

# D7.1 THE OPTIMEDIS MODEL ORIGINAL GOOD PRACTICE AND TRANSFER PROCESS

# Annex document

# OptiMedis AG

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ACO	Accountable care organisations		
ACSA	Ambulatory care sensitive (hospital) admissions		
Арр	Application		
ARS	Agence Regional De Santé (Regional Health Agency)		
BARC	German Business Application Research Centre		
BI	Business Intelligence		
CEO	Chief Execution Officer		
CF	Core Feature		
CHU	Centre hospitalier universitaire (University Hospital)		
CKD	Chronic kidney disease		
CLS	Contrat local de santé (Local health contract)		
COPD	Chronic obstructive pulmonary disease		
COVID	Coronavirus disease		
CPAM	Caisse Primaire d'Assurance Maladie (Health insurance)		
CPTS	Communautés Professionnelles Territoriales de Santé (Territorial Professional Health Communities		
CQI	Continuous Quality Improvement		
CVD	Cardiovascular diseases		
DM	Diabetes mellitus		
DSL	Dienststelle für selbstbestimmtes Leben (entre for self-determined living)		
DTCP	Diagnostic and Therapeutic Care Pathways		
EBM	Evidence based medicine		
EC	European Commission		
ECDC	European Centre for Disease Prevention and Control		
EHR	Electronic Health Record		
EPJ	Electronic Patient Journal		
EU	European Union		
EUSTRAS	Eurométropole de Strasbourg		
FCN	Family and Community Nurse		
FFS	Fee for Service		
FORTA	Fit for the Aged		
GDPR	General Data Protection Regulation		
GHT	Groupement des hopitaux de territoire (Group of territorial hospitals)		
GIP MSS	Groupement d'Interêt Publique – Maison Sport Santé		
GK	Gesundes Kinzigtal (Healthy Kinzigtal)		
GP	General practitioner		
GWMK	Gesunder Werra Meissner Kreis (Healthy Werra Meissner District)		
НСР	Healthcare professional		
(C)HF	(Congestive) Heart Failure		
HIS	Healthcare Information Systems		
ICD	International Classifications of Diseases		
ICIC	International Conference on Integrated Care		
I(C)T	Information (and Communication) Technology		
ICP	Individualized Care Plan		
IHD	Ischemic heart disease		

unded by the Ith Programme of European Union





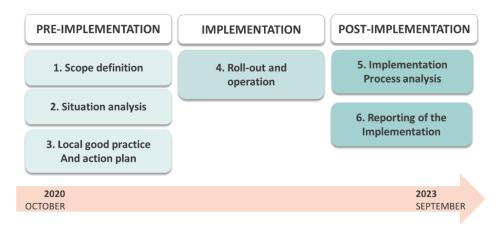
IHO	Integrated Healthcare Organization		
IPCHS	Integrated people centred health services		
JA	Joint Action		
LAP	Local Action Plan		
LCF	Local Core Feature		
LGP	Local Good Practice		
МоН	Ministry of Health		
MoHRS	Ministry of Health of the Republic of Serbia		
MUS	Maison urban de Santé (Urban House of Health)		
NA	Next Adopter		
NAWG	Next Adopter Working Group		
NCD	Non-communicable Diseases		
NHIF	National Health Insurance Fund		
oGP	Original Good Practice		
PC	Primary Care		
PDSA	Plan Do Study Act		
PHM	Population health management		
PM	Project Manager		
PRISCUS	Potentially inappropriate medications for the elderly		
QA	Questionnaire		
RND	Region of North Denmark		
RUB	Resource Use Band		
SDCN	Steno Diabetes Centre North Denmark		
SMART	Specific Measurable Achievable Relevant Time-bound		
SSsO	Sport santé sur prescription (Sports on prescription)		
TSD	Territoire de santé de demain (Health territory of the future)		
UNODP	United Nations Office on Drugs and Crime		
VR	Virtual reality		
WHO	World Health Organization		
ZZZS	Slovenia Health Insurance Institute		





# Annex 1: Implementation reporting documentation

This appendix document includes the reporting documentation of the eight NAs of the Basque Good Practice for the three phases of the implementation process:



*Figure 1: JADECARE three step Implementation Strategy* 

## **Pre-implementation**

The objective of this phase is to elaborate the LGPs and the LAPs to be followed during the implementation by means of three activities:

- <u>Scope definition</u>: that implies selecting the CFs of the oGP(s) to be implemented and integrated in routine practice in each NA site. For this means, the NAs assessed the relevance and feasibility of the CFs of the oGP(s) in a four points scale, where 0=Not at all and 4= Extremely, and selected those to be implemented at the local site.
- <u>Situation analysis</u>: whose purpose is to analyse the organizational position of the NAs within the environment by conducting a SWOT analysis to then define its Strategic Intervention Areas (SIAs).
- <u>Definition of the LGPs and LAPs</u>: including the detail of the intervention designed: name of the good practice, target population, setting, main aim, general description, needed inputs, main components and expected outcomes and the concrete actions to be taken to deploy it, including each SMART objective, specific activities, actors, resources, settings(s), timeline and KPIs.

## Implementation

It consisted of the execution and monitoring of the implementation by means of 2 Plan-Do-Study-Act (PDSA) Cycles, where the report of each step includes:

- <u>Plan</u>: a detail of the activities broken down into actions, actors, timeline and information on KPIs to assess them (target value and who/when and how will the data be collected).
- <u>Do</u>: information on the actual value of the KPIs compared to the planned target value, a summary of what was actually implemented and description of deviations, problems or unexpected findings, if any, as well as the implementation progress achieved until the moment.
- <u>Study</u>: the reasons for the deviations, mitigation actions implemented and their impact, considering the planned and actual KPI values.
- <u>Act</u>: the decision to maintain, adapt or abandon each activity as well any new proposed action for the future.

## **Post-implementation**

The whole implementation was reported by each NA by means of the SQUIRE 2.0 adapted guidelines. It contains SQUIRE 2.0 contains 18 items to respond 2 general sections and 4 key questions: title and abstract, why did you start?, what did you do?, what did you find?, what does it mean? and other information



# North Denmark Region (RND)

# **Pre-implementation**

# Scope definition

# Identified and prioritized needs

Block		Prioritised nNeeds (grouped)	
Block 1		Setting up local integrator or alternative	
Shared savings contract	2	Secure investment and develop "business plan"	
with reimbursement/	3	Create evidence for improved population health and patient well-being	
commissioning organi-		through integrated, performant and cost-effective care (preventive and	
zations		disease management) interventions	
Block 2	4	Identify key stakeholders and define local health eco-system	
A model including	5	Situation analysis and definition of improvement opportunities	
strong stakeholder en- gagement	6	Identify and implement incentive system for stakeholder engagement	
Block 3	7	Define data integration needs (shared patient files, exchange platforms for	
Electronic integration		chronic disease model, IT requirements), implement national data integra-	
across providers		tion standards	
	8	Implement data sharing tools (depending on national and reginal IT strat-	
		egies in health and their implementation plan)	
Block 4	9	Put in place a patient participation mechanism	
Patient involvement and empowerment	10	Develop patient activation strategy and design interventions	
Block 5	11	Define outcome indicators and KPIs	
Data-driven manage-	12	Identify analytical needs and implement appropriate strategies	
ment	13	Continuously monitor outcomes and impact of interventions	
Block 6	14	Identify primary prevention and behaviour change priorities with a focus	
Prevention, health pro- on chronic disease		on chronic disease	
motion and public	15	Develop and launch communication activities	
health	16	Identification of disease management priorities and implement integrated	
		patient centred care plans	

Block	Prioritized needs		
Stratification	Stratification for choice of treatment		
	Stratification to prioritize development initiatives		
Dashboard	Dashboard on individual patient level		
	Dashboard on population		
Prediction	Support on data collection and data quality		
	Prediction on late complication and quality of life		
	Search for State of the art in diabetes treatment		

# **Assessment of Core Features**

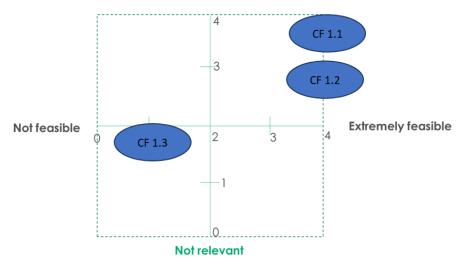
Core feature		Feasibility
CF 1.1 Stratification data extraction and construction of dashboards	4	4
CF 1.2 Classification of patients	3	4
CF 1.3 Stratification in the framework contract	2	1







#### **Extremely relevant**



## **Final Core Features selected**

CF1.1 Risk stratification

- CF1.2 Classification of patients
- CF1.3 Stratification in the Framework Contract

# Situation analysis

	Strengths	Weaknesses		
Internal	<ul> <li>RND have a large Data pool</li> <li>We have a mutual ambition to use data</li> <li>The staff has a generally high level of competence in relation to data and IT</li> <li>(almost) Realtime Data on patients</li> <li>Great focus on data collection</li> <li>We have the best data completeness in Denmark</li> <li>We have the resources to work with data (3 employees in BI dedicated to diabetes data)</li> <li>We have a high degree of valid data</li> <li>Data from many difference data sources within the healthcare system</li> <li>High level of motivation</li> <li>Strong focus on our strategy - it is a stated ambition</li> </ul>	<ul> <li>DO!!! (it is sometimes difficult to get things done even though data supports new initiatives)</li> <li>We do not have access to socio-economic data (Family status, level of education, housing, social services, municipal health services)</li> <li>You can't make dynamic adjustments in a clinic that is booked far into the future (over a year)</li> <li>The healthcare economy is politically controlled and sometimes there is a risk that political decisions are poorly related to data in the field.</li> <li>Data across sectors is very difficult</li> <li>Lack of quality in registration</li> <li>Validity - clinicians often do not get everything registered. For example, documentation of delivery of diabetes equipment.</li> <li>Lack of financial incentives</li> <li>The ability to manage change through data is</li> </ul>		
	Opportunities	Threats		
External	<ul> <li>Data-driven competence development - adaptive services for patients</li> <li>Cross-sectoral - exchange data and knowledge with other health actors</li> <li>Patient empowerment</li> </ul>	<ul> <li>Inappropriate breaches of data definitions and data flows associated with new EHR and other new systems</li> <li>It is difficult to change the habits within the health field</li> </ul>		





- Opportunity to see potentials that we cannot see today without data
- Increased quality through insight into effect
- Data as a basis for idea generation and innovation
- Strengthen the power of transformation
- Prioritization of the target group
- Individually adapted treatment
- Competence boost in relation to data use
- Decision and treatment support
- AI
- Targeted efforts for smaller geographical areas
- The actual use of data in itself creates better registration quality

- Conflict in the field. Data have been used for natural scientific evidence and scientific publications. A new tradition must be built.
- Commercial issues with external partners.
- Who owns data: Diabetic pump manufacturer, healthcare provider or patients?
- GDPR
- Change in key staff
- Change in politics agendas
- Daily operations consume time from development tasks
- We are having a new primary source for data processing in 2022 (NordEPJ)
- Change in data definitions (New subcategories of treatment types)
- Noisy data
- IT maturity
- Data overload
- Resistance to change
- Distrust of data (due to previous misinterpretations)

#### **Strategic Intervention Areas**

Strategic intervention area	Priority	Ranking
Further development of SDCN Data dashboards	3	1
Develop Competencies to use data strategically	3	2
Implementation in practice (DO part)		3
Framework conditions (Law, risks, systems)		
Cross-sectoral data		
Change management with data		



# Definition of the LGP and LAP

## **Local Good Practice**

Local Good Practice	Region of North Denmark (RND)		
Target population Setting(s)			
The North Jutland region has 590,439 inhabitants in 2021. The project will The regional health system			
have a special focus on activ	possibly in collaboration with		
based on the current patier	selected municipalities		
Main aim			

The North Jutland region has already come a long way with their strategic use of data. The reason for joining JADECARE is to be inspired to further develop our own solutions with the Mix and Match approach. The purpose has therefore not been to implement a complete or parts of IT systems of the oGP, s but primarily to learn from positive experiences from other EU countries. Our NAWG has expressed interest in these parts:

German Good Practice (OptiMedis): CF 5.1: Potential analysis tool and Core Feature 5.2: Performance dashboards

Basque Good Practice: CF 1.1: Stratification Data extraction and construction of Dashboards and Core Feature 1.2: Classification of patients. 1.3: Stratification in the Framework Contract

It is these areas where we would like to be **inspired** about ways to build our dashboards and develop new project ideas. Therefore, our local action plan and local core features is more of an exchange of ideas for areas where we expect to be able to learn from oGPs.

We would like to be inspired in two levels:

## First Main aim: Focus on the diabetic patients (5.627 active patients)

Here we would like to realize Steno Diabetes Centre North Jutland's vision

- Increase guality of life and life expectancy for citizens with diabetes.
- Create a coherent diabetes treatment close to the citizen.
- Slow down the growth of new cases of diabetes.

This must happen based on strategic use of data and data dashboard in the field of diabetes. Although this part is focused on the diabetes area, there are many external actors (Other hospitals, municipalities, rehabilitation units, etc.) who can strengthen cooperation with SDCN through joint use of dashboards.

## Second main aim: Focus on the entire population in North Jutland (590,439 inhabitants)

The second focus is a main aim for the whole region. Among North Jutland health actors (11 municipalities and one region), there is a strong focus on citizens with chronic diseases and / or complex issues. To ensure a new and more data-driven approach to the health field, new knowledge and methods are needed to focus on the entire population group and not only on active patient groups in the hospital.

Outcomes	Local Core Features and their Components	Inputs
Short term outcome for the project will be: 1: New data dashboards and strategical data usage 2: New competencies at RND and SDCN 3: New projects on the basis of data The long-term effect of this project will be better and more targeted patient care, but this cannot be	<ol> <li>Further development of SDCN Data dashboards</li> <li>Data-driven approach for the North Jutland population: feasibility study</li> <li>New projects based on data (Al is based on Experience from German Good Practice B5 and Basque Good Practice B1)</li> </ol>	<ul> <li>Funding (Novo Nordisk foundation)</li> <li>BI staff (Recruitment)</li> <li>Program managers</li> <li>Decision markers</li> <li>IT system (Need for ACG Grouper?)</li> </ul>





documented within the JADECARE

project period.

#### **General description**

A significant investment for Steno Diabetes Centre Nordjylland (part of RND) is a new database of all North Jutland diabetes patients to make a more targeted patient treatment.

The database must be the central basis for an ambitious digitization and research effort in SDCN and serve as a valuable basis for both patients, healthcare professionals and researchers in the development of new and improved healthcare services for diabetic patients.

There are a large number of data sources that support the field of diabetes today and with increased digitization and the use of home technology and wearables, even more possibilities arise. The aim of the project is to establish a coherent and generic data platform where the diverse data types are brought together and this development work is already well initiated. The database must be able to be used for clinical use, at citizen level, for quality development and clinical research as well as for the development of models for valuebased management.

SDCN would like to incorporate methods such as patient stratification and risk assessment into the database, so that in the long-term new treatment methods can be created for the individual patient groups. Therefore, RND would like to investigate the ideas, data sources and methods in solutions such as Johns Hopkins ACG System in the Basque Good Practice and the systems of th Germang Good Practice considering which data (Finance data, PRO-data, Quality of Life) the method is based on and if the data can be found in a Danish context.

#### Local Core Feature 1

Further development of SDCN Data dashboards

**Local Core Feature 2** 

Data-driven approach for the North Jutland population: feasibility study

**Local Core Feature 3** 

New projects based on data

## **Local Action Plan**

Local Good Practice Region of North Denmark (RND)	Region of North Denmark (RND)						
Target population	Setting						
The North Jutland region has 590,439 inhabitants in 2021. The project will have a special focus on active diabetes patients in the hospital (5,627 active based on the current patient status)	The regional health system - possibly in collaborationwithselectedmunicipalities						

#### Main aim

The local good practice has a double aim:

## 1: Focus on the diabetic patients

Here we would like to realize Steno Diabetes Centre North Jutland's vision:

- Increase quality of life and life expectancy for citizens with diabetes.
- Create a coherent diabetes treatment close to the citizen.
- Slow down the growth of new cases of diabetes.

This must happen on the basis of strategic use of data and data dashboard in the field of diabetes.

## 2: Focus on the entire population in North Jutland

The second focus is a main aim for the whole region. Among North Jutland health actors (11 municipalities and one region), there is a strong focus on citizens with chronic diseases and / or complex issues. To ensure a new and more data-driven approach to the health field, new knowledge and methods are needed to focus on the entire population group and not only on active patient groups in the hospital.





Therefore, RND would like to investigate the ideas, data sources and methods in solutions such as Johns Hopkins ACG System in the Basque Good Practice and the systems of the German Good Practice considering which data (Finance data, PRO-data, Quality of Life) the method is based on and if the data can be found in a Danish context.

# **General description**

A significant investment for Steno Diabetes Centre Nordjylland (part of RND) is a new database of all North Jutland diabetes patients.

The database must be the central basis for an ambitious digitization and research effort in SDCN and serve as a valuable basis for both patients, healthcare professionals and researchers in the development of new and improved healthcare services for diabetic patients.

There are a large number of data sources that support the field of diabetes today and with increased digitization and the use of home technology and wearables, even more possibilities arise. The aim of the project is to establish a coherent and generic data platform where the diverse data types are brought together. The database must be able to be used for clinical use, at citizen level, for quality development and clinical research as well as for the development of models for value-based management.

SDCN would like to incorporate methods such as patient stratification and risk assessment into the database, so that in the long-term new treatment methods can be created for the individual patient groups.

Mix and Match

Related German Good Practice (Optimedis): CF5.1: Potential analysis tool and CF5.2: Performance oGPs dashboards

and CFs Basque Good Practice: CF1.1: Stratification Data extraction and construction of Dashboards and CF1.2: Classification of patients CF1.3: Stratification in the Framework Contract

Further development of SDCN Data dashboards Local Core Feature 1

## **SMART** objective

At the end of JADECARE (September 2023) the Region of Northdenmark will have designed a new dashboard approach for the diabetes patients in Northdenmark - which after the project period will provide better patient care through more targeted offers.

Activities	Actors	Resources	Setting(s)	Timeline	KPIs
	NAWG and German and Basque Good Practices (Data managers etc,)	<ul> <li>Communi cations- platform</li> <li>Licenses or demo</li> </ul>	Web- based meeting	2021/ 2022	<ul> <li>1 overview over relevant programmes, software, tools and license (both</li> </ul>
Examine data sources in German and Basque Good Practices	NAWG and German and Basque Good Practices (Data managers etc,)	Communica tions- platform	Web- based meeting	2021/ 2022	German and Basque Good Practices) • 1 overview of data sources (both German and Basque Good Practices)
Examine selected activities and project that are initiated by German and Basque Good Practices on the basis of data. This	NAWG and German and Basque Good Practices (Project managers)	Communicati ons-platform	Web-based meeting	2021/ 2022	<ul> <li>1 overview of project with diabetes (both German and</li> </ul>





could be both diabetes project and general health projects. <b>Step 2: Analysis</b> Identify the location and conditions for Danish data sources (Fit gap)	NAWG		NA's site	2022	<ul> <li>Basque Good Practices)</li> <li>1 Danish overview of Danish health data sources (Both existing and potential)</li> </ul>
Step 3: Development Development of a new dashboard in the diabetes field in Northdenmark	German and Basque Good Practices	Next adopters' database – Developmen t cost	NA's site	End of 2022	<ul> <li>1 new Dashboard for use at Steno Diabetes Centre North Denmark</li> </ul>
Local Core Feature 2 SMART objective	Data-driven appr	oach for the No	orth Jutland po	pulation: feas	ibility study
At the end of JADECARE data strategically for bet level and can be docume Good Practices.	tter patient care. T ented that they ha	hese competen ave been in know	cies are both a wledge sharing	t employee lev g process the G	vel and at management erman and the Basque
Activities	Actors	Resources	Setting(s)	Timeline	KPIs
Site visit for the end- users of data Knowledge development for chief physician and chief nurse about the use of data and patient stratification	<ul> <li>chief physician and chief nurse (RND)</li> <li>German and Basque Good Practices (chief physician and chief nurse)</li> </ul>	Travel expences)	OGP site	2022	<ul> <li>4 managers have completed exchange visit</li> <li>2 Business intelligence consultants have completed exchange visit</li> <li>2 Researchers have completed</li> </ul>
Site visit for the end- users of data Knowledge development for Business intelligence consultants about development of dashboards and datasources	<ul> <li>Business intelligence consultants (RND)</li> <li>German and Basque Good Practices (Business intelligence consultants or datamanagers )</li> </ul>		OGP site	2022	exchange visit
	,				





Knowledge development for researchers about datasources Local Core Feature 3 SMART objective At the end of JADECARE based on data that can based	Basque Good Practices (researchers) New projects bas	<b>ed on data</b> ) the Region of			st of new project ideas
Preparespecificprojectproposalsbased on data fromRND. An example of anprojectideacould be"Type1diabetespatientabsences"	• NAWG	Communicati on with OGP (Emails, teams etc)	NA site	End of 2022	2 Project proposal
Prototype for data model for stratification – both for diabetic patients and the entire population	<ul> <li>NAWG</li> <li>"The idea clinic"</li> </ul>	<ul> <li>Communication</li> <li>with OGP</li> <li>(Emails, teams</li> <li>etc)</li> </ul>	NA site	End of 2022	1 prototype for a new datamodel
Presentation of the results of JADECARE to the internal and external strategic decision-makers in North Jutland	clinic"		NA site	End of 2022	1 project summary to policy makers



# Implementation

# 1st PDSA Cycle

# Plan

LCF1	Further development of SDCN Data dashboards (Type 1 diabetes)									
Activities		A	The slips	KPIs measure (data collection)						
Activities	Actions	Actors	Timeline	КРІ	Who	When	How	Target		
1: Examination	<ul> <li>Examination of programs used by German Good Practice</li> <li>Online Consultations of German Good Practice experts on the existing database in RND</li> <li>Revisit the Basque Good Practice online site visit and powerpoint</li> </ul>	<ul> <li>Project manager: Ulrik Appel</li> <li>Quality manager: Amar Nikontovic</li> <li>Head of Digitalization: Tina Heide</li> <li>Dr. Med. Manfred Zahorka</li> <li>Head of health data analytics Pascal Wendel</li> <li>Senior manager Justin Rautenberg</li> </ul>	<ul> <li>Completed with OptiMedis 29/11-2021</li> <li>Completed with Basque Good Practice on 17/1-2022 with Amar Nikontovic</li> </ul>	1 Meeting about relevant programs, software, tools and license	Project manager Ulrik Appel	31 January 2022	From calendar	1		
	Examine data sources in German and Basque Good Practices Optimedis shares their file for datarequest with RND. The Basque Good Practice leaders send ASG contract and similar list of datasources	<ul> <li>Dr. Med. Manfred Zahorka from Optimedis</li> <li>Jon Txarramendieta Suarez from Kronikgune</li> </ul>	1/1 -2022 to 28/2- 2022	1 overview of data sources (both German and Basque Good Practices)	Project manager Ulrik Appel	31 January 2022	Received file/mails	1		







	Examine selected activities and diabetes project that are initiated by OptiMedis and Kronikgune on the basis of data. Both sends information about projects based diabetes data	Dr. Med. Manfred Zahorka dialog on Next Adaptors status meeting	1/1 -2022 to 28/2- 2022	1 brief overview of project with diabetes (both Kronikgune and OptiMedis)	Project manager Ulrik Appel	31 January 2022	Received information	1
2: Analysis	Identify the location and conditions for Danish data sources (Fit gap) The fit gap analysis will be determining how well RND current data access will fits model from OptiMedis and KronikGune. In other words, it helps RND identify the areas where problems are occurring and how severe they are	<ul> <li>Project manager: Ulrik Appel</li> <li>Quality manager: Amar Nikontovic</li> <li>Data manager: vacant</li> </ul>	1/3 2022 to 31/3 2022	1 Danish overview of Danish health data sources (Both existing and potential)	Project manager Ulrik Appel	30 April 2022	File	1
3: Development	Development of a new dashboard in the diabetes field in North Denmark within the Regions "Qlik" system. Priority: Type 1 diabetes When the database is developed, there will be an 1 hour online meeting with NAWG and Optimedis about the new model	<ul> <li>Project manager: Ulrik Appel</li> <li>Quality manager: Amar Nikontovic</li> <li>Data manager: vacant</li> <li>Dr. Med. Manfred Zahorka</li> <li>Head of health data analytics Pascal Wendel</li> <li>Senior manager Justin Rautenberg</li> </ul>	1/4 2022 to 30/6 2022	1 new Dashboard embedded in the Qlik system for use at Steno Diabetes Centre North Denmark	Project manager Ulrik Appel	30 June 2022	A new improved dashboard in Qlik	1





LCF2	Data-driven approach for t	he North Jutland popula	tion: feasibil	ity study				
	• • •			KPIs measure (data	collection)			
Activities (from the LAP)	Actions	Actors	Timeline	КРІ	Who	When	How	Target
1: Site visit for the end-users of data (Site visit could thematic workshop, site visit on hospital or a conference. Must be matched with needs from other countries NAWGs. A possible solution could be workshops in Denmark at the ICIC 2022 congress in Odense)	Knowledge development for chief physician and chief nurse about the use of data and patient stratification	<ul> <li>Jon Txarramendieta Suarez from KronikGune</li> <li>Dr. Med. Manfred Zahorka</li> <li>Project manager: Ulrik Appel</li> </ul>	Q1 develop program Q2 visit	4 managers have received an invite	Project manager Ulrik Appel	30 June 2022	Program or Calenda	1
Odense)	Knowledge development for Business intelligence consultants about development of dashboards and data sources	<ul> <li>Jon Txarramendieta Suarez from KronikGune</li> <li>Dr. Med. Manfred Zahorka</li> <li>Project manager: Ulrik Appel</li> </ul>	Q1 develop program Q2 visit	2 Business intelligence consultants have completed exchange visit	Project manager Ulrik Appel	30 June 2022	Program or calendar	1
	Knowledge development for researchers about data sources and research projects	<ul> <li>Jon Txarramendieta Suarez from KronikGune</li> <li>Dr. Med. Manfred Zahorka</li> <li>Project manager: Ulrik Appel</li> </ul>	Q1 develop program Q2 visit	2 Researchers have completed exchange visit	Project manager Ulrik Appel	30 June 2022	Program or calendar	1





#### Do

Cycle number (1 or 2)	1	
Activity	KPI	Actual value
LCF 1: Dashboard Step 1:	1 Meeting about relevant programs, software, tools and license	1 = 100%
Examination	1 overview of data sources (both Kronikgune and OptiMedis)	1 = 100%
	1 brief overview of project with diabetes (both Kronikgune and OptiMedis)	1 = 100%
LCF 1: Dashboard Step 2: Analysis	1 Danish overview of Danish health data sources (Both existing and potential	1 = 100%
LCF1:DashboardStep3:Development	1 new Dashboard embedded in the Qlik system for use at Steno Diabetes Centre North Denmark	0 – but startet = 10%
LCF 2: Site Visit	4 managers have received an invite	Total 12 = 100% Manager/Projectmanager at ICIC 2022 = 2, Slovenia (WP7)= 1, Strasbourg (WP7)= 3, Aalborg (WP5)= 6
	2 Business intelligence consultants have completed exchange visit	Total 8 = 100% Business intelligence or Quality manager at ICIC 2022 = 1, Slovenia(WP7) = 1, Strasbourg (WP7)= 1, Aalborg (WP5)= 5
	2 Researchers have completed exchange visit	Total 4 = 100% Researcher at ICIC 2022 = 1, Slovenia (WP7)= 0, Strasbourg = 0, Aalborg (WP5)= 3

QUESTIONS	ANSWERS
What was actually implemented? Any deviation from the planned actions	The Examination and Analysis (LCF1) and Site visit (LCF2) are completed. however, the development phase of the Dashboard (LCF1) has been postponed to PDSA part 2 due to shifts in both EPJ and key personnel.
Problems? Unexpected findings? Please describe	There have been problems with the development phase of the dashboard (LCF1) due to new EPJ and problems with site visits (LCF2) due to COVID-19. However, these are problems that are considered to be solvable in PDSA part 2. On the other hand, the project has progressed further with the strategic part (LCF3), which was first planned to start in PDSA part 2. Here, a working group has already been set up with external actors and a strategic note on organization is being prepared.





IMPLEMENTATION PROGRESS OF THE LOCAL GOOD PRACTICE						
0-25%	25-50%	50-75% 75-100%				
		x				

# Study

Cycle number	cle number (1or 2) 1					
Activity	КРІ	Target value	Actual value	Reasons for the deviations	Mitigation actions implemented	Impact of mitigation actions
LCF 1: Dashboard Step 3: Development	1 new Dashboard embedded in the Qlik system for use at Steno Diabetes Centre North Denmark	1	0	vacant position at the Business Intelligence unit	Dialogue with 2 other consultants from the BI unit (Stine and Camilla) to solve the task of building the reports. The new agreement was that the design of the report is carried out by Steno, which will make a mock up based on input from OptiMedis and Kronikgune. The next step is for the reports to be built from September to December 2022	The task will be part of PDSA part 2 (Activity 1.1 to 1.3)

#### Act

Cycle number (1 or 2)	1		
Activity	Maintain	Adapt	Abandon
1.1 Dashboard: Mock up (Steno)		Х	
1.1 Dashboards: Build (BI)	X		
2.1. Dashboard for of Patients Absence: Data extraction (Steno)	X		
<b>2.2.</b> Dashboard for of Patients Absence: Data analysis (Together with the Alexandra Institute)	X		
2.3. Dashboard for of Patients Absence: Build a new dashboard	X		
3.1. Sustainability and strategic anchoring. Write a strategic paper		Х	
3.2. Sustainability and strategic anchoring. Dialogue about the paper at the administrative level		Х	
3.3. Sustainability and strategic anchoring. Political decision		Х	

QUESTIONS	ANSWERS
Any new proposed action for the future?	PDSA Part Two focuses more on the strategic level



# 2nd PDSA Cycle

## Plan

LCF1	Further development of SDCN Data dashboards	; (Part 2)						
Activities (from				KPIs measure (data	collectio	n)		
the LAP)	Actions	Actors	Timeline	КРІ	Who	When	How	Target
1. Building the Dashboard	Make a dashboard <b>Mockup</b> from input from fit- gap report (PDSA1) (OptiMedis/Kronikgune)	Ulrik Appel and Amar Nikontovic (Sending to OptiMedis and Kronikgune)	August 2022	Make 6 Mockups	Ulrik Appel	Dec. 2022	Copies of Mockups	6
	Prototype meeting of the mockup with health professionals - Head physician - Head nurse - Cross-sectoral employee Brainstorm for new inputs and improvements	Ulrik Appel and Amar Nikontovic	September 2022	3 meeting	Ulrik Appel	Dec. 2022	Calender invitation	3
	Building the final Dashboard	Stine Fly Bay and Camilla Winther Nielsen	Sep dec. 2022	1 New Dashboard	Ulrik Appel	Dec. 2022	Screen dump of new dashboard	6
	<b>Final Dialogue</b> with healthcare professional and cross-sectoral employees about use cases of the new dashboard	Ulrik Appel and Tina Heide	Dec. 2022	1 Meeting	Ulrik Appel	Dec. 2022	Calendar invitation	1
2. Data on patient absences (Risk factors)	<b>Data transfer</b> for external analysis (AI program with Alexandra Institute)	Ulrik Appel and Amar Nikontovic	July 2022	1 transfer of health data	Ulrik Appel	Dec. 2022	Copy of "Standard Contractual Clauses" with Alexandra	1







<b>Report</b> from the Alexandra Institute (External)	Rasmus Larsen July from Alexandra 202 Institute	lly – Nov. 1 Report from D22 Alexandra about signal values and possibilities for riskdata	Ulrik Dec. Appel 2022	One report 1 (Google Translate)
<b>Mock up</b> for a new dashboard with risk of non- attendance	Ulrik Appel and Dec Amar Nikontovic (Sending to OptiMedis and Kronikgune)	ec. 2022 A mockup where the report's recommendations have been translated into a draft for new risk dashboard	Ulrik Dec. Appel 2022	One Mock-up

LCF2	Strategic discussion of the population a	pproach in RND (new)						
Activities (from the	Astions	Astore	Timolino	KPIs measure (data collec	tion)			
LAP)	Actions	Actors	Timeline	КРІ	Who	When	How	Target
1: Discussion about population approach in RND	Preparation of a <b>strategic paper</b> about the strategic use of health data about vulnerability in the North Jutland Region	Ulrik Appel, Bente Koch and Amar Nikontovic Niels Frederik Rottbøll And Gorm Simonsen	August 2022	1 strategic paper (google translate to English)	Ulrik Appel	December	1 paper	1
	Action plan for new specific cross- sectoral initiatives on the basis of the report A: New network with specialists and support functions B: Mapping of legal frameworks	Ulrik Appel, Bente Koch and Amar Nikontovic	Aug. 2022 – Dec. 2022	1 new network	Ulrik Appel	December	1 plan	1





C: Project on data and vulnerable diabetes patients	Niels Frederik Rottbøll And Gorm Simonsen						
<b>Mapping</b> of Steno and RND data situation (With Aalborg University)	Ulrik Appel Aalborg University	Aug. 2022 – Dec. 2022	1 Report about Steno's data infrastructure and data issues	Ulrik Appel	December	1 paper	1
Use of data on the morning conference	Ulrik Appel and external consultant	Sep. 2022 – Dec. 2022	1, process about the use af data on morning conference	Ulrik Appel	December	1 paper	1





#### Do

Cycle number (1 or 2)	2	
Activity	KPI	Actual value
Dashboard: Mockup	6	6
Dashboard: Prototype meeting	3	3
Dashboard: Building	6	6
Dashboard: Final dialogue	1	1
Patient absence: Data Transfer	1	1
Patient absence: Report	1	1
Patient absence: Mockup	1	1 (see deviation)
Population approach: Strategic paper	1	1
Population approach: Action plan	1	1
Population approach: Mapping	1	1
Population approach: Morning conference	1	(1) (see study)

QUESTIONS	ANSWERS
What was actually implemented? Any deviation from the planned actions	<ul> <li>A large number of elements were implemented in JADECARE</li> <li>Dashboard for patient overview</li> <li>Dashboard for age distribution of patients</li> <li>Diabetes Prevalence Dashboard</li> <li>Geographic dashboards</li> <li>Generic model for new dashboards (Labka)</li> <li>Analysis and recommendations* for minimizing absenteeism</li> <li>Strategic report</li> <li>Strategic cross-sectoral network</li> <li>*Deviation: Patient absence and mockup: We had expected to create a data report on non-attendance at an individual level, but based on the AI report choose to focus on a group instead (Young men 20-45 years). Therefore, there is no need for a mockup for a dynamic report, since we focus on a group and not individual patients.</li> </ul>
Problems? Unexpected findings? Please describe	-

IMPLEMENTATION PROGE	RESS OF THE LOCAL GOOD P	PRACTICE	
0-25%	25-50%	50-75%	75-100%
			Х

# Study

Cycle number 2





Activity	КРІ	Target value	Actual value	Reasons for the deviations	Mitigation actions implemented	Impact of mitigation actions
Population approach: Morning conference	One process about the use of data in morning conference	1	(1)	There has been a process, which, however, did not become a concrete proposal. Meeting with Optimedis held the 24. November in Hamborg, where models for "portfolio analysis" was presented for RND's general inspiration. If the model should be suitable for the hospital system its requires a lot of adjustment, development, and involvement of end users / health professionals. After a dialogue with the senior physician, it was decided that the hole process should be "bottom- up" since the medical doctors (end-users) had to be involved from the start and the solution had to be based on their needs. This was not possible within JADECARE 's time frames	This focus area became part of another and larger project in RND and was therefore taken out of JADECARE.	The reports will be developed in 2023 and 2024 based on a "bottom up" approach in another project.

# Act

Сус	cle number (1 or 2)	2		
Act	tivity	Maintain	Adapt	Aband
1.	Building the <b>Dashboard</b>	We have reached the goal in JADECARE.		
		We are continuously expanding the database with new data sources and reports - also after JADECARE ends.		
		In the future, SDCN will run a dedicated "data track" in the digital health department.		
2.	Data on <b>patient</b> <b>absences</b> (Risk factors)	<ul><li>We have reached the goal in JADECARE.</li><li>After JADECARE the focus continues on</li><li>male aged 20-45, who have an increased risk of</li></ul>		
		absenteeism based on our Al model		
3.	Discussion about population	We have reached the goal in JADECARE.		
	approach in RND	After JADECARE ends, we continue to maintain the network with the participation of municipalities, general practitioners, and other external partners		





# Post-implementation

Title N T Abstract 2 Ir d	<ul> <li>Strategic Used of Data in Steno Diabetes Centre NorthDemark (SDCN) in the Region of North Denmark (RND)</li> <li>The strategic use of data in SDCN has a dual focus in JADECARE</li> <li>L: Further development of SDCN Data dashboards</li> <li>SDCN already has a database, which, however, is very focused on activity and number of reatments. Through JADECARE, the desire was to switch to a focus on the population's approach and Risk Stratification. RND would like to do this by building new datareports QLIK with help from the JADECARE collaboration.</li> <li>2: Strategic discussion of the population approach in RND n addition to a number of new dashboards, it is important to have an organizational development project. Therefore, a network is planned to be established in RND together</li> </ul>
Title N T Abstract 2 Ir d	North Denmark (RND) The strategic use of data in SDCN has a dual focus in JADECARE <b>E: Further development of SDCN Data dashboards</b> SDCN already has a database, which, however, is very focused on activity and number of reatments. Through JADECARE, the desire was to switch to a focus on the population's approach and Risk Stratification. RND would like to do this by building new datareports QLIK with help from the JADECARE collaboration. <b>2: Strategic discussion of the population approach in RND</b> n addition to a number of new dashboards, it is important to have an organizational development project. Therefore, a network is planned to be established in RND together
Abstract	<b>1: Further development of SDCN Data dashboards</b> SDCN already has a database, which, however, is very focused on activity and number of reatments. Through JADECARE, the desire was to switch to a focus on the population's approach and Risk Stratification. RND would like to do this by building new datareports QLIK with help from the JADECARE collaboration. <b>2: Strategic discussion of the population approach in RND</b> n addition to a number of new dashboards, it is important to have an organizational development project. Therefore, a network is planned to be established in RND together
Abstract	DCN already has a database, which, however, is very focused on activity and number of reatments. Through JADECARE, the desire was to switch to a focus on the population's approach and Risk Stratification. RND would like to do this by building new datareports QLIK with help from the JADECARE collaboration. <b>2: Strategic discussion of the population approach in RND</b> n addition to a number of new dashboards, it is important to have an organizational development project. Therefore, a network is planned to be established in RND together
Abstract 2 Ir d	<ul> <li>approach and Risk Stratification. RND would like to do this by building new datareports</li> <li>DLIK with help from the JADECARE collaboration.</li> <li>2: Strategic discussion of the population approach in RND</li> <li>n addition to a number of new dashboards, it is important to have an organizational development project. Therefore, a network is planned to be established in RND together</li> </ul>
lr d	n addition to a number of new dashboards, it is important to have an organizational development project. Therefore, a network is planned to be established in RND together
d	levelopment project. Therefore, a network is planned to be established in RND together
	with a report and action plan for better use of data in the whole organization.
Why did you start?	
Problem e description T	n the earlier phases of the JADECARE project, it was clear that good practices Kronikgune and OptiMedis had a different approach to data than SDCN. They focused more on the entire population, risk stratification and cross-sectoral strategic collaboration. Through JADECARE, SDCN investigated the possibility of integrating parts of data work rom Kronikgune and OptiMedis into RND database.
d Available knowledge T ir	DCN already had a program for data analysis (Qlik sense) and a large number of hospital data sources. These are clinical values from "Labka", activities from "Bookplan", discharges from "PAS" and medicinal information from the "medicinal module". During he project, these data sources were transferred to NordEPJ The aim of the work in JADECARE was therefore not about the purchase of software, but instead dialogue about further development and new perspectives on the existing database.
a Rationale ir a	The actual rationale behind the project was that SDCN is part of Danish healthcare law and therefore cannot create the same financial incentives and incentives and calculations as primary Germany. But SCDN can be inspired by their strategies and program descripted in the original good practises. Although SDCN does not directly lose funds due to patient absences or geographical health problems, SDCN nevertheless had an interest in optimizing in these areas.
Specific aims	Building new Dashboard, use Risk Stratification on patient absences and having a strategical discussion about how to obtain useful insights from it
What did you do?	
th se Context n P le	This short version of the project's SWOT analysis shows that the working group assesses hat in Denmark we are strong in data and that there is a very large potential in cross- sector collaboration around data. Conversely, GDPR and new data systems present a number of challenges. Precisely for this reason, RND would like to be part of the JADECARE collaboration, to earn from OGPs about how they have met these challenges. Strengths





	RND has a large Data pool, which will be collected in the new NordEPJ
	We have a mutual ambition to use data
	• The staff has a generally high level of competence in relation to data and IT
	(almost) Realtime Data on patients
	Weaknesses
	• DO!!! (it is sometimes difficult to get things done even though data supports new
	initiatives)
	Data across sectors is very difficult
	Lack of quality in registration
	Opportunities
	<ul> <li>Data-driven competence development - adaptative services for patients</li> </ul>
	Cross-sectoral - exchange data and knowledge with other health actors
	Patient empowerment
	Threats
	<ul> <li>Inappropriate breaches of data definitions and data flows associated with new EHR and other new systems</li> </ul>
	<ul> <li>It is difficult to change the habits within the health field</li> </ul>
	• GDPR
	The purpose of the LGP was to build a number of dashboards and work more strategically with data. To achieve this there has actually been a large working team (Next Adopter Working Group, NAWG, as it is named) involved. It consisted of 12 participants with a mixed health professional background. This includes a "Core" NAWG of six experts that has participated more actively in some implementation activities such as theme days and thematic workshops: • Head of Digitalization: Tina Heide - Tah@rn.dk • Strategical innovation consultant: Bente Koch bente.p@rn.dk • Data manager: Søren From Knudsen / vacant (Substitute Ulrik Appel) • Quality manager: Amar Nikontovic a.nikontovic@rn.dk • Project manager: Ulrik Appel u.appel@rn.dk • Ceo Steno: Poul Erik Jakobsen poul.erik.jacobsen@rn.dk <b>1: Building the Dashboard</b>
Intervention(s)	To build the new dashboard, a large number of data reports from the German and Basque
	Good Practices have been collected.
	Their reports are turned into a series of mockups (hand drawings of desired new
	dashboards) in an internal SDCN workshop.
	Next, there was a dialogue with healthcare professionals about these mockups before the
	Business Intelligence unit built the reports for us.
	Subsequently, there have been renewed discussions with health professionals of the
	German and Basque Good Practices and version 2.0 of the reports is already planned.
	Data on patient absences (Risk factors)
	There have been meetings with both Kronikgune and OptiMedis about working more risk-
	based. However, SDCN only focuses on diabetes patients and many risk stratification tools focus on all diseases and risk on another level.
	Therefore, analysis had to be done in a different way. Together with OptiMedis, the focus
	on "absences" and "diabetes" was selected. The final risk analysis was developed together
	with the "Alexandra Institute", who has a number of programs for artificial intelligence.





	The-Alexandra-Institute received data on 2,649 patients and 31,248 post-ambulatory activities. Based on AI calculations, SDCN has received a proposal to work with different groups with different risk profiles. <b>2: Strategical discussion about population approach in RND</b> A network has been set up with participation from: • Department for Regional Development • The Department for International Cooperation • The department for BI and analysis • "The Idea Clinic" • The Department for Quality and the Working Environment • Danish Centre for Health Research • Telecare Nord • Department of Intersectoral Health • "The health profile" • The practice unit (GPs) • Psychiatry • Aalborg University • Institute for Public Health • Institute for Medicine and Health Technology • Centre for general medicine • Aalborg municipality • Frederikshavn Municipality Five meetings have been held with up to 30 participants and between the meetings a Report (50 pages) has been prepared for political processing A political decision is expected to be taken after JADECARE is completed and the				
Study of the Intervention(s)	expectation is that the network will continue.No internal follow-up research has been associated with the project.However, the effects of the project can be seen in the fact that the activities would not				
	have been carried out without JADECARE				
	Activity	KPI	Actual value		
	Dashboard: Mockup	6	6 Mockups maded		
	Dashboard: Prototype meeting	3	3 meeting held		
	Dashboard: Building	6	6 dashboards builded		
	Dashboard: Final dialogue	1	1 Final dialogue meeting held		
	Patient absence: Data Transfer	1	1dataset transfed		
Measures	Patient absence: Report	1	1 Report maded		
	Patient absence: Mockup	1	1 model for stratification maded		
	Population approach: Strategic paper	1	1strategic paper written		
	Population approach: Action plan	1	1 Action plan maded		
	Population approach: Mapping	1	1 mapping maded		
	Population approach: Morning	1	1 discussen about use of data on		
	conference		morning conference held.		
Analysis	Nothing				
What did you find	?				
Results	1: Building the <b>Dashboard</b> We have reached the goal in JADECARE. We are continuously expanding the databa after JADECARE ends.	se with	new data sources and reports - also		









	Finally, the data engineer in the project got a new job and the position had been vacant			
	in the project.			
Conclusions	JADECARE has been very useful for SDCN and is sustainable after the project ends, as datadash is rooted in SDCN's core activities. In addition, there is an opportunity to spread the thinking to other areas, as "diabetes diagnosis code" can relatively easily change to other diagnosis codes However, the data can eventually be expanded with more socio-economic data (income, employment and level of education) and PRO data. Both parts will provide a better approach to population data and risk stratification Finally, future projects can benefit from working with artificial intelligence. The upcoming work in 2023 and 2024 will build on experiences, networks and knowledge gained through JADECARE			
Other information				
Funding	The main funding of the project has been EU funds through JADECARE, which has primarily gone to working hours and conferences Besides that a large number of expenses (for example the Alexandra Institute) have been paid directly by Steno. Steno is financed by Region Nordjylland and the Novo Nordisk Foundation			





# The Eurometropole of Strasbourg, France (EUSTRAS)

# Pre-implementation

# Scope definition

# Identified and prioritized needs

Block		Needs (grouped)		
Block 1	1	Setting up local integrator or alternative		
Shared savings contract	2	Secure investment and develop "business plan"		
with reimbursement/ commissioning organi- zations	3	Create evidence for improved population health and patient well-being through integrated, performant and cost-effective care (preventive and disease management) interventions		
Block 2	4	Identify key stakeholders and define local health eco-system		
A model including	5	Situation analysis and definition of improvement opportunities		
strong stakeholder en- gagement	6	Identify and implement incentive system for stakeholder engagement		
Block 3 Electronic integration across providers	7	Define data integration needs (shared patient files, exchange platforms for chronic disease model, IT requirements), implement national data integration standards		
	8	Implement data sharing tools (depending on national and reginal IT strate- gies in health and their implementation plan)		
Block 4	9	Put in place a patient participation mechanism		
Patient involvement and empowerment	10	Develop patient activation strategy and design interventions		
Block 5	11	Define outcome indicators and KPIs		
Data-driven manage-	12	Identify analytical needs and implement appropriate strategies		
ment	13	Continuously monitor outcomes and impact of interventions		
Block 6 Prevention, health pro-	14	Identify primary prevention and behaviour change priorities with a focus on chronic disease		
motion and public	15	Develop and launch communication activities		
health	16	Identification of disease management priorities and implement integrated patient centred care plans		

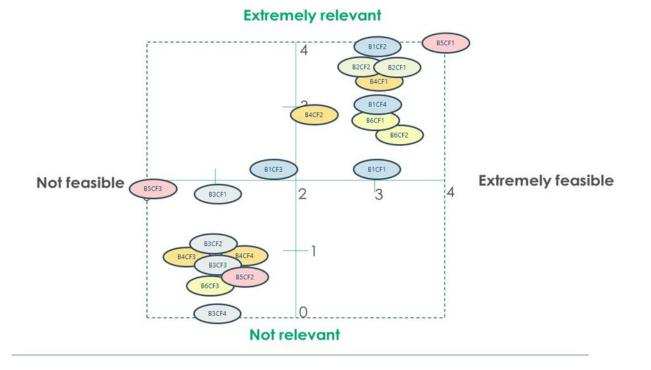
#### **Assessment of Core Features**

Core Feature	Rele- vance	Feasibility		
B1 - Shared savings contract with reimbursement/commissioning organizations				
CF1- identifying current contractual arrangements and assessing possibilities for value-based contracting	2	3		
CF2- defining data standards and appropriate outcome measures	4	3		
CF3- Designing the valued-based payment framework	2	2		
CF4- Constructing the analytical model to execute the contract	3	3		
B2 - A model including strong stakeholder engagement				
CF1- Identifying and liaising with stakeholder groups	4	3		
CF2- Creating appropriate governance structures	4	3		
B3 - Electronic integration across providers				
CF1- Assessing state of current health IT integration and IT tools in use	1	2		
CF2- Market assessment on tools adequate to improve IT connectivity of providers	1	1		





CF3- Training with providers to assess incentives for IT deployment and usa- bility assessment	1	1		
CF4- Patient access to their data (Open Notes approach)	0	1		
B4 - Patient involvement and empowerment				
CF1- Patient advisory boards	4	3		
CF2- Shared-decision making tools and self-management support	3	2		
CF3- Comprehensive health checks and health-related goals	1	1		
CF4- Providing training on incentives and tools to implement patient centered	1	1		
care	-			
B5 - Data-driven management				
CF1- Potential analysis tool	4	4		
CF2- Performance dashboards	1	1		
CF3- FORTA tool to identify over- and underutilization regarding prescriptions	2	0		
B6 – Prevention, health promotion and public health				
CF1- Individual treatment plans and care programs	3	3		
CF2- Care planning based on Chronic care model	3	3		
CF3- Patient coaching	1	1		



# **Final Core Features selected**

Priority	Final Core Features
Data driven manage- ment	B5CF1: Potential analysis tool
Strong stakeholder en- gagement	B2CF1: Identifying and liaising with stakeholder groups B2CF2: Creating appropriate governance structures
Shared savings contract	<ul> <li>B1CF1: Identifying current contractual arrangements and assessing possibilities</li> <li>for value-based contracting</li> <li>B1CF2: Defining data standards and appropriate outcome measures</li> <li>B1CF4: Constructing the analytical model to execute the contract</li> </ul>





Prevention and health promotion	B6CF1: Individual treatment plans and care programs B6CF2: Care planning based on Chronic care model
Patient involvement	B4CF1: Patient advisory boards
and empowerment	B4CF2: Shared-decision making tools and self-management support

# Situation analysis

Strengths		Weakness		
1.	National strategy "Ma Santé 2022"	1. Unbuild field networks		
2.	Local ambitious project managed by	2. Grouped health data access only		
2	EUSTRAS : "Territoires de santé de demain"	3. PoC not based on a local integrator		
3.	Established partnership with the local health insurance agency (CPAM)	4. 3 separated districts selected for the experiment		
4.	Established partnership with the local	5. Human resources		
	health agency (ARS)	6. Local is Strasbourg, and might be far from the ministry		
5.	Establishes partnership with university	ministry		
6.	Competent authority / represent the French ministry of health			
7.				
Opportunities		Threats		
Ор	portunities	Threats		
Ор 1.	portunities Political support	1. More of a political decision on the first place than		
		<ol> <li>More of a political decision on the first place than from the field (top – down)</li> </ol>		
1.	Political support	1. More of a political decision on the first place than		
1. 2.	Political support Large local consortium	<ol> <li>More of a political decision on the first place than from the field (top – down)</li> </ol>		
1. 2. 3.	Political support Large local consortium IT regional platform for health data A community of innovators that could ex-	<ol> <li>More of a political decision on the first place than from the field (top – down)</li> <li>Ability to develop a motivated network on the field</li> <li>Ability to communicate / disseminate on the pro-</li> </ol>		
1. 2. 3. 4.	Political support Large local consortium IT regional platform for health data A community of innovators that could ex- periment their solutions Create a new actor/structure in the local	<ol> <li>More of a political decision on the first place than from the field (top – down)</li> <li>Ability to develop a motivated network on the field</li> <li>Ability to communicate / disseminate on the pro- ject and method</li> <li>Onboard patients from districts with precarity and</li> </ol>		
1. 2. 3. 4. 5.	Political support Large local consortium IT regional platform for health data A community of innovators that could ex- periment their solutions Create a new actor/structure in the local health ecosystem	<ol> <li>More of a political decision on the first place than from the field (top – down)</li> <li>Ability to develop a motivated network on the field</li> <li>Ability to communicate / disseminate on the pro- ject and method</li> <li>Onboard patients from districts with precarity and cultural specificities</li> </ol>		

# **Strategic Intervention Areas**

Strategic intervention area	Priority score (1 to 3)	Ranking
Need to develop strong and motivated networks	3	1
Need to establish an economic model based on health and eco- nomic data	2	2
Strengthening continuity of care between care levels (inter/in- tra level)	2	3





Improvement of coordination, cooperation and data (infor-	1	4
mation) sharing between healthcare and social services		

# Definition of the LGP and LAP

# Local Good Practice

Local Good Practice	Implement population based integrated care in 3 city quarters of Strasbourg
Target population	Setting(s)
3 districts in Strasbourg, N= 46 530 insured persons	Aging populations, an increasing prevalence of chronic diseases, lack of health care staff and rising health care costs are dominant health care problems not only in France. Coordinated and integrated health care delivery systems have been identified in France as a possible solution. The City of Strasbourg started to finance preventive care solutions including sports on prescription some 10 years ago using the instrument of a "local health contract" to fund these activities. These solutions developed well over the years and have covered some 4000 patients until 2022. However, the initiative was not well connected with the coordinated multi-professional health care approaches recommended by the French MoH - such as the urban health houses (MUS: maision urbaine de santé) and territorial multi-professional teams (CPTS: communautés professionales territoriales de santé).
Main aim	

## Main aim

Develop a population based local integrated care system in three districts of Strasbourg based on the Opti-Medis model and the Quadruple AIM to the local specificities of the Strasbourg Community

Outcomes	Local Core Features and their Compo- nents	Inputs
Strong and motivated health services provider networks	Unite the stakeholders and deci- sion makers around a population based local integrated care system	<ul> <li>Coordination Staff</li> <li>Liaise with key players</li> <li>Decision makers</li> <li>Healthcare and social professionals</li> </ul>
	Co-construct the core features for a proof of concept for an inte- grated care system	
Coordination, cooperation, and data (information) sharing between health and medico-social services		<ul> <li>Coordination Staff</li> <li>Liaise with key players</li> <li>Decision makers</li> <li>Healthcare and social professionals</li> </ul>
Strengthening continuity of care between care levels (inter/intra level)	Develop and monitor patient centred health programs at the interface be- tween prevention, ambulatory and hospital care for different risk strata and strengthen patient self-manage- ment	<ul> <li>Experts and patient representatives for case management and patient pathways</li> <li>Hospital experts</li> <li>Health Education specialists</li> <li>Experts in community medicine, mediation, and health coaching</li> <li>Marketing/communication experts (health programs, health information)</li> </ul>





Establish an economic model based on health and economic data	Develop an economic model to sustain population based integrated care by evaluating the efficiency of health care delivery	Experts in health economy, insur- ance medicine, study design and data analysis

# **General description**

Strasbourg has a rich portfolio of initiatives and projects targeting innovations in health care deliver, such as care coordination in multi-professional teams, prevention and physical activity initiatives, medico-social services, and digitisation in health. This is backed-up by national and regional health strategies. The local good practice (LGP) focuses on transforming a disease based professionally dominated care system towards a territorial population-based, people centred health system in an urban environment in three Strasbourg districts. It's main pillars are to build strong stakeholder networks of multi-professional nature including people and patient representation following a continuity of care logic; develop health programs and a continuity of care approach towards better patient health and self-management; data based decision support including patient information sharing across provider networks, performance measurement, analytical tools for outcome and impact assessment; increase efficiency of health care delivery system, avoid unnecessary hospitalisation and duplication of services, and develop an economic model to sustain patient centred integrated health systems. Increased efficiency and the economic model will guarantee the continuation of activities after the end of the JADECARE project cycle.

Local Core Feature 1: In-depth analysis of the existing situation to fully understand the field network

- include the OptiMedis approach in the local strategy (CLS) •
- Validate a CLS action sheet
- list of health professionals in the three selected districts •
- list of adopted physical activity unit partners •
- The sport and health prescription pathway from A to Z (data, information system, patients, doctors, • other health professionals)
- Analysis of the patient base of each MUS and each district (list of routine and preventive activities)
- Identify key partners and barriers •
- map local, regional, national, and international experience and support mechanisms for the planned initiatives

## Local Core Feature 2 Creating the network and developing the elements for a successful proof of concept

- Launching a call for external service provider to lead workshops on the needs of the MUS •
- Launching a human resource hiring for the prevention and care pathway component
- Launching a call for external service provider on IS (shared patient file) and data (access to SNDS • data)

## Local Core Feature 3: Co-construct the core features for a proof of concept for an integrated care system

- identify potential efficiency gaps for the prevention and management of NCDs •
- develop an analytic model to show population-based effects of integrated people centred health • services using the Triple Aims of the Value Based Care (VBC) framework and define indicators

Feature 4: Implement shared patient information system within healthcare and social professionals in the **3 districts** 

- agree on the core characteristics for shared patient information at the urban district level and review currently used systems
- IT integration following national e-health strategy (Ségur numérique, masanté2022) •

Local Core Feature 5: Develop and monitor patient centred health programs at the interface between prevention, ambulatory and hospital care for different risk strata and strengthen patient self-management

- conduct a population segmentation exercise by disease group and identify needs for each population strata
- develop and implement patient pathways and case management systems for specific NCDs





- Strengthen secondary, and tertiary prevention programs for NCDs
- develop communication and marketing strategies to increase patient subscription to preventive • care programs
- develop and implement programs for strengthening patient self-management programs
- integrate and share innovations •

Local Core Feature 6: Develop an economic model to sustain population based integrated care by evaluating the efficiency of health care delivery and re-invest generated savings in patient empowerment and preventive services.

- Identify current funding mechanisms for integrated care and its elements •
- Describe and analyse economic benefits of integrated care within the defined implementation area.
- Develop a business plan for a Strasbourg district based integrated care model •

#### **Local Action Plan**

Local Good Practice	Implement population based integrated care in 3 city quarters of Strasbourg
Target population	Setting(s)
3 districts in Strasbourg, N= 46 530 insured persons	Aging populations, an increasing prevalence of chronic diseases, lack of health care staff and rising health care costs are dominant health care problems not only in France. Coordinated and integrated health care de- livery systems have been identified in France as a possible solution. The City of Strasbourg started to finance preventive care solutions including sports on prescription some 10 years ago using the instrument of a "lo- cal health contract" to fund these activities. These solutions developed well over the years and have covered some 4000 patients until 2022. However, the initiative was not well connected with the coordinated multi-professional health care approaches recommended by the French MoH - such as the urban health houses (MUS: maision urbaine de santé) and territorial multi-professional teams (CPTS: communautés profes- sionnelles territoriales de santé).

#### Main aim

Develop a population based local integrated care system in three districts of Strasbourg based on the Opti-Medis model and the Quadruple AIM to the local specificities of the Strasbourg Community

#### **General description**

Strasbourg has a rich portfolio of initiatives and projects targeting innovations in health care deliver, such as care coordination in multi-professional teams, prevention and physical activity initiatives, medico-social services, and digitisation in health. This is backed-up by national and regional health strategies. The local good practice (LGP) focuses on transforming a disease based professionally dominated care system towards a territorial population-based, people centred health system in an urban environment in three Strasbourg districts. It's main pillars are to build strong stakeholder networks of multi-professional nature including people and patient representation following a continuity of care logic; develop health programs and a continuity of care approach towards better patient health and self-management; data based decision support including patient information sharing across provider networks, performance measurement, analytical tools for outcome and impact assessment; increase efficiency of health care delivery system, avoid unnecessary hospitalisation and duplication of services, and develop an economic model to sustain patient centred





Related oGPs and CFs	OptiMedis all	CFs			
Local Core Feature 1 SMART objective: Full mapping of Activities	work			y understa Timeline	And the field net- Key Perfor- mance Indica- tors
<ul> <li>Include the OptiMedis approach in the local strategy (CLS)</li> <li>Validate a CLS action sheet</li> </ul>	<ul> <li>Institutional</li> <li>Ville de Strasbourg</li> <li>ARS</li> <li>MUS</li> </ul>	staff time • GIP MS • EMS	<ul> <li>Stras- bourg dis- tricts,</li> <li>EUSTRAS</li> </ul>	• Q4 2021	<ul> <li>number of preparatory meetings</li> </ul>
<ul> <li>Validate a CLS action sheet</li> </ul>	<ul> <li>Institutional</li> <li>Ville de Strasbourg</li> <li>ARS</li> </ul>	<ul> <li>expert staff time</li> </ul>	• EUSTRAS	• Q1 2022	<ul> <li>CLS Signa- ture with ar integrated care focus, available (Y/N)</li> </ul>
<ul> <li>List all health professionals in the 3 selected districts</li> </ul>	<ul> <li>Institutional</li> <li>OptiMedis</li> <li>LGP work- ing group</li> </ul>	<ul> <li>expert staff time</li> <li>LGP working group coordi- nation</li> <li>Opti- Medis</li> </ul>	<ul> <li>Selected Stras- bourg dis- tricts</li> </ul>	• Q4 2021	<ul> <li>List, available (Y/N)</li> <li>map, available (Y/N)</li> <li>Analysis of relation-ships</li> </ul>
<ul> <li>List all Adapted physical activity unit partners</li> </ul>	<ul> <li>GIP MS</li> <li>OptiMedis</li> <li>LGP work- ing group</li> </ul>	<ul> <li>expert staff time</li> <li>GIP MS</li> <li>EMS</li> <li>Opti- Medis</li> </ul>	<ul> <li>EUSTRAS</li> <li>Selected Stras- bourg dis- tricts</li> </ul>	• Q4 2021	<ul> <li>List, available (Y/N)</li> <li>map, available (Y/N)</li> </ul>





scr to 2 sys	e sport and health pre- iption pathway from A Z (data, information stem, patients, doctors, her health professionals)	<ul> <li>GIP MS</li> <li>OptiMedis</li> <li>LGP work- ing group</li> <li>existing pro- fessional networks</li> <li>MUS</li> </ul>	•	expert staff time network part- ners LGP working group coordi- nation OptI- Medis	•	EUSTRAS Selected Stras- bourg dis- tricts	•	Q4 2021	•	Summary document of the jour- ney, availa- ble (Y/N) recommen- dations on gaps/needs, available (Y/N)
tab eac	alysis of the patient da- base of each MUS and ch district (list of routine d preventive activities)	<ul> <li>network partners</li> <li>OptIMedis</li> <li>LGP work- ing group</li> </ul>	•	expert staff time LGP working group coordi- nation OptI- Medis	•	Stras- bourg dis- tricts	•	Q1 2022	•	Synthesis reports , available (Y/N) recommen- dations on gaps/needs, available (Y/N)
	entify key partners and rriers	<ul> <li>network partners</li> <li>OptIMedis</li> <li>LGP work- ing group</li> </ul>	•	expert staff time LGP working group coordi- nation Opti- Medis	•	EUSTRAS Selected Stras- bourg dis- tricts	•	Q1 2022	•	List of con- vinced adopters , available (Y/N) List of chal- lenges, available (Y/N) recommen- dations on gaps/needs, available (Y/N)
tio exp me	ap local, regional, na- nal, and international perience and support echanisms for the inned initiatives	<ul> <li>network partners</li> <li>OptiMedis</li> </ul>	•	Expert staff time Opti- Medis	•	Stras- bourg dis- tricts	•	Q1 2022	•	Synthesis report, available (Y/N) recommen- dations on





	LGP work- ing group				gaps/needs, available (Y/N)
Activities	Actors	Resources	Setting(s)	Timeline	KPIs

Local Core Feature 2	Creating the network and developing the elements for a successful proof of
	concept

**SMART objective:** Developing the resources needed to run the network

Activities	Actors	Resources	Setting(s)	Timeline	Key Perfor- mance Indica- tors
<ul> <li>Launching a call for ex- ternal service provider to lead workshops on the needs of the MUS/dis- tricts/healthcare profes- sionals</li> </ul>	<ul> <li>Opti- Medis</li> <li>EUSTRAS</li> </ul>	• EMS	<ul> <li>regional</li> <li>Stras- bourg city</li> </ul>	• Q4 2021	<ul> <li>Number of applica- tions,</li> <li>provider selected (Y/N)</li> </ul>
<ul> <li>Launching a human re- source hiring for the prevention and care pathway component</li> </ul>	<ul> <li>Opti- Medis</li> <li>EUSTRAS</li> </ul>	<ul> <li>Ville de Strasbourg / EMS</li> </ul>	<ul> <li>Stras- bourg</li> </ul>	Q4 2021	<ul> <li>new re- source, available (Y/N)</li> </ul>
<ul> <li>Launching a call for ex- ternal service provider on IS (shared patient file) and data (access to SNDS data)</li> </ul>	<ul> <li>Opti- Medis</li> <li>EUSTRAS</li> <li>Image: Option of the second seco</li></ul>	• EMS	• Stras- bourg	Q4 2021	<ul> <li>Number of applica- tions provider selected (Y/N)</li> </ul>

Priorities 3 to 6 are conditional on the achievement of priorities 1 and 2. They will be clarified/reformulated if/when priorities 1 and 2 are achieved.

Local Core Feature	e 3 Co-constru tem	ct the core features	s for a proof of co	oncept for a	an integrated care sys-
SMART objective:	Define prototypes of	of key pillars of the i	integrated care c	oncept at c	listrict level
Activities	Actors	Resources	Setting(s)	Timeline	Key Performance In- dicators
<ul> <li>identify po- tential effi- ciency gaps for the pre- vention and</li> </ul>	<ul> <li>health professionals,</li> <li>medico-social care experts</li> <li>patient representatives</li> </ul>	<ul> <li>various re- ports of ex- isting stud- ies</li> <li>expert staff time</li> </ul>	<ul> <li>regional</li> <li>Stras- bourg city</li> <li>Stras- bourg dis- tricts</li> </ul>	• Q2 2022	<ul> <li>List of areas for improvement, available (Y/N)</li> <li>recommenda- tions on</li> </ul>





management of 1 or 2 chronic dis- ease	<ul><li>Sport-Santé</li><li>OptiMedis</li><li>EUSTRAS</li></ul>	<ul> <li>LGP working group coor- dination</li> </ul>			gaps/needs, available (Y/N)
<ul> <li>Develop an analytic model to show popula- tion-based ef- fects of inte- grated people centred health ser- vices using the Triple Aims of the Value Based Care (VBC) framework and define in- dicators</li> </ul>	<ul> <li>health analysts</li> <li>health professionals</li> <li>epidemiologists and survey staff</li> <li>CPAM and ARS</li> <li>Sport-Santé</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	time <ul> <li>agreements</li> <li>for utilisa-</li> <li>tion of</li> <li>health data</li> </ul>	• Stras- bourg	Q4 2022	<ul> <li>concept paper and/or analytic model, available (Y/N)</li> </ul>

Local Core Feature 4	Support the implementation of a shared patient information system among
	healthcare professionals in the 3 districts

SMART objective: Patient data is shared with all actors participating in patient care pathways

Activities	Actors	Resources	Setting(s)	Timeline	Key Performance In- dicators
<ul> <li>agree on the core charac- teristics for shared pa- tient infor- mation at the district level and review currently used systems</li> </ul>	<ul> <li>Health pro- fessionals</li> <li>CPTS, MUS staff</li> <li>other TSD projects</li> <li>actors na- tional e- health strat- egy</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	<ul> <li>expert staff time</li> <li>LGP work- ing group coordina- tion</li> </ul>	<ul> <li>Strasbourg</li> <li>Grand-Est region</li> </ul>	• Q1 2022	<ul> <li>Agreed list of fea- tures for district patient infor- mation, available (Y/N)</li> </ul>
<ul> <li>IT integration following na- tional e- health strat- egy (ségur numérique, ma santé2022)</li> </ul>	<ul> <li>TSD projects</li> <li>CPTS, MUS</li> <li>Pulsy</li> <li>IT experts</li> <li>health professionals</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	<ul> <li>expert staff time</li> <li>LGP work- ing group coordina- tion</li> <li>Service pro- vider</li> </ul>	<ul> <li>Strasbourg districts</li> </ul>	Q4 2022	<ul> <li>List of remaining gaps , available (Y/N)</li> <li>recommenda- tions on gaps/needs, available (Y/N)</li> </ul>





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# **Local Core Feature 5**

Develop and monitor patient centred health programs at the interface between prevention, outpatient and Inpatient care for different risk strata and strengthen patient self-management

SMART objective: At least xx patients (to be defined) are recruited in patient programs and apply patient self-management

Activities	Actors	Resources	Setting(s)	Timeline	Key Performance In- dicators
<ul> <li>conduct a population segmenta- tion exer- cise by dis- ease group and iden- tify needs for each population strata for 1 or 2 chronic dis- ease</li> </ul>	<ul> <li>health professionals</li> <li>hospital based NCD experts,</li> <li>district network participants</li> <li>representatives of successful pilot projects (FHF?)</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	<ul> <li>expert staff time</li> <li>LGP working group coordination</li> <li>Service provider</li> <li>OptiMedis</li> <li>national and international examples of respective tools</li> </ul>	<ul> <li>Strasbourg districts</li> <li>Strasbourg hospitals</li> </ul>	• Q1 2022	<ul> <li>risk strata for at least 2 disease groups, available (Y/N)</li> </ul>
develop and implement pa- tient pathways and case man- agement sys- tems for 1 or 2 chronic dis- eases	health profession- als hospital based NCD experts, district network participants OptiMedis EUSTRAS	expert staff time	Strasbourg ARS Grand-Est	• Q2 2022	<ul> <li>Patient pathways and patient pro- grams for at least 2 disease groups, available (Y/N)</li> </ul>
Strengthen secondary, and tertiary pre- vention pro- grams for 1 or 2 chronic dis- ease	health profession- als hospital based NCD experts, district network participants GIP-MS and Associ- ations patient reps mediators/coaches OptiMedis EUSTRAS	expert staff time LGP working group coordination Service provider OptiMedis	Strasbourg city Strasbourg districts	• Q3 2022	<ul> <li>prevention actions for each patient program, available (Y/N)</li> </ul>





develop com- munication and marketing strategies to increase pa- tient subscrip- tion to preven- tive care pro- grams	marketing experts district network participants GIP-MS Health service OptiMedis EUSTRAS	communication experts communication platform LGP working group coordination Service provider OptiMedis	Strasbourg districts	•	Q4 2022	<ul> <li>communication material, available (Y/N)</li> </ul>
develop and implement programs for strengthening patient self- management programs	health education specialists, district network participants Patient reps OptiMedis EUSTRAS	health education courses health media- tors/coaches pro- gram LGP working group coordination Service provider OptiMedis	Strasbourg districts	•	Q4 2022	<ul> <li>training course and coaching program for pa- tient self-man- agement, availa- ble (Y/N)</li> </ul>
integrate and share innova- tions	district network participants OptiMedis EUSTRAS	funds expert time LGP working group coordination OptiMedis	Strasbourg	•	Q4 2022	<ul> <li>At least two meetings/confer- ences organised to share Stras- bourg Integrated Care experience (Y/N)</li> </ul>

Develop an economic model to sustain population based integrated care by **Local Core Feature 6** evaluating the efficiency of health care delivery and re-invest generated savings in patient empowerment and preventive services.

SMART objective: A business model for a district based integrated care program

Activities	Actors	Resources	Setting(s)	Timeline	Key Perfor- mance Indica- tors
<ul> <li>Identify current funding mecha- nisms for inte- grated care and its elements</li> </ul>	<ul> <li>Health pro- fessionals,</li> <li>EMS Stras- bourg</li> <li>CPAM</li> <li>ARS</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	<ul> <li>Expert staff time</li> <li>LGP working group coor- dination</li> <li>OptiMedis</li> </ul>	<ul> <li>district</li> <li>city</li> <li>Region Grand Est</li> <li>National</li> </ul>	• Q1 2022	<ul> <li>List of support initiatives and funding sources, available (Y/N)</li> </ul>





<ul> <li>Describe and analyse eco- nomic benefits of integrated care within the defined imple- mentation area.</li> </ul>	<ul> <li>CPAM, ARS</li> <li>Sport Santé</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	<ul> <li>Expert staff time</li> <li>previous reports and studies</li> <li>LGP working group coor- dination</li> <li>OptiMedis</li> </ul>	Strasbourg	Q4 2022	<ul> <li>Report available (Y/N)</li> <li>report pub- lished (Y/N)</li> </ul>
<ul> <li>Develop a busi- ness plan for a Strasbourg dis- trict based inte- grated care model</li> </ul>	<ul> <li>district net- work partici- pants</li> <li>CPAM</li> <li>OptiMedis EUSTRAS</li> </ul>	<ul> <li>Expert staff time</li> <li>LGP working group coor- dination</li> <li>OptiMedis</li> </ul>	Strasbourg	• Q4 2022	<ul> <li>business plan for dis- trict/Stras- bourg inte- grated care unit, availa- ble (Y/N)</li> </ul>



## Implementation

## 1st PDSA Cycle

### Plan

LCF1	In-dept	In-depth analysis of the existing situation to fully understand the field network							
				KPIs MEASURE					
Activities (from the LAP)	Ac- tions	Actors	Timeline	KPIs (from the LAP)	Who will col- lect the data?	When will the data be collected?	How will the data be col- lected?	Target value	
Include the OptiMedis ap- proach in the local strategy (CLS)	• Ac- tion 1	<ul> <li>Institutional</li> <li>Ville de Stras- bourg</li> <li>ARS</li> <li>MUS</li> </ul>	• Q4 2021	number of preparatory meetings	• EUSTRAS	• monthly	<ul> <li>meeting minutes]</li> </ul>	• 5.	
Validate a CLS action sheet	•	<ul> <li>Institutional</li> <li>Ville de Stras- bourg</li> <li>ARS</li> </ul>	• Q1 2022	CLS Signature with an integrated care focus, available (Y/N)	• EUSTRAS	• Q2	<ul> <li>signed document</li> </ul>	• 1	
List all health professionals in the 3 selected districts	•	<ul> <li>Institutional</li> <li>OptiMedis</li> <li>LGP working group</li> </ul>	• Q4 2021	List, available (Y/N) Map available (Y/N) Analysis of relation- ships	• GIP	• Q1	• list	• 1	
List all Adapted physical ac- tivity unit partners	• []	<ul> <li>GIP MS</li> <li>OptiMedis</li> <li>LGP working group</li> </ul>	• Q4 2021	List, available (Y/N) map, available (Y/N)	• GIP	• Q2	• list	• 1	







Activities (from the LAP)		Actors	Timeline		KPIs	MEASURE		
LCF2	Creatin	g the network and deve	eloping the el	ements for a successful pro	oof of concept			
map local, regional, na- tional, and international ex- perience and support mechanisms for the planned initiatives	•	<ul> <li>network partners</li> <li>OptiMedis</li> <li>LGP working group</li> </ul>	• Q1 2022	Synthesis report, avail- able (Y/N) recommendations on gaps/needs, available (Y/N)	• GIP, OM	• Q2	• report	continuous
Identify key partners and barriers	• []	<ul> <li>network partners</li> <li>OptIMedis</li> <li>LGP working group</li> </ul>	• Q1 2022	List of convinced adopters available (Y/N) List of challenges, available (Y/N) recommendations on gaps/needs, available (Y/N)	• EUSTRAS, OM, GIP	• Q2	<ul> <li>lists, rec- ommen- dations</li> </ul>	• []
Analysis of the patient da- tabase of each MUS and each district (list of routine and preventive activities)	•	<ul> <li>network partners</li> <li>OptIMedis</li> <li>LGP working group</li> </ul>	• Q1 2022	Synthesis reports , available (Y/N) recommendations on gaps/needs, available (Y/N)	• GIP, OM, EUSTRAS	• Q2	<ul> <li>report, presenta- tion</li> </ul>	• 1
The sport and health pre- scription pathway from A to Z (data, information sys- tem, patients, doctors, other health professionals)	•	<ul> <li>GIP MS</li> <li>OptiMedis</li> <li>LGP working group</li> <li>existing profes- sional networks</li> <li>MUS</li> </ul>	• Q4 2021	Summary document of the journey, available (Y/N) recommendations on gaps/needs, available (Y/N)	• GIP, OM	• Q2	• report	• 1





	Ac- tions			KPIs (from the LAP)	Who will col- lect the data?	When will the data be collected?	How will the data be col- lected?	Target value
Launching a call for external service provider to lead workshops on the needs of the MUS/districts/ healthcare professionals	• Ac- tion 1	<ul> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q4 2021	Number of applica- tions; provider se- lected (Y/N)	• EUSTRAS • GIP	• Q2	• contract	• 1
Launching a human re- source hiring for the pre- vention and care pathway component	• []	<ul><li> OptiMedis</li><li> EUSTRAS</li></ul>	• Q4 2021	new resource, availa- ble (Y/N)	EUSTRAS     GIP	• Q2	<ul> <li>job de- scription</li> <li>job ad</li> </ul>	• 1
Launching a call for external service provider on IS (shared patient file) and data (access to SNDS data)	• []	<ul> <li>OptiMedis</li> <li>EUSTRAS</li> <li></li> </ul>	• Q4 2021	Number of applica- tions; provider se- lected (Y/N)	EUSTRAS     OM	• []	• []	• []
	Prioriti are ach		al on the achie	evement of priorities 1 ar	nd 2. They will be c	larified/reformu	llated if/when pri	orities 1 and 2
LCF3	Co-cons	Co-construct the core features for a proof of concept for an integrated care system						
Activities (from the LAP)		Actors	Timeline     KPIs MEASURE					





	Ac- tions			KPIs (from the LAP)	Who will col- lect the data?	When will the data be collected?	How will the data be col- lected?	Target value
identify potential efficiency gaps for the prevention and management of 1 or 2 chronic disease	• Ac- tion 1	<ul> <li>health professionals,</li> <li>medico-social care experts</li> <li>patient representatives</li> <li>Sport-Santé</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q2 2022	List of areas for im- provement, available (Y/N), recommenda- tions on gaps/needs, available (Y/N)	<ul><li>EUSTRAS</li><li>GIP</li><li>OM</li></ul>	• Q2	• data analy- sis GIP, CPAM, ARS	• report
Develop an analytic model to show population-based effects of integrated people centred health services us- ing the Triple Aims of the Value Based Care (VBC) framework and define indi- cators	• []	<ul> <li>health analysts</li> <li>health profes- sionals</li> <li>epidemiologists and survey staff</li> <li>CPAM and ARS</li> <li>Sport-Santé</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q4 2022	concept paper and/or analytic model, availa- ble (Y/N)	<ul> <li>EUSTRAS</li> <li>GIP</li> <li>CPAM</li> <li>OM</li> </ul>	• Q4	<ul> <li>data anal- ysis GIP, CPAM, ARS</li> </ul>	<ul> <li>report_con- ference presenta- tion</li> </ul>
LCF4	Support	t the implementation of	a shared pat	ient information system ar	mong healthcare p	rofessionals in th	e 3 districts	
Activities (from the LAP)	Ac- tions	Actors	Timeline	KPIs (from the LAP)	Who will col- lect the data?	When will the data be collected?	How will the data be col- lected?	Target value





agree on the core charac- teristics for shared patient information at the district level and review currently used systems	• Ac- tion 1	<ul> <li>Health professionals</li> <li>CPTS, MUS staff</li> <li>other TSD projects</li> <li>actors national e-health strategy</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q1 2022	Agreed list of features for district patient in- formation, available (Y/N)	• EUSTRAS • GIP	• Q1	<ul> <li>review ex- isting sys- tems</li> </ul>	• report
IT integration following na- tional e-health strategy (ségur numérique, ma santé2022)	• []	<ul> <li>TSD projects</li> <li>CPTS, MUS</li> <li>Pulsy</li> <li>IT experts</li> <li>health professionals</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q4 2022	List of remaining gaps, available (Y/N),recom- mendations on gaps/needs, available (Y/N)	<ul><li>GIP</li><li>CPTS</li><li>OM</li></ul>	• Q4	<ul> <li>list of applied tools</li> </ul>	• list
LCF5	De	velop and monitor patie	nt centred he	ealth programs at the interf	face between preve	ention, outpatier	nt and Inpatient car	e for different
	risk	strata and strengthen	patient self-m	nanagement				
Activities (from the LAP)	Ac- tions	Actors	Timeline	KPIs (from the LAP)	Who will col- lect the data?	When will the data be collected?	How will the data be col- lected?	Target value





conduct a population seg- mentation exercise by dis- ease group and identify needs for each population strata for 1 or 2 chronic dis- eases	• Ac- tion 1	<ul> <li>health professionals</li> <li>hospital based NCD experts,</li> <li>district network participants</li> <li>representatives of successful pilot projects (FHF?)</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q1 2022	risk strata for at least 2 disease groups, availa- ble (Y/N)	<ul> <li>GIP</li> <li>OM</li> <li>hospital bases NCD experts</li> </ul>	• Q1	<ul> <li>health pathway structure</li> </ul>	• 2
develop and implement pa- tient pathways and case management systems for 1 or 2 chronic diseases	• []	<ul> <li>health professionals</li> <li>hospital based NCD experts,</li> <li>district network participants</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q2 2022	Patient pathways and patient programs for at least 2 disease groups, available (Y/N)	<ul> <li>GIP</li> <li>OM</li> <li>hospital bases NCD experts</li> </ul>	• Q2	• sample health pathways	• 2
Strengthen secondary, and tertiary prevention pro- grams for 1 or 2 chronic dis- eases	• []	<ul> <li>health professionals</li> <li>hospital based NCD experts,</li> <li>district network participants</li> <li>GIP-MS and Associations</li> <li>patient reps</li> <li>mediators/coaches</li> <li>OptiMedis</li> </ul>	• Q3 2022	prevention actions for each patient program, available (Y/N)	<ul> <li>GIP</li> <li>CPTS</li> <li>CHU</li> <li>QM</li> </ul>	• Q3	<ul> <li>list of pre- vention programs</li> </ul>	• 3





		• EUSTRAS						
develop communication and marketing strategies to increase patient subscrip- tion to preventive care pro- grams	•	<ul> <li>marketing experts</li> <li>district network participants</li> <li>GIP-MS</li> <li>Health service</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q4 2022	communication material, available (Y/N)	• GIP	• Q4	<ul> <li>list availa- ble mate- rial and actions</li> </ul>	• 2
develop and implement programs for strengthening patient self-management programs	•	<ul> <li>health educa- tion specialists,</li> <li>district network participants</li> <li>Patient reps</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q4 2022	training course and coaching program for patient self-manage- ment, available (Y/N)	<ul> <li>GIP</li> <li>CPTS</li> <li>CHU</li> <li>UGECAM</li> </ul>	• Q4	<ul> <li>list of training courses</li> <li>list of par- ticipants</li> </ul>	• 2
integrate and share innova- tions	•	<ul> <li>district network participants</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q4 2022	At least two meet- ings/conferences or- ganised to share Stras- bourg Integrated Care experience (Y/N)	<ul><li>GIP</li><li>CPAM</li><li>OM</li></ul>	• Q4	<ul> <li>confer- ence par- ticipa- tions</li> </ul>	• 2
LCF6		•		population based integrat owerment and preventive	•	ing the efficienc	cy of health care c	lelivery and re-
Activities (from the LAP)	Ac- tions	Actors	Timeline	KPIs (from the LAP)	Who will col- lect the data?	When will the data be collected?	How will the data be col- lected?	Target value





Identify current funding mechanisms for integrated care and its elements	• Ac- tion 1	<ul> <li>Health professionals,</li> <li>EMS Strasbourg</li> <li>CPAM</li> <li>ARS</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q1 2022	List of support initia- tives and funding sources, available (Y/N)	<ul> <li>EUSTRAS</li> <li>OM</li> <li>CHU</li> <li>GIP</li> </ul>	• Q1	• meeting minutes	• list
Describe and analyse eco- nomic benefits of inte- grated care within the de- fined implementation area.	• []	<ul> <li>CPAM, ARS</li> <li>Sport Santé</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q4 2022	Report available (Y/N),report published (Y/N)	<ul> <li>CPAM</li> <li>GIP</li> <li>EUSTRAS</li> <li>OM</li> </ul>	• Q4	<ul> <li>study on</li> <li>GIP and</li> <li>CPAM</li> <li>data</li> </ul>	<ul> <li>presenta- tion</li> </ul>
Develop a business plan for a Strasbourg district based integrated care model	• []	<ul> <li>district network participants</li> <li>CPAM</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q4 2022	business plan for dis- trict/Strasbourg inte- grated care unit, avail- able (Y/N)	<ul><li>OM</li><li>EUSTRAS</li><li>GIP</li></ul>	• Q4	• report	• 1

### Do

Local Action Plan: Implement oGP population based integrated care in 3 city quarters 1							
LCF1	n-depth analysis of the existing situation to fully understand the field network						
Activity	КРІ	Target value	Actual value				
Include the OptiMedis approach in the local strat- egy (CLS)	number of preparatory meetings	5	5				
Validate a CLS action sheet	CLS Signature with an integrated care focus, available (Y/N)	availa- ble	Not available				





List all health professionals in the 3 selected dis- tricts	List, available (Y/N); Map available (Y/N); Analysis of relationships	avaiable	Available for doctors
List all Adapted physical activity unit partners	List, available (Y/N); map, available (Y/N)	availa- ble	Available
The sport and health prescription pathway from A to Z (data, information system, patients, doctors, other health professionals)	Summary document of the journey, available (Y/N); recommendations on gaps/needs, available (Y/N)	2 path- ways	Partly available, the relationship between Dr's prescriptions and patient inscription into physical activity programs is unknown
Analysis of the patient database of each MUS and each district (list of routine and preventive activities)	Synthesis reports, available (Y/N); recommendations on gaps/needs, available (Y/N)	availa- ble	Not available – collaboration with Dr's offices limited
Identify key partners and barriers	List of convinced adopters available (Y/N); List of challenges, available (Y/N); recommendations on gaps/needs, available (Y/N)	availa- ble	Available for GIP MSS, not for Dr's offices
map local, regional, national, and international experience and support mechanisms for the planned initiatives	Synthesis report, available (Y/N); recommendations on gaps/needs, available (Y/N)	ongoing	Ongoing

LCF2	Creating the network and developing the elements for a succe	essful proof of	concept
Activity	KPI	Target Value	Actual value
Launching a call for external service provider to lead workshops on the needs of the MUS/districts/ healthcare professionals	<ul><li>Number of applications,</li><li>provider selected (Y/N)</li></ul>	available	Not available, CLS not yet signed
Launching a human resource hiring for the preven- tion and care pathway component	new resource, available (Y/N)	available	Not available, CLS not yet signed
Launching a call for external service provider on IS (shared patient file) and data (access to SNDS data)	Number of applications provider selected (Y/N)	Available	Not available, CLS not yet signed

LCF3 Co-construct the core features for a proof of concept for an integrated care system





Activity	КРІ	Target value	Actual value		
identify potential efficiency gaps for the prevention and management of 1 or 2 chronic disease	<ul> <li>List of areas for improvement, available (Y/N)</li> <li>recommendations on gaps/needs, available (Y/N)</li> </ul>	available	Available for GIP MSS, collaboration with MUS and district physicians lim- ited		
Develop an analytic model to show population- based effects of integrated people centred health services using the Triple Aims of the Value Based Care (VBC) framework and define indicators	concept paper and/or analytic model, available (Y/N)	available	analysis of SSSO and health care con- sumption data, presentation at ICIC 2022, work continues		
LCF4	Support the implementation of a shared patient information system among healthcare professionals in the 3 tricts				
Activity	КРІ	Target Value	Actual value		
agree on the core characteristics for shared patient information at the district level and review cur- rently used systems	<ul> <li>Agreed list of features for district patient infor- mation, available (Y/N)</li> </ul>	available	Improved dababase for SSSO but lack of integration with Dr's offices		
IT integration following national e-health strategy (ségur numérique, ma santé2022)	<ul> <li>List of remaining gaps, available (Y/N)</li> <li>recommendations on gaps/needs, available (Y/N)</li> </ul>	Available	Incomple		

LCF5	Develop and monitor patient centred health programs at the interface between prevention, outpatient and Inpa- tient care for different risk strata and strengthen patient self-management					
Activity	КРІ	Target Value	Actual value			
conduct a population segmentation exercise by dis- ease group and identify needs for each population strata for 1 or 2 chronic diseases	<ul> <li>risk strata for at least 2 disease groups, available (Y/N)</li> </ul>	available	Not started – planned as part of the discussion on patient pathways, pri- oritised disease groups: Diabetes and heart failure			





develop and implement patient pathways and case management systems for 1 or 2 chronic diseases	Patient pathways and patient programs for at least 2 disease groups, available (Y/N)	available	Partially, meetings with CPAM but no active working group, work on pa- tient pathways planned for Q3, Case management unlikely
Strengthen secondary, and tertiary prevention pro- grams for 1 or 2 chronic diseases	prevention actions for each patient program, available (Y/N)	available	available
develop communication and marketing strategies to increase patient subscription to preventive care programs	communication material, available (Y/N)	available	GIP MSS website development on- going,
develop and implement programs for strengthen- ing patient self-management programs	training course and coaching program for patient self-man- agement, available (Y/N)	available	not started yet, possibly collabora- tion with UGECAM
integrate and share innovations	At least two meetings/ conferences organised to share Strasbourg Integrated Care experience (Y/N)	Available	ICIC 22, Asssise Sport Santé, ICIC 23 planned

LCF6	Develop an economic model to sustain population based integrated care by evaluating the efficiency of health care delivery and re-invest generated savings in patient empowerment and preventive services.					
Activity	КРІ	Target value	Actual value			
Identify current funding mechanisms for integrated care and its elements	<ul> <li>List of support initiatives and funding sources, available (Y/N)</li> </ul>	available	completed			
Describe and analyse economic benefits of inte- grated care within the defined implementation area.	Report available (Y/N) report published (Y/N)	Available	Study on effects of SSSO on health care consumption done, to be con- tinued			
Develop a business plan for a Strasbourg district based integrated care model	business plan for district/Strasbourg integrated care unit, available (Y/N)	Available	Not started			





QUESTIONS	ANSWERS
What was actually implemented? Any deviation from the planned actions	Network development is mostly limited to preventive care, the ARS and the insurer CPAM. All LCFs related to these groups are mostly im- plemented. The inclusion of health professionals particularly for am- bulatory care remains difficult, probably due to missing incentive sys- tems. LCF 1; LCF 3, LCF 5 and LCF 6 are on target. LCF 2 Is delayed due to delays in signing the CLS and LCF4 is unlikely to be implemented in time due to the current lack of collaboration with medical practices
Problems? Unexpected findings? Please describe	Integrating project content into the Strasbourg 5 year health plan was delayed so that additional funding for project operations is not yet available, Collaboration with medical staff and group practices was more difficult than expected. A fruitful collaboration was established however, between GIP MSS and CPAM, the new constitution of a multi-professional health network in Strasbourg might be an oppor- tunity

IMPLEMENTATION PROGRESS OF THE LOCAL GOOD PRACTICE						
0-25%	25-50%	50-75% 75-100%				
		Х				

### Study

Cycle number (1or 2)		1							
LCF1		In-depth analysis of the existing situation to fully understan field network			ng situation to fully understand the				
Activity	КРІ	Target value (from PLAN)	Actual value (from DO)	Reasons for the de- viations	Mitigation actions im- plemented	Impact of mitigation actions			
Include the Op- tiMedis ap- proach in the local strategy (CLS)	number of prepar- atory meetings	5	5	No devia- tion					
Validate a CLS action sheet	CLS Signature with an integrated care focus, available (Y/N)	1	Not available	Delay in signature	Focus on ac- tivities, which do not need addi- tional fund- ing	Advance- ment of cer- tain topics compared to others, which need additional funding			





List all health professionals in the 3 selected districts	List, available (Y/N); Map availa- ble (Y/N); Analysis of relationships	1	Partly availa- ble	Focus on Drs and preventive care, mobi- lisation of district re- sources de- layed	none	General fo- cus on de- veloping the SSSO ap- proach and complemen- tary services
List all Adapted physical activity unit partners	List, available (Y/N); map, availa- ble (Y/N)	1	Available	No devia- tion		
The sport and health prescrip- tion pathway from A to Z (data, infor- mation system, patients, doc- tors, other health profes- sionals)	Summary docu- ment of the jour- ney, available (Y/N); recommen- dations on gaps/needs, avail- able (Y/N)	1	Partly availa- ble, the rela- tionship be- tween Dr's prescriptions and patient inscription into physical activity pro- grams is un- known	Delay in mobilising physicians to work on patient pathways	Move to Q3 and Q4, pre- ventive care was intro- duced into the CPTS Strasbourg Ville pro- gram	Overall delay to develop stronger linkages be- tween care and SSSO
Analysis of the patient data- base of each MUS and each district (list of routine and preventive ac- tivities)	Synthesis reports, available (Y/N); recommendations on gaps/needs, available (Y/N)	1	Not available – collabora- tion with Dr's offices limited	No interest physician teams - abandoned	Focus on CPAM data for the Stras- bourg city quarters se- lected	Fruitful col- laboration between GIP MSS and CPAM
Identify key partners and barriers	List of convinced adopters available (Y/N); List of chal- lenges, available (Y/N); recommen- dations on gaps/needs, avail- able (Y/N)	1	Available for GIP MSS, not for Dr's of- fices	Low inter- est of Drs in ambula- tory care	Focus on fur- ther devel- oping pre- ventive care	Analyses of GIP MSS programs with recom- mendations done
map local, re- gional, na- tional, and in- ternational ex- perience and support mecha- nisms for the planned initia- tives	Synthesis report, available (Y/N); recommendations on gaps/needs, available (Y/N)	ongo- ing	ongoing	No devia- tion		

LCF2 Creating the network and developing the elements for a successful proof of concept





Activity	КРІ	Target value (from PLAN)	Actual value (from DO)	Reasons for the devia- tions	Mitigation actions im- plemented	Impact of mitigation actions
Launching a call for external service provider to lead workshops on the needs of the MUS/districts/ healthcare professionals	Number of applications; provider se- lected (Y/N)	1	Not avail- able, CLS not yet signed	Delay signing CLS	none	Delay or cancel activ- ities needing additional funds
Launching a human resource hiring for the prevention and care pathway compo- nent	new re- source, avail- able (Y/N)	1	Not avail- able, CLS not yet signed	Delay signing CLS	none	Delay or cancel activ- ities needing additional funds
Launching a call for external service provider on IS (shared patient file) and data (access to SNDS data)	Number of applications; provider se- lected (Y/N)	1	Not avail- able, CLS not yet signed	Delay signing CLS	none	Delay or cancel activ- ities needing additional funds

		Co-const system	o-construct the core features for a proof of concept for an integrated care ystem					
Activity	КРІ		Target value (from PLAN)	Actual value (from DO)	Reasons for the devia- tions	Mitiga- tion ac- tions im- ple- mented	Impact of miti- gation actions	
identify potential efficiency gaps for the prevention and management of 1 or 2 chronic disease	List of ar improve available recomm tions on gaps/nee available	ment, e (Y/N), enda- eds,	report	Available for GIP MSS, col- laboration with MUS and dis- trict physicians limited	Difficul- ties work- ing with ambula- tory care phyisci- ans	Focus on preven- tive care activities, Promot- ing CPTS programs	Positive develop- ment in further develop- ing pre- ventive care	
Develop an analytic model to show population-based effects of inte- grated people cen- tred health services using the Triple Aims of the Value Based Care (VBC) framework and de- fine indicators	concept and/or a model, a (Y/N)	nalytic	re- port,con- ference presenta- tion	Planned for Q4 22, partially completed through analy- sis of SSSO and health care consumption data, presenta- tion at ICIC 2022	Imple- menta- tion ad- vanced	none	none	





LCF4		Support the implementation of a shared patient information system among healthcare professionals in the 3 districts					
Activity	КРІ		Target value (from PLAN)	Actual value (from DO)	Reasons for the de- viations	Mitiga- tion ac- tions im- ple- mented	Impact of mitigation ac- tions
agree on the core characteristics for shared patient in- formation at the district level and review currently used systems	Agreed lis tures for patient in mation, a (Y/N)	district Ifor-	report	Partially done on the basis of SSSO Infor- mation, but lack of collab- oration with Dr's offices	e-health strategies insuffi- ciently im- ple- mented	none	Activity can- celled for PDSA 2
IT integration fol- lowing national e- health strategy (ségur numérique, ma santé2022)	List of rer gaps, ava (Y/N),rec dations o gaps/nee able (Y/N	ilable ommen- n ds, avail-	list	Target Q4 but unlikely to be completed	e-health strategies insuffi- ciently im- ple- mented	Commu- nication and par- ticipation in	Activity can- celled for PDSA 2, possi- ble use of "mon espace santé" for documenting GIP MSS re- sults

LCF5		Develop and monitor patient centred health programs at the interface be- tween prevention, outpatient and Inpatient care for different risk strata and strengthen patient self-management						
Activity	КРІ	Tar- get valu (fro PLA	(from DO) e m		Mitiga- tion ac- tions im- ple- mented	Impact of mitiga- tion actions		
conduct a pop- ulation segmen- tation exercise by disease group and iden- tify needs for each popula- tion strata for 1 or 2 chronic dis- eases	risk strata least 2 dis groups, av (Y/N)	ease	Not starte planned a part of the discussion patient pa ways, prio tised disea groups: Di tes and he failure	s velop- e ment of on patient ith- pathways ori- is de- ase layed abe-	None	Different types of preventive care interventions based on patient ability will be im- plemented in next version of Pre- scri'mouv. The re- lationship with clinical classifica- tion of morbidity needs to be es- tablished		
develop and im- plement patient pathways and	Patient pa and patier grams for	nt pro-	Partially, meetings CPAM but active wo	no ment of	Discus- sions with health	Need to develop common struc- ture for of pa- tient pathways to		





case manage- ment systems for 1 or 2 chronic dis- eases	2 disease groups, available (Y/N)		group, work on patient pathways planned for Q3, Case man- agement un- likely	pathways is de- layed. In- clusion of case manage- ment un- likely for PDSA 2	insur- ance started,	include preven- tive and curative care.
Strengthen sec- ondary, and tertiary preven- tion programs for 1 or 2 chronic dis- eases	prevention actions for each patient program, available (Y/N)	3	Target Q3 , currently GIP MSS programs are under re- view in the context of Prescri'mouv	No devia- tion		
develop com- munication and marketing strat- egies to in- crease patient subscription to preventive care programs	communication material, available (Y/N)	2	Target Q4: GIP MSS website development ongoing,	No devia- tion		
develop and im- plement pro- grams for strengthening patient self- management programs	training course and coaching pro- gram for patient self-management, available (Y/N)	2	Target Q4 – not started yet, possibly collaboration with UGECAM	No devia- tion		
integrate and share innova- tions	At least two meet- ings/conferences organised to share Strasbourg Inte- grated Care expe- rience (Y/N)	2	Target Q4: Sport Santé meeting planned, pos- sible presen- tation for ICIC 2023	No devia- tion		

LCF6		Develop an economic model to sustain population based integrated care by evaluating the efficiency of health care delivery and re-invest generated savings in patient empowerment and preventive services.						
Activity KPI			Target value (from PLAN)	Actual value (from DO)	Rea- sons for the de- viations	Mitigation actions im- plemented	Impact of miti- gation actions	





Identify current funding mecha- nisms for inte- grated care and its elements	List of support ini- tiatives and fund- ing sources, availa- ble (Y/N)	list	completed	No de- viation	
Describe and ana- lyse economic ben- efits of integrated care within the de- fined implementa- tion area.	Report available (Y/N),report pub- lished (Y/N)	presen- tation	Targeted for Q4 22, initial study done on analysing health and eco- nomic benefits of SSSO	No de- viation	
Develop a business plan for a Stras- bourg district based integrated care model	business plan for district/Strasbourg integrated care unit, available (Y/N)	1	Targeted for Q4 2022	No de- viation	

# Act

Cycle number (1 or 2)	1					
LCF1	In-depth analysis of the existing situation to fully understand the field network					
Activity	Maintain	Adapt	Abandon			
Include the OptiMedis approach in the local strategy (CLS)	Completed					
Validate a CLS action sheet	Follow un- til signa- ture					
List all health professionals in the 3 selected districts	completed					
List all Adapted physical activity unit part- ners	completed					
The sport and health prescription pathway from A to Z (data, information system, pa- tients, doctors, other health professionals)		Integrate into development of patient pathways				
Analysis of the patient database of each MUS and each district (list of routine and preventive activities)			Not enough col- laboration with doctors			
Identify key partners and barriers		Focus on currently success- ful partnerships for preven- tive care, CPAM, ARS				
map local, regional, national, and interna- tional experience and support mechanisms for the planned initiatives	continue					





LCF2	Creating the network and developing the elements for a successful proof of concept				
Activity	Main- tain	Adapt	Aban- don		
Launching a call for external service provider to lead workshops on the needs of the MUS/districts/ healthcare professionals		work with existing preventive care providers and enlarge ser- vice offer Integrate innovations and			
Launching a human resource hiring for the preven- tion and care pathway component		Work with existing resources from selected city districts and share experience			
Launching a call for external service provider on IS (shared patient file) and data (access to SNDS data)		Access SNDS to improve the eco- nomic model (LCF 6)	-		

LCF3	Co-construct the core features for a proof of concept for an integrated care system				
Activity	Main- tain	Adapt	Aban- don		
identify potential efficiency gaps for the pre- vention and management of 1 or 2 chronic disease		Focus on preventive care networks and develop coordinated service offer. Mobi- lise city district resources and share inno- vations, improve service coverage for peo- ple living with ALD			
Develop an analytic model to show popula- tion-based effects of integrated people cen- tred health services using the Triple Aims of the Value Based Care (VBC) framework and define indicators		Move under LCF 6 and evaluate health care consumption for people participating in preventive care services			

LCF4		Support the implementation of a shared patient information system among healthcare professionals in the 3 districts				
Activity	Main- tain	Adapt	Aban- don			
agree on the core characteristics for shared patient information at the district level and review currently used systems		Focus on preventive care, improve GIP MSS data base and link with health care consumption data, improve reporting with prescribing physicians as part of a mar- keting strategy, check for opportunities with newly created CPTS Strasbourg Ville				
IT integration following national e-health strategy (ségur numé- rique, ma santé2022)		Explore data sharing along patient pathways to be de- veloped. Explore options with "mon éspace santé"				

LCF5	Develop and monitor patient centred health programs at the in-
	terface between prevention, outpatient and Inpatient care for
	different risk strata and strengthen patient self-management





Activity	Main- tain	Adapt	Aban- don
conduct a population segmentation ex- ercise by disease group and identify needs for each population strata for 1 or 2 chronic diseases		To be related to the development of pa- tient pathways and the new prescri'mouv and SSSO approach	
develop and implement patient path- ways and case management systems for 1 or 2 chronic diseases		Further development of case management unlikely in the remaining time	
Strengthen secondary, and tertiary pre- vention programs for 1 or 2 chronic dis- eases	con- tinue		
develop communication and marketing strategies to increase patient subscrip- tion to preventive care programs	con- tinue		
develop and implement programs for strengthening patient self-management programs			
integrate and share innovations		Focus on preventive care innovations	

Lcf6	Develop an economic model to sustain population based integrated care by evaluating the efficiency of health care delivery and re-invest gener- ated savings in patient empowerment and preventive services					
Activity	Main- tain	Adapt	Abandon			
Identify current funding mecha- nisms for integrated care and its elements	con- tinue					
Describe and analyse economic benefits of integrated care within the defined implementa- tion area.		Continue and enlarge activi- ties developed in PDSA 1				
Develop a business plan for a Strasbourg district based inte- grated care model			Abandon – time period too short to develop the full model,			

QUESTIONS	ANSWERS
Any new proposed action for the future?	<ul> <li>Refocus on preventive care</li> <li>Enlarge preventive care services offer and include innovations</li> <li>Increased coverage of chronic care patients living in selected city districts with preventive care services</li> </ul>

QUESTIONS	ANSWERS
Any new proposed action for the future?	-





# 2nd PDSA Cycle

#### Plan

LCF1	In-dept	n analysis of the existir	ng situation to fu	Illy understand the field netw	vork			
				KPIs MEASURE				
Activities (from the LAP) Ac- tions	Actors	Timeline	KPIs (from the LAP)	Who will col- lect the data?	When will the data be col- lected?	How will the data be col- lected?	Target value	
Validate a CLS action sheet	•	<ul> <li>Institutional</li> <li>Ville de Stras- bourg</li> <li>ARS</li> </ul>	• Q3 2022	Signed CLS	• GiP-MSS	• 1-23	•	• yes
The sport and health pre- scription pathway from A to Z (data, information system, patients, doctors, other health professionals)	•	<ul> <li>GIP MSS</li> <li>Opti- Medis</li> <li>existing profes- sional networks</li> </ul>	• Q4 2022	2 patient pathways	• GIP MSS	• 1-23	•	2 pathways
Map regional, national, and international experience and support mechanisms for the planned initiatives	•	<ul> <li>network partners</li> <li>OptiMedis</li> <li>GIP MSS</li> <li>LGP working group</li> </ul>	ongoing	Updated list of Literature or good practices, web- sites	GIP MSS, OM	12 -22	Literature list	available
LCF 2	Creating	g the network and dev	eloping the elen	nents for a successful proof o	f concept	1	1	1





					KPIs ME	ASURE		
Activities (from the LAP)	Ac- tions	Actors	Timeline	KPIs (from the LAP)	Who will col- lect the data?	When will the data be col- lected?	How will the data be col- lected?	Target value
Mobilise community actors to increase and diversify service offer	• Ac- tion 1	<ul> <li>OptiMedis</li> <li>EUSTRAS</li> <li>GIP MSS</li> <li>community reps</li> </ul>	• Q4 2022	Exchange platform for community actors in place Health ambassador pro- gram in place Increase percentage of prescriptions taken up by patients Creation of mobile health educator to improve ac- cess to preventive care in 3 city quarters	• GIP MSS	1-23	Report	Available 30% of pre- scribtions are hon- ored]
Mobilise prescribing physi- cians	• [2]	<ul> <li>OptiMedis</li> <li>EUSTRAS</li> <li>GIP MSS</li> <li>network physicians (URPS, MUS, CPTS)</li> </ul>	• Q4 2022	Improved reporting and feedback mechanisms for GPs increased number of SSSO prescriptions (trend by doctor, by city quarter)	GIP MSS	1-23	• report	available increase by 20%
Promote SSSO integration in physician networks (MUS, CPTS)	• [3.]	<ul> <li>OptiMedis</li> <li>EUSTRAS</li> <li>GIP MSS</li> <li>GPs and net-works</li> </ul>	• Q4 2022	SSSO integrated in CPTS Strasbourg Ville targets City quarter GPs mobi- lised around new pre- scri'mouv standards	GIP MSS	1-23	interview	Available applied
LCF3	Co-cons	truct the core feature	s for a proof of	concept for an integrated car	e system		,	





					KPIs ME	ASURE		
Activities (from the LAP)	Activities (from the LAP) Ac- tions Actor	Actors Timeline	KPIs (from the LAP)	Who will col- lect the data?	When will the data be col- lected?	How will the data be col- lected	Target value	
Broaden the scope of GIP MSS (coordinated) service offer	•	<ul> <li>health education specialists,</li> <li>city quarter network participants</li> <li>Patient reps</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q3 2022	<ul> <li>No of participants of:</li> <li>training course and coaching program for patient self-manage- ment,</li> <li>differentiate program based on segmenta- tion of target popula- tion</li> <li>healthy nutrition pro- grams</li> <li>psychosocial health activities</li> </ul>	GIP MSS	1-23	reports interviews	at least 2 new pro- grams
integrate and share innova- tions	•	<ul> <li>city quarter participants</li> <li>OptiMedis</li> <li>EUSTRAS</li> <li>GIP MSS</li> </ul>	• Q4 2022	<ul> <li>Contribution to</li> <li>Assises sport santé Strasbourg</li> <li>JADECARE stakeholder meeting</li> <li>ICIC meeting 2023</li> </ul>	GIP MSS, Opti- Medis	1-23	count	At least 3 contribu- tions
Improve coverage of people living with or at risk of chronic disease	•	<ul> <li>health educa- tion special- ists,</li> <li>city quarter network par- ticipants</li> </ul>	• Q4 2022	<ul> <li>40% of people living with selected ALD in the implementation area receive preven- tive care messages</li> </ul>	GIP MSS OptiMedis	1-23	SSSO stats	40%





		<ul><li>Patient reps</li><li>OptiMedis</li><li>EUSTRAS</li></ul>		<ul> <li>15% of selected pa- tients subscribe to GIP MSS activities</li> </ul>				15%
LCF4	Support	the implementation c	of a shared patie	nt information system among	healthcare profes	sionals in the	3 districts	
Activities (from the LAP)	Ac- tions	Actors	Timeline	KPIs (from the LAP)	Who will col- lect the data?	When will the data be col- lected?	How will the data be col- lected?	Target value
Develop and implement new GIP MSS database, in- cluding national standards	•	<ul><li>GIP MSS</li><li>OptiMedis</li><li>EUSTRAS</li></ul>	• Q3 2022	<ul> <li>ligo database estab- lished</li> <li></li></ul>	GIP MSS	• 1-23	•	available
Use data analytic reports to promote SSSO	• []	<ul> <li>GIP MSS</li> <li>OptiMedis</li> <li>EUSTRAS</li> <li>patient reps</li> <li>health professionals</li> </ul>	• Q4 2022	<ul> <li>analytic format for stakeholder communi- cation developed</li> <li>analytic population- based report pre- sented</li> </ul>	<ul><li>GIP MSS</li><li>OptiMedis</li></ul>	• 12-22	Information material	Available availabel
Explore information sharing options along patient path- ways	•	<ul> <li>GIP MSS</li> <li>OptiMedis</li> <li>EUSTRAS</li> <li>health pro- fessionals</li> <li>hospital reps</li> <li>Pulsy?</li> </ul>	• Q4 2022	<ul> <li>concept for data sharing instrument for patient pathways developed,</li> <li>appropriate tool selected (if applicable)</li> </ul>	GIP MSS OptiMedis	1-23	document	Available
LCF5		and monitor patient ata and strengthen pat		programs at the interface bet gement	ween prevention,	outpatient a	nd Inpatient care	for different





Activities (from the LAP)	Ac- tions	Actors	Timeline	KPIs (from the LAP)	Who will collect the data?	When will the data be col- lected?	How will the data be collected?	Target value
develop structure of inte- grated patient pathways/ parcours santé	[1.]	OptiMedis EUSTRAS GIP MSS health profes- sionals hospital based NCD experts,	Q3 2022	The general structure pa- tient pathways is drafted and discussed with key stakeholders	OptiMedis, GIP MSS	1-23	Validation re- port	available
Strengthen secondary, and tertiary prevention pro- grams	[2.]	GIP-MS and Asso- ciations OptiMedis EUSTRAS health profes- sionals hospital based NCD experts, patient reps	Q4 2022	2 health pathways and as- sociated preventive care activities developed	GIP MSS	1-23	documents	2 docs
develop communication and marketing strategies to increase prescriptions num- bers and patient interest in preventive care programs	• 3	<ul> <li>marketing experts</li> <li>GPs</li> <li>GIP-MSS</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q3 2022	communication material, available (Y/N), number if new subscribers by city quarter web site and social media channels for GIP MSS cre- ated; user monitoring	GIP MSS	1 -23	•	available
LCF6		•		opulation based integrated ca verment and preventive servi		he efficiency o	of health care deli	very and re-
Activities (from the LAP)		Actors	Timeline					





	Ac- tions			KPIs (from the LAP)	Who will col- lect the data?	When will the data be col- lected?	How will the data be col- lected?	Target value
Extend the economic model used in PDSA 1 to show health effects on preventive care in chronic disease pa- tients	• Ac- tion 1	<ul> <li>GIP MSS</li> <li>OptiMedis</li> <li>EUSTRAS</li> <li>CPAM</li> <li>ARS</li> </ul>	• Q3 2022	<ul> <li>-more advanced analytic</li> <li>model</li> <li>Calculate potential savings for the intervention</li> <li>area (combined effects of</li> <li>preventive care and increased quality of care</li> </ul>	[CPAM, GIP MSS data]	1-23	Reports, presentations	available
Use SNDS data to identify quality improvement poten- tials and effects 	• [2]	<ul> <li>health ana- lysts</li> <li>epidemiolo- gists and sur- vey staff</li> <li>health profes- sionals</li> <li>CPAM and ARS</li> <li>OptiMedis</li> <li>EUSTRAS</li> </ul>	• Q4 2022	<ul> <li>patient segmentation by risk and cost</li> <li>follow patient path- ways</li> <li>define systems perfor- mance analysis tools and do at least one analysis</li> </ul>	<ul> <li>GIP-MSS</li> <li>OptiMedis</li> </ul>	• 1-23	Access per- missions	available
Identify current funding mechanisms for integrated care and its elements	•	<ul> <li>OM and EUSTRAS</li> <li>ARS, CPAM</li> <li>EU tenders</li> <li>cross-border collabora- tions</li> </ul>	• Q4	list of opportunities	<ul><li>OM</li><li>GIP MSS</li><li>EUSTRAS</li></ul>	1-23	Grant applica- tion	>1





Develop a health data ob- servatory with CPAM	] • •	EUSTRAS OM CPAM GIP MSS]	• [Q3 2022]	<ul> <li>at least one analysis of trends in ambula- tory chronic care for the intervention re- gion</li> </ul>	<ul><li>CPAM,</li><li>GIP-MSS</li><li>OptiMedis</li></ul>	• 1-23	<ul> <li>presenta- available tion</li> </ul>
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### Do

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Local Action Plan: Implement oGP population based integrated care in 3 city quarters PDSA 2						
LCF 1	In-depth analysis of the existing situation to fully understand the field network					
Activity	КРІ	Actual value				
Validate a CLS action sheet	Signed CLS	CLS not yet signed				
The sport and health prescription pathway from A to Z (data, infor- mation system, patients, doctors, other health professionals)	<ul> <li>2 patient pathways</li> </ul>	Prescri'mouv and SSSO updated, tar- geted pathways for heart failure and dia- betes, format not yet specified, planned for 1 QT 2023				
regional, national, and international experience and support mechanisms for the planned initiatives	Updated list of Litera- ture or good practices, websites	Ongoing				

LCF 2	Creating the network and developing the elements for a successful proof of concept				
Activity	KPI	Actual value			
Mobilise community ac- tors to increase and di- versify service offer	<ul> <li>Exchange platform for community actors in place</li> <li>Health ambassador program in place</li> <li>Increase percentage of prescriptions taken up by patients</li> </ul>	Assessment of medico-social and com- munity activites by city quarter ongoing Health ambassador project conceptual- ised but depends on CLS funding. Additional mobile health educator estab- lished to increase preventive care offer in city quarters Not started, follow up of patients with prescriptions planned through media- tors/health ambassador program			
Mobilise prescribing physicians	<ul> <li>Improved reporting and feed- back mechanisms for GPs</li> <li>increased number of SSSO prescriptions (trend by doc- tor, by city quarter)</li> </ul>	Ongoing, new database set up ongoing			
Promote SSSO integra- tion in physician net- works (MUS, CPTS)	<ul> <li>SSSO integrated in CPTS Strasbourg Ville targets</li> <li>City quarter GPs mobilised around new prescri'mouv standards</li> </ul>	Done – CPTS Strasbourg Ville is still in its early setup phase ongoing			

LCF 3	Co-construct the core features for a proof of concept for an integrated care system				
Activity	КРІ	Actual value			
Broaden the scope of GIP MSS (coordinated) ser- vice offer	<ul> <li>No of participants of:</li> <li>training course and coaching pro- gram for patient self-management,</li> </ul>	Not started			





	<ul> <li>differentiate program based on segmentation of target population</li> <li>healthy nutrition programs</li> <li>psychosocial health activities</li> </ul>	Patient segmentation for SSSO pro- grams, according to their level of au- tonomy to engage in SSSO programs New SSSO approaches under develop- ment
integrate and share inno- vations	<ul> <li>Contribution to</li> <li>Assise sport santé Strasbourg</li> <li>JADECARE stakeholder meeting</li> <li>ICIC meeting 2023</li> </ul>	Done - Several contributions prepared for national and international working groups and conferences
Improve coverage of peo- ple living with or at risk of chronic disease	<ul> <li>40% of people living with selected ALD in the implementation area re- ceive preventive care messages</li> <li>15% of selected patients subscribe to GIP MSS activities</li> </ul>	Ongoing, website and social media channels active Not yet regularly assessed

LCF4	Support the implementation of a shared patient information system among healthcare professionals in the 3 districts				
Activity	КРІ	Actual value			
Develop and implement new GIP MSS database, including national standards	<ul> <li>ligo database established</li> </ul>	available			
Use data analytic reports to promote SSSO	<ul> <li>analytic format for stake- holder communication de- veloped</li> <li>analytic population-based report presented</li> </ul>	Ongoing Initial report done, but only based on small subpopulations			
Explore information sharing options along patient path- ways	<ul> <li>concept for data sharing instrument for patient pathways developed,</li> <li>appropriate tool selected (if applicable)</li> </ul>	Tools proposed (Pulsy-parceo) but little application, specific and integrated pa- tient pathways not yet developed			

LCF5	Develop and monitor patient centred health programs at the inter- face between prevention, outpatient and Inpatient care for different risk strata and strengthen patient self-management				
Activity	КРІ	Actual value			
develop structure of integrated pa- tient pathways/ parcours santé	<ul> <li>The general structure patient pathways is drafted and discussed with key stakeholders</li> </ul>	Ongoing, resource material col- lected			
Strengthen secondary, and tertiary prevention programs	• 2 health pathways and associated preventive	Not yet started			





	care activities devel- oped	
develop communication and market- ing strategies to increase prescrip- tions numbers and patient interest in preventive care programs	<ul> <li>communication material, available (Y/N), number if new subscribers by city quarter</li> <li>web site and social media channels for GIP MSS created; user monitoring</li> </ul>	Not started GIP SSSO available <u>https://www.maisonsportsantes-</u> <u>trasbourg.fr/</u> social media chan- nels active

LCF6	Develop an economic model to sustain population based integrated care by evaluating the efficiency of health care delivery and re-invest generated savings in patient empowerment and preventive services.			
Activity	КРІ	Actual value		
Extend the economic model used in PDSA 1 to show health effects on pre- ventive care in chronic dis- ease patients	<ul> <li>more advanced analytic model</li> <li>Calculate potential savings for the intervention area (combined effects of pre- ventive care and increased quality of care</li> </ul>	Ongoing, demand for database access (SNDS) under development, initial sur- vey for cost benefit of SSSO programs done. Increase of case numbers and better data needed.		
Use SNDS data to identify quality improvement po- tentials and effects 	<ul> <li>patient segmentation by risk and cost</li> <li>follow patient pathways</li> <li>define systems performance analysis tools and do at least one analysis</li> </ul>	Patient pathway development ongoing – see above. patient segmentation based on level of autonomy to engage in physical activity programs (see above)		
Identify current funding mechanisms for integrated care and its elements	<ul> <li>list of opportunities</li> </ul>	ongoing		

QUESTIONS	ANSWERS
What was actually implemented? Any deviation from the planned actions	<ul> <li>Situation analysis done in PDSA 1; key developments are in:</li> <li>development of analytic models for health benefits and cost benefits through SSSO</li> <li>first steps to increase coverage of preventive care measures for chronic care patients</li> <li>slow development for integrated care pathways</li> <li>development of accompanying care services (health ambassadors, mediators).</li> <li>integration of preventive care in care networks (CPTS Strasbourg centre)</li> <li>access to data limited</li> <li>new approaches in SSSO</li> <li>slow development for shared patient data,</li> </ul>





Problems? Unex- pected findings? Please describe	Implementation plan too ambitious for the available time frame, collaboration with physician networks slow, analytic work, particularly in terms of systems performance evaluation is interesting. The local health contract (CLS), which includes some of the funding for the program, and was planned to be signed early 2022 has not been signed until now. However, political situation favours territorial orientation of primary and integrated care. The JADECARE program is embedded in a larger programme (TSD) for, which will ascertain continuity for the next years. The gurrent political framework is guite conducive to the sustainability of IADECARE
	current political framework is quite conducive to the sustainability of JADECARE content in Strasbourg and France as a whole.

IMPLEMENTATION PROGRESS OF THE LOCAL GOOD PRACTICE				
0-25%	25-50%	50-75%	75-100%	
		X		





#### Study

Cycle number		PDSA 2					
LCF1		In-depth analysis of the existing situation to fully understand the field network					
Activity	КРІ	Target value (from PLAN)	Actual value (from DO)	Reasons for the de- viations	Mitigation actions im- plemented	Impact of miti- gation actions	
Validate a CLS ac- tion sheet	Signed CLS	availa- ble	CLS not yet signed	Bureau- cratic pro- cess slow, more time needed	none		
The sport and health prescription pathway from A to Z (data, information system, patients, doctors, other health profession- als	2 patient pathways	2 pa- tient path- ways	Prescri'mouv and SSSO updated, tar- geted pathways for heart failure and dia- betes, format not yet specified, planned for 1 QT 2023	No formal process available for path- way design	Pathway de- sign and vali- dation pro- cess planned for 1 QT 2023		
regional, national, and international experience and support mecha- nisms for the planned initiatives	Updated list of Liter- ature or good prac- tices, web- sites	Litera- ture list, web- sites	Ongoing	Ongoing process			

LCF2		Creating the network and developing the elements for a successful proof of concept					
Activity	КРІ	Target value (from PLAN)	Actual value (from DO)	Reasons for the de- viations	Mitigation actions im- plemented	Impact of miti- gation actions	
Mobilise community actors to in- crease and diversify ser- vice offer	Exchange plat- form for com- munity actors in place Health ambassa- dor program in place	Available	Assessment of med- ico-social and com- munity activities by city quarter ongoing	Limited time	None planned		





	Increase per- centage of pre- scriptions taken up by patients	30% pre- scriptions are hon- oured	Health ambassador project conceptual- ised but depends on CLS funding. Not started, follow up of patients with prescriptions planned through media- tors/health ambassa- dor program	CLS funding delayed Ongoing, is- sues of confidenti- ality of pa- tient data	No special measures Consulta- tions with prescribing physicians	
Mobilise prescribing physicians	Improved re- porting and feedback mech- anisms for GPs increased num- ber of SSSO pre- scriptions (trend by doctor, by city quarter)	Available No of prescrip- tions in- crease by 20 %	Ongoing, new data- base set up ongoing	Limited time Limited time	Staff time in- crease planned	
Promote SSSO inte- gration in physician networks (MUS, CPTS)	SSSO integrated in CPTS Stras- bourg Ville tar- gets City quarter GPs mobilised around new prescri'mouv standards	Available	Done – CPTS Stras- bourg Ville is still in its early setup phase ongoing	CPTS Stras- bourg ville still under develop- ment Limited time		

LCF 3			Co-construct the core features for a proof of concept for an integrated care system				
Activity	КРІ	Target value (from PLAN)	Actual value (from DO)	Reasons for the deviations	Mitiga- tion ac- tions im- ple- mented	Impact of mit- igation ac- tions	
Broaden the scope of GIP	<ul><li>No of participants of:</li><li>training course and coaching</li></ul>	At least two new	Not started	Funding con- straints, CLS not started yet.			





MSS (coordi- nated) ser- vice offer	<ul> <li>program for patient self- management,</li> <li>differentiate program based on segmenta- tion of target population</li> <li>healthy nutri- tion programs</li> <li>psychosocial health activi- ties</li> <li>etc</li> </ul>	pro- grams	Patient segmen- tation for SSSO programs, ac- cording to their level of auton- omy to engage in SSSO programs New SSSO ap- proaches under development	New pre- scri'mouv and SSSO programs developed and early operational stage	
integrate and share innova- tions	<ul> <li>Contribution to</li> <li>Assise sport santé Stras- bourg</li> <li>JADECARE stakeholder meeting</li> <li>ICIC meeting 2023</li> </ul>	At least 3 con- tribu- tions	Done - Several contributions prepared for na- tional and inter- national working groups and con- ferences	Done and to be continued	
Improve cov- erage of peo- ple living with or at risk of chronic dis- ease	<ul> <li>40% of people living with se- lected ALD in the implemen- tation area re- ceive preven- tive care mes- sages</li> <li>15% of se- lected patients subscribe to GIP MSS activi- ties</li> </ul>	40%	Ongoing, website and social media channels active	Stage to early to evaluate.	
		1370	Not yet regularly assessed	Data availability still limited (2019 - 2021 CPAM data available), setting up "observatory" at CPAM planned	

LCF4	Support the implementation of a shared patient information sys-
	tem among healthcare professionals in the 3 districts





Activity	КРІ	Target value (from PLAN)	Actual value (from DO)	Reasons for the deviations	Mitigation actions imple- mented	Impact of miti- gation actions
Develop and implement new GIP MSS data- base, including national stand- ards	ligo database established	availa- ble	available	none		
Use data ana- lytic reports to promote SSSO	analytic for- mat for stake- holder com- munication developed analytic popu- lation-based report pre- sented	Availa- ble availa- ble	Ongoing Initial report done, but only based on small subpopula- tions	None – activity continues, but case numbers and data access need to be sta- bilised		
Explore infor- mation sharing options along patient path- ways	concept for data sharing instrument for patient path- ways devel- oped, appropriate tool selected (if applicable)	availa- ble	Tools proposed (Pulsy-parceo) but little application, specific and inte- grated patient path- ways not yet devel- oped	Still weak col- laboration with physician net- works – but im- provement visi- ble		

LCF5		Develop and monitor patient centred health programs at the inter- face between prevention, outpatient and Inpatient care for different risk strata and strengthen patient self-management					
Activity	КРІ	Target value (from PLAN)	Actual value (from DO)	Reasons for the devia- tions	Mitigation actions imple- mented	Im- pact of miti- gation ac- tions	
develop structure of integrated pa- tient pathways/ parcours santé	The general structure pa- tient path- ways is drafted and discussed with key stakeholders	availa- ble	Ongoing, resource ma- terial collected	Limited time			





Strengthen second- ary, and tertiary prevention pro- grams	2 health pathways and associ- ated preven- tive care ac- tivities de- veloped	availa- ble	Not yet started	No formal pathway structures yet availa- ble	Develop- ment and approval planned for 1 QT 2023	
develop communi- cation and market- ing strategies to in- crease prescriptions numbers and pa- tient interest in preventive care programs	communica- tion mate- rial, available (Y/N), num- ber if new subscribers by city quar- ter web site and	Avail- able	Not started GIP SSSO available	Website and social media channels available but user monitoring needs to be developed marketing		
	social media channels for GIP MSS cre- ated; user monitoring	availa- ble	https://www.mai- sonsportsantestras- bourg.fr/ social media channels active	strategy needs de- velopment,		

LCF6		Develop an economic model to sustain population based integrated care by evaluating the efficiency of health care delivery and re-invest generated savings in patient empowerment and preventive services				
Activity	КРІ	Target value (from PLAN)	Actual value (from DO)	Reasons for the devia- tions	Mitigation actions im- plemented	Impact of mit- igation ac- tions
Extend the eco- nomic model used in PDSA 1 to show health effects on pre- ventive care in chronic disease patients	more advanced analytic model Calculate poten- tial savings for the intervention area (combined effects of pre- ventive care and increased quality of care	Availa- ble availa- ble	Ongoing, demand for database access (SNDS) under devel- opment, initial survey for cost benefit of SSSO programs done. Increase of case num- bers and better data needed.	Access to anony- mised in- dividual data missing Low user numbers	Application under way, submission planned for Jan 2023 SSSO pro- grams up- dated and di- versified – marketing strategy planned	
Use SNDS data to identify qual- ity improve- ment potentials and effects 	patient segmen- tation by risk and cost follow patient pathways define	Availa- ble	Patient pathway de- velopment ongoing – see above. patient segmentation based on level of autonomy to engage in physical	Patient pathway format not yet available SNDS data	Both to be developed in 1 QT 2023 (see above)	





	systems perfor- mance analysis tools and do at least one analy- sis	1 per- for- mance analysis	activity programs (see above)	base not yet ac- cessible	
Identify current funding mecha- nisms for inte- grated care and its elements	list of opportuni- ties	availa- ble	ongoing	none	

#### Act

Local Action Plan: Implement oGP population based integ	rated care in 3 cit	y quarters PDS	SA 2	
LCF 1	In-depth analysis of the existing situation to fully understand the field network			
Activity	Maintain	Adapt	Abandon	
Validate a CLS action sheet	yes			
The sport and health prescription pathway from A to Z (data, information system, patients, doctors, other health professionals)	yes			
regional, national, and international experience and support mechanisms for the planned initiatives	yes			
LCF 2	Creating the network and developing the ele- ments for a successful proof of concept			
Activity	Maintain	Adapt	Abandon	
Mobilise community actors to increase and diversify service offer	yes			
Mobilise prescribing physicians	yes			
Promote SSSO integration in physician networks (MUS, CPTS)	yes			

LCF3	Co-construct the core features for a proof of concept for an integrated care system			
Activity		Maintain	Adapt	Abandon
Broaden the scope of GIP MSS (coordinated) ser- vice offer		yes		
integrate and share innovations		yes		
Improve coverage of chronic disease	people living with or at risk of	yes		





LCF4	Support the implement tem among healthcare	•	
Activity	Maintain	Adapt	Abandon
Develop and implement new GIP MSS database, including national standards	done		
Use data analytic reports to promote SSSO	yes		
Explore information sharing options along patient pathways	yes		

LCF5	Develop and monitor terface between preve different risk strata an	ention, outpatient a	•
Activity	Maintain	Adapt	Abandon
develop structure of integrated patient pathways/ parcours santé	yes		
Strengthen secondary, and tertiary pre- vention programs	yes		
develop communication and marketing strategies to increase prescriptions num- bers and patient interest in preventive care programs	yes		

LCF6	Develop an economic mo care by evaluating the ef generated savings in pati	ficiency of health care	e delivery and re-invest
Activity	Maintain	Adapt	Abandon
Extend the economic model used in PDSA 1 to show health effects on preventive care in chronic dis- ease patients	yes		
Use SNDS data to identify quality improvement potentials and ef- fects 	yes		
Identify current funding mecha- nisms for integrated care and its elements	yes		

QUESTIONS	ANSWERS
Any new proposed action for the future?	-



## Post-implementation

ITEM	ANSWER
Title and Abs	tract
Title	Implement population based integrated care in 3 city quarters of Strasbourg
Abstract	<ul> <li>Strasbourg has a rich portfolio of initiatives and projects targeting innovations in health care delivery, such as care coordination in multi-professional teams, prevention and physical activity initiatives, medico-social services, and digitisation in health. This is backed-up by national and regional health strategies. The local good practice (LGP) focuses on transforming a disease based professionally dominated care system towards a territorial population-based, people centred health system in an urban environment in three Strasbourg districts.</li> <li>Its main pillars are: <ul> <li>to build strong stakeholder networks between physician networks, preventive care facilities and the Strasbourg based Sports on prescription program.</li> <li>to develop integrated health programs and patient pathways towards a continuity of care approach.</li> <li>to foster patient activation and participation towards better patient health and selfmanagement.</li> <li>to share patient information along patient pathways.</li> <li>to build data-based decision support including patient information sharing across provider networks,</li> <li>to increase efficiency of health care delivery system through performance measurement, analytical tools for outcome and impact assessment.</li> </ul> </li> </ul>
Why did you start?	Answer
Problem description	Aging populations, an increasing prevalence of chronic diseases, lack of health care staff and rising health care costs are dominant health care problems not only in France. Coordinated and integrated health care delivery systems have been identified in France as a possible solution. The City of Strasbourg started to finance preventive care solutions including sports on prescription some 10 years ago using the instrument of a "local health contract" to fund these activities. These solutions developed well over the years and have covered some 4000 patients until 2022. However, the initiative was not well connected with the coordinated multiprofessional health care approaches recommended by the French MoH - such as the urban health houses (MUS: maision urbaine de santé) and territorial multiprofessional teams (CPTS: communautés professionnelles territoriales de santé). Additionally, the added value of the initiative for population and patient health remained unclear. The city of Strasbourg has committed itself to test an integrated care approach following the example of the OptiMedis model in Strasbourg city quarters, and to measure its impact and patient health and wellbeing.
Available knowledge	<ul> <li>Prévention et Santé Publique; Dossier coordonné par Roger Salamon, Pierre Lombrail et Patrick Peretti-Watel <u>https://www.hcsp.fr/explore.cgi/Adsp?clef=133</u></li> <li>L'état de santé dans les territoires du Grand Est, ORS Grand Est Mars 2018 <u>ORS Grand Est   Actualités (ors-ge.org)</u></li> <li>- ARS Grand Est Etude territoriale Eurométropole 2016; <u>https://www.grand-est.ars.sante.fr/sites/default/files/2017-04/ARS GrandEst Etude territoire Eurom%C3%A9tropole 2016.pdf</u></li> <li>Cost-effectiveness of exercise referral schemes: a systematic review of health economic studiess, Amber Werbrouck et al, European Journal of Public Health, Vol. 32, No. 1, 87–94, 2021</li> </ul>

Co-funded by the Health Programme of the European Union





	- Le Proj	<u>.sante.fr/inde</u> et Régional d	e Santé, ARS Gra	and Est <u>k</u>	nttps://ww	Est <u>https</u> nese regionale E /w.grand-est.ars. n Chronic Disease	sante.fr/prs
Rationale	mostly based of ticularly not wi wards a de-cor gional de santé population hea thought to imp of Strasbourg h sports on preso de Strasbourg" health territori after the end of	in a single pra th preventive icentration of a ARS), the cr other of the prom prove service of as engaged in cription (sport won a nation es of tomorro f JADECARE.	ctice model with and social care. services, the cro eation of coordin notion of territor coordination and n a variety of pre t santé sur ordor nal competition f ow (Territoire de	n little o A major eation o nated se rial mult d effective eventive nnance, for innov santé d ides for	r no collab r policy shi f regional ervice appr iprofession veness of s care meas SSsO). Ado vations in l e demain, a positive	al organisation. P poration with oth ift happened with health agencies ( roaches and a mo nal teams (CPTS, services. Addition sures including th ditionally, the "Eu health, which fun TSD), which will project environn nable solutions.	er sectors, par- n a move to- agence re- ove towards see above) is nally, the city ne support of prométropole ds the project continue also
Specific aims			-			ee districts of Sti I specificities of	-
What did you do?	Answer						
	<ul> <li>Identified needs for Strasbourg from scope definition:</li> <li>Create evidence for improved population health and patient well-being through integrated, performant and cost-effective care (preventive and disease management) interventions.</li> <li>Situation analysis and definition of improvement opportunities</li> <li>Implement data sharing tools (depending on national and regional IT strategies in health and their implementation plan)</li> <li>Develop patient activation strategy and design interventions.</li> <li>Continuously monitor outcomes and impact of interventions</li> <li>Identification of disease management priorities and implement integrated patient centred care plans.</li> </ul>						
	Results from S	NOT Strengths		V	Veakness		
Context		8. Nationa Santé 2	al strategy "Ma 022"	7	. Unbui works	ld field net-	
		manage	mbitious project ed by EUSTRAS : pires de santé de "		access	ot based on a	
		with th	hed partnership e local health ins sency (CPAM)		0. 3 sepa	ntegrator. arated districts ed for the ex- ent	
			hed partnership e local health (ARS)	1		n resources	





	13 14 0r 7. 8. 9. 10 11	oportunities	<ol> <li>Local is Strasbourg, and might be far from the ministry</li> <li>Threats</li> <li>More of a political de- cision on the first place than from the field (top – down)</li> <li>Ability to develop a motivated network on the field</li> <li>Ability to communi- cate / disseminate on the project and method</li> <li>Onboard patients from districts with precarity and cultural specifici- ties</li> </ol>	
Interven- tion(s)	and multi-profession physical activity pro- Patient support be health mediators as presented locally (A Odense, Denmark data from national Major results are: • Local healt	works with a team of sports ed onal health teams to foster the rograms and measures the effe eyond primary care is extend and integration of complemen Assises Sport Santé Strasbourg) ). Data based management is I databases.	<ol> <li>Create a new actor/structure</li> <li>Data sharing was refused at a national level with the Health Data Hub</li> <li>Health professional fatigue after COVID-19 crisis</li> <li>ucators, the local health insure engagement of chronic diseets on the consumption of health rough a health ambass tary city quarter activities. The and internationally (ICIC confistrengthened by accessing context) and implementation of context.</li> </ol>	ase patients in nealth services. ador program, ne results were ference 2022 in complementary
	<ul> <li>Review an scri'mouv) and tertiar</li> </ul>	egrated care models in 3 city di id adaption of sport and healt . New data base set up to peri ry prevention activities. f mobile health educator to imp	th program on prescription ( mit better analytics for impac	t of secondary





	<ul> <li>Strong collaboration with health insurance (CPAM) and SSSO to analyse impact preventive care on health care consumption. Results presented internationally (ICIC 2022) and nationally (Assises Sport Santé).</li> <li>Joint research project discussed with GIP MSS scientific committee.</li> <li>The EUSTRAS team of stakeholders involved at various stages of the program is quite large. Key actors are:         <ul> <li>director for economic development at EUSTRAS: Rémy Banuls <u>remy.banuls@strasbourg.eu</u></li> <li>project director TSD: Fanny Loux: <u>fanny.loux@strasbourg.eu</u></li> <li>director GIP MSS de Strasbourg: Francois Jouan <u>francois.jouan@strasbourg.eu</u></li> <li>Réferente médicale GIP MSS: Corinne Bildstein <u>corinne.bildstein@strasbourg.eu</u></li> <li>Chargé de projet -développement intercommunal Sport Santé: Marlon Schrodi <u>marlon.schrodi@strasbourg.eu</u></li> <li>responsible de service CPAM: Catherine Geiger <u>catherine.geiger@assurance-maladie.fr</u></li> <li>Responsible Ségur Numérique pour la region Grand Est, ARS: Bruno Boutteau <u>Bruno.boutteau@ars.santé.fr</u></li> <li>Economiste de santé CPAM Bas Rhin: Colin Majean <u>colin.majean@assurance-maladie.fr</u></li> </ul> </li> </ul>
Study of the Inter- vention(s)	<ul> <li>Impact assessment is based on the delivery of identified products, availability of communication channels, results of operations research, analysis of routine data, stakeholder discussions etc. Some key products are: <ul> <li>integrated care integration into Local health contract CLS</li> <li>Interface for patient communication: patient information material and GIP MSS website</li> <li>situation analysis within 3 city districts based on routine data</li> <li>development of patient pathways</li> <li>study on patient performance improvement based on GIP-MSS data</li> <li>increase offer of secondary and tertiary prevention for chronic care patients</li> <li>broaden the scope of preventive care services for NCD patients living in the identified city districts.</li> <li>number of prescriptions following stakeholder sensitization</li> </ul> </li> <li>A study matching Sports on prescription data with health insurance data showed that patients participating in SSSO have a lower consumption of health care services following the recruitment in the programs compared to non-participating population with similar characteristics.</li> <li>Data of participants of SSSO activities show increase in physical performance.</li> </ul>
Measures	<ul> <li>LCF 1:</li> <li>Signed CLS,</li> <li>2 patient pathways,</li> <li>updated list of literature or good practices,</li> <li>websites</li> <li>LCF 2:</li> <li>exchange platform for community actors in place,</li> <li>health ambassador program in place,</li> <li>increase percentage of prescriptions taken up by patients</li> <li>Creation of mobile health educator to improve access to preventive care in 3 city quarters,</li> </ul>





	<ul> <li>Improved reporting and feedback mechanisms for GPs</li> </ul>
	<ul> <li>increased number of SSSO prescriptions (trend by doctor, by city quarter)</li> </ul>
	<ul> <li>SSSO integrated in CPTS Strasbourg Ville targets</li> </ul>
	<ul> <li>City quarter GPs mobilised around new prescri'mouv standards</li> </ul>
	LCF 3
	No of participants of:
	<ul> <li>training course and coaching program for patient self-management,</li> </ul>
	<ul> <li>differentiate program based on segmentation of target population</li> </ul>
	healthy nutrition programs
	psychosocial health activities
	Contribution to
	Assises sport santé Strasbourg
	JADECARE stakeholder meeting
	<ul> <li>ICIC meeting 2023</li> <li>40% of people living with selected ALD in the implementation area receive preventive care</li> </ul>
	messages 15% of selected patients subscribe to GIP MSS activities.
	LCF 4
	<ul> <li>ligo database established</li> </ul>
	<ul> <li>analytic format for stakeholder communication developed.</li> </ul>
	<ul> <li>analytic population-based report presented concept for data sharing instrument for pa-</li> </ul>
	tient pathways developed,
	appropriate tool selected (if applicable)
	LCF 5
	The general structure patient pathways is drafted and discussed with key stakeholders
	<ul> <li>2 health pathways and associated preventive care activities developed.</li> </ul>
	• communication material, available (Y/N), number if new subscribers by city quarter
	<ul> <li>web site and social media channels for GIP MSS created; user monitoring</li> </ul>
	LCF 6:
	more advanced analytic model
	Calculate potential savings for the intervention area (combined effects of preventive care
	and increased quality of care
	patient segmentation by risk and cost
	follow patient pathways
	<ul> <li>define systems performance analysis tools and do at least one analysis</li> <li>list of opportunities</li> </ul>
	<ul> <li>at least one analysis of trends in ambulatory chronic care for the intervention region</li> </ul>
	Qualitative and quantitative data
	Compare KPIs with implementation status,
	Assess and quantify anticipated outputs,
	• Study data: demographic, health insurance, hospital data, sports on prescription data
	stakeholder meetings
	<ul> <li>discuss findings at national and international workshops.</li> </ul>
Analysis	Understanding variations:
Anarysis	<ul> <li>Stakeholder meetings: Multiple delays happened in funding, recruiting staff, signing</li> </ul>
	agreements (e.g., CLS Strasbourg), availability of experts, varying stakeholder interest.
	analysing health data from different sources.
	• reviewing implementation processes: various conditionalities in the development of in-
	struments (e.g., data access, pathway development, collaboration with physicians), col-
	laboration arrangements
What did	
vou find?	Answer

you find?





<ul> <li>What was implemented:</li> <li>Situation analysis done in PDSA 1; key developments are in:</li> <li>development of analytic models for health benefits and cost benefits through SSSO</li> <li>first steps to increase coverage of preventive care measures for chronic care patients</li> <li>slow development of accompanying care services (health ambassadors, mediators).</li> <li>integration of preventive care in care networks (CPTS Strasbourg centre)</li> <li>new approaches in SSSO</li> </ul> Network development is mostly limited to preventive care, the ARS and the insurer CPAM. All LCFs related to these groups are mostly implemented. The inclusion of health professionals particularly for ambulatory care remains difficult, probably due to missing incentive systems. LCF 1; LCF 3 and LCF 6 are on target. LCF 2 Is delayed due to delays in signing the CLS and LCF4 is unlikely to be implemented in time due to the current lack of collaboration with medical practices. There were many factors delaying certain planed processes, such as <ul> <li>bureaucratic processes in the finalisation of the CLS</li> <li>lack of processes and incentives to develop patient pathways,</li> <li>limited data access and ongoing issues on confidentiality for their access</li> <li>long development for shared patient data,</li> <li>delay in the product marketing</li> </ul> <li>Problems and unexpected findings: Integrating project content into the Strasbourg 5-year health plan was delayed so that additional funding for project operations was not available in time, Collaboration with medical staff and group practices was more difficult than expected. A fruitful collaboration with medical staff and group practices was more difficult than expected. A fruitful collaboration may established however, between GIP MSS and CPAM, the new constitution of a multi-professional health network in Strasbourg might be an opportunity. The implementation plan might have been to ambitious for the available time frame. The collaboration with physician n</li>
Answer
Whereas all LGP components are relevant and answer to the national or local development strategies for integrated population-based care, the entire program was probably too ambi- tious for the time available. Many processes have started but are not yet finalised. There is a variety of actors in medico-social care in Strasbourg, often funded by the city of Strasbourg itself, which need further coordination and integration into a population-based approach. The use of patient data to analyse system's performance is not easy due to data protection issues. Although there are many tools for making patient data available across provider net- works, in reality little is implemented overcoming the usual sectoral boundaries. The fact that the JADECARE intervention is imbedded into the larger TSD program is a big opportunity for JADECARE sustainability. The same is true for the policy framework, which favours integrated care at the primary level. Generally, there are many started but unfinished processes, which will be completed follow- ing the end of the JADECARE implementation phase. Particular strengths of the project have been amongst others:





	Identifying and analysing routine data sources to determine patient needs and per- formance of preventive care interventions
	<ul> <li>starting the discussion and development of integrated patient pathways</li> </ul>
	<ul> <li>starting to operationalise policy recommendations on integrated care in 3 city dis- tricts.</li> </ul>
	<ul> <li>Intensifying discussions between primary care physicians and actors in preventive and medico-social care</li> </ul>
	<ul> <li>creating additional services at the interface between primary, preventive and com- munity care/health: mobile trainers for SSSO, community health ambassador pro- gramme, mobile health educators</li> </ul>
	See also under Results.
Interpreta- tion	There are multiple studies showing the effect of preventive care interventions on the health and wellbeing of people living with NCDs. WHO has formulated its "Framework on integrated people-centred health services" during the World Health assembly 2016 <sup>1</sup> showing the need to combine health and social care, prevention and public health for better management of NCDs. Wagner's chronic care mode and its many adaptions provide an organisational frame- work for NCD care organisation. OptiMedis has shown the economic and health impact of population based integrated care programs in urban and rural settings. The particular value of the JADECARE exercise in Strasbourg is certainly the transformation of that evidence into local practice and the use of routine data for evaluating its effects. Pro- posed elements of JADECARE have entered the 5-year local health contract (CLS, contrat local de santé) of Strasbourg, signifying that population based integrated care will continue in Strasbourg after the end of its implementation phase. Elements of prevention and integrated care are part of the newly founded Strasbourg network of health professionals (CPTS) and continue to be part of TSD. COVID-19 has had its impact on JADECARE implementation pace also in Strasbourg, with the lack of physical meetings on one side and the work overload for health care and public health providers on the other. The limited interest of health care providers to engage in new collab- orative forms of work and a more active exchange of patient data might also be a factor. However, the JADECARE program has shown how French national policies can be put into lo- cal practice and opened discussions on how to overcome sectoral boundaries
Limitations	Contextualisation of the oGP into local good practice is a major challenge. The OptiMedis oGP has been developed within a German context, its health insurance system and access to patient data. Health care data are not available in the same way in France, particularly for ambulatory care. The shared savings contract used by OptiMedis is based on efficiency gains and better health for a given population through. Two major advantages are incorporated in this model: The transformation of care delivery towards the "production" of health comes at no additional cost and the "local integrator" as part of the system provides the necessary incentives for change. This approach Is not easily transferrable to the French health system. However, the tools used for evaluating transformation effects are very valuable to guide the development of complementary services such as sports on prescription, patient pathways and others provided that the interventions cover a sufficiently large population. A way to overcome sectoral boundaries and also to access patient data might be the development and systematic implementation of patient pathways for chronic care patients bridging the sectoral barriers of hospital care – rehabilitation – primary care – medico-social care and community health. Works have started within the JADECARE project and will be completed in the next months. Digital support is essential for population based integrated care. There is a consistent national strategy on e-health and digitisation in health, but implementation is still fragmented. Particularly the interface between physician software and the new tools is complex. Whereas hospital networks (groupement hospitalier de territoire GHT) have established systems to share patient

<sup>&</sup>lt;sup>1</sup> <u>https://apps.who.int/gb/ebwha/pdf\_files/WHA69/A69\_39-en.pdf?ua=1&ua=1</u>





	data, this is not the same within ambulatory care or between hospital and ambulatory care. More work needs to be done in this field.
Conclusions	<ul> <li>JADECARE has certainly opened a door for sharing best practices in population based integrated care. Communication between project partners, the participation in thematic workshops and stakeholder conferences has opened new perspectives. The contextualisation of the OptiMedis oGP, although delayed, has shown new ways of implementing the French national health strategy with many practical examples. Within TSD work on the implementation in Strasbourg will continue and the experience will probably be spread in other TSD geographic areas.</li> <li>Next steps will be: <ul> <li>accessing national health data based to improve analytical basis for the evaluation of health and preventive care interventions</li> <li>design and implementation of patient pathways</li> <li>explore mechanisms for patient data sharing across provider networks (GHT)</li> </ul> </li> </ul>
Other infor- mation	Answer
Funding	<ul> <li>In parallel to the EU JADECARE programme, which mainly funds the exchange of expertise, local activities are funded by <ul> <li>the City and Eurométropole of Strasbourg for the sports on prescription program</li> <li>The national TSD grand for a variety of subprojects, which are partly linked to the implementation of the LGP</li> <li>the local health contract (CLS), not yet signed</li> </ul> </li> <li>These funding sources will amongst others guarantee the sustainability and further development of the JADECARE achievements</li> </ul>

# The Viljandi hospital, Estonia (VH)

# Pre-implementation

# Scope definition

# Identified and prioritized needs

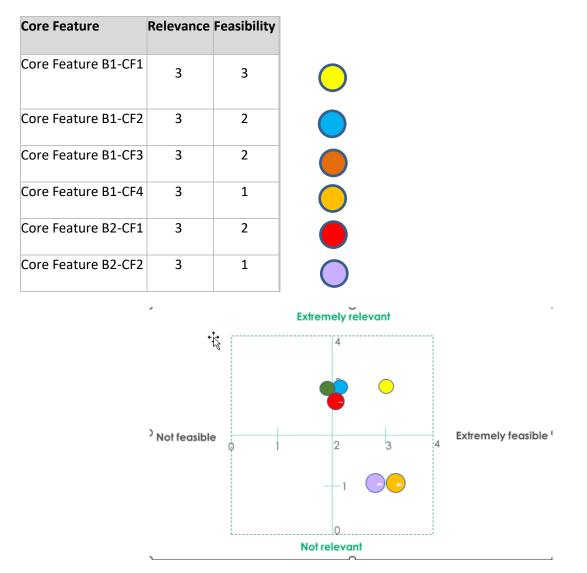
Block	Needs (grouped)
Overall coordination and in tegration strategy	Agreeing common goals and measures for improving coordination and integration (need 1 and 2)
	Establishing an action plan for improving coordination and integration and moni- toring the progress(need 3 and 4)
Understanding the needs or local populations	Case finding and risk stratification (need 5)
	Needs assessment, care planning and monitoring interventions (need 6 and 7)
	Monitoring the interventions on population level, developing population needs profiles and identifying prioritization areas (need 8 and 9)
Incentivising cooperation coordination and integra- tion	Supporting cooperation culture, including management level support (need 10 and 11)
	Improving role-clarity across different pathway phases (need 12).





	Ensuring that funding models are lined with overall coordination goals and there is funding for missing (but needed) coordination roles (needs 13 and 14).
Better use of data	Sharing relevant case level data across case network (need 15)
	Using secondary data for planning, development and policy (need 16, 17, 18 and 19)
Coordination measures	Collecting patient and provider reported feedback (need 20 and 21)
	Using secondary measures to assess the effectiveness of coordination regionally and nationally (need 22 and 23)
New care pathways	Identifying critical care pathways and understanding the shortcomings in current processes (need 24 and 25)
	Developing, testing and implementing wholistic person-centred care pathways with all stakeholders equipped and motivated to fulfil their roles in pathways (need 26, 27, 28 and 29)

#### **Assessment of Core Features**







#### **Final Core Features selected**

Core Feature B1-CF1:	Identifying current contractual arrangements and assessing possibilities for value-based contracting
Core Feature B1-CF2:	Defining data standards and appropriate outcome measures
Core Feature B1-CF3:	Designing the valued-based payment framework
Core Feature B2-CF1:	Identifying and liaising with stakeholder groups

# Situation analysis

#### **Risk stratification**

F	Strengths	Weaknesses
Internal	<ul> <li>Digital infrastructure to support integrated care are piloted but there is not yet region-wide coverage.</li> <li>Some integrated care initiatives and services are evaluated as part of a systematic approach.</li> <li>Innovations are captured and there are some mechanisms in place to encourage knowledge transfer.</li> <li>management level support for coordination goals</li> </ul>	<ul> <li>Risk stratification not started</li> <li>Need 2. Linking relevant measures to common goals</li> <li>Need 9. Development of populations needs profiles and identifying prioritization areas</li> <li>Need 13. Payment for new coordination roles (e.g., network managers, care coordinators etc.)</li> </ul>
	<ul> <li>Opportunities</li> <li>Consensus-building underway. Experimenting different funding models/components.</li> </ul>	<ul> <li>Threats</li> <li>Lack of agreed technical standards exists to enable shared procurement of new systems, some large-scale consolidations of ICT are underway.</li> </ul>
<u>External</u>	<ul> <li>Some standardised coordinated care processes are underway; guidelines are used, some initiatives and pathways are formally described, systematic approach is planned.</li> <li>Coordination of social care service an d health care service needs is introduc ed.</li> <li>Cooperation on capacity building for i nte-grated care is growing across the region.</li> <li>Patient level information on services, sick leaves, prescriptions, medical devices</li> </ul>	<ul> <li>Consolidated and coordinated innovation funding not available through competitions/grants for individual care providers and small-scale implementation.</li> <li>No systematic approach to inhibitors and their management in place.</li> <li>Need 1. Agreeing common goals for improving coordination and integration</li> <li>Ensuring that funding models are lined with overall coordination and integration goals</li> <li>Need 13. Payment for new coordination roles (f.ex network managers, care coordinators etc)</li> <li>Lack of digital infrastructure cross-used by all</li> </ul>





#### **Strategic Intervention Areas**

Strategic intervention area	Priority score (1 to 3)	Rank- ing
Continue cooperation in the provision of integrated and coordinated services - develop networking and coordinated service provision in the region in cooperation with partners in		
the health and care sector, including the conclusion of cooperation agreements	2	4
Actively participate in national initiatives on the development of coordinated care pro- cesses and their funding models	3	3
Start risk stratification and profiling the needs of the population in the region	3	2
Launch a cross-sectoral discussion to ensure the consistency of the funding model with the		
overall coordination and integration objectives	3	1
Ensure continued support at management level for coordination objectives	1	5

#### Definition of the LGP and LAP

#### **Local Good Practice**

Local Good Practice	A funding model for person-centred and integrated services		
Target population	Setting(s)		
~50 000	Viljandi county		
Main aim			
Prepare a funding model co	oupled with risk stratification model to be implemented in Viljandi county .		

Outcomes	Local Core Features and their Components	Inputs
<ul> <li>Cooperation between Viljandi Hospital and other service providers is carried out</li> <li>IT tools supporting inte- grated care funding mod- elling and risk stratifica- tion</li> <li>Funding model has been proposed in integrated care provision in Viljandi county</li> <li>Assesment feasibility of nationwide implementa- tion of oGP-s</li> </ul>	<ul> <li>Risk stratification model</li> <li>Case finding</li> <li>Value-based contracting and payment framework</li> <li>Analytical model to exe- cute the contract</li> </ul>	<ul> <li>Assessment of transferability of Optimedis framework</li> <li>Assessment of transferability of risk stratification and case finding tools</li> <li>Identification of steps for adoption of the Catalan populationbased risk stratification tool into the ecosystem of the next adopter</li> </ul>

#### **General description**

Generating predictive model is needed in order to strengthen population health management and provide better-tailored services for risk groups. Contracting and funding models developed are lined with personcentred and integrated services.





#### **Local Core Feature 1**

Develop a risk stratification approach based on AMG.

#### Local Core Feature 2

Valued-based payment framework.

### **Local Core Feature 3**

Analytical model to execute the contract.

#### **Local Action Plan**

**Local Good Practice** A funding model for person-centred and integrated services

#### Main aim

Prepare a funding model to be implemented in Viljandi county together with the operational programme.

Related original Good Practices and their Core Feature (s)		Mix'n'Match OptiMedis, Catalonian AMG
Local Core Feature 1	Funding mo	odel with analytical framework and risk stratification model

#### **SMART objective**

We will design a contracting and payment framework approach based on OptiMedis that includes Catalonian AMG risk stratification model.

Act	ivities	Actors	Resources	Setting(s)	Timeline	Key Performance In- dicators
•	Create a core group to define the local contracting and pay- ment framework model	<ul> <li>GPs, nurses</li> <li>Hospital doctors and nurses</li> <li>Healthcare planning ex- perts</li> </ul>	<ul> <li>Profes- sionals from dif- ferent set tings</li> </ul>	<ul> <li>GP practices</li> <li>Viljandi Hospital</li> <li>Estonian Ministry of Social Af- fairs</li> </ul>	01.01.2022, 3 months	<ul> <li>Number and pro- file of profes- sionals engaged in the definition of the contract- ing and payment framework ap- proach</li> </ul>
•	Establish criteria for contracting and pay- ment framework	<ul> <li>Healthcare profession- als</li> <li>OptiMedis experts</li> <li>AMG ex- perts</li> </ul>	<ul> <li>Profes- sionals from dif- ferent set tings</li> </ul>	<ul> <li>Viljandi Hos- pital</li> <li>Estonian Ministry of Social Af- fairs</li> <li>EHIF</li> </ul>	02.02.2022 4 months	<ul> <li>List of criteria used for con- tracting and pay- ment framework (Y/N)</li> </ul>
•	Set up the data extrac- tion and	<ul> <li>IT experts</li> <li>Data scientists</li> </ul>	<ul> <li>OptiMediexperts</li> <li>AMG experts</li> </ul>	s • Viljandi Hos- pital	01.01.2022 5 months	<ul> <li>Database creation (Y/N)</li> <li>Technical design (%)</li> </ul>





processing mechanisms	<ul> <li>OptiMedis experts</li> <li>AMG ex- perts</li> </ul>	<ul> <li>IT infra- structure</li> <li>Subcon- tractor for technical develop- ment</li> </ul>		<ul> <li>Functional de- sign (%)</li> </ul>
<ul> <li>Implement case finding and risk stratifica- tion</li> </ul>	<ul> <li>IT experts</li> <li>Data scien- tists</li> <li>OptiMedis experts</li> <li>AMG ex- perts</li> </ul>	<ul> <li>IT infra- structure</li> <li>Subcon- tractor for technical develop- ment</li> </ul>	<ul> <li>Viljandi Hos- pital</li> <li>5 months</li> </ul>	<ul> <li>Case finding and risk stratification tool is im- plemneted (Y/N)</li> </ul>
<ul> <li>Design con- tracting and payment framework</li> </ul>	<ul> <li>GPs,</li> <li>Hospital mgmt</li> <li>OptiMedis experts</li> <li>AMG ex- perts</li> </ul>	<ul> <li>Profes- sionals from dif- ferent set- tings</li> </ul>	<ul> <li>Viljandi Hos- pital</li> <li>Estonian Ministry of Social Af- fairs</li> <li>EHIF</li> <li>01.04.2022</li> <li>5 months</li> </ul>	<ul> <li>Contracting and payment frame- work agreed (Y/N)</li> </ul>
<ul> <li>Assess case finding and risk stratifi- cation based con- tracting and payment framework against es- tablisehed criteria</li> </ul>	<ul> <li>Experts</li> <li>Healthcare profession- als</li> <li>Healthcare planning ex- perts</li> </ul>	<ul> <li>Profes- sionals from dif- ferent set- tings</li> </ul>	<ul> <li>Viljandi Hospital</li> <li>GP practices</li> <li>Estonian Ministry of Social Affiairs</li> <li>EHIF</li> </ul>	Conformance report (Y/N)



#### Implementation

#### 1st PDSA Cycle

#### Plan

			KPIs MEASURE						
Activities (from the LAP)	Actions	Actors	Timeline	KPIs (from the LAP)	Who will collect the data?	When will the data be collected?	How will the data be col- lected?	Targe <sup>.</sup> value	
Create a core group to de- fine the local contract- ing and payment frame- work model	<ul> <li>Reaching core stakeholders agreement</li> </ul>	<ul> <li>GPs, nurses</li> <li>Hospital doctors and nurses</li> <li>Healthcare planning experts</li> </ul>	01.01.22- 31.01.22	<ul> <li>Number and profile of pro- fessionals engaged in the definition of the contracting and payment framework ap- proach</li> </ul>	-ject man-	<ul> <li>On stake- holder's meetings</li> </ul>	<ul> <li>Registration forms</li> </ul>	• 5	
	• Expanding and agreeing with key stakeholders	<ul> <li>GPs, nurses</li> <li>Hospital doctors and nurses</li> <li>Healthcare planning experts]</li> </ul>	01.02.22- 28.02.22						
	<ul> <li>Agreeing on all stakeholder's letter of intent of Viljandi county</li> </ul>	<ul> <li>GPs, nurses</li> <li>Hospital doctors and nurses</li> <li>Healthcare planning experts]</li> </ul>	01.03.22- 31.03.22						
Establish criteria for con- tracting and payment framework	<ul> <li>Introduction and creating possible scenar- ios</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> </ul>	02.02.22- 28.02.22	•List of criteria used for con- tracting and payment frame- work (Y/N)	•	• On work- shop 4	<ul> <li>Agreement</li> </ul>	• Ye	:S
	<ul> <li>Agreeing roadmap</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> </ul>	01.03.22- 31.03.22						
	• Defining alter- natives	• Experts	01.04.22- 30.04.22						







		Healthcare profes- sionals						
	<ul> <li>Concluding agreement</li> </ul>	<ul><li>Experts</li><li>Healthcare professionals</li></ul>	01.05.22- 31.05.22					
and processing mecha- nisms extra ing ( ing t quire Phas • Im crem extra ing ( 2 • Im crem extra ing ( 2 • Im crem extra ing ( 3 • Im crem extra ing ( 4 • Im crem extra ing ( 1 • Im crem extra ing ( 1	• Improving in- crementally data extract and load- ing (ETL) accord- ing to model re- quirements - Phase 1	<ul><li>IT experts</li><li>Data scientists</li></ul>	01.03.22- 31.01.22	<ul> <li>Database creation (Y/N)</li> <li>Technical design (%)</li> <li>Functional design (%)</li> </ul>	<ul> <li>VH pro- ject man- ager</li> </ul>	Phase 5 data	<ul> <li>Phase 5 re- port on data ex- tract and loading</li> </ul>	
	<ul> <li>Improving in- crementally data extract and load- ing (ETL) - Phase</li> <li>2</li> </ul>	<ul><li>IT experts</li><li>Data scientists</li></ul>	01.02.22- 28.02.22					
	<ul> <li>Improving in- crementally data extract and load- ing (ETL) - Phase 3</li> </ul>	<ul><li>IT experts</li><li>Data scientists</li></ul>	01.03.22- 31.03.22					
	<ul> <li>Improving in- crementally data extract and load- ing (ETL) - Phase 4</li> </ul>	<ul><li>IT experts</li><li>Data scientists</li></ul>	01.04.22- 30.04.22					
	<ul> <li>Improving in- crementally data extract and load- ing (ETL) - phase</li> <li>5</li> </ul>	<ul><li>IT experts</li><li>Data scientists</li></ul>	01.05.22- 31.05.22					
Implement case finding and risk stratification	<ul> <li>Gathering and systematising</li> </ul>	<ul><li>IT experts</li><li>Data scientists</li></ul>	01.4.22- 30.4.22				<ul> <li>Published lo- cal case finding</li> </ul>	• Yes





	LAP specific in- formation and planning further action based upon agreed roadmap			• Case finding and risk stratifi- cation tool is imple- mented (Y/N)	<ul> <li>VH pro- ject man- ager</li> </ul>	case finding and risk stratification framework	and risk stratifi- cation frame- work	
	<ul> <li>Drafting local case finding and risk stratification framework</li> </ul>	<ul><li>IT experts</li><li>Data scientists</li></ul>	01.05.22- 31.5.22					
	• Drafting local case finding and risk stratification framework	<ul><li>IT experts</li><li>Data scientists</li></ul>	01.06.22- 30.06.22					
	<ul> <li>Agreeing on lo- cal case finding and risk stratifi- cation frame- work</li> </ul>	<ul><li>IT experts</li><li>Data scientists</li></ul>	01.08.22- 31.08.22					
Design contracting and pay- ment framework	<ul> <li>Gathering and systematising LAP specific in- formation and planning further action based upon agreed roadmap</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> <li>Healthcare planning experts</li> </ul>	01.4.22- 30.4.22	<ul> <li>Contracting and payment framework agreed (Y/N)</li> </ul>	<ul> <li>VH pro- ject man- ager</li> </ul>	lishing local	<ul> <li>Published lo- cal contracting and payment framework</li> </ul>	• Yes
	<ul> <li>Drafting local contracting and payment frame- work</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> <li>Healthcare planning experts</li> </ul>	01.05.22- 31.5.22					
	<ul> <li>Improving local contracting and</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> </ul>	01.06.22- 30.06.22	-				





	payment frame- work	<ul> <li>Healthcare planning experts</li> </ul>						
	<ul> <li>Agreeing on lo- cal contracting and payment framework</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> <li>Healthcare planning experts</li> </ul>	01.08.22- 31.08.22					
Assess case finding and risk stratification based con- tracting and payment framework against estab- lished criteria	<ul> <li>Introducing preliminary re- port and gather- ing feedback</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> <li>Healthcare planning experts</li> </ul>	01.09.22- 30.09.22	•Conformance report (Y/N)	lishing stake- holders con- tracting and	<ul> <li>Published stakeholders contracting and payment frame- work model</li> </ul>	• Yes	
	<ul> <li>Introducing improved report and gathering feedback</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> <li>Healthcare planning experts</li> </ul>	01.10.22- 31.10.22		framework model agree- ment	agreement		
	<ul> <li>Introducing agreement draft and gathering feedback.</li> <li>Finalizing re- port and agree- ment</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> <li>Healthcare planning experts</li> </ul>	01.11.22- 30.11.22					





#### Do

Cycle number (1 or 2)	1	
Activity	КРІ	Actual value
Create a core group to define the local contract- ing and payment framework model	<ul> <li>Number and profile of professionals engaged in the definition of the contracting and payment framework approach</li> </ul>	5
Establish criteria for contracting and payment framework	•List of criteria used for contracting and payment framework (Y/N)	Y
Set up the data extraction and processing mecha- nisms	<ul> <li>Database creation (Y/N)</li> <li>Technical design (%)</li> </ul>	Y 100%
	•Functional design (%)	100%
Implement case finding and risk stratification	• Case finding and risk stratification tool is imple- mented (Y/N)	
Design contracting and payment framework	<ul> <li>Contracting and payment framework agreed (Y/N)</li> </ul>	
Assess case finding and risk stratifica- tion based contracting and payment frame- work against established criteria	• Conformance report (Y/N)	

QUESTIONS	ANSWERS
What was actually im- plemented? Any devia- tion from the planned actions	Health care professionals from primary care & hospital care are engaged (GPs, specialist doctors, RN both family nurses and hospital and home care nurses, social workers, data manger), planned no (5) was exceeded for synergy of combined expertise. There is a list of criteria of the contracting and payment framework ap- proach created. Database is created and design requirements for technical and func- tionality fulfilled.
Problems? Unexpected findings? Please de- scribe	Due to current situation in health care has slowed down the planned activities, meetings have been held, plans expanded and agreed with key stakeholders dis- cussed.

IMPLEMENTATION PROGRESS OF THE LOCAL GOOD PRACTICE							
0-25%	25-50% 50-75% 75-100%						
	Х						

#### Study

Cycle number (1or 2)





KPI	Target value (from PLAN)	value	the devia-	actions im-	of miti-
•Number and profile of pro- fessionals engaged in the definition of the con- tracting and payment framework approach	5	5	No deviations		
<ul> <li>List of criteria used for con- tracting and payment framework (Y/N)</li> </ul>	·Y	Y	No deviations		
<ul> <li>Database creation (Y/N)</li> <li>Technical design (%)</li> <li>Functional design (%)</li> </ul>	Y	Y 100% 100%	No deviations		
<ul> <li>Case finding and risk strati- fication tool is imple- mented (Y/N)</li> </ul>	Y				
<ul> <li>Contracting and payment framework agreed (Y/N)</li> </ul>	Y				
•Conformance report (Y/N)	Y				
	<ul> <li>Number and profile of professionals engaged in the definition of the contracting and payment framework approach</li> <li>List of criteria used for contracting and payment framework (Y/N)</li> <li>Database creation (Y/N)</li> <li>Technical design (%)</li> <li>Functional design (%)</li> <li>Case finding and risk stratification tool is implemented (Y/N)</li> <li>Contracting and payment framework agreed (Y/N)</li> </ul>	<ul> <li>Number and profile of professionals engaged in the definition of the contracting and payment framework approach</li> <li>List of criteria used for contracting and payment framework (Y/N)</li> <li>Database creation (Y/N)</li> <li>Technical design (%)</li> <li>Functional design (%)</li> <li>Case finding and risk stratification tool is implemented (Y/N)</li> <li>Contracting and payment</li> </ul>	value (from DO) PLAN)value (from DO) PLAN)•Number and profile of pro- fessionals engaged in the definition of the con- tracting and payment framework approach5•List of criteria used for con- tracting and payment framework (Y/N)Y•Database creation (Y/N) •Technical design (%)Y•Case finding and risk strati- fication tool is imple- mented (Y/N)Y•Contracting and payment framework agreed (Y/N)Y	value (from PLAN)value (from DO)the devia- tions•Number and profile of pro- fessionals engaged in the definition of the con- tracting and payment framework approach55No deviations•List of criteria used for con- 	Value (from DO)Value (from DO)the devia- tionsactions im- plemented•Number and profile of pro- fessionals engaged in the definition of the con- tracting and payment framework approach55No deviations•List of criteria used for con- tracting and payment framework (Y/N)YYNo deviations•Database creation (Y/N) •Functional design (%)YYNo deviations•Case finding and risk strati- fication tool is imple- mented (Y/N)YYNo deviations•Contracting and payment framework agreed (Y/N)YIolo%Iolo%•Contracting and payment framework agreed (Y/N)YIolo%Iolo%

# Cycle number (1 or 2)

Cycle number (1 or 2)	1		
Activity	Main-	Adapt	
	tain		don
Create a core group to define the local contracting and payment framework model	Х		
Establish criteria for contracting and payment framework	Х		
Set up the data extraction and processing mechanisms	Х		
Implement case finding and risk stratification	Х		
Design contracting and payment framework	Х		
Assess case finding and risk stratification based contracting and payment frame-	Х		
work against established criteria			

QUESTIONS	ANSWERS
Any new proposed ac-	oGP expertise is present and available; national stackeholders are interested;
tion for the future?	discussions are in place to define synergies between partners and opportunities

4



## 2nd PDSA Cycle

#### Plan

LCF1	Develop a funding • Risk stratificatio • Case finding • Value-based co • Analytical mode	on model	ayment fra	<b>d and integrated services</b> : mework				
								1
Activities (from the LAP)	Actions	Actors	Timeline	KPIs (from the LAP)	Who will col- lect the data?	When will the data be col- lected?	How will the data be collected?	Target value
Create a core group to de- fine the local contract- ing and payment frame- work model	<ul> <li>Reaching core stake- holders agreement</li> </ul>	<ul> <li>GPs, nurses</li> <li>Hospital doctors and nurses</li> <li>Healthcare planning ex- perts</li> </ul>	31.01.22	<ul> <li>Number and profile of professionals engaged in the definition of the con- tracting and payment framework approach</li> </ul>	-	<ul> <li>On stake- holder's meet- ings</li> </ul>	<ul> <li>Registration forms</li> </ul>	• 5
	<ul> <li>Expanding and agreeing with key stakeholders</li> </ul>	<ul> <li>GPs, nurses</li> <li>Hospital doctors and nurses</li> <li>Healthcare planning ex- perts]</li> </ul>	28.02.22					
	<ul> <li>Agreeing on all stakeholder's letter of intent of Viljandi county</li> </ul>	<ul> <li>GPs, nurses</li> <li>Hospital doctors and nurses</li> <li>Healthcare planning ex- perts]</li> </ul>	31.03.22					







Establish criteria for con- tracting and payment framework	<ul> <li>Introduction and creating possible scenarios</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> </ul>	02.02.22- 28.02.22	•List of criteria used for contracting and pay- ment framework (Y/N)	<ul> <li>VH project man-</li> </ul>	On workshop	Agreement	• Yes
	<ul> <li>Agreeing roadmap</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> </ul>	01.03.22- 31.03.22		ager			
	<ul> <li>Defining alternatives</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> </ul>	01.04.22- 30.04.22	_				
	<ul> <li>Concluding agreement</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> </ul>	01.05.22- 31.05.22					
Set up the data extraction and processing mecha- nisms	• Improving incrementally data ex- tract and loading (ETL) according to model requirements - Phase 1	<ul> <li>IT experts</li> <li>Data scientists</li> </ul>	01.01.22- 31.01.22	•Technical design (%) •Functional design (%)	man-		5 • Phase 5 report • d on data extract • and loading •	<ul><li>Yes</li><li>%</li></ul>
	• Improving incrementally data ex- tract and loading (ETL) - Phase 2	<ul> <li>IT experts</li> <li>Data scien- tists</li> </ul>	01.02.22- 28.02.22		ager			
	• Improving incrementally data ex- tract and loading (ETL) - Phase 3	<ul> <li>IT experts</li> <li>Data scien- tists</li> </ul>	01.03.22- 31.03.22					
	• Improving incrementally data ex- tract and loading (ETL) - Phase 4	<ul> <li>IT experts</li> <li>Data scien- tists</li> </ul>	01.04.22- 30.04.22					
	• Improving incrementally data ex- tract and loading (ETL) - phase 5	<ul> <li>IT experts</li> <li>Data scien- tists</li> </ul>	01.05.22- 31.05.22					
Implement case finding and risk stratification	• Gathering and systematising LAP specific information and planning further action based upon agreed roadmap	<ul> <li>IT experts</li> <li>Data scientists</li> </ul>	01.4.22- 30.4.22	<ul> <li>Case finding and risk stratification tool is im- plemented (Y/N)</li> </ul>	<ul> <li>VH project man- ager</li> </ul>	<ul> <li>After publish- ing local case finding and risk stratification</li> </ul>	<ul> <li>Published local case finding and risk stratification framework</li> </ul>	• Yes
	• Drafting local case finding and risk stratification framework	<ul> <li>IT experts</li> <li>Data scientists</li> </ul>	01.05.22- 31.5.22			framework		





Assess proposed case find- ing and risk stratification	<ul> <li>Introducing preliminary report and gathering feedback</li> </ul>	<ul><li>Experts</li><li>Healthcare professionals</li></ul>	01.09.22- 30.09.22	•	<ul> <li>VH</li> <li>project</li> </ul>	<ul> <li>After publish-</li> <li>ing stakeholders s</li> <li>contracting and</li> </ul>		• Yes
	<ul> <li>Improving local contracting and payment framework based on CPTS contracting and payment frame- work</li> </ul>	<ul> <li>professionals</li> <li>Healthcare</li> <li>planning experts</li> </ul>	01.08.22- 31.08.22					
	<ul> <li>Improving local contracting and payment framework</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> <li>Healthcare planning ex- perts</li> </ul>	01.06.22- 30.06.22					
	<ul> <li>Drafting local contracting and payment framework</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> <li>Healthcare planning ex- perts</li> </ul>	01.05.22- 31.5.22					
Design contracting and pay- ment framework	<ul> <li>Gathering and systematising LAP specific information and planning further action based upon agreed roadmap</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> <li>Healthcare planning ex- perts</li> </ul>	01.4.22- 30.4.22	•Contracting and payment framework proposed (Y/N)		· · ·	•	• Yes
	<ul> <li>Agreeing on local case finding and risk stratification framework</li> </ul>	<ul><li>IT experts</li><li>Data scien- tists</li></ul>	01.08.22- 31.08.22					
	• Drafting local case finding and risk stratification framework	<ul> <li>IT experts</li> <li>Data scien- tists</li> </ul>	01.06.22- 30.06.22					





based contracting and pay- ment framework against es- tablished criteria		<ul> <li>Healthcare planning ex- perts</li> </ul>		nger	payment frame- work model agreement	tracting and pay- ment framework model agreement	
	<ul> <li>Introducing improved report and gathering feedback</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> <li>Healthcare planning ex- perts</li> </ul>	01.10.22- 31.10.22				
	<ul> <li>Introducing agreement draft and gathering feedback.</li> <li>Finalizing report and agreement</li> </ul>	<ul> <li>Experts</li> <li>Healthcare professionals</li> <li>Healthcare planning ex- perts</li> </ul>	01.11.22- 30.11.22				





Do

Cycle number (2)		
Activity	КРІ	Actual value
Implement case finding and risk stratification	Case finding and risk stratification tool is implemented (Y/N)	Y
Design contracting and payment framework	Contracting and payment framework agreed (Y/N)	Y
Assess case finding and risk stratification based contracting and payment framework against established criteria	Conformance report (Y/N)	Y

QUESTIONS	ANSWERS
What was actually im-	Case finding and risk stratification tool is used locally, sustainability actions are
plemented? Any devia-	planned to implement the tool at national level (national project "PAIK2022-2025"
tion from the planned	initiated). Contracting and payment framework agreed among the current project
actions	team, discussions with stakeholders done and framework implementation will follow
	over soem tiem of the periode.
Problems? Unexpected	Regarding the contracting and payment framework model implementation on
findings? Please de-	municipality level - the local level stakeholders & collaborative partner active
scribe	involvement is slightly slowed down due to the rised workload related to their usual
	tasks, and the change of contact person; stakeholders contracting and payment
	framework model agreement reporting delayed.

IMPLEMENTATION PROGRESS OF THE LOCAL GOOD PRACTICE					
0-25%	25-50%	50-75%	75-100%		
			X		





#### Study

Cycle number (1or 2)			2				
Activity	КРІ	Target value (from PLAN)	Actual value (from DO)	Reasons for the deviations	Mitigation actions implemented	Impact of miti- gation actions	
Implement case finding and risk stratification	•Case finding and risk stratification tool is implemented (Y/N)	Y	Y	No deviations			
Design contracting and payment framework	•Contracting and payment frame- work proposed (Y/N)	Y	Y	No deviations			
Assess case finding and risk stratification based contracting and payment framework against established criteria	•Conformance report (Y/N)	Y	Y	No deviations			
Act							

Cycle number (2)			
Activity	Maintain	Adapt	Abandon
Activity 1			
Implement case finding and risk stratification	Х		
Activity 2			
Design contracting and payment framework	Х		
Activity 3			
Assess case finding and risk stratification based contracting and payment framework against established criteria	Х		

QUESTIONS	ANSWERS
Any new proposed action for the future?	No completely new activities proposed but some oGP support while ensuring the sustainability (both on regional and
	national level) of already planned and tested activities might be benefitial.



ITEM	ANSWER
Title and Abstr	act
Title	An initiative to generating predictive model in order to strengthen population health management and provide better-tailored services for multimorbidity risk group patients in Estonia.
Abstract	Background: Estonia had a mix and match approach in JADECARE as a next adopter. The implementation of the elements of OptiMedis module and Catalan risk patient identification tool took place in time. The reasoning behind the adapting and implementing process of the chosen elements of original good practices came from having a need for a predictive model in order to strengthen population health management and provide better-tailored services for multi-morbidity patient risk groups in Estonia. Contracting and funding model which facilitates person-centred care provision was seen as something that could potentially help add extra value for those same groups. Estonia entered the project aiming to design a contracting and payment framework approach based on the OptiMedis model and a risk stratification model based on the Catalonian AMG approach. The main aim was to prepare a funding model coupled with risk stratification model to be implemented in Viljandi county. Local problem: Triggers for local good practice were as follows: no frameworks of integrated care provision in the country, value-based contracting practically missing in Estonia, the different payment schemes for hospital and ambulatory care have impact on incentivizing the transformation from case-based care (FFS) to population health-oriented care model. Moreover, the lack of risk stratification and case finding tools to facilitate high risk patient identification for care-management service was planned and established as part of a systematic approach. Target population was elderly with concomitant chronic diseases and social health determinants at a high risk of hospitalization. Key components of service were vertical and horizontal integration, care management, patient-centered care portices. Interventions: Original good practice chosen for the implementation was two-folded: (1) Catalan risk stratification and case finding tool consisting of identifying high risk patients for care management initiatives in the Viljandi county and to predict the needs
Why did you	
start?	Answer
Problem de-	Digital infrastructure to support integrated care was piloted in Estonia but there was not
scription	yet region-wide coverage. Some standardised coordinated care processes were underway;







guidelines used, some initiatives and pathways were formally described. On national level the coordination of social care service and health care service needs was introduced.
Threats considered related to lack of agreed technical standards existing to enable shared procurement of new systems, some large-scale consolidations of ICT were underway. Consolidated innovation funding was not available.
The World Bank project in collaboration with Estonian Health Insurance Fund and the Esto- nian Family Physicians Association started the pilot of risk-stratified care management ap- proach already in 2017. "In Estonia, risk-stratified care management approach was first in- troduced in primary care to provide better help to high-risk patients who usually suffer from several chronic diseases, other accompanying conditions and are at high risk of health status deterioration and increased healthcare utilization. High-risk patient care manage- ment module aimed at creating a tool for family physicians and nurses, which could be used to act proactively in order to avoid the deterioration of the condition of chronically ill patients and to better manage their care process in cooperation with specialized medical care and the social system. The pilot included 96 randomly selected practice lists with more than 2000 patients. More than 70% of family physicians were satisfied with risk-stratified care management and found it a valuable tool to improve the monitoring of chronically ill patients. The results showed that, the care management for chronically ill patients has be- come more patient-centred and the number of visits to family physicians, as well as the number of consultations with family nurses have increased. At the same time, more than half of the physicians admitted that this approach to the care of chronically ill patients re- quires more time. One of the biggest challenges is insufficient cooperation with social as- sistance authorities to support chronically ill patients, who also face socio-economic prob- lems." The PAIK project (2016-2020) is an area-specific support service for providing continuous healthcare and top social services in Viljandi county in Estonia. PAIK is a pilot project initi- ated by Viljandi Hospital and the Ministry of Social Affairs and funded by the Estonian Health Insurance Fund. This project combined health and social care parties for the benefit of people: e.g. family physician, s
Triggers for local good practice were as follows: no frameworks of integrated care provi- sion in the country, value-based contracting practically missing in Estonia, the different payment schemes for hospital and ambulatory care have impact on incentivizing the trans- formation from case-based care (FFS) to population health oriented care model. Moreover, the lack of risk stratification and case finding tools to facilitate high risk patient identifica- tion for care-management service were reasons to encourage the active participation in JADECARE project.
The reasoning to develop and implement the original good practices based on the need of generating a predictive model in order to strengthen population health management and provide better-tailored services for multi-morbidity patient risk groups. Contracting and funding model which facilitates person-centred care provision add extra value.
The ultimate aim was improving the results of the health and quality of life of the popula- tion and increase the efficiency of the healthcare system through better planning and use of resources.





	Estonia entered the project aiming to design a contracting and payment framework ap- proach based on the OptiMedis model and a risk stratification model based on the Catalo- nian AMG approach. The main aim was to prepare a funding model coupled with risk strati- fication model to be implemented in Viljandi county. Local core feature and their components were following: to develop a county wide risk stratification approach based on Catalan AMG, valued-based payment framework and
	analytical model to execute the contract.
What did you do?	Answer
Context	Estonia is a country on the eastern coast of Baltic Sea, total area 45227 km2, population 1.3 mln. The service are of Viljandi hospital is a about ~50 000 people. Type of hospitals in the Estonian Hospital Network Development Plan are as follows: regional, central, general, and local hospitals. We have compulsory solidarity-based health insurance and it is financed mostly from the state budget (social tax) under the health insurance budget through the means of the Estonian Health Insurance Fund and through direct allocations. Viljandi hospital is a general hospital, it consists of 7 clinics, 3 centres, medical and non-medical support services. We have a 3 year experience implementation of integrated care project, called PAIK service pilot. It is crucial to notice that there is no value-based payment models in place resulting in a very fragmented health and social care system and integrated models for taking care of people with complex needs are lacking. Primary care is covered by 30 GPs.
Interven- tion(s)	<ul> <li>Target population is elderly with concomitant chronic diseases and social health determinants at a high risk of hospitalization.</li> <li>Key components of service: vertical and horizontal integration, care management, patient-centered care process.</li> <li>Triggers for Estonian local good practice were as follows: <ul> <li>No frameworks of integrated care provision in the country</li> <li>Value-based contracting so-far missing in Estonia</li> <li>Different payment schemes for hospital and ambulatory care =&gt; impact on incentivizing the transformation from case-based care (FFS) to population health oriented care model.</li> <li>Paucity of risk stratification and case finding tools to facilitate high risk patient identification for care-management services</li> <li>No accountable care organizations in Estonia</li> </ul> </li> </ul>
	<ul> <li>Implementation steps were following:</li> <li>1. A core group to define the local contracting and payment framework model was created</li> <li>2. Criteria for contracting and payment framework was established</li> <li>3. The data extraction and processing mechanisms were set up</li> <li>4. Case finding and risk stratification implemented</li> <li>5. Contracting and payment framework was designed</li> <li>6. Proposed case finding and risk stratification based contracting and payment framework against established criteria were assessed</li> </ul>
	Core group consisted of following specialists: GPs and nurses; hospital doctors and nurses; health care planning experts; social workers, and social work coordinators at municipality level; IT experts, data scientist, ministry representative.
Study of the Interven- tion(s)	*Assessment of transferability of OptiMedis framework, risk stratification and case finding tools, and identification of steps for adoption of the Catalan population–based risk stratification tool in Estonia.





	<ul> <li>Challenges to implementation noted: <ul> <li>Availability of health professional time to dedicate to JADECARE actions</li> <li>Healthcare sector is very conservative</li> <li>Overburdened primary and specialist healthcare system – little time and resources for process improvement and planning</li> <li>Setback in the IT department – change of our hospital medical records system caused loss of important functionality</li> <li>Medical and social support records are not on the same IT platforms in Estonia</li> </ul> </li> </ul>
	<ul> <li>Other barriers of implementation progress: <ul> <li>Changes and ambitions at the local level slow to reach the decision makers on state level</li> <li>Fee-for-service payment model not best suited for integrated care provision and payment models slow to change</li> <li>Doctors do not perceive value of healthcare and the social system co-operation</li> <li>Limited social support system capacity</li> </ul> </li> </ul>
	<ul> <li>Teams changing and constant deficit of the workforce in rural areas</li> <li>Main facilitators were mapped: <ul> <li>Motivated leadership in the region</li> <li>Ministry of Social Affairs and the Health Insurance Fund were interested in integrated care and care pathways implementation</li> <li>Support from IFIC (since 2018) and JADECARE teams</li> <li>For sustainiability, the financial support granted for PAIK 2022-2025 project, funding from the Estonian Health Insurance Fund</li> <li>Strong core team in Viljandi</li> </ul> </li> </ul>
	<ul> <li>Key performance indicators of the Local Action Plan:</li> <li>Case finding and risk stratification tool is implemented</li> <li>Contracting and payment framework agreed</li> </ul>
Measures	Case finding and risk stratification tool is used locally, sustainability actions are planned to implement the tool at national level (national project "PAIK2022-2025" initiated). Contracting and payment framework agreed among the current project team, discussions with stakeholders done and framework implementation will follow over some time of the period.
Analysis	The presented analysis is based on the local action plan and PDSA-cycle, PLAN and STUDY. At the first half of the project period, till June 2022 the following activities with no devia- tions were reached: a core group was created to define the local contracting and payment framework model; the criteria for contracting and payment framework were established and the data extraction and processing mechanisms were set up. By the end of the project period, November 2022, the remaining activities of the local ac- tion plan and PDSA-cycle with no deviations were reached: case finding and risk stratifica- tion tool implemented on local level; the framework of contracting and payment was de- signed, the case finding and risk stratification based contracting and payment frame- work against established criteria were assessed.
What did you find?	Answer
Results	There were no deviations identified related to the PDSA-cycle DO and STUDY-steps on planned actions. No completely new activities were proposed but some oGP support while ensuring the sustainability (both on regional and national level) of already planned and tested activities might be benefitial.





	Regional formation of ACO framework was created and local interests were mapped (e.g. fracture prevention, timely stroke detection and intervention, different addiction treatments). State insurance fund claims databases available and is ready to feed data to the original good practice risk stratification algorithms. Additional regional care pathways are operational (e.g. post-stroke care), and some are still under construction (e.g. osteoporosis, diabetes). Care management functionality is planned for the Estonian central health record (eHealth) system and a front-end solution to our regional providers. Capacity building with care manager educational programs is under way.
What does it mean?	Answer
Summary	To sum up: Regional formation of ACO framework was created and local interests were mapped (e.g. fracture prevention, timely stroke detection and intervention, different ad- diction treatments). State insurance fund claims databases available and is ready to feed data to the original good practice risk stratification algorithms. Additional regional care pathways are operational (e.g. post-stroke care), and some are still under construction (e.g. osteoporosis, diabetes). Care management functionality is planned for the Estonian central health record (eHealth) system and a front-end solution to our regional providers.
Interpretation	Noted above
Limitations	Though all the aims were reached presented in the local action plan, the time factor must be noted. All staff involved, led under the time preassure of their daily job. Regarding the contracting and payment framework model implementation on municipality level - the local level stakeholders and collaborative partner active involvement is slightly slowed down due to the rised workload related to their daily tasks, and the change of contact person; stakeholders contracting and payment framework model agreement reporting de- layed.
Conclusions	Case finding and risk stratification tool is used locally, sustainability actions are planned to implement the tool at the national level project initiated and funded by the Estonian Health Insurance Fund.
Other infor- mation	Answer
Funding	In addition to the JADECARE funding, Viljandi hospital provided needed funding to cover additional costs





The German speaking community in Belgium – Dienststelle für selbstbestimmtes Leben (DSL)

# **Pre-implementation**

# Scope definition

#### Identified and prioritized needs

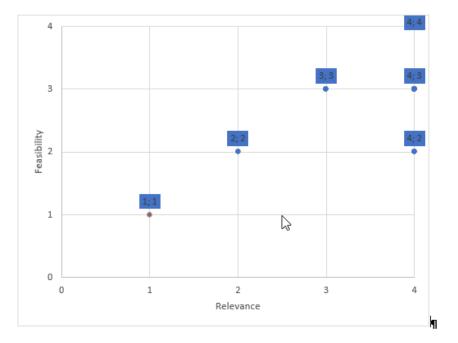
Block	Needs (prioritized)		
B1 Shared savings contract with reimburse-	Appropriate value-based payment framework:		
ment/commissioning organizations	Work out a proposal and negotiate with Federal level		
B2 - A model including strong stakeholder en- gagement	Establish an effective and efficient Governance structure		
B3 - Electronic integration across provider	Assessing current IT integration status Assess tools adequate to improve It integration at local level but also with the federal platforms		
	Training the providers to use these tools		
B4 Patient involvement and empowerment	Use tools of health management for the persons with com- prehensive health checks and health related goals		
B5 Data-driven management	Develop and use performance dashboard and analyse tools to achieve 3 Aim in the region		
B6 – Prevention, health promotion and public health	Use and develop care programmes and individual care plans		

# **Assessment of Core Features**

Core Feature	Relevance	Feasibility
Core Feature 1.1	4	4
Core Feature 1.2	4	3
Core Feature 1.3	4	2
Core Feature 1.4	4	2
Core Feature 2.1	4	4
Core Feature 2.2	4	4
Core Feature 3.1	4	4
Core Feature 3.2	4	4
Core Feature 3.3	4	3
Core Feature 3.4	3	3
Core Feature 4.1	2	2
Core Feature 4.2	4	3
Core Feature 4.3	4	3
Core Feature 4.4	3	3
Core Feature 5.1	4	3
Core Feature 5.2	4	3
Core Feature 5.3	4	4
Core Feature 6.1	4	3
Core Feature 6.2	4	3
Core Feature 6.3	4	4







## **Final Core Features selected**

- CF 1.1 identifying current contractual arrangements and assessing possibilities for value based contracting
- CF 1.2 defining data standards and appropriate outcome measures
- CF 1.3 designing the valued-based payment framework

CF 1.4 constructing the analytical model to execute the contract

- CF 2.1 Identifying and liaising with stakeholder groups
- CF 2.2 Creating appropriate governance structures
- CF 3.1 Assessing state of current health IT integration and IT tools in use
- CF 3.2 Market assessment on tools adequate to improve IT connectivity of providers
- CF 3.3 Training with providers to assess incentives for IT deployment and usability assessment
- CF 3.4 Patient access to their data (Open Notes approach)
- CF 4.1 Patient advisory boards
- CF 4.2 Shared decision making tools and self-management support
- CF 4.3 Comprehensive health checks and health-related goals
- CF 4.4 Providing training on incentives and tools to implement patient centered care
- CF 5.1 Potential analysis tool





- CF 5.2 Performance dashboards
- CF 5.3 FORTA tool to identify over- and underutilization regarding prescriptions
- CF 6.1 Individual treatment plans and care programmes
- CF 6.2 Care planning based on Chronic care model
- CF 6.3 Patient coaching

## Situation analysis

## **STRENGTHS**

- The German speaking Community is generally well positioned to respond to the different needs of the population in the health and social sectors. There are a variety of services that are offered in German, relatively close to home and at low thresholds. These include the two hospital locations, the service providers in the field of home care, the general and specialist practitioners, the nursing homes, the psychiatric services, the health insurance companies, independent health service providers such as physiotherapists, occupational therapists, speech therapists, pharmacists, psychologists, ... as well as more commercially oriented health actors such as fitness studios. In addition, two other important resources can be drawn on locally in the context of integrated care: a strongly developed voluntary and association system in the sports, cultural and social sectors, a high level of (intra-family) solidarity, which is particularly noticeable among caring relatives.
- The inhabitants of the region generally have a high level of health awareness. They do sport regularly, statistically visit the family doctor or a specialist regularly. They thus invest heavily in their own health and thus already seem to intuitively follow a person's course of action in the field of integrated care to a certain extent. As a result, it can also be assumed that

## **WEAKNESSES**

- Generally, waiting lists exist for a variety of services in the health sector. These do not only concern specialist treatments but are also found in some therapeutic areas such as physiotherapy or psychiatry. Services are often available to some extent, but insufficiently equipped with the necessary financial and human resources due to a shortage of professionals and/or the federal quota systems applicable in some areas. Accordingly, in some areas, due to language and geographical location in a border region, there is a clear shortage of skilled personnel in hospitals (skilled personnel with certain specialisations) and in the nursing professions, which is likely to increase, for example, due to an ageing population (already noticeable, among others, among GPs). This leads to overloads, which must be considered when setting up a system of integrated care.
- On the other hand, other existing services are often not sufficiently taken up by patients. Here, it is important to improve demand-oriented utilisation through the existence of an improved matching system.
- The great fragmentation of the service provid-ers, especially in relation to their relatively small size, makes it difficult to professionalise cooperation and exchange among them; not because there is no willingness to do so, but because aspects such as structural cooperation or project work are at the expense of the operational work of these services. Due to the geographical and demographic division of the area, there is also an unintentional imbalance in services between



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they will participate in an integrated care model.

- The service providers have known each other for many years. Due to the competence of the German-speaking Community in parts of the health, elderly and social sectors, there has already been an intensive exchange between the providers and the Community bodies for a long time. In the course of this, knowledge has already been gathered and approaches developed for many years, which the project can now draw on in the context of integrated care. At the same time, this allows for improved coordination and resource conservation between the federal responsibilities and those of the community.
- The service providers in the region are willing and have the necessary experience to invest in innovative projects to further develop local services, to better coordinate them, to link them with each other or to go completely new ways in the development of support models for people with different support needs. In this context, reference can be made to the participation of some of some partners of the Next Adopters Working Group, within the framework of federal projects, have supported and been responsible for the emergence and further development of the coordination centre for domestic support. The Service for Self-determined Living. ensures since 2018 case management for senior citizens and persons with disabilities.
- Due to its proximity to the border and the linguistic specificity in the German speaking Community, there are structured cooperation with Belgian and German partners in the field of health care. The existing corporations work well and enable health care to be provided to the local population in line with their needs. These existing corporations also enable better cooperation when it comes to bringing about a paradigm shift towards integrated health care

the north and south of the German speaking Community, which some of the services try to compensate by having several locations or mobile services.

- There is a clear risk of increasing loneliness (especially among older people) due to lack of mobility. Here, too, the geographical situation of a rural region with smaller villages and insufficient public transport linking them to the (not only medical) centres of Eupen and St.Vith play a role. This is a weak point in the health system of the German speaking Community, especially when it comes to the use of inpatient or local services.
- There are not enough professional integration opportunities for mentally ill people in the project area, partly due to the fact that there are too few places in vocational rehabilitation for this target group.
- The data situation in the project area is currently incomplete. For example, there is a lack of information on the functioning of the sector, on the health status of the inhabitants or on specific illnesses, all of which would be necessary to ensure a system of integrated care that is best adapted to needs and possibilities in the long term.
- The information on health programmes and health campaigns in Belgium is mostly not available in German, which makes it difficult to inform the population.





	<ul> <li>in the sector. The service providers in the German speaking Community are used to cooperating and inspiring beyond their own sphere of interest and catchment area.</li> <li>In the framework of a previous integrated care project from 2016 to 2018) the DSL had already regular contacts and exchanges with the Optimedis AG. The purpose of this previous project was already to implement an integrated care model in the region, which was inspired by the Optimedis one.</li> </ul>	
	OPPORTUNITIES	THREATS
EXTERNAL	<ul> <li>In the framework of the JADECARE project there could and should be a cooperation with stakeholders around Europe and in particular with Optimedis to implement the best practice Model of integrated care which suits the best to the region, due to the similarities between the regions of Kinzigtal and the German speaking Community in terms of population size, geography and language. The collaboration with Optimedis is a great opportunity to implement integrated care in the German speaking Community.</li> <li>The cooperation with Optimedis in the framework of JADECARE can also be an opportunity to overcome the regulatory and legal hurdles to the implementation of integrated care. Optimedis can support the stakeholders to undergo the negotiations with the federal level and especially with the Belgian National Institute for Health and Disability Insurance to develop a regulatory and legal framework that allows the implementation of an Optimedis like integrated care model in the German speaking community.</li> <li>Due to the COVID-19 crisis there is a greater awareness on the political level of the need to invest in the future of healthcare. This awareness is present on the federal and regional level and the different governments have committed to</li> </ul>	<ul> <li>Since the service providers in the health sector are already working to full capacity, this project could place too much strain on the partners and thus limit their willingness to participate and invest. Accordingly, the additional services to be provided must contribute to relieving the burden on these partners. Also due to the current COVID-19 crisis many of the partners have other priorities for the moment.</li> <li>Due to the lack of data for the health sector in the project region, the evaluation of the measures could prove to be difficult. There is also a risk that the data available so far will lead to a misjudgement of the situation on the ground and thus wrong priorities will be set in a first phase.</li> <li>A project of this kind entails a certain risk for all those involved, since in a first step a financial and personnel investment is demanded of all those involved, which will only pay off at a later stage. The financing of the project must be secured, otherwise it is not possible to implement measures for integrated care in the project region.</li> <li>In the framework of the implementation of the Optimedis Model of integrated care in the Geman speaking Community and especially concerning the implementation of the different blocks and core features we will have to cope with the Belgian federal legislation. This could be challenging especially concerning the implementation of the implementation of the momentation of the measures for integrated care in the project must be second to the ground and core features we will have to cope with the Belgian federal legislation. This could be challenging especially concerning the implementation function for the momentation of the momentation of the momentation of the measures for integrated care in the project must be second core features we will have to cope with the Belgian federal legislation. This could be challengin</li></ul>





tation and development of a Shared savings conundertake huge investments in the coming years. These commitments represent an tract with reimbursement/commissioning organopportunity also for the implementation of izations (statutory health insurance company), integrated care in the region. The Governthe electronic integration across providers and ment of the German speaking Community data-driven management. So in cooperation already stated that It will support the imwith Optimedis the NAWG hopes that we can plementation of the integrated care in the build an integrated care model that can one the region and foresee budget to support its hand achieve Triple AIM and other hand be in implementation financially. conformity with Belgian Federal legislation. Belgium has a digital health strategy called "Plan e santé" and the German speaking Community is an active partner in this strategy. In this framework different initiatives have been launched or will be launched to strengthen the digitalization of health, the exchange of health information between providers and access of health data by the patient itself. This could also be beneficial in the process of the implan-

#### **Strategic Intervention Areas**

tation of integrated care.

Strategic intervention area	Priority score (1 to 3)	Ranking
Build an integrated care model that can one the hand achieve Triple AIM and other hand be in conformity with Belgian Federal legislation.	2	1
Lack of health data in the region. Increase the availability of heath data to achieve a data health management and a better matching between the needs and offers in the region	3	2
Lack of human resources especially qualified health personnel. Situation is getting worse due to the ageing of GPs for example and the competition with other neighbouring regions to attract this kind of qualified heath personnel	1	3

## Definition of the LGP and LAP

#### **Local Good Practice**

Local Good Practice	Establish a population based regional integrated care system in the German speaking Community of Belgium based on the OptiMedis model
Target population	Setting(s)





The entire population of the region around 78.000 people	The Regional Health System of the G nity	German speaking Commu-					
Main aim	Main aim						
Establish a population based regional integrated care system in the German speaking Community of Bel- gium based on the OptiMedis model and the Quadruple AIM and considers the regional specificities of the German speaking Community							
Outcomes	Local Core Features and their Components	Inputs					
<ul> <li>Improve the Health situation of the entire population and the quality of care</li> <li>Improved resource efficiency</li> <li>Improve patient satisfaction</li> <li>Improve satisfaction of the healthcare providers</li> </ul>	<ul> <li>Feasibility study on the implementation of integrated care in the German speaking Community</li> <li>Analysis of Secondary Data (Statistics of the region and health indicators)</li> <li>Analysis of Primary Data (Survey from healthcare providers in the region)</li> <li>Exchanges with stakeholders and regional and national political actors to develop a business case based on the evidence gathered</li> <li>Development of a Business plan how can the region become a model region for integrated care. The business case consists of the different components and recommendation to achieve it and a financing plan.</li> <li>Establish a shared savings contract model with reimbursement/commissioning organizations</li> <li>Develop an appropriate shared savings contract model with reimbursement/commissioning organizations Identifying current contractual arrangements and assessing possibilities for valuebased contracting</li> <li>defining data standards and appropriate outcome measures</li> <li>Designing the valued-based pay-</li> </ul>	Funding •IT Staff Access to statistical data •Program managers •Decisionmakers •Alignment of local and national policymakers and local stakeholders •Training and technical assistance •IT systems					
	ment framework						





Constructing the analytical model to execute the contract	
Establish a strong and inclusive governance structure to manage the implementation of the inte- grated care in the German speak- ing Community	

#### **General description**

In cooperation with the original Good Practice, OptiMedis, the Dienststelle aims to carry out a Feasibility study on the implementation of integrated care in the German speaking Community. The aim of the feasibility study is to develop a business plan which will guide the implementation of an integrated care in the German speaking Community. This business plan will include recommendations to the development of a model region of integrated care and a financing plan. Based on the results and recommendation of the feasibility study the Dienststelle in cooperation with the local stakeholders and local and national politics will implement the different core features from the OptiMedis Model considering the local specificities of the German speaking Community.

#### **Local Core Feature 1**

Feasibility study on the implementation of integrated care in the German speaking Community

#### **Local Core Feature 2**

Establish a shared savings contract model with the National Institute for Health and Disability Insurance

#### **Local Core Feature 3**

Establish a strong and inclusive governance structure to manage the implementation of the integrated care

#### **Local Core Feature 4**

Implementation of care programs

#### **Local Action Plan**

Local Good Practice	Establish a population based regional integrated care system in the German speaking Community of Belgium based on the OptiMedis model		
Target population	Setting		
The entire population German speaking Con nity 78.000 people			
Main aim			





Establish a population based regional integrated care system in the German speaking Community of Belgium based on the Optimedis model and the Quadruple AIM and considers the regional specificities of the German speaking Community

#### **General description**

In cooperation with the original Good Practice, OptiMedis, the Dienststelle aims to carry out a Feasibility study on the implementation of integrated care in the German speaking Community. The aim of the feasibility study is to develop a business plan which will guide the implementation of an integrated care in the German speaking Community. This business plan will include recommendations to the development of a model region of integrated care and a financing plan. Based on the results and recommendation of the feasibility study the Dienststelle in cooperation with the local stakeholders and local and national politics will create the conditions and the framework to implement an integrated care model in the German speaking Community in the future.

Related original Good Practices and their Co Feature (s)	Optimedis oGP: CE1112131421223132333441424344
Local Core Feature 1	Feasibility study on the implementation of integrated care in the German speaking Community

#### **SMART** objective

By the begin of 2022 the Dienststelle in cooperation with OptiMedis will have performed a Feasibility study on the implementation of integrated care in the German speaking Community. The timeline for the feasibility study Is from July to December 2021.

Activities	Actors	Resources	Setting(s)	Timeline	Key Performance Indicators
<ul> <li>Mission and goal clarification</li> </ul>	<ul> <li>Experts from the Dienststelle</li> <li>Experts from Opti- medis</li> </ul>	<ul> <li>Experts attending the meet- ing</li> </ul>	<ul> <li>The Re- gional Health System of the German speak- ing Com- munity</li> </ul>	<ul> <li>1 Kick-Off Meet- ing and if needed meetings to up- date the mission and goals</li> </ul>	<ul> <li>Clearly defined the mission and goals of the study</li> <li>Clearly define the roles and expectations of the different actors</li> </ul>
<ul> <li>Secondary data analy- sis</li> </ul>	<ul> <li>Project Manager</li> <li>Health Data analyst</li> <li>Sickness funds</li> </ul>	<ul> <li>Access to statistical data from the insur- ance compa- nies</li> </ul>	<ul> <li>The Re- gional Health System of the German speak- ing</li> </ul>	<ul> <li>In the framework of the study, which is ex- pected to last 6 months</li> </ul>	<ul> <li>The statistical data will be analysed and, on this basis, the current sit- uation of the region and the</li> </ul>





		<ul> <li>Eventu- ally finan- cial re- sources to get ac- cess to the statis- tical data</li> <li>Access to Health studies about the region al- ready per- formed</li> </ul>	Com- munity		potential effi- ciency gains and optimali- sation in the quality of care will be ana- lysed.
<ul> <li>Primary data analy- sis</li> </ul>	<ul> <li>Project Manager</li> <li>Health Data analyst</li> <li>GP and nursing</li> <li>Hospital staff</li> <li>Pharmacists</li> <li>National In- stitute for Health and Disability In- surance</li> <li>Political stakehold- ers</li> <li>Other stake- holders from the NAWG</li> </ul>		<ul> <li>The Re- gional Health System of the German speak- ing Com- munity</li> </ul>	<ul> <li>In the framework of the study, which is ex- pected to last 6 months</li> </ul>	<ul> <li>Assess the sit- uation of the healthcare structures and sector and the willingness to invest in the integrated care initiatives</li> </ul>
<ul> <li>Organisa- tion of Re- gional Health Con- ference</li> </ul>	<ul> <li>Project Manager</li> <li>Experts from Opti- Medis and</li> </ul>	<ul> <li>Expenses to organ- ise a meeting ex: room rent</li> </ul>	<ul> <li>The Re- gional Health System of the German</li> </ul>	<ul> <li>One or if needed several meetings with the different stakeholders in the region with- ing the</li> </ul>	presentation





	•	the Dienststelle GPs and nursing Hospital Staff Sickness in- surances Patient rep- resentatives or patients interest groups Local au- thorities and politics Other local stakehold- ers that might be relevant			speak- ing Com- munity		timeframe of the study		the regional stakeholders
<ul> <li>Develop- ment of a business plan</li> </ul>	•	Project Manager OptiMedis Dienststelle Local politics Other re- gional stake- holders	The de- velop- ment of the busi- ness plan and the feasibility study will cost around 85.000€	•	The Re- gional Health System of the German speak- ing Com- munity	•	In the framework of the study, which is ex- pected to last 6 months	•	A business plan including a financing plan has been developed
Local Core Featu 2 SMART objective		Establish a s Disability Ins	-	ontra	act model v	with	n the National Instit	ute	for Health and

# **SMART** objective

By the end of 2022 a shared saving contract model has been negotiated with National Institute for Health and Disability insurance and the legal basis has been laid down to implement this model. The timeline for this action is January to December 2022.

Activities Actors Resources	Setting(s)	Timeline	Key Performance Indicators
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Develop a shared sav- ings con- tract model which fits in the Bel- gium regu- latory con- text and also meets the interna- tional best practices require- ments of shared-sav- ings con- tract mod- els.     Else	• • •	Dienststelle National In- stitute for Health and Disability In- surance Sickness funds National Health Min- ister and Ministry Regional Health Min- ister Law special- ist Health data analyst Statistics ex- perts	•	Financial resources to allow to imple- ment the shared saving model Access to Health data to analyse and eval- uate the shared saving model	•	The Re- gional Health System of the German speak- ing Com- munity	·	From Begin till end of 2022: Based on the findings of the feasibility the Dienststelle will undergo discus- sion with the Na- tional Institute for Health and Disability Insur- ance and the Re- gional and Fed- eral Political level to establish a shared savings model.	•	A legal and regulatory framework has been es- tablished. This frame- work meets the interna- tional best practices re- quirements of shared savings contract mod- els
3				-		-		Community	_	

# **SMART** objective

By the end of 2022 a strong and inclusive governance structure to manage the implementation of the integrated care in the German speaking Community will be established. The timeline for this action last from February to December 2022. But it is dependent on the negotiation concerning the establishment of the shared saving contract model.

Activities	Actors	Resources	Setting(s)	Timeline	Key Performance Indicators
<ul> <li>Establish a strong effi- cient and coherent Govern- ance struc- ture</li> </ul>	<ul> <li>All stake- holders of the NAWG</li> <li>Legal spe- cialist</li> </ul>	<ul> <li>Stake- holder meetings</li> <li>Legal frame- work to establish</li> </ul>	<ul> <li>The Re- gional Health System of the German speak- ing</li> </ul>	<ul> <li>By the end of 2022 based on the findings and recommenda- tions of the Fea- sibility study a Governance structure that is efficient and con- sistent with the</li> </ul>	<ul> <li>A Governance structure with a clear legal framework has been es- tablished and the role of every partner</li> </ul>





Local a     thoritie     politics	es and ernance	Com- munity	regional stake- holder structure	is clearly de- fined
	<ul> <li>Financial retribu- tion of the par- ticipants for partic- ipating on the stake- holder meetings</li> </ul>			

**Local Core Feature** 

Implementation of test care program

# 4

## **SMART** objective

By the end of 2022 a first care program will be tested with a limited number of patients and limited number of actors. Before such a care program can be implemented the core feature 2 and 3 must fulfilled. In the end of 2022 November- December 2022 earliest timeline possible.

Activities	Actors	Resources	Setting(s)	Timeline	Key Performance In- dicators
<ul> <li>Imple- ment a first test care pro- gram on the basis on find- ings of the feasi- bility study</li> </ul>	<ul> <li>All stake- holders of the NAWG</li> <li>Espe- cially GP and hospi- tals</li> <li>Legal special- ist</li> </ul>	<ul> <li>Define the content of care program</li> <li>Financial retribution of the partici-</li> </ul>	<ul> <li>The Re- gional Health System of the Ger- man speaking Commu- nity</li> <li>Limited number of pa- tients to be de- fined with the stake- holders</li> </ul>	<ul> <li>By the end of 2022 based on the find- ings and recom- mendations of the Feasibility study a first test care pro- gram with a lim- ited range and lim- ited group of pa- tients can be im- plemented to test a integrated care program</li> </ul>	<ul> <li>A care program could be tested and delivered first evidence and best prac- tices that enable the NAWG to im- plement structur- ally the inte- grated care model an pro- grams in the Ger- man speaking Community</li> </ul>



# Implementation

# 1st PDSA Cycle

## Plan

LCF1	Concept Develo	pment for t	he implem	entation of integrated care in the Ge	rman speakin	g Community E	East Belgium				
				KPIs MEASURE							
Activities (from the LAP)	Actions	Actors	Time- line	KPIs (from the LAP)	Who will collect the data?	When will the data be col- lected?	How will the data be collected?	Target value			
Mission and goal clarifica- tion	Kick Off meet- ing	DSL and Opti- Medis	Sept to Oct 2021	Clearly defined the mission and goals of the study Clearly define the roles and ex- pectations of the different actors	Opti- Medis	September 2021	Minutes of the meeting	The mission and goals of the study as well as the roles and ex- pectations of the different actors have been clearly defined.			
Secondary data analysis	Evaluate Health insur- ance data based on a set of agreed cri- teria	OM, DSL	Sept – Dec. 2021	The statistical data will be ana- lysed and, on this basis, the cur- rent situation of the region and the potential efficiency gains and optimalisation in the quality of care will be analysed	DSL pro- vides data, OM does analysis	analysis completed by Dec 2021	analytical report	The statistical data have been analysed and, on this basis, the current situation of the region and the potential efficiency gains and optimalisation in the quality of care are analysed			
Primary data analysis	conduct stake- holder inter- views	OM	Sept – Dec 2021	Assess the situation of the healthcare structures and sector and the willingness to invest in the integrated care initiatives	OM and DSL con- duct in- terviews	Dec 2021	as part of fi- nal report	The situation of the healthcare structures and sector and the willingness to invest in the inte- grated care initiatives have been assessed			







Recommenda- tions for inte- grated care in East Belgium is developed	recommenda- tions based on analysis devel- oped	OM, re- view DSL	Dec 21 to Feb 22	Set of recommendations and pri- orities for integrated care in East Belgium	ОМ	recom- menda- tions avail- able Feb 22	preliminary report and part of final rep	preliminary report available
Concept note and business plan for re- gional integra- tor company	Develop con- cept note and business plan for local inte- grator	OM	Jan - April 2022	The final report including con- cept note and business plan is submitted	OM	April 22	report	report available
Concept note and business plan for re- gional integra- tor company	develop im- plementation plan for inte- grated care in East Belgium	OM, DSL, stake- holders	April- June 22	An agreed implementation plan is available	ОМ	June 22	action plan	plan available





#### Do

Cycle number (1 )	1	
Activity	КРІ	Actual value
Mission and goal clarification	-Clearly defined the mission and goals of the study -Clearly define the roles and expecta- tions of the different actors	The mission and goals of the study as well as the roles and expectations of the different ac- tors have been clearly defined. 100%
Secondary data analysis	The statistical data will be analysed and, on this basis, the current situation of the region and the potential effi- ciency gains and optimalisation in the quality of care will be analysed	The IMA data set are aggregated data. So Op- timedis and the DSL contacted the federal ministry of Health to get hospitalisation and cost data, but these data are also only aggre- gated data.
Primary data analysis	Assess the situation of the healthcare structures and sector and the willing- ness to invest in the integrated care ini- tiatives	Based on stakeholder interviews performed in the frame of a site visit in the end of Septem- ber and subsequent stakeholder interviews through video conferences a set of primary date is collected 100%
Recommenda- tions for inte- grated care in East Belgium is developed	Set of recommendations and priorities for integrated care in East Belgium	Based on the analysis of primary and second- ary data, recommendations for the develop- ment of integrated care in East Belgium are formulated and shared 50%
Concept note and business plan for regional integrator com- pany	The final report including concept note and business plan is submitted	Following the review of recommendations and discussions at high level discussion amongst Belgium stakeholders the final report and concept note including the business plan for setting up a regional integrator entity is available 10%
Implementation Plan for inte- grated care East Belgium devel- oped	An agreed implementation plan is avail- able	Not yet done

QUESTIONS	ANSWERS
What was actually im- plemented? Any devi- ation from the	An intermediate report from December 2021 reports the first intermediate find- ings mainly based on the stakeholder interviews and the literature review.
planned actions	The analysis of primary data was completed in December 2021. A limited analysis of secondary data has been done and made available.





**Problems? Unex-**Lack of individualised pseudonymised data limits the scope analysis and the repected findings? searcher are confronted with limitation of data availability a so the expected re-Please describe sults have not yet been reached. Currently efforts are undertaken to access individualised data from national databases. High ranking consultations are undertaken to decide on the continuation and options for the implementation

IMPLEMENTATION PRO	OGRESS OF THE LOCAL GOO	D PRACTICE	
0-25%	25-50%	50-75%	75-100%
	X		

#### Study

Cycle nur	nber (1)	1				
Activity	КРІ	Target value (from PLAN)	Actual value (from DO)	Reasons for the de- viations	Mitigation ac- tions imple- mented	Impact of mitigation actions
Mission and goal clarifi- cation	Clearly defined the mission and goals of the study Clearly define the roles and expectations of the different actors	The mission and goals of the study as well as the roles and expectations of the different actors have been clearly defined.	The mission and goals of the study as well as the roles and ex- pectations of the differ- ent actors have been clearly de- fined.	/none	/	/
Second- ary data analysis	The statistical data will be an- alysed and, on this basis, the current situa- tion of the re- gion and the potential effi- ciency gains and optimalisa- tion in the quality of care will be ana- lysed	The statistical data have been analysed and, on this basis, the current sit- uation of the region and the potential effi- ciency gains and optimalisa- tion in the quality of care are analysed	The aggre- gated data sets we got from the IMA and the Federal Health Min- istry only al- lows limited analysis. These data do not allow an analysis in depth.	Only ag- gregated data were provided by IMA and the Federal Health Ministry. These data do not al- low an analysis in depth.	The project co- ordinators are planning to sub- mit a request to the committee for security of information to be allowed to get access to in- dividualised pseudonymised data from differ- ent Dataware- house's and data sources to be able to cross these data. The request is cur- rently set up and	Not yet sub- mitted the request





					will be submit- ted as soon as possible.	
Primary data analysis	Assess the situation of the healthcare structures and sector and the willingness to invest in the integrated care initiatives	The situation of the healthcare structures and sector and the willingness to invest in the in- tegrated care initiatives have been assessed	Based on a first range of stake- holder inter- views of September 21 and sub- sequent video con- ferences first findings and recom- mendations concerning the develop- ment of in- tegrated care in East Belgium have been formulated	Neither GP's nor pharma- cists could be present for the first range of inter- views. Also it was subse- quent in- terviews were con- ducted by video calls The inter- view with a member of the cab- inet of the Federal Health Minister has taken place Outstand- ing inter- views are with direc- tor and staff mem- bers of the Hospital of Eupen The pro- ject coor- dinators also felt that an in- terview with offi- cials of the National Institute for Health and Disa- bility In- surance	In the mean- time, an inter- view with 2 co- ordinator of the Team is awaiting the results of discussions be- tween the East Belgium Minister of Health and his federal col- league planed for February 22. The need for fur- ther interviews will be decided afterwards	Thanks to in- terviews the project coor- dinators got a better in- side in the regional and Belgian health sector for example concerning the concept of medical houses and the related lump sum system, Results of in- ter-ministe- rial consulta- tions are awaited





Recom- menda- tions for inte- grated care in East Belgium is devel- oped	Set of recom- mendations and priorities for integrated care in East Belgium	preliminary re- port available	Preliminary report avail- able, based on primary data analy- sis only	Currently no access to individ- ualised data for secondary data anal- ysis	Request for ac- cess to individu- alised data un- der preparation	Rethink the need for in- dividualised data for fur- ther steps.
Concept note and busi- ness plan for regional integra- tor com- pany	The final report including con- cept note and business plan is submitted	report availa- ble	Not yet due			
Imple- menta- tion Plan for inte- grated care East Belgium devel- oped	An agreed im- plementation plan is availa- ble	plan available	Not yet due			

# Act

Cycle number (1 or 2)	1					
Activity	Main- tain	Adapt	Aban- don			
Mission and goal clari- fication	Х					
Secondary data analy- sis		Submit request to the committee for security of information to get access to individualised pseudonymised data, need to think whether this is needed for further steps and if it could be done at a later step in cycle 2				
Primary data analysis	Х	Further interviews with stakeholder ex: Hospital Eupen				
Recommendations for integrated care in East Belgium is developed	X	Preliminary recommendations available				





Concept note and business plan for re- gional integrator com- pany	X	
Concept note and business plan for re- gional integrator com- pany	X	

QUESTIONS	ANSWERS
Any new proposed action for the fu- ture?	The analysis of individualised health insurance data might not be feasible in the first PDSA cycle. If the subsequent steps for cycle 1 are considered feasible without this data, the implementation can continue as planned.





# 2nd PDSA Cycle

#### Plan

	Concept Developr	Concept Development for the implementation of integrated care in the German speaking Community East Belgium							
				KPIs MEASURE					
Activities (from the LAP)	Actions	Actors	Time- line	KPIs (from the LAP)	Who will collect the data?	When will the data be collected?	How will the data be col- lected?	Target value	
Primary data analysis	Complement with focus groups, define topics	OM	Sept – Dec 2022	Assess the situation of the healthcare structures and sector and the willingness to invest in the integrated care initiatives	OM and DSL con- duct in- terviews	Nov-Dec 22	Focus groups	The situation of the healthcare structures and sector and the willingness to invest in the in- tegrated care initiatives have been assessed	
Recommenda- tions for inte- grated care in East Belgium is developed	Update from draft report	OM, re- view DSL	Dec 22 to Feb 23	Set of recommendations and priorities for integrated care in East Belgium	ОМ	recommen- dations available Dec 22	preliminary report and part of final rep	Final report available	
Concept note and business plan for regional integrator com- pany	Update draft concept	OM	Jan 23	The final report including concept note and business plan is submitted	OM	Nov-Dec 22	report	report available	
Implementation Plan for inte- grated care East Belgium devel- oped	develop imple- mentation plan for integrated care in East Bel- gium	OM, DSL, stake- holders	April 23	An agreed implementation plan is available	OM	April 23	action plan	plan available	





#### Do

Cycle number	2	
Activity	КРІ	Actual value
Primary data anal- ysis	Assess the situation of the healthcare structures and sector and the willingness to invest in the integrated care initiatives	Done – secondary data analysis completed, focus group discussions done in December 2022
Recommendations for integrated care in East Belgium is developed	Set of recommendations and pri- orities for integrated care in East Belgium	Report submitted; Validation with Ministry planned in January 2023
Concept note and business plan for regional integrator company	The final report including concept note and business plan is submit- ted	Draft as part of the evaluation report. Concrete structure for regional integrator needs to be de- veloped following the general agreement with regional and national governments – planned for 1 QT 2023
Implementation Plan for integrated care East Belgium developed	An agreed implementation plan is available	Not available

QUESTIONS	ANSWERS
What was actually imple- mented? Any deviation from the planned actions	Analysis of potentials and focus group discussions have been done. Many discussions with local actors on implementation options. Results not validated yet with regional and national authorities.
Problems? Unexpected find- ings? Please describe	Approval process takes time, the federal structure of the Belgian health sys- tem makes joint decisions complex, in the meantime the originally local practice has been "upgraded" to a potential reference case for the national level.

IMPLEMENTATION PROGRESS OF THE LOCAL GOOD PRACTICE					
0-25%	25-50%	50-75%	75-100%		
			X		





## Study

Cycle numb	oer (1)	PDSA 2				
Activity	КРІ	Target value (from PLAN)	Actual value (from DO)	Reasons for the devia- tions	Mitiga- tion ac- tions im- ple- mented	Im- pact of miti- gation ac- tions
Primary data anal- ysis	Assess the situa- tion of the healthcare struc- tures and sector and the willing- ness to invest in the integrated care initiatives	the situation of the healthcare structures and sector and the willingness to in- vest in the inte- grated care initia- tives have been assessed	Done – secondary data analysis com- pleted, focus group discussions done in December 2022	none		
Recom- menda- tions for inte- grated care in East Bel- gium is devel- oped	Set of recom- mendations and priorities for in- tegrated care in East Belgium	preliminary re- port available	Report submitted; Validation with Ministry planned in January 2023	Validation process at various lev- els takes time	Contin- ued con- sulta- tions	
Concept note and business plan for regional integrator company	The final report including con- cept note and business plan is submitted	report available	Draft as part of the evaluation report. Concrete structure for regional inte- grator needs to be developed follow- ing the general agreement with re- gional and national governments – planned for 1 QT 2023	Validation process at various lev- els takes time	none	
Imple- menta- tion Plan for inte- grated care East Belgium devel- oped	An agreed imple- mentation plan is available	plan available	Not available	Will be de- veloped af- ter the vali- dation pro- cess – planned for 2 <sup>nd</sup> quarter 2023		





Act

Cycle number (1 or 2)	PDSA 2		
Activity	Maintain	Adapt	Abandon
Primary data analysis	Х		
Recommendations for integrated care in East Belgium is developed	Х		
Concept note and business plan for regional integrator company	Х		
Implementation Plan for integrated care East Belgium developed	Х		

QUESTIONS	ANSWERS
Any new pro- posed action for the fu- ture?	The following topics should be part of the sustainability strategy: Validation of report and suggested approach, setting up territorial integrator structure, setting up access to data, further develop secondary and tertiary prevention, developing "health programs" and validated patient pathways for chronic care patients, strengthen local networks of health professionals, medico-social workers, communities and preventive care providers, possible setting up of shared savings contract.



# Post-implementation

ITEM	ANSWER				
Title and	Title and Abstract				
Title	Dienststelle für Selbstbestimmtes Leben				
	In the frame of the implementation of the sixth state reform in Belgium The Office of the German- speaking Community for self-determined living (Dienststelle für Selbstbestimmtes Leben) was es- tablished by a decree of 13th December 2016 from the German-speaking Community as a public interest organization financed by the German-speaking Community.				
Ab- stract	<ul> <li>With the decree of 13 December 2016 on the creation of an Office of the German-speaking Community for Self-determined Living , a new chapter has been opened in the shaping of autonomy in the German-speaking Community and a course has been set for the future - particularly in the areas of social affairs and senior citizens, but also in employment and the health sector. This decree regulates the counselling and support of people, giving them the chance to develop themselves, to realise themselves and to give shape to their lives in a self-determined way. People's need for support varies here depending on the person. They are:</li> <li>People who are prevented from participating in society due to an impairment - and regardless of age - and who claim a need for support.</li> <li>Persons who claim a need for support because of their age.</li> <li>Friends, neighbours, and relatives of these persons who fulfil an important role in supporting</li> </ul>				
	the above-mentioned persons.				
Why did you start?	Answer				
Prob- lem de- scrip- tion	In general, it can be said that the health policy aspects of preventive and curative medicine are the responsibility of the Communities. Certain aspects may sometimes also be the responsibility of the regions. Large areas of public health concern, for example all aspects related to health care and medication, sickness and disability insurance or food control, are the responsibility of the federal authorities. Belgian federalism and its asymmetries explain, for the most part, the complex fragmentation of the competences. and the high number of stakeholders currently involved in health management in the broadest sense. The fragmentation of competences is one of the main characteristics of Belgian federalism. A competence rarely resides in its totality in the hands of one entity, many areas are distributed either between the different entities of the same level of power (the three Communities, for example), or even between different levels of power. This complexity is a major challenge for the sustainability and efficiency of the healthcare system in Belgium.				
	Besides, Health care, especially in a rural to semi-urban region such as the German-speaking Com- munity, is facing major challenges that can no longer be solved simply by continuing previous practices but must be tackled anticipatively through innovative concepts. What effects will the looming and in parts already existing shortage of skilled workers, the ageing of the population, the increased incidence of not only chronic diseases and the technical developments in the medi- cal field have on the health status of the people, on health care and on its affordability? Will the				

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necessary health services be available in German and close to home? How can a health system be built, framed, and supported that can cope with these demands? Consequently, the goal must also be to bring about a paradigm shift in health policy - from care to self-determination and equality.

See description above

Sources:

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  - Plan conjoint en faveur des malades chroniques Des soins intégrés pour une meilleure santé https://www.integreo.be/sites/default/files/public/content/plan\_fr.pdf
  - Garantie budgétaire et gains d'efficience du Plan Soins intégrés Choix et recommandations pour le modèle de calcul, AIM – Agence Intermutualiste Dr Karen Geurts El Maâti Allaoui En collaboration avec Prof. Erik Schokkaert Dr Marc Bruijnzeels Prof. Catherine Dehon Traduction : Jérôme Paque À la demande du SPF Santé publique, Sécurité de la Chaîne alimentaire et Environnement Et de l'Institut national d'assurance maladie-invalidité Bruxelles, 2019 https://aim-

ima.be/IMG/pdf/200303 rapport garantie budgetaire. choix et recommandations pour l e modele de calcul 1 .pdf

dge





	<ul> <li>Seniorenpolitisches Gesamtkonzept f ür die Deutschsprachige Gemeinschaft, https://ostbelgienlive.be/PortalData/2/Resources/downloads/senioren/Seniorenpol_Gesamt konzept_2014_180214_KORR_5_kl_2.pdf</li> </ul>			
Ra- tionale	In the field of integrated care the office acted as regional integrator of a pilot project called "Ge- sundes Ostbelgien" from September 2016 to March 2018 within the framework of a federal call for regional projects of integrated care. This pilot project, which included 54 partners from the health, social and sport sector of the German-speaking Community was initially validated by the Belgian federal authorities in December 2017 but had to be discontinued due to legal and admin- istrative problems before it could be implemented. In its government declaration of 21 Septem- ber 2020, the Government of the German-speaking Community announced that it wanted to re- launch the integrated care project "Gesundes Ostbelgien" in the German-speaking Community. -The DSL closely work together with OptiMedis and based its assumptions on the best practices from the OptiMedis Model.			
Specific aims	Establish a population based regional integrated care system in the German speaking Community			
What did you do?	Answer			
Con- text	<ul> <li>Lack of data on the influence of the systematized application of individualized and comprehensive care plans to complex chronic patients in their general health status</li> <li>-Need to improve the disease self-management by patient and their caregivers</li> <li>Unresolved continuity of care between care levels (inter/intra level)</li> <li>Lack of coordination between healthcare and social services</li> <li>-Build an integrated care model that can one the hand achieve Quadruple (or Quintuple) AIM and on the other hand be in conformity with Belgian Federal legislation.</li> <li>Lack of health data in the region. Increase the availability of heath data to achieve a data health management and a better matching between the needs and offers in the region.</li> <li>- Lack of human resources especially qualified health personnel. Situation is getting worse due to the ageing of GPs for example and the competition with other neighbouring regions to attract this kind of multified heath personnel.</li> </ul>			
Inter- ven- tion(s)	tract this kind of qualified heath personnel The entire population of the region around 78.000 people Director of DSL, Project coordinator DSL, Vice Chairman OptiMedis, Project Coordinator Opti- Medis Regional Health Minister and Regional Ministry representatives, representatives of differ- ent Sickness funds in the region, Hospital staff and director, Home aid and home nursing, Sport association, pharmacists, GPs			





	-	Assess the situation of the healthcare structures and sector and the willingness to invest in the integrated care initiatives based on a primary data analysis included in a feasibility study report
	-	-Perform a secondary data analysis based on the available data included in a feasibility study report
Study of the	-	Set of recommendations and priorities for integrated care in East Belgium included in a feasi- bility study report
Inter- ven- tion(s)	-	-Develop a Concept note and business plan for regional integrator company included in a fea- sibility study report
	-	Develop an Implementation Plan for integrated care East Belgium
	-	By the end of 2022 the feasibility study performed with OptiMedis will be available.
	-	-By the end of JADECARE the German speaking Community will have reached all conditions and all components to fully implement an integrated care model based on the OptiMedis model in the region
	-	-Clearly defined the mission and goals of the study
	-	-Clearly define the roles and expectations of the different actors
	-	-Assess the situation of the healthcare structures and sector and the willingness to invest in the integrated care initiatives based on a primary data analysis included in a feasibility study report
	-	-Perform a secondary data analysis based on available data included in a feasibility study report
	-	The statistical data will be analysed and, on this basis, the current situation of the region and the potential efficiency gains and optimalisation in the quality of care will be analysed.
Measur	-	Set of recommendations and priorities for integrated care in East Belgium included in a feasi- bility study report
es	-	Develop a Concept note and business plan for regional integrator company included in a feasi- bility study report
	-	Develop an Implementation Plan for integrated care East Belgium
	-	Discussion and presentation of the results of the first analysis with the regional stakeholders
	-	A legal and regulatory framework has been established.
	-	-This framework meets the international best practices requirements of shared savings con- tract model.
	-	-A Governance structure with a clear legal framework has been established and the role of every partner is clearly defined





	An electronic integrated system has been established In the region			
	The IT integration has been improved and the potential IT gaps has been filled			
	Develop Shared decision-making tools and self-management support			
	Develop and use comprehensive health checks and health-related goals			
	- Training sessions on incentives and tools to implement patient centred care will be provided for professionals			
	- Start to develop and/or use analyse tools and a performance dashboard to achieve the Triple Aim objectives base on reliable data			
	Only aggregated data were provided by IMA and the Federal Health Ministry. These data do not allow an analysis in depth. Request for access to individualised data under preparation			
Analy-	Neither GP's nor pharmacists could be present for the first range of interviews. Also, it was subse- quent interviews were conducted by video calls.			
sis	The interview with a member of the cabinet of the Federal Health Minister has taken place.			
	Some stakeholders, which get an invitation to the focus group could not participate because time constraints or lack of human resources.			
	But nevertheless, a broader inside in the healthcare structures of the region was achieved.			
What did you find?	Answer			
	Only aggregated data were provided by IMA and the Federal Health Ministry. These data do not allow an analysis in depth. Request for access to individualised data under preparation			
	Organization of focus group discussions to have a broader view on the healthcare structures of the region.			
	The following KPI were postponed after the implementation of JADECARE due to time constrains and political decision making constrains:			
Results	A Governance structure with a clear legal framework has been established and the role of every partner is clearly defined.			
	An electronic integrated system has been established In the region			
	The IT integration has been improved and the potential IT gaps has been filled			
	Develop Shared decision-making tools and self-management support-Develop and use compre- hensive health checks and health-related goals			





	Training sessions on incentives and tools to implement patient centred care will be provided for professionals				
	Start to develop and/or use analyse tools and a performance dashboard to achieve the Triple Aim objectives base on reliable data				
	Only aggregated data were provided by IMA and the Federal Health Ministry. These data do not allow an analysis in depth. Request for access to individualised data under preparation				
	To implement some actions there was a need of political discussions taking place between the re- gional and federal level and these discussions took a long time, so some planned actions could not be performed in the timeframe of the JADECARE project.				
What does it mean?	Answer				
	The feasibility study was performed and is available.				
Sum-	Currently no access to individualised data for secondary data analysis. Request for access to indi- vidualised data under preparation. Rethink the need for individualised data for further steps.				
mary	Approval process takes time, the federal structure of the Belgian health system makes joint deci- sions complex, in the meantime the originally local practice has been "upgraded" to a potential reference case for the national level.				
Inter-	Currently no access to individualised data for secondary data analysis Request for access to indi- vidualised data under preparation. Rethink the need for individualised data for further steps.				
preta- tion	Approval process takes time, the federal structure of the Belgian health system makes joint deci- sions complex, in the meantime the originally local practice has been "upgraded" to a potential reference case for the national level.				
Limita- tions	The results of the feasibility studies are tailormade for the specific context of East Belgium. But these results could surely also be partly used for other projects and initiatives in Belgium.				
	The used methods and analysis could be used in any project of the same kind.				
	Approval process takes time, the federal structure of the Belgian health system makes joint deci- sions complex, in the meantime the originally local practice has been "upgraded" to a potential reference case for the national level.				
Conclu- sions	Data availability is a crucial topic and can influence the outcomes and results of a study a lot. It is crucial to get an overview over the gap between available and needed data.				
0.010	The following topics should be part of the sustainability strategy:				
	Validation of report and suggested approach,				
	setting up territorial integrator structure,				





	• setting up access to data,				
	further develop secondary and tertiary prevention,				
	• developing "health programs" and validated patient pathways for chronic care patients,				
	<ul> <li>strengthen local networks of health professionals, medico-social workers, communities and preventive care providers,</li> </ul>				
	<ul> <li>possible setting up of shared savings contract.</li> </ul>				
Other infor-	Answer				
mation					
Fund- ing	The Office of the German- speaking Community for self-determined living (Dienststelle für Selbstbestimmtes Leben) was established by a decree of 13th December 2016 from the German- speaking Community as a public interest organization financed by the German-speaking Commu- nity of Belgium.				





# The Health Insurance Institute of Slovenia (ZZZS)

# Pre-implementation

# Scope definition

# Identified and prioritized needs

Block Needs (grouped)		
B1 - Shared savings contract with reimburse- ment /commissioning organizations	Define a methodology for calculating savings and stake holder sharing (3, 6, 9)	
	Examination of the starting points for the contract be- tween the stakeholders (1, 2, 4, 5, 7, 8)	
B2 - A model including strong stakeholder en- gagement	Develop a clinical pathway (1, 2)	
	Ensure the participation of all stakeholders and appoint a coordinator (3, 4, 5, 6, 7)	
B3 - Electronic integration across providers	Data exchange (2, 3, 4, 5)	
	Communication channels (1)	
	Tools for doctors (6)	
<b>B4 - Patient involvement and empowerment</b>	Patient education (1, 4, 6, 7, 8)	
	Education and information tools (2, 6)	
	Setting individual goals (3, 5)	
	Self-care tools (6, 9, 10)	
B5 - Data-driven management	Definition of indicators, planned data analysis (2, 4)	
	Establishment of a data system (1, 3, 5)	
B6 – Prevention, health promotion and public	Patient education (3)	
health	Individual programs (2)	
	Prevention programs (1)	

# Assessment of Core Features

Core features			Relevance	Feasibility
savings contract with reim-	CF1- identifying current contractual arrangements and assessing possibili- ties for value-based contracting	B1- CF1	4	4
ngs contrac	CF2- defining data standards and appropriate outcome measures	B1- CF2	4	4
ed savii	CF3- Designing the valued-based payment framework	B1- CF3	4	3
B1 - Shared	CF4- Constructing the analytical model to execute the contract	B1- CF4	4	2
B2 - A	CF1- Identifying and liaising with stakeholder groups	B2- CF1	4	4

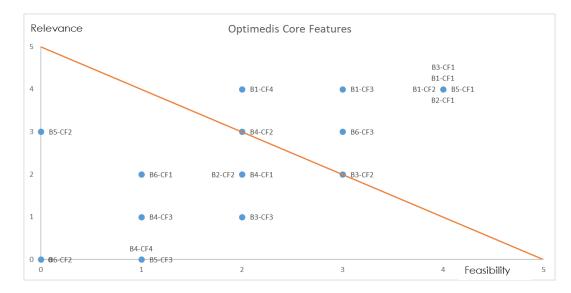




	CF2. Creating an experieta gaugemente structures			
	CF2- Creating appropriate governance structures	B2- CF2	2	2
- Electronic integration across provid-	CF1- Assessing state of current health IT integration and IT tools in use	B3- CF1	4	4
	CF2- Market assessment on tools adequate to improve IT connectivity of providers	B3- CF2	2	3
	CF3- Training with providers to assess incentives for IT deployment and usability assessment	B3- CF3	1	2
B3 - El	CF4- Patient access to their data (Open Notes approach)	B3- CF4	0	0
ment	CF1- Patient advisory boards	B4- CF1	2	2
84 - Patient involvement and empowerment	CF2- Shared-decision making tools and self-management support	B4- CF2	3	2
	CF3- Comprehensive health checks and health-related goals	B4- CF3	1	1
	CF4- Providing training on incentives and tools to implement patient cen- tered care	B4- CF4	0	1
man-	CF1- Potential analysis tool	B5- CF1	4	4
driven	CF2- Performance dashboards	B5- CF2	3	0
B5 - Data-driven ma	CF3- FORTA tool to identify over- and underutilization regarding prescrip- tions	В5- СF3	0	1
Prevention,	CF1- Individual treatment plans and care programmes	B6- CF1	2	1
	CF2- Care planning based on Chronic care model	B6- CF2	0	0
B6 –	CF3- Patient coaching	В6- СF3	3	3







## **Final Core Features selected**

Block	Needs (prioritized)
B1 - Shared savings contract with reimburse- ment/commissioning organizations	<ul> <li>CF1- identifying current contractual arrangements and assessing possibilities for value-based contracting</li> <li>CF2- defining data standards and appropriate outcome measures</li> <li>CF3- Designing the valued-based payment framework</li> <li>CF4- Constructing the analytical model to execute the contract</li> </ul>
B2 - A model including strong stakeholder en- gagement	- CF1- Identifying and liaising with stakeholder groups
B3 - Electronic integration across providers	<ul> <li>CF1- Assessing state of current health IT integration and IT tools in use</li> <li>CF2- Market assessment on tools adequate to improve IT connectivity of providers</li> </ul>
B4 - Patient involvement and empowerment	<ul> <li>CF2- Shared-decision making tools and self-management support</li> </ul>
B5 - Data-driven management	- CF1- Potential analysis tool
B6 – Prevention, health promotion and public health	- CF3- Patient coaching





# Situation analysis

	STRENGTHS	WEAKNESSES
	General strengths:	WEARIESSES
	<ul> <li>NAWG brings together experts from all relevant fields to introduce the Optimedis oGP in the field of neph- rology (nephrologists, experts in payment models)</li> <li>Existence of good practices in the field of innovative payment models (Optimedis) that we will use</li> <li>Participation in JA JADECARE</li> <li>The small size of our country and individual institu- tions</li> </ul>	
INTERNAL	<ul> <li>Strengths of ZZZS:</li> <li>We are a quickly responsive group of experts (Field of Analytics and Development) with a good knowledge of payment models (current in Slovenia)</li> <li>We have established links at other institutions that are crucial in the introduction of good practice (NIJZ, Slovenian Nephrological Society)</li> <li>Qualified team for working with data and BI tools</li> <li>We have a lot of data on performed and payed health services (form billing data)</li> <li>Strengths of primary health care:</li> <li>Good organization of primary health care in terms of preventive activities;</li> <li>Already established organization of detection and management of individual chronic diseases at the pri- mary level: specially trained graduate nurse within the family doctor's clinic;</li> <li>Already established organization of educational work- shops for a healthy lifestyle and certain chronic dis-</li> </ul>	<ul> <li>Weaknesses of ZZZS:</li> <li>A small group of internal experts primarily engaged in other tasks</li> <li>Lack of initial financial resources (to launch the Optimedis model)</li> <li>We do not have yet established management based on data (analyzes, business indicators, quality indicators) for the field of CKD</li> <li>No connection to other (non-billing) data</li> </ul>
	<ul> <li>eases: Health Education Centers, Health Promotion Centers;</li> <li>Good access to nephrology specialists</li> <li>Willingness to cooperate with secondary / tertiary health care</li> </ul> Strengths of nephrology specialist activity: <ul> <li>Proactivity of nephrologists</li> <li>Highly professional, interested and self-initiated working group for CKD at the Slovenian Nephrological Society.</li> <li>Existence of good practices in the field of connection between primary health care and nephrology special-</li> </ul>	<ul> <li>Weaknesses of primary health care:</li> <li>Poor opportunities for structured communication between a family doctor and a specialist nephrologist</li> <li>Preventive check-up programs in reference clinics do not include searching for patients with CKD</li> </ul>





	<ul> <li>CKD, especially in the field of monitoring of patients and education of patients</li> <li>Strengths of patient groups: <ul> <li>Kidney patients are well organized in the patient society</li> <li>The existence of many educational materials</li> <li>Patients' interest in innovations in the field of prevention and education</li> </ul> </li> </ul>	<ul> <li>Weaknesses of nephrology specialist activity:</li> <li>The contracts with ZZZS do not define clear teams for the field of specialist nephrology treatment (they only operate within specialist internal medicine clinics)</li> <li>Outdated payment model: there are no built-in incentives for the implementation of education and diet therapy, which is necessary for the empowerment of people with CKD.</li> </ul>
	OPPORTUNITIES	THREATS
EXTERNAL	<ul> <li>Existing program: New model of medical treatment of people with CKD, prepared by the Slovenian Nephrological Society</li> <li>Well organised and active associations of patients with CKD</li> <li>The number of newly diagnosed patients with CKD is steadily increasing due to greater awareness of the profession and lay people and the establishment of reference clinics, and the number of referrals to the secondary and tertiary level is also increasing.</li> <li>Existence of individual IT solutions</li> <li>Existence of an interoperable spine (but only in one direction - from the secondary / tertiary to the primary level)</li> </ul>	<ul> <li>The increase in the number of patients with CKD, while working conditions and treatment at the secondary and tertiary levels remained unchanged</li> <li>Rising costs for the treatment of patients with CKD</li> <li>Lack of a national strategy for the management of CKD (such as exists for diabetes, cancer)</li> <li>Poorly connected levels of health care (primary, secondary)</li> <li>Poor data transfer between different levels of health care (only in one direction - from secondary / tertiary to primary level)</li> <li>The use of existing IT tools is not widespread enough</li> <li>Lack of a register of patients with CKD.</li> <li>Changes in payment models are limited by existing legislation, the General Agreement and the resources available.</li> <li>Team expansions at the specialist level require additional funding.</li> </ul>





- The unacceptability of the new model
among the partners of the General
Agreement

#### **Strategic Intervention Areas**

QUESTIONS	ANSWERS
Any new proposed action for the fu- ture?	The analysis of individualised health insurance data might not be feasible in the first PDSA cycle. If the subsequent steps for cycle 1 are considered feasible without this data, the implementation can continue as planned.

# Definition of the LGP and LAP

### Local Good Practice

Local Good Practice	Improvement in integration of health information system; and patient empowerment
Target population	Setting(s)
360.000 adults	Primary Healthcare centres in two Belgrade municipalities pilot project sites: PHC "Zemun", PHC "Novi Beograd" Gerontology Centre "Beograd"(social care institution in Belgrade with primary healthcare service providing).

#### Main aim

Improving health care in order to provide affordable, efficient, quality services with a sustainable continuity in their provision in the area of prevention and treatment of persons suffering from chronic diseases, and in accordance with their needs.

Outcomes	Local Core Features and their Components	Inputs
<ul> <li>Providing more efficient healthcare services</li> <li>Providing health services through the accomplishment of communication between GPs and specialists</li> <li>Contribute to process for achieving sustainable continuity of healthcare providing for</li> </ul>	<ul> <li>health information system</li> <li>Developed E-health record</li> <li>Ensure the conditions for</li> </ul>	<ul> <li>Funding</li> <li>Working team</li> <li>IT Staff</li> <li>Decision makers</li> <li>Training and technical assistance</li> <li>IT infrastructure</li> <li>IT Vendor</li> </ul>
<ul> <li>persons suffering from chronic diseases.</li> <li>improvement of E-health portal with access to information relevant for health care</li> </ul>	<ul> <li>Patient empowerment through E health portal upgrade</li> <li>Portal E-health put in place</li> <li>Ensure the setting for personalized access</li> </ul>	

#### General description

Aging and increase in prevalence of non-communicable diseases lead to a greater need for long-term care and optimization of the entire health care system. Introduction of digital communication between health care workers at all levels of health care should make the healthcare services more efficient and patients more satisfied. Improvements in coordination between health providers should contribute to continual health care





and better quality of patient care. Deployment of relevant web based health -information and access to them can strengthen patient capacity to recognize disease and manage their own health.

Regulation on introduction of new services in the nomenclature of health services financed by state budget, financial resources limitations, organizational issues in healthcare institutions, as well as established patient access to health care which are difficult to change can influence the implementation and expected outcomes.

### Local Core Feature 1

Improvement in integration of health information system

#### Local Core Feature 2

Patient empowerment through E health portal upgrade which will be used for patient access to information relevant for health management

#### Local Action Plan

Local Good Prac- tice	Integrated ca	ntegrated care in nephrology			
Target population		Settings			
tice Integrated c		<ul> <li>At the primary level:</li> <li>Ljubljana Health Center, family medicine clinic of Primož Štular MD</li> <li>Sava med, family medicine clinic of Vojislav Ivetić MD</li> <li>ZD Slovenj Gradec, family medicine clinic of Tina Virtič MD</li> <li>ZD Nova Gorica, family medicine clinic of Matjaž Divjak MD</li> <li>At the secondary level:</li> <li>General hospital Slovenj Gradec</li> <li>University clinical center Ljubljana</li> <li>General hospital Šempeter pri Gorici</li> <li>University clinical center Maribor</li> <li>Health insurance institute of Slovenia</li> </ul>			
Main aim					

- Improving the health of the population (preventive activities and disease prevention, prolonging the quality of life of patients with CKD (QALY quality-adjusted life-year), maintaining work capacity and social inclusion, slowing down the progression of CKD),
- Well-empowered patients,
- Long-term savings (in hospitalizations (less and shorter), in the use of erythropoietin, in delayed dialysis).

Outcomes	Local Core Features and their Components	Inputs	
<ul> <li>Effective communication of health care providers at various levels</li> </ul>	New model of communica- tion between health care	<ul> <li>Experts in nephrology and family medicine and graduate nurses</li> </ul>	





<ul> <li>Prepared bases for population screening for CKD in family clinic</li> <li>Educated and empowered patients</li> <li>Prepared bases for setting up the analytical / payment model</li> </ul>	<ul> <li>providers at different levels (LCF 1)</li> <li>Definition of criteria for the transition of patients from the primary to the secondary level</li> <li>Patient data exchange tools (emedical record, econsultations)</li> <li>Population screening (LCF 2) <ul> <li>Clinical pathway for early detection of CKD</li> </ul> </li> <li>Patient coaching (LCF 3) <ul> <li>Educational materials for patients</li> <li>Educational materials for educators</li> </ul> </li> <li>Payment model (LCF 4) <ul> <li>Review of existing contracts</li> </ul> </li> </ul>	<ul> <li>Financial resources to pay for these experts</li> <li>Financial resources for educational materials</li> <li>Experts in the field of payment models</li> <li>Financial resources for laboratory tests</li> </ul>

## **General description**

Our long-term quadruple goal is: to improve the health of the population in the field of CKD, increase the satisfaction and empowerment of patients with CKD, increase the satisfaction of health professionals with new education and prevention options and save money on hospitalizations, drugs and dialysis. These are the goals we are striving for in the next few years. However, as time and financial resources within JADEC-ARE are limited, the available resources will focus mainly on the preparation of starting points for improving communication between the primary and secondary level, for improving preventive activities in the field of CKD, for billing new services (especially educational) in the field of CKD. We will prepare new educational materials to increase the empowerment of patients. To ensure the success of our activities, we have included all interested parties in the NAWG (family physicians, nephrology specialists, payment model experts, nephrology patients' association). We will also invite experts from the field of family medicine reference clinics and e-Medical record from the Public health institute to participate in the planned activities to ensuring sustainability use of the proposed solutions.





Local Core Feature 1
New model of communication between health care providers at different levels
Local Core Feature 2
Population screening
Local Core Feature 3
Patient coaching
Local Core Feature 4
Payment model

Local Good Practice	egrated care in nephrology			
Target population	Setting			
The number of registered p in the participating family of 5,386 For preventive screening, t older than 30 years are elig 4,589 Approximately 10% are pat high risk for CKD	<ul> <li>Sava med, family medicine clinic of Vojslav Wette WD</li> <li>ZD Slovenj Gradec, family medicine clinic of Tina Virtič MD</li> <li>ZD Nova Gorica, family medicine clinic of Matjaž Divjak MD</li> <li>At the secondary level:</li> <li>General hospital Slovenj Gradec</li> </ul>			

### Main aim

- Improving the health of the population (preventive activities and disease prevention, prolonging the • quality of life of patients with CKD (QALY - quality-adjusted life-year), maintaining work capacity and social inclusion, slowing down the progression of CKD),
- Well-empowered patients, •
- Long-term savings (in hospitalizations (less and shorter), in the use of erythropoietin, in delayed di-• alysis).

### **General description**

Our long-term quadruple goal is: to improve the health of the population in the field of CKD, increase the satisfaction and empowerment of patients with CKD, increase the satisfaction of health professionals with new education and prevention options and save money on hospitalizations, drugs and dialysis. These are the goals we are striving for in the next few years. However, as time and financial resources within JA





JADECARE are limited, the available resources will focus mainly on the preparation of starting points for improving communication between the primary and secondary level, for improving preventive activities in the field of CKD, for billing new services (especially educational) in the field of CKD. We will prepare new educational materials to increase the empowerment of patients. To ensure the success of our activities, we have included all interested parties in the NAWG (family physicians, nephrology specialists, payment model experts, nephrology patients' association). We will also invite experts from the field of family medicine reference clinics and e-Medical record from the Public health institute to participate in the planned activities to ensuring sustainability use of the proposed solutions.

Related original Good Practices and their Core Feature (s)	OptiMedis, CF1.1, CF1.2, CF1.3, CF1.4, CF2.1, CF3.1, CF3.2, CF6.3			
Local Core Feature 1	New model of communication between health care providers at different levels (LCF 1)			

### **SMART** objective

By November 2022, the NAWG will define the criteria for the transition of patients from the primary to the secondary level, review existing tools for the exchange of patient data and prepare a proposal for their more efficient use.

Activities	Actors	Resources	Setting(s)	Timeline	Key Performance Indicators
<ul> <li>Meetings with NAWG (initial meeting to agree on implemen- tation of activities, follow-up control meetings</li> </ul>	<ul> <li>NAWG</li> <li>Project manage- ment</li> </ul>	Human re- sources	• MS Teams	<ul> <li>October 2021 and every 2 months thereaf- ter</li> </ul>	<ul> <li>Minutes of meetings</li> </ul>
<ul> <li>Determining criteria for the transition of patients between pri- mary and secondary level</li> </ul>	<ul> <li>Nephrol- ogists and fam- ily physi- cians from NAWG</li> <li>Nephro- logical Society</li> </ul>	Human re- sources	<ul> <li>Nephro- logical Society or. MS Teams</li> </ul>	October     2021 -     April     2022	<ul> <li>Document with devel- oped criteria</li> </ul>





<ul> <li>Review of existing tools for the ex- change of patient data</li> </ul>	<ul> <li>Nephrol- ogists and fam- ily physi- cians</li> <li>repre- senta- tives of ZZZS from NAWG</li> <li>Public health institute</li> </ul>	<ul> <li>Human re- sources</li> <li>eHealth Platform</li> </ul>	• MS Teams	• October 2021 – March 2022	<ul> <li>List of existing tools</li> </ul>
<ul> <li>Preparation of a pro- posal for more effi- cient use and upgrad- ing of tools for the exchange of patient data</li> </ul>	<ul> <li>Nephrol- ogists and fam- ily physi- cians from NAWG</li> </ul>	<ul> <li>Human re- sources</li> <li>eHealth platform</li> </ul>	<ul> <li>Nephro- logical society or. MS Teams</li> </ul>	• April 2022 – October 2022	<ul> <li>Document with prepared proposal</li> </ul>
• Presentation of the proposal to ZZZS (ad- ministrator of pay- ment models) and Public health insti- tute (administrator of eHealth) to ensure the sustainable use of the proposed solu- tions	• NAWG	Human re- sources	<ul> <li>ZZZS or MS Teams</li> </ul>	• Novem- ber 2022	• Minutes of the meeting
Local Core Feature 2	Populatio	on screening (LCF	2)		

### **SMART** objective

In 6 months, nephrologists from NAWG will determine the parameters for CKD screening, and colleagues from ZZZS will examine the financial possibilities for this. By January 2023, participating family medicine clinics will invite 400 patients to the screening program.

Activities	Actors	Resources	Setting(s)	Timeline	Key Performance Indicators
<ul> <li>Meetings with NAWG (initial meeting to agree on implemen- tation of activities,</li> </ul>	• NAWG	Human re- sources	• MS Teams	<ul> <li>October 2021 and every 2 months</li> </ul>	<ul> <li>Minutes of meetings</li> </ul>





follow-up control meetings	<ul> <li>Project manage- ment</li> </ul>			thereaf- ter	
<ul> <li>Determination of cri- teria for CKD screen- ing (clinical pathway for early detection of CKD)</li> </ul>	<ul> <li>Nephrol- ogists and fam- ily physi- cians from NAWG</li> <li>Nephro- logical Society</li> </ul>	Human re- sources	<ul> <li>Nephro- logical Society or. MS Teams</li> </ul>	October     2021 –     March     2022	<ul> <li>Document with deter- mined criteria</li> </ul>
<ul> <li>Agreement on pay- ment for additional services (lab tests)</li> </ul>	<ul> <li>ZZZS</li> <li>Participating family medicine clinics</li> </ul>	Human re- sources	• ZZZS	<ul> <li>October 2021 - March 2022 •</li> </ul>	<ul> <li>Agreement reached</li> </ul>
Carrying out screen- ing in selected family medicine clinics	<ul> <li>Family medicine clinics</li> </ul>	<ul> <li>Human re- sources</li> <li>Labora- tory - funds for additional tests</li> </ul>	<ul> <li>Family medi- cine clinics</li> </ul>	<ul> <li>April</li> <li>2022 -</li> <li>January</li> <li>2023</li> </ul>	<ul> <li>Number of preventive ex- aminations and tests per- formed</li> </ul>
<ul> <li>Presentation of re- sults and proposal to the Public health in- stitute regarding the inclusion of addi- tional tests in the program of family medicine reference clinics, to ensure sus- tainable implementa- tion of screening</li> </ul>	<ul> <li>NAWG</li> <li>Public health institute</li> </ul>	Human re- sources	• ZZZS or MS Teams	• Decem- ber 2022	<ul> <li>Minutes of the meeting and agreement on the inclusion of new tests in the family medicine ref- erence clinics program</li> </ul>
Local Core Feature 3	Patient c	oaching (LCF 3)			

Local Core Feature 3

## **SMART** objective

By August 2022, the NAWG, in collaboration with the Nephrology Society and the Patients' Association, will prepare educational materials for patients and educators.





Activities	Actors	Resources	Setting(s)	Timeline	Key Performance Indicators
<ul> <li>Meetings with NAWG (initial meeting to agree on implemen- tation of activities, follow-up control meetings</li> </ul>	<ul> <li>NAWG</li> <li>Project manage- ment</li> </ul>	Human re- sources	• MS Teams	<ul> <li>October 2021 and every 2 months thereaf- ter</li> </ul>	<ul> <li>Minutes of meetings</li> </ul>
<ul> <li>Review of existing patient materials</li> </ul>	<ul> <li>Nephrol- ogists from NAWG</li> <li>Patient Repre- sentative from NAWG</li> </ul>	Human re- sources	<ul> <li>Patients Associa- tion</li> <li>Internet</li> </ul>	<ul> <li>Novem- ber 2021         <ul> <li>January</li> <li>2022</li> </ul> </li> </ul>	<ul> <li>List of existing materials</li> </ul>
<ul> <li>Update of materials / preparation of new materials for patients</li> </ul>	<ul> <li>Nephrol- ogists from NAWG</li> <li>Patient Repre- sentative from NAWG</li> </ul>	<ul> <li>Human re- sources</li> <li>Financial resources for the prepara- tion of materials</li> </ul>	<ul> <li>Patients Associa- tion</li> <li>Nephro- logical Society</li> </ul>	<ul> <li>February</li> <li>2022 –</li> <li>June</li> <li>2022</li> </ul>	<ul> <li>Prepared ma- terials</li> </ul>
Preparation of mate- rials for educators	<ul> <li>Nephrol- ogists from NAWG</li> <li>Nephro- logical Society</li> </ul>	<ul> <li>Human re- sources</li> <li>Financial resources for the prepara- tion of materials</li> </ul>	<ul> <li>Nephro- logical Society</li> </ul>	<ul> <li>Novem- ber 2021         <ul> <li>June</li> <li>2022</li> </ul> </li> </ul>	Prepared ma- terials
<ul> <li>Publishing materials for patients online and printing</li> </ul>	<ul> <li>Nephrol- ogy Soci- ety</li> <li>Patient Associa- tion</li> </ul>	<ul> <li>Human re- sources</li> <li>Financial resources for the prepara- tion of materials</li> </ul>	<ul> <li>Pa- tients' Associa- tion</li> <li>Internet</li> </ul>	<ul> <li>July 2022         <ul> <li>August</li> <li>2022</li> </ul> </li> </ul>	<ul> <li>Published ma- terials</li> </ul>





## **Local Core Feature 4**

### Payment model (LCF 4)

# **SMART** objective

By the end of 2022, NAWG billing model experts will review existing service payment contracts, as well as a list of existing services, and together with the nephrology profession prepare a proposal for new services (especially educational) and billing options.

Activities	Actors	Resources	Setting(s)	Timeline	Key Performance Indicators
<ul> <li>Meetings with NAWG (initial meeting to agree on implemen- tation of activities, follow-up control meetings</li> </ul>	<ul> <li>NAWG</li> <li>Project manage- ment</li> </ul>	Human re- sources	• MS Teams	<ul> <li>October 2021 and every 2 months thereaf- ter</li> </ul>	<ul> <li>Minutes of meetings</li> </ul>
Review of existing contracts	<ul> <li>Experts for pay- ment models at ZZZS</li> </ul>	Human re- sources	• ZZZS	<ul> <li>Novem- ber 2021         <ul> <li>Febru- ary 2022</li> </ul> </li> </ul>	<ul> <li>Document with a report on existing contracts</li> </ul>
Review of existing medical services	Experts for pay- ment models at ZZZS	Human re- sources	• ZZZS	<ul> <li>Novem- ber 2021         <ul> <li>Febru- ary 2022</li> </ul> </li> </ul>	<ul> <li>Document with a report on existing ser- vices</li> </ul>
<ul> <li>Preparation of a pro- posal for new ser- vices and a proposal for their billing</li> </ul>	<ul> <li>Experts for pay- ment models at ZZZS</li> <li>Nephrol- ogists from NAWG</li> </ul>	• Human re- sources	• ZZZS	<ul> <li>March</li> <li>2022 –</li> <li>Septem-</li> <li>ber 2022</li> </ul>	<ul> <li>Document with the pro- posal</li> </ul>
<ul> <li>Preparation of a pro- posal for the General Agreement, as the in- clusion of new ser- vices in the General Agreement ensures their sustainable use</li> </ul>	<ul> <li>Experts for pay- ment models at ZZZS</li> </ul>	Human re- sources	• ZZZS	<ul> <li>October 2022 – Decem- ber 2022</li> </ul>	<ul> <li>Prepared pro- posal for the General Agree- ment</li> </ul>



# Implementation

# 1st PDSA Cycle

Plan

LCF1	New model of communication between health care providers at different levels (LCF 1)									
					KPI	s MEASURE				
Activities (from the LAP)	Actions Actors		Timeline	KPIs (from the LAP)	Who will col- lect the data?	When will the data be col- lected?	How will the data be col- lected?	Tar- get value		
Meetings with NAWG (initial meeting to agree on implementation of activities, follow-up control meetings	<ul> <li>Regular meet- ings with NAWG and project man- agement</li> </ul>	<ul> <li>NAWG</li> <li>Project manage- ment</li> </ul>	October 2021 and every 2 months thereafter	8 meetings held	Martina Zorko Kodelja	At each meeting	At each meeting	8		
Determining criteria for the transition of patients between primary and secondary level (including a population segmentation exercise to group peo- ple in disease stages, define specific cutoff points for each stage and develop specific interventions for each stage, for example: promotion and health education for patients without diagnosis, hypertension or diabetes control for patients at risk and so forth.)	<ul> <li>Add a family medicine doc- tor to NAWG</li> <li>determine cri- teria (clinical pathway)</li> </ul>	<ul> <li>Nephrolo- gists and family phy- sicians from NAWG</li> <li>Nephrolog- ical Society</li> </ul>	October 2021 - April 2022	Document with devel- oped crite- ria (Y/N)	Karmen Janša	Q2 2022	Docu- ment	Y		
Review of existing tools for the exchange of pa- tient data	Get infor- mation	<ul> <li>Nephrologists and family phy- sicians</li> </ul>	October 2021 – March 2022	List of exist- ing tools (Y/N)	Marjeta Zupet	Q2 2022	List	Y		







	about the tools • Review • Prepare a list	<ul> <li>representatives of ZZZS from NAWG</li> <li>Public health institute</li> </ul>						
Preparation of a proposal for more efficient use and upgrading of tools for the exchange of pa- tient data and proposal for complementary ser- vices in information sharing	•	<ul> <li>Nephrologists and family phy- sicians from NAWG</li> <li>ZZZS</li> </ul>	April 2022 – September 2022	Document with pre- pared pro- posal (Y/N)	Marjeta Zupet	Q4 2022	Proposal	Y
Presentation of the proposal to ZZZS (administra- tor of payment models) and Public health insti- tute (administrator of eHealth) to ensure the sus- tainable use	•	• NAWG	October 2022	Minutes of the meeting (Y/N)	Martina Zorko Kodelja	Q4	Meeting	Y

LCF2	Population screening (LCF 2)								
				KPIs MEASURE					
Activities (from the LAP)	Actions	Actors	Timeline	KPIs (from the LAP)	Who will col- lect the data?	When will the data be col- lected?	How will the data be col- lected?	Tar- get value	





Determination of criteria for CKD screening (clinical pathway for early detection of CKD) - population seg- mentation, risk strata for CKD and the specific set of interventions per strata	<ul> <li>Determine the tests (addi-tional to Existing preventive tests)</li> <li>Check the capacity of local laboratories</li> </ul>	<ul> <li>Nephrolo- gists and family physi- cians from NAWG</li> <li>Nephrologi- cal Society</li> </ul>	October 2021 – March 2022	Document with deter- mined criteria (Y/N)	Karmen Janša	Q2 2022	Document	Y
Past experience with CKD screening	<ul> <li>Collect data from primary and secondary levels</li> </ul>	<ul> <li>Nephrolo- gists and family physi- cians from NAWG</li> <li>Nephrologi- cal Society</li> </ul>	October 2021 – March 2022	Report on past experi- ences	Karmen Janša	Q2 2022	Report	Y
Agreement on payment for addi- tional services (lab tests)	<ul> <li>Determine the way of pay- ment</li> </ul>	<ul> <li>ZZZS</li> <li>Participating family medicine clinics</li> </ul>	October 2021 - March 2022	Agreement reached (Y/N)	Karmen Janša	Q2 2022	Agree- ment	Y
Carrying out screening in selected family medicine clinics (this activity largely depends on the course of the epidemic in 2022 in the country, as nurses from refer- ence clinics are currently engaged in population vaccination and testing).	<ul> <li>Invite patients</li> <li>Perform screening</li> </ul>	<ul> <li>Participating family medicine clinics</li> </ul>	April 2022 – Novem- ber 2022	Number of preventive examinations and tests performed	Family medi- cine doctors	Q4 2022	Report	100





Presentation of results and proposal to the Public health institute regard- ing the inclusion of additional tests in the program of family medicine reference clinics, to ensure sustaina- ble implementation of screening	<ul> <li>NAWG</li> <li>Public health institute</li> </ul>	Decem- ber 2022	Minutes of the meeting and agreement on the inclusion of new tests in the family medicine ref- erence clinics program (Y/N)	Karmen Janša	Q1 2023	Meeting	Y	
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LCF3	Pat	ient coaching (LCF 3)						
					к	PIs MEASURE		
Activities (from the LAP)	Ac- tions	Actors	Timeline	KPIs (from the LAP)	Who will collect the data?	When will the data be collected?	How will the data be collected?	Target value
Review of existing patient materials		<ul> <li>Nephrolo- gists from NAWG</li> <li>Patient Rep- resentative from NAWG</li> <li>Nurses from reference clinics</li> </ul>	November 2021 – January 2022	List of ex- isting ma- terials (Y/N)	Jelka Lindič	Q1 2022	List	Υ
Update of materials / preparation of new materials for patients		<ul> <li>Nephrolo- gists from NAWG</li> </ul>	February 2022 – June 2022	Prepared materials	Jelka Lindič	Q3 2022	Prepared materials	10





	<ul> <li>Patient Representative</li> <li>from NAWG</li> </ul>						
Preparation of materials for educators (including how to help patients define their health goals and motivate them to actively participate in health programs linked to preventive care (blood sugar and hypertension con- trol, weight loss, etc.)		November 2021 – June 2022	Prepared materials	Jelka Lindič	Q3 2022	Prepared materials	10
Publishing materials for patients online and printing	<ul> <li>Nephrology So- ciety</li> <li>Patient Associa- tion</li> </ul>	July 2022 – August 2022	Published materials (Y/N)	Jelka Lindič	Q3 2022	Publication	Y

LCF4	Рау	vment model (LCF 4)						
					KPIs	<b>MEASURE</b>		
Activities (from the LAP)	Ac- tions	Actors	Timeline	KPIs (from the LAP)	Who will collect the data?	When will the data be collected?	How will the data be col- lected?	Target value
Review of existing contracts		<ul> <li>Experts for payment models at ZZZS</li> </ul>	November 2021 – Feb- ruary 2022	Document with a report on ex- isting contracts (Y/N)	Marjeta Zupet	Q2 2022	Document	Y





Review of existing services paid by ZZZS to health care providers	• []	<ul> <li>Experts for payment models at ZZZS</li> </ul>	November 2021 – Feb- ruary 2022	Document with a report on ex- isting services (Y/N)	Marjeta Zupet	Q2 2022	List	Y
Preparation of a proposal for new services and a proposal for their billing including an analysis of cost savings potentials to define opportunities for financing complementary services where needed.	• []	<ul> <li>Experts for payment models at ZZZS</li> <li>Nephrolo- gists from NAWG</li> </ul>	March 2022 – Septem- ber 2022	Document with a report on ex- isting services (Y/N)	Marjeta Zupet	Q4 2022	Proposal	Y
Preparation of a proposal for the General Agree- ment, as the inclusion of new services in the Gen- eral Agreement ensures their sustainable use	•	<ul> <li>Experts for payment models at ZZZS</li> </ul>	October 2022 – De- cember 2022	Prepared pro- posal for the General Agree- ment (Y/N)	Marjeta Zupet	Q1 2023	Proposal	Y





### Do

Cycle number (1 or 2)	1	
Activity	КРІ	Actual value
Meetings with NAWG (initial meeting to agree on implementation of activities, fol- low-up control meetings	8 meetings held	6 25.11.2021 22.12.2021 23.2.2022 17.3.2022 20.5.2022 13.7.2022
Determining criteria for the transition of pa- tients between primary and secondary level (including a population segmentation exer- cise to group people in disease stages, define specific cutoff points for each stage and de- velop specific interventions for each stage, for example: promotion and health educa- tion for patients without diagnosis, hyperten- sion or diabetes control for patients at risk and so forth.)	Document with de- veloped criteria (Y/N)	N In progress. We just recently added a familiy medicine doctor to the NAWG.
Review of existing tools for the exchange of patient data	List of existing tools (Y/N)	N In progress. Need to replan.
Preparation of a proposal for more efficient use and upgrading of tools for the exchange of patient data and proposal for complemen- tary services in information sharing	Document with pre- pared proposal (Y/N)	N Not yet started.
Presentation of the proposal to ZZZS (admin- istrator of payment models) and Public health institute (administrator of eHealth) to ensure the sustainable use	Minutes of the meeting (Y/N)	N Not yet started.
Determination of criteria for CKD screening (clinical pathway for early detection of CKD) - population segmentation, risk strata for CKD and the specific set of interventions per strata	Document with de- termined criteria (Y/N)	Y Nephrologists have determined the necessary tests (additional to existing preventive tests). The capacity of local laboratories is still being checked.
Past experience with CKD screening	Report on past ex- periences (Y/N)	N Data from the primary and secondary levels are still being collected.
Agreement on payment for additional ser- vices (lab tests)	Agreement reached (Y/N)	Y In the scope of reference clinics (extension of the preventive action program).





Carrying out screening in selected family medicine clinics (this activity largely depends on the course of the epidemic in 2022 in the country, as nurses from reference clinics are currently engaged in population vaccination and test- ing).	Number of preven- tive examinations and tests performed	0 We did not undertake this activity at all, as the medical staff from the referral clinics was transferred to other jobs during the epidemic. However, we sought some analyzes in the field of CKD screening and asked the authors for results.
Presentation of results and proposal to the Public health institute regarding the inclusion of additional tests in the program of family medicine reference clinics, to ensure sustain- able implementation of screening	Minutes of the meeting and agree- ment on the inclu- sion of new tests in the family medicine reference clinics program (Y/N)	N Not yet started.
Review of existing patient materials	List of existing ma- terials (Y/N)	Y
Update of materials / preparation of new materials for patients	Prepared materials	In progress.
Preparation of materials for educators (in- cluding how to help patients define their health goals and motivate them to actively participate in health programs linked to pre- ventive care (blood sugar and hypertension control, weight loss, etc.)	Prepared materials	In progress.
Publishing materials for patients online and printing	Published materials (Y/N)	Partially Some already published on the website.
Review of existing contracts	Document with a report on existing contracts (Y/N)	Y
Review of existing services paid by ZZZS to health care providers	Document with a re- port on existing ser- vices (Y/N)	Y
Preparation of a proposal for new services and a proposal for their billing including an analysis of cost savings potentials to define opportunities for financing complementary services where needed.	Document with a re- port on existing ser- vices (Y/N)	N In progress: preparation of the new payment model.
Preparation of a proposal for the General Agreement, as the inclusion of new services in the General Agreement ensures their sus- tainable use	Prepared proposal for the General Agreement (Y/N)	N Not yet started.





QUESTIONS	ANSWERS
What was actually imple- mented? Any deviation from the planned actions	We had 6 meetings (2 with entire NAWG, other just with the lead neph- rologist). Some activities are late (determining criteria, tools, collecting data) and will need to be replanned. Due to pandemic, we decided not to undertake the screening of patients in family medicine clinics. Instead, we will go through some analysis of CKD screenings (articles). We are on time with education materials and with the activities regarding payment model,
Problems? Unexpected find- ings? Please describe	<ol> <li>Impact of the epidemic:         <ul> <li>Lack of time of co-workers (clinics) in the project</li> <li>Inability to perform certain activities – screening</li> <li>Things are going slower than we would like</li> </ul> </li> <li>During the planning and implementation, we discovered many other activities that would be necessary for the implementation of the entire payment model.</li> <li>Lack of financial resources for an integrated solution.</li> <li>There is a huge amount of reporting on the project.</li> <li>After carefully examining the Optimedis model, we found that due to legal restrictions we cannot fully transfer it to the Slovenian environment.</li> <li>Lack of staff (due to other priorities)</li> <li>Short time of the project.</li> </ol>

IMPLEMENTATION PROGRESS OF THE LOCAL GOOD PRACTICE						
0-25%	25-50% 50-75% 75-100%					
	X					

# Study

Cycle number (1or 2)						
Activity	КРІ	Tar- get value (from PLAN)	Actual value (from DO)	Reasons for the de- viations	Mitiga- tion ac- tions im- ple- mented	Impact of miti- gation actions
Meetings with NAWG (initial meeting to agree on implementa-	8 meetings held	8	6 25.11.2021 22.12.2021 23.2.2022	No devia- tion (8 meetings until the	-	-





tion of activities, fol- low-up control meet- ings			17.3.2022 20.5.2022 13.7.2022	end of 2022)		
Determining criteria for the transition of patients between pri- mary and secondary level (including a pop- ulation segmentation exercise to group peo- ple in disease stages, define specific cutoff points for each stage and develop specific interventions for each stage, for example: promotion and health education for patients without diagnosis, hy- pertension or diabe- tes control for pa- tients at risk and so forth.)	Document with devel- oped criteria (Y/N)	Υ	N In progress. We just recently added a familiy medicine doctor to the NAWG.	It was dif- ficult to find a rep- resenta- tive of Family medicine doctors.	Acceler- ate activ- ities Replan by end of 2022.	This ac- tivity will be part of PDSA 2.
Review of existing tools for the exchange of patient data	List of exist- ing tools (Y/N)	Y	N In progress. Need to replan.	Started with the activity later than planned due to other pri- orities of employ- ees.	Acceler- ate activ- ities Replan by end of 2022.	This ac- tivity will be part of PDSA 2.
Preparation of a pro- posal for more effi- cient use and upgrad- ing of tools for the ex- change of patient data and proposal for com- plementary services in information sharing	Document with pre- pared pro- posal (Y/N)	Y	N Not yet started.	Connected to the pre- vious ac- tivity.	Acceler- ate activ- ities Replan by end of 2022.	This ac- tivity will be part of PDSA 2.
Presentation of the proposal to ZZZS (ad- ministrator of pay- ment models) and Public health institute (administrator of eHealth) to ensure the sustainable use	Minutes of the meeting (Y/N)	Y	N Not yet started.	Activity has not yet started according to plan.	-	-





Determination of cri- teria for CKD screen- ing (clinical pathway for early detection of CKD) - population seg- mentation, risk strata for CKD and the spe- cific set of interven- tions per strata	Document with deter- mined crite- ria (Y/N)	Y	Y Nephrologists have determined the necessary tests (additional to existing preventive tests). The capacity of local laboratories is still being checked.	-	-	-
Past experience with CKD screening	Report on past experi- ences (Y/N)	Y	N Data from the primary and secondary levels are still being collected.	It is diffi- cult to find data, also issues with personal data pro- tection.	Acceler- ate activ- ities Replan by end of 2022.	This ac- tivity will be part of PDSA 2.
Agreement on pay- ment for additional services (lab tests)	Agreement reached (Y/N)	Y	Y In the scope of reference clinics (extension of the pre- ventive action pro- gram).	-	-	-
Carrying out screening in selected family medicine clinics (this activity largely depends on the course of the epi- demic in 2022 in the country, as nurses from reference clinics are currently engaged in population vaccina- tion and testing).	Number of preventive examina- tions and tests per- formed	100	0 We did not undertake this activity at all, as the medical staff from the referral clinics was transferred to other jobs during the epidemic. However, we sought some analyzes in the field of CKD screening and asked the authors for results.	Activity cancelled.	-	We will use data from several pub- lished articles and analy- sis.
Presentation of re- sults and proposal to the Public health insti- tute regarding the in- clusion of additional tests in the program of family medicine ref- erence clinics, to en- sure sustainable im- plementation of screening	Minutes of the meeting and agree- ment on the inclusion of new tests in the family medicine reference clinics pro- gram (Y/N)	Ŷ	N Not yet started.	Activity has not yet started according to plan.	-	-
Review of existing pa- tient materials	List of exist- ing materials (Y/N)	Y	Y	-	-	-





Update of materials / preparation of new materials for patients	Prepared materials	10	In progress.	Due to a large amount of materials not fin- ished in time.	Replan by the end of October 2022.	This ac- tivity will be part of PDSA 2.
Preparation of materi- als for educators (in- cluding how to help patients define their health goals and moti- vate them to actively participate in health programs linked to preventive care (blood sugar and hy- pertension control, weight loss, etc.)	Prepared materials	10	In progress.	Due to a large amount of materials not fin- ished in time.	Replan by the end of October 2022.	This ac- tivity will be part of PDSA 2.
Publishing materials for patients online and printing	Published materials (Y/N)	Y	Partially Some already published on the website.	Materials are pub- lished as they are prepared.	-	-
Review of existing contracts	Document with a re- port on ex- isting con- tracts (Y/N)	Y	Y	-	-	-
Review of existing ser- vices paid by ZZZS to health care providers	Document with a re- port on ex- isting ser- vices (Y/N)	Y	Y	-	-	-
Preparation of a pro- posal for new services and a proposal for their billing including an analysis of cost savings potentials to define opportunities for financing comple- mentary services where needed.	Document with a re- port on ex- isting ser- vices (Y/N)	Υ	N In progress: preparation of the new payment model.	Not yet finished. Still within the plan. Suggest replanning by the end of Decem- ber 2022.	Suggest replan- ning by the end of De- cember 2022.	This ac- tivity will be part of PDSA 2.
Preparation of a pro- posal for the General Agreement, as the in- clusion of new ser- vices in the General Agreement ensures their sustainable use	Prepared proposal for the General Agreement (Y/N)	Υ	N Not yet started.	Activity has not yet started according to plan.	-	-





Act

Cycle number (1 or 2)	1		
Activity	Main- tain	Adapt	Aban- don
Meetings with NAWG (initial meeting to agree on implementation of activities, follow-up control meetings	x		
Determining criteria for the transition of patients between primary and secondary level (including a population segmentation exercise to group people in disease stages, define specific cutoff points for each stage and develop specific interventions for each stage, for example: promotion and health education for patients without diagnosis, hypertension or diabetes control for patients at risk and so forth.)		<b>X</b> Replan by end of 2022.	
Review of existing tools for the exchange of patient data		<b>X</b> Replan by end of 2022.	
Preparation of a proposal for more efficient use and upgrading of tools for the exchange of patient data and proposal for complementary services in information sharing		<b>X</b> Replan by end of 2022.	
Presentation of the proposal to ZZZS (administrator of payment models) and Public health institute (administrator of eHealth) to ensure the sus- tainable use	X		
Determination of criteria for CKD screening (clinical pathway for early de- tection of CKD) - population segmentation, risk strata for CKD and the spe- cific set of interventions per strata	Fin- ished.		
Past experience with CKD screening		X Replan by end of 2022.	
Agreement on payment for additional services (lab tests)	Fin- ished		
Carrying out screening in selected family medicine clinics (this activity largely depends on the course of the epidemic in 2022 in the country, as nurses from reference clinics are currently engaged in popula- tion vaccination and testing).			X
Presentation of results and proposal to the Public health institute regard- ing the inclusion of additional tests in the program of family medicine ref- erence clinics, to ensure sustainable implementation of screening	X		
Review of existing patient materials	Fin- ished.		
Update of materials / preparation of new materials for patients		<b>X</b> Replan by the end of	





		October 2022.
Preparation of materials for educators (including how to help patients de- fine their health goals and motivate them to actively participate in health programs linked to preventive care (blood sugar and hypertension control, weight loss, etc.)		X Replan by the end of October 2022.
Publishing materials for patients online and printing	X	
Review of existing contracts	Fin- ished	
Review of existing services paid by ZZZS to health care providers	Fin- ished	
Preparation of a proposal for new services and a proposal for their billing including an analysis of cost savings potentials to define opportunities for financing complementary services where needed.		X Replan by the end of December 2022.
Preparation of a proposal for the General Agreement, as the inclusion of new services in the General Agreement ensures their sustainable use	X	

QUESTIONS	ANSWERS
Any new proposed action for the future?	No.





# 2nd PDSA Cycle

#### Plan

LCF1	New model of	communication betwe	en health care	providers at dif	ferent levels	s (LCF 1)			
				KPIs MEASURE					
Activities (from the LAP)		KPIs (from the LAP)	Who will col- lect the data?	When will the data be col- lected?	How will the data be col- lected?	Tar- get value			
Meetings with NAWG (initial meeting to agree on implementation of activities, follow-up control meetings	<ul> <li>Regular meet- ings with NAWG and project man- agement</li> </ul>	<ul> <li>NAWG</li> <li>Project manage- ment</li> </ul>	October 2021 and every 2 months thereafter	8 meetings held	Martina Zorko Kodelja	At each meeting	At each meeting	8	
Determining criteria for the transition of patients between primary and secondary level (including a population segmentation exercise to group peo- ple in disease stages, define specific cutoff points for each stage and develop specific interventions for each stage, for example: promotion and health education for patients without diagnosis, hypertension or diabetes control for patients at risk and so forth.)	<ul> <li>Determine cri- teria (clinical pathway)</li> </ul>	<ul> <li>Nephrolo- gists and family phy- sicians from NAWG</li> <li>Nephrolog- ical Society</li> </ul>	December 2022	Document with devel- oped crite- ria (Y/N)	Karmen Janša	Q1 2023	Docu- ment	Y	





Review of existing tools for the exchange of pa- tient data	<ul> <li>Get information about the tools</li> <li>Review</li> <li>Prepare a list</li> </ul>	<ul> <li>Nephrologists and family phy- sicians</li> <li>representatives of ZZZS from NAWG</li> <li>Public health institute</li> </ul>	December 2022	List of exist- ing tools (Y/N)	Marjeta Zupet	Q1 2023	List	Y
Preparation of a proposal for more efficient use and upgrading of tools for the exchange of pa- tient data and proposal for complementary ser- vices in information sharing	•	<ul> <li>Nephrologists and family phy- sicians from NAWG</li> <li>ZZZS</li> </ul>	December 2022	Document with pre- pared pro- posal (Y/N)	Marjeta Zupet	Q1 2023	Proposal	Y
Presentation of the proposal to ZZZS (administra- tor of payment models) and Public health insti- tute (administrator of eHealth) to ensure the sus- tainable use	•	• NAWG	January 2023	Minutes of the meeting (Y/N)	Martina Zorko Kodelja	Q1 2023	Meeting	Y

LCF2	Population screening (LCF 2)							
					KPIs MEA			
Activities (from the LAP)	Actions	Actors	Time- line	KPIs (from the LAP)	Who will collect the data?	When will the data be col- lected?	How will the data be col- lected?	Target value





Past experience with CKD screening	<ul> <li>Collect data from pri- mary and secondary levels</li> </ul>	<ul> <li>Nephrolo- gists and family physi- cians from NAWG</li> <li>Nephrologi- cal Society</li> </ul>	De- cem- ber 2022	Report on past experi- ences	Karmen Janša	Q4 2022	Report	Υ
Presentation of results and proposal to the Public health institute regarding the inclusion of additional tests in the program of family medicine reference clinics, to ensure sustainable imple- mentation of screening		<ul> <li>NAWG</li> <li>Public health institute</li> </ul>	De- cem- ber 2022	Minutes of the meeting and agreement on the in- clusion of new tests in the family medicine reference clinics program (Y/N)	Karmen Janša	Q1 2023	Meeting	Y

LCF3	Patient coaching (LCF 3)							
				KPIs MEASURE				
Activities (from the LAP)	Ac- tions	Actors	Time- line	KPIs (from the LAP)	Who will collect the data?	When will the data be collected?	How will the data be col- lected?	Target value
Update of materials / preparation of new materials for patients		<ul> <li>Nephrolo- gists from NAWG</li> <li>Patient Rep- resentative from NAWG</li> </ul>	Octo- ber 2022	Prepared materials	Jelka Lindič	Q4 2022	Prepared materials	10





Preparation of materials for educators (including how to help patients define their health goals and motivate them to actively participate in health programs linked to pre- ventive care (blood sugar and hypertension control, weight loss, etc.)			Octo- ber 2022	Prepared materials	Jelka Lindič	Q4 2022	Prepared materials	10
Publishing materials for patients online and printing	•	<ul> <li>Nephrology Society</li> <li>Patient Association</li> </ul>	Decem- ber 2022	Published materials (Y/N)	Jelka Lindič	Q4 2022	Publication	Y

LCF4	Pay	Payment model (LCF 4)						
					KPIs	MEASURE		
Activities (from the LAP)	Ac- tions	Actors	Timeline	KPIs (from the LAP)	Who will collect the data?	When will the data be collected?	How will the data be col- lected?	Target value
Preparation of a proposal for new services and a proposal for their billing including an analysis of cost savings potentials to define opportunities for financing complementary services where needed.	• []	<ul> <li>Experts for payment models at ZZZS</li> <li>Nephrolo- gists from NAWG</li> </ul>	December 2022	Document with a report on ex- isting services (Y/N)	Marjeta Zupet	Q1 2023	Proposal	Y
Preparation of a proposal for the General Agree- ment, as the inclusion of new services in the Gen- eral Agreement ensures their sustainable use	•	<ul> <li>Experts for payment models at ZZZS</li> </ul>	October 2022 – De- cember 2022	Prepared pro- posal for the General Agree- ment (Y/N)	Marjeta Zupet	Q1 2023	Proposal	Y





### Do

Cycle number (1 or 2)	2	
Activity	КРІ	Actual value
Meetings with NAWG (initial meeting to agree on implementation of activities, follow-up con- trol meetings	8 meetings held (to- gether in both cycles)	6 + 2 25.11.2021 22.12.2021 23.2.2022 17.3.2022 20.5.2022 13.7.2022 22.9.2022 19.10.2022
Determining criteria for the transition of pa- tients between primary and secondary level (in- cluding a population segmentation exercise to group people in disease stages, define specific cutoff points for each stage and develop specific interventions for each stage, for example: pro- motion and health education for patients with- out diagnosis, hypertension or diabetes control for patients at risk and so forth.)	Document with de- veloped criteria (Y/N)	Y
Review of existing tools for the exchange of pa- tient data	List of existing tools (Y/N)	N In progress. Will be done later in 2023, out- side of JA JADECARE timeline.
Preparation of a proposal for more efficient use and upgrading of tools for the exchange of pa- tient data and proposal for complementary ser- vices in information sharing	Document with pre- pared proposal (Y/N)	N In progress. Will be done later in 2023, out- side of JA JADECARE timeline.
Presentation of the proposal to ZZZS (adminis- trator of payment models) and Public health in- stitute (administrator of eHealth) to ensure the sustainable use	Minutes of the meet- ing (Y/N)	N Not yet started. Will be done later in 2023, out- side of JA JADECARE timeline.
Past experience with CKD screening	Report on past expe- riences (Y/N)	<ul> <li>Y – partially (not in the extent we planned to).</li> <li>We contacted several health centers for their data on screen- ing.</li> <li>Only some replied (Health Cen- ter Maribor, Health Center Slovenj Gradec).</li> <li>We got the data on screening for other specialities, such as di- abetes, stroke, heart attack.</li> <li>Reference clinics do not have any data on CKD.</li> <li>We collected and studied sev- eral analysis made in past.</li> </ul>





Presentation of results and proposal to the Pub- lic health institute regarding the inclusion of ad- ditional tests in the program of family medicine reference clinics, to ensure sustainable imple- mentation of screening	Minutes of the meet- ing and agreement on the inclusion of new tests in the fam- ily medicine refer- ence clinics program (Y/N)	N Not yet started. Will be done later, outside of JA JADECARE timeline. At the moment the family medi- cine is in big crisis, we are facing a shortage of family medicine doctors. Also, a change in the role of reference clinics and nurses is being done on the na- tional level. This activity will be done as soon as the situation in family medi- cine and reference clinics calms down.
Update of materials / preparation of new mate- rials for patients	Prepared materials	Y 55 materials reviewed and up- dated
Preparation of materials for educators (including how to help patients define their health goals and motivate them to actively participate in health programs linked to preventive care (blood sugar and hypertension control, weight loss, etc.)	Prepared materials	Y 8 materials reviewed and up- dated
Publishing materials for patients online and printing	Published materials (Y/N)	Y All materials published on the in- ternet.
Preparation of a proposal for new services and a proposal for their billing including an analysis of cost savings potentials to define opportunities for financing complementary services where needed.	Document with a re- port on existing ser- vices (Y/N)	N In progress: working on details with nephrology specialists. Our (ZZZS) internal plan is to start using the new payment model on 1.1.2024.
Preparation of a proposal for the General Agree- ment, as the inclusion of new services in the General Agreement ensures their sustainable use	Prepared proposal for the General Agreement (Y/N)	N In progress. Our (ZZZS) internal plan is to start using the new payment model on 1.1.2024. Proposal for the General Agree- ment must be prepared until September 2023 (according to our (ZZZS) internal timeline).





QUESTIONS	ANSWERS
What was actually implemented? Any deviation from the planned actions	We had 2 meetings. Some activities are late and will be finished outside the JA JADECARE timeline. Education materials were renewed and published as planned. Payment model will be prepared according to our internal timeline (to be included into the General Agreement for 2024).
Problems? Unex- pected findings? Please describe	<ol> <li>Lack of financial resources for an integrated solution.</li> <li>There is a huge amount of reporting on the project.</li> <li>Lack of staff (due to other priorities)</li> <li>Short time of the project.</li> <li>Crisis of the family medicine in Slovenia.</li> <li>We did not receive a lot of input (data, analysis) form health care providers.</li> </ol>

IMPLEMENTATION PROGRESS OF THE LOCAL GOOD PRACTICE							
0-25% 25-50% 50-75% 75-100%							
X							

### Study

Cycle number (1or 2	2)	2				
Activity	КРІ	Target value (from PLAN)	Actual value (from DO)	Reasons for the devi- ations	Mitigation actions imple- mented	Impact of mitigation actions
Meetings with NAWG (initial meeting to agree on implementa- tion of activities, follow-up control meetings	8 meetings held	8 (for both PDSA cycles)	6 + 2 25.11.2021 23.2.2022 17.3.2022 20.5.2022 13.7.2022 22.9.2022 19.10.2022	No deviation	-	-
Determining crite- ria for the transi- tion of patients between primary and secondary level (including a population seg- mentation exer- cise to group peo- ple in disease	Document with devel- oped crite- ria (Y/N)	Y	Y	No deviation	-	-





stages, define spe- cific cutoff points for each stage and develop specific interventions for each stage, for ex- ample: promotion and health educa- tion for patients without diagnosis, hypertension or di- abetes control for patients at risk and so forth.)						
Review of existing tools for the ex- change of patient data	List of ex- isting tools (Y/N)	Y	N In pro- gress. Need to re- plan.	Started with the activ- ity later than planned due to other priorities of employees.	Accelerate activities Replan to our inter- nal (ZZZS) plans for 2023.	This activ- ity will fin- ish outside the JA JADECARE timeline.
Preparation of a proposal for more efficient use and upgrading of tools for the exchange of patient data and proposal for complementary services in infor- mation sharing	Document with pre- pared pro- posal (Y/N)	Y	N Not yet started.	Connected to the pre- vious activity.	Accelerate activities Replan to our inter- nal (ZZZS) plans for 2023.	This activ- ity will fin- ish outside the JA JADECARE timeline.
Presentation of the proposal to ZZZS (administra- tor of payment models) and Public health institute (administrator of eHealth) to ensure the sustainable use	Minutes of the meet- ing (Y/N)	Ŷ	N Not yet started.	Connected to the pre- vious activity.	Accelerate activities Replan to our inter- nal (ZZZS) plans for 2023.	This activ- ity will fin- ish outside the JA JADECARE timeline.
Past experience with CKD screen- ing	Report on past expe- riences (Y/N)	Y	Y	-	-	-
Presentation of re- sults and proposal to the Public health institute re-	Minutes of the meet- ing and agreement	Y	Ν	Not yet started due to crisis in the family medicine (shortage).	This activ- ity will be done as soon as	This activ- ity will be done out- side the JA





garding the inclu- sion of additional tests in the pro- gram of family medicine refer- ence clinics, to en- sure sustainable implementation of screening	on the in- clusion of new tests in the fam- ily medi- cine refer- ence clinics program (Y/N)				the situa- tion in family medicine and refer- ence clin- ics calms down. Plan inter- nally for 2024.	JADECARE timeline.
Update of materi- als / preparation of new materials for patients	Prepared materials	10	Y	55 materials reviewed and updated.	-	-
Preparation of ma- terials for educa- tors (including how to help pa- tients define their health goals and motivate them to actively participate in health programs linked to preven- tive care (blood sugar and hyper- tension control, weight loss, etc.)	Prepared materials	10	Υ	55 materials reviewed and updated.	-	-
Publishing materi- als for patients online and printing	Published materials (Y/N)	Y	Y	All materials pub- lished on the internet. http://www.nephro- slovenia.si	-	-
Preparation of a proposal for new services and a pro- posal for their bill- ing including an analysis of cost savings potentials to define opportu- nities for financing complementary services where needed.	Document with a re- port on ex- isting ser- vices (Y/N)	Y	N In progress	Working on details with nephrology spe- cialists.	The Pay- ment model will be fin- ished by End of June 2023.	Our (ZZZS) internal plan is to start using the new payment model on 1.1.2024.
Preparation of a proposal for the General Agree-	Prepared proposal for the General	Y	N In progress	The final version will be prepared after the previous activity is fin- ished (June 2023).	The pro- posal for the Gen- eral	Our (ZZZS) internal plan is to start using





, ,	greement /N)	Agree- ment must be ready in Septem- ber 2023.	model on
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### Act

Cycle number (1 or 2)	1		
Activity	Maintain	Adapt	Aban- don
Meetings with NAWG (initial meeting to agree on implementation of activities, follow-up control meetings	X Meetings also in 2023, until all activities are finished.		
Review of existing tools for the exchange of patient data		X Accelerate activities Replan to our internal (ZZZS) plans for 2023.	
Preparation of a proposal for more efficient use and upgrading of tools for the exchange of patient data and proposal for complementary services in information sharing		X Accelerate activities Replan to our internal (ZZZS) plans for 2023.	
Presentation of the proposal to ZZZS (administrator of payment models) and Public health institute (ad- ministrator of eHealth) to ensure the sustainable use		X Accelerate activities Replan to our internal (ZZZS) plans for 2023.	
Presentation of results and proposal to the Public health institute regarding the inclusion of addi- tional tests in the program of family medicine ref- erence clinics, to ensure sustainable implementa- tion of screening		X This activity will be done as soon as the situation in family medicine and refer- ence clinics calms down. Plan internally for 2024.	
Preparation of a proposal for new services and a proposal for their billing including an analysis of cost savings potentials to define opportunities for financing complementary services where needed.		XReplan - The Payment model will be finished by End of June 2023.	





Preparation of a proposal for the General Agree- ment, as the inclusion of new services in the Gen-	x	
eral Agreement ensures their sustainable use	Replan - The proposal for the General Agreement must be ready in Septem- ber 2023.	

QUESTIONS	ANSWERS
Any new proposed action for the future?	No.



# Post-implementation

ITEM	ANSWER
Title and Abstr	act
Title	Integrated care in nephrology
Abstract	Our long-term quadruple goal is to improve the health of the population in the field of CKD, increase the satisfaction and empowerment of patients with CKD, increase the satisfaction of health professionals with new education and prevention options and save money on hospitalizations, drugs and dialysis. These are the goals we are striving for in the next few years. However, as time within JA JADECARE is limited, we will focus mainly on the preparation of starting points for improving communication between the primary and secondary level, for improving preventive activities in the field of CKD, for billing new services (especially educational) in the field of CKD. We will prepare new educational materials and review the existing ones to increase the empowerment of patients. To ensure the success of our activities, we have included all interested parties in the NAWG (family physicians, nephrology specialists, payment model experts, nephrology patients' association). We will also invite experts from the field of family medicine reference clinics and e-Medical record from the public health institute to participate in the planned activities to ensuring sustainability use of the proposed solutions.
Why did you start?	Answer
Problem de- scription	<ul> <li>Chronic kidney disease (CKD) is becoming a major health and cost problem in Europe and in our country, as it is associated with high morbidity, mortality and treatment costs. The World Health Organization therefore ranked chronic kidney disease as a priority in 2006 in the treatment of non-communicable chronic kidney disease. According to epidemiologic research in EU countries, the prevalence of chronic kidney disease exceeds even the prevalence of diabetes, the control of which is defined by most western countries and Slovenia as the main goal of public health - at least every tenth adult has CKD.</li> <li>The final and irreversible condition of chronic kidney disease is end-stage renal failure, which is associated with significantly poorer quality of life and high costs to the health system. It is estimated that as much as 2% of available funding is used to replace end-stage renal disease in Europe, which is needed by 0.1% of the population. We have effective preventive measures at our disposal to prevent the development of renal failure, as well as cheap treatment that can slow down or even stop the progression of chronic kidney disease and its complications, which are the most common cause of morbidity and premature mortality in these patients.</li> <li>Regarding the financial burden, it is setimated that at least 2%, and at most 5-6% of the available financial resources are used for the replacement treatment of end-stage renal failure in Europe, which is needed by 0.1 to 0.2% of the population. In Slovenia, according to ZZZS data, there were 2,700 people in the chronic dialysis program in 2019 and 2,795 people in 2021. 53 people in 2021 and 37 people in 2019 and 2.2% in 2021 of all expenses for health services from mandatory health insurance.</li> <li>According to epidemiological research in EU countries, we estimated, that currently 150.000 to 200,000 people in Slovenia have CKD. Due to greater awareness of the profeersion and lay people and the establishment of family medicine re</li></ul>

Co-funded by the Health Programme of the European Union





	<ul> <li>We believed that it was high time that we recognized CKD as an important problem in maintaining public health and take action in this regard. Therefore, we proposed a new comprehensive approach to the management of chronic kidney disease. In this way we wanted to improve:         <ul> <li>preventive measures,</li> <li>early detection and</li> <li>staged treatment of a patient with chronic kidney disease at the primary, secondary and tertiary levels.</li> </ul> </li> <li>We wanted to support these clinical goals with new organizational approaches and a customized payment model.</li> </ul>
Available knowledge	<ul> <li>Jelka Lindič. Nov model zdravstvene obravnave ljudi s kronično ledvično boleznijo. Slovensko nefrološko društvo. 2020.</li> <li>Bojan Vujkovac et al.: Solutions for management of chronic kidney disease (CKD). Healthdays.si, Ljubljana, 10th of October 2019</li> <li>Bojan Vujkovac: Drugačna obravnava kroničnih bolezni – KLB kot model. Pred- stavitev na Ministrstvu za zdravje, 18. 4. 2017</li> <li>Valentijn et al.: Value-based integrated (renal) care: setting a development agenda for research and implementation strategies. BMC Health Services Research (2016)</li> <li>Case study – Innovating the ESRD model of care to achieve the triple aim. DaVita HealthCare Partners Inc., 2015</li> <li>Renal integrated care pathway - Guide for Victorian renal services. State of Victoria, June 2016, ISBN 978-0-7311-6965-8.</li> <li>Narva AS,Norton MJ and Boulware RE. Educating Patients about CKD: The Path to Self-Management and Patient-Centered Care. Clin J Am Soc Nephrol. 2016 Apr 7; 11(4): 694–703.</li> <li>Golestaneh, Ladan All-Cause Costs Increase Exponentially with Increased Chronic Kidney Disease Stage, AJMC, Vol. 23; No. 10, Sup. June 2017.</li> </ul>
Rationale	At ZZZS, we have a department that deals with updating and developing payment models for health services. Our task is to update existing models based on calls from the field (pro- fession) in cooperation with the profession, and to study new types of payment models used elsewhere in the world. The goals we pursue in the preparation of new payment models: – ensure the best treatment outcomes for patients (comprehensive care and quality), – include the use of newer technologies, – promote the efficient performance of services and economical use of materials, – determine service prices based on cost analyses, – minimize administrative burdens, – provide the basis for simple and effective control. The ZZZS internal team was very interested in studying and implementing the Optimedis model. After careful examination of the Optimedis model, we found that due to legal re- strictions, it will not be possible to fully transfer it into the Slovenian healthcare system, but individual building blocks could be implemented. That's why we focused on transferring the idea that by investing more in preventive and educational activities, we can reduce treat- ment costs. Our greatest advantage for the introduction of good practice in the field of CKD is in a highly professional and working group consisting of nephrology specialists, family medicine doctors, a specialist in clinical laboratory medicine, a patient representative and experts in the field of economics in healthcare and billing models. Other advantages are the previous experience and good organization of primary health care regarding the implementation of





	preventive activities, detection and management of individual non-communicable chronic diseases, a highly professional, interested and proactive group for CKD at the Slovenian Nephrological Society, social activities of kidney patients and a trained team at ZZZS for working with structured and digitized data from health services and the development of billing models.
Specific aims	<ul> <li>to improve the health of the population: prolonging the quality of life of persons with CKD, early detection and slowing down of the progression of the disease, and preservation of the ability to work and social inclusion;</li> <li>to improve the experience of people with health care: achieve good empowerment of people with CKD regarding nutrition, physical activity, risk factors and complications at all stages of CKD from detection to end-stage renal failure;</li> <li>reduce unnecessary costs: with good organization of processes, early recognition and treatment of diseases, there will be fewer complications, less need for expensive drugs, reduction of hospital treatments and prevention or postponement of the start of kidney replacement therapy;</li> <li>to ensure the satisfaction of the service provider: the introduction of new organizational and integrated pathways and the introduction of additional services will enable providers to work of a higher quality;</li> </ul>
What did you do?	Answer
Context	Results from SWOT





	STRENGTHS	WEAKNESSES
INTERNAL	<ul> <li>General strengths:</li> <li>NAWG brings together experts from all relevant fields to introduce the Optimedis oGP in the field of neph- rology (nephrologists, experts in payment models)</li> <li>Existence of good practices in the field of innovative payment models (Optimedis) that we will use</li> <li>Participation in JA JADECARE</li> <li>The small size of our country and in- dividual institutions</li> <li>Strengths of ZZZS:</li> <li>We are a quickly responsive group of experts (Field of Analytics and Development) with a good knowledge of payment models (cur- rent in Slovenia)</li> <li>We have established links at other institutions that are crucial in the introduction of good practice (NIJZ, Slovenian Nephrological Society)</li> <li>Qualified team for working with data and BI tools</li> <li>We have a lot of data on performed and paid health services (form bill- ing data)</li> </ul>	<ul> <li>Weaknesses of ZZZS:</li> <li>A small group of internal experts primarily engaged in other tasks</li> <li>Lack of initial financial resources (to launch the OptiMedis model)</li> <li>We do not have yet established management based on data (analysis, business indicators, quality indicators) for the field of CKD</li> <li>No connection to other (non-billing) data</li> </ul>
	<ul> <li>Strengths of primary health care:</li> <li>Good organization of primary health care in terms of preventive activities;</li> <li>Already established organization of detection and management of indi- vidual chronic diseases at the pri- mary level: specially trained gradu- ate nurse within the family doctor's clinic;</li> <li>Already established organization of educational workshops for a healthy lifestyle and certain chronic diseases: Health Education Centers, Health Promotion Centers;</li> </ul>	<ul> <li>Weaknesses of primary health care:</li> <li>Poor opportunities for structured communication between a family doctor and a specialist nephrologist</li> <li>Preventive check-up programs in reference clinics do not include searching for patients with CKD</li> </ul>





<ul> <li>Good access to nephrology specialists</li> <li>Willingness to cooperate with secondary / tertiary health care</li> <li>Strengths of nephrology specialist activity:         <ul> <li>Proactivity of nephrologists</li> <li>Highly professional, interested and self-initiated working group for CKD at the Slovenian Nephrological Society.</li> <li>Existence of good practices in the field of connection between primary health care and nephrology specialist, new approach to the treatment of persons with CKD, especially in the field of monitoring of patients and education of patients</li> </ul> </li> <li>Strengths of patient groups:         <ul> <li>Kidney patients are well organized in the patient society</li> <li>The existence of many educational materials</li> </ul> </li> </ul>	<ul> <li>Weaknesses of nephrology specialist activity:</li> <li>The contracts with ZZZS do not define clear teams for the field of specialist nephrology treatment (they only operate within specialist internal medicine clinics)</li> <li>Outdated payment model: there are no built-in incentives for the implementation of education and diet therapy, which is necessary for the empowerment of people with CKD.</li> </ul>
<ul><li>materials</li><li>Patients' interest in innovations in the field of prevention and educa-</li></ul>	
tion OPPORTUNITIES	THREATS
- Existing program: New model of	





	- Existence of an interoperable spine (but only in one direction - from the secondary / tertiary to the primary level)	<ul> <li>The use of existing IT tools is not widespread enough,</li> <li>Lack of a register of patients with CKD.</li> <li>Changes in payment models are limited by existing legislation, the General Agreement and the resources available.</li> <li>Team expansions at the specialist level require additional funding.</li> <li>The unacceptability of the new model among the partners of the General Agreement</li> </ul>		
	<ul> <li>fine the rules when the patient is sent for ble the exchange of data in both direction</li> <li>Establish conditions for education at the</li> <li>Cooperation with primary health care, wareference clinics, regarding detection ar CKD.</li> <li>Collaborate with partners in the preparation</li> </ul>		a- th	
	<ul> <li>model.</li> <li>Target population: <ul> <li>Approximately 10% are patients at high risk for CKD.</li> <li>For preventive screening, those older than 50 years are eligible.</li> </ul> </li> <li>Team involved:</li> </ul>			
	ZZZS ZZZS	Organizer (Project manager)1Experts:4- payment models experts,4		
Interven-	Slovenian Nephrological Society	- medical doctor Experts: medical doctors, nephrol- 3 ogy specialists		
tion(s)	Nephrology specialists: - General hospital Slovenj Gradec, - University medical center Ljubljana	Experts: medical doctors, nephrol- ogy specialists, Front-line stake- holders, Implementers		
	Family medicine practises with reference clinics (FMP): Health centre Slovenj Gradec, a smaller health centre from Ljubljana re- gion)	Experts: medical doctors, family1medicine specialists, nurses, Front-ine stakeholders, Implementers		
	Patient Representative - Association of Kid- ney Patients' Associations)	Patient 1		
	Slovenian Association for Clinical Chemistry and Laboratory Medicine	Biochemist 1		
Study of the Interven- tion(s)		in practice ment of new services (General Agreemen number of services, costs, performed lab		





ARE, as the time period was too short         Regular meetings of the NAWG         Determining the criteria for CKD screening         Collect reports/analysis on past experiences with CKD         Prepare materials for education of patients         Prepare alist of new services and their funding         Inclusion of new services into the General agreement         Qualitative and quantitative data         Compare KPIs with implementation status,         Assess and quantity anticipated outputs,         Study data: demographic, health insurance, health care services data, billing data         stakeholder meetings         discuss findings at national and international workshops/conferences.         What did you         find?         What was implemented:         Some activities were late in comparison with the plan (determining criteria, tools, collecting data) and will be finished outside the JADECARE timeline.         Due to pandemic, we decided not to undertake the screening of patients in family medicine clinics. Instead, we went through some analysis of CKD screening (articles).         Problems:       Impact of the epidemic:         Lack of time of co-workers (clinics) in the project       Impact of the epidemic:         Lack of timacial resources for an integrated solution.       Things are going slower than we would like         During the planning the Optimedis model, we found that due to legal restrictions we c			
• Regular meetings of the NAWG         • Determining criteria for CKD screening         • Collect reports/analysis on past experiences with CKD         • Prepare alist of new services and their funding         • Inclusion of new services into the General agreement         Qualitative and quantitative data         • Compare KPIs with implementation status,         • Assess and quantify anticipated outputs,         • Assess and quantify anticipated outputs,         • Assess and quantify anticipated outputs,         • discuss findings at national and international workshops/conferences.         What did you         find?         What was implemented:         Some activities were late in comparison with the plan (determining criteria, tools, collecting data) and will be finished outside the JADECARE timeline.         Due to pandemic, we decided not to undertake the screening of patients in family medicine clinics. Instead, we went through some analysis of CKD screenings (articles).         Problems:       • Impact of the epidemic:         • Inability to perform certain activities – screening         • Thrie is a huge amount of reporting on the project.         • Lack of financial resources for an integrated solution.         • Lack of staff (due to other priorities)         • Study data concernation we cannot fully transfer it to the Slovenian environment.         • Lack of staff (due to other proiroting on the		We estimate that the effect will only show up in the analysis after the completion of JADEC-	
• Determining criteria for the transition of patients between levels         • Determining the criteria for CKD screening         • Collect reports/analysis on past experiences with CKD         • Prepare materials for ducation of patients         • Prepare materials for ducation of patients         • Prepare materials for ducation of patients         • Prepare alist of new services and their funding         • Inclusion of new services into the General agreement         Qualitative and quantitative data         • Compare KPIs with implementation status,         • Assess and quantify anticipated outputs,         • Study data: demographic, health insurance, health care services data, billing data         • stakeholder meetings         • discuss findings at national and international workshops/conferences.         What did you         find?         What did you         find?         What did you         find?         What did you         find?         What did you         inscrete         Oue to pandemic, we decided not to undertake the screening of patients in family medicine clinics. Instead, we went through some analysis of CKD screenings (articles).         Problems:         • Impact of the epidemic:         • Lack of financial resources for an integrated solution.			
Measures       • Collect reports/analysis on past experiences with CKD         • Prepare a list of new services in the if funding         • Inclusion of new services in the General agreement         Qualitative and quantitative data         • Compare RPIs with implementation status,         • Assess and quantify anticipated outputs,         • Study data: demographic, health insurance, health care services data, billing data         • stakeholder meetings         • discuss findings at national and international workshops/conferences.         What did you         find?         Via twas implemented:         Some activities were late in comparison with the plan (determining criteria, tools, collecting data) and will be finished outside the JA JADECARE timeline.         Due to pandemic, we decided not to undertake the screening of patients in family medicine clinics. Instead, we went through some analysis of CKD screenings (articles).         Problems:       • Impact of the epidemic:         • Lack of time of co-workers (clinics) in the project       • Inability to perform certain activities – screening         • During the planning and implementation, we discovered many other activities that would be necessary for the implementation of the entire payment model.         • Lack of financial resources for an integrated solution.         • There is a huge amount of reporting on the project.         • After carefully examining the Optimedis model, we found that due to legal r			
<ul> <li>Prepare materials for education of patients         <ul> <li>Prepare alist of new services and their funding             <ul></ul></li></ul></li></ul>			
<ul> <li>Prepare a list of new services and their funding         <ul> <li>Inclusion of new services into the General agreement</li> <li>Coulitative and quantitative data</li> <li>Compare KPIs with implementation status,</li> <li>Assess and quantify anticipated outputs,</li> <li>Study data: demographic, health insurance, health care services data, billing data</li> <li>stakeholder meetings</li> <li>discuss findings at national and international workshops/conferences.</li> </ul> </li> <li>What did you find?</li> <li>Answer</li> <li>What was implemented:</li> <li>Some activities were late in comparison with the plan (determining criteria, tools, collecting data) and will be finished outside the JA JADECARE timeline.</li> <li>Due to pandemic, we decided not to undertake the screening of patients in family medicine clinics. Instead, we went through some analysis of CKD screenings (articles).</li> <li>Problems:         <ul> <li>Lack of time of co-workers (clinics) in the project</li> <li>Inability to perform certain activities – screening</li> <li>Things are going slower than we would like</li> <li>During the planning and implementation of the entire payment model.</li> <li>Lack of financial resources for an integrated solution.</li> <li>There is a huge amount of reporting on the project.</li> <li>After carefully examining the Optimedis model, we found that due to legal restrictions we cannot fully transfer it to the Slovenian environment.</li> <li>Lack of staff (due to other priorities)</li> <li>Short time of the project.</li> <li>Crisis of the family medicine in Slovenia.</li> <li>We did not receive a lot of input (data, analysis) form health care providers.</li> </ul> </li> <li>Unexpected findings         <ul> <li>Above all, workin</li></ul></li></ul>	Measures		
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<ul><li>els.</li><li>Identification of additional issues that need to be regulated in the system, and we</li></ul>			
have approached the regulation within the project or outside.			





What does it mean?	Answer	
Summary	<ul> <li>Whereas all LGP components are relevant, the entire program was too ambitious for the time available. Many processes have started but are not yet finalised. It is important, however, that we agreed with medical experts on new clinical routes, criteria for screening, prepared a list of additional services, and that all this will be officially confirmed in the General Agreement in 2024.</li> <li>For ZZZS, the cooperation with JADECARE and the implementation of the new payment model for CKD was also useful because we learned about a new way of cooperation with the medical profession in the preparation/renewal of the payment model, which we will definitely use in the future.</li> </ul>	
Interpreta- tion	During the Scope definition process, we examined several studies in the field of the useful- ness of preventive activities for the prevention of chronic diseases (mentioned in chapter Available knowledge). We expect that positive effects will also be seen in our case, but only after the completion of JADECARE. The NAWG reports on the successful and effective cooperation of different levels of health care (primary and secondary level) and the payer of health services (ZZZS), which is crucial for the implementation of solutions that actually bring gains for all stakeholders. As for costs, they will initially increase due to additional screenings and additional patient education services. However, research and experience from other settings show that in the long run, investing in preventive activities will reduce treatment costs.	
Limitations	As we have already mentioned, in Slovenia we have a legal arrangement in the field of health care and health insurance, which does not allow the complete transfer of Optimedis model, or legal changes would be necessary, but it would not be possible to implement them in the short time of the project. The availability of data should also be mentioned. At ZZZS, we collect data on the health care services provided, their costs, by patient. Extensive analytics is enabled. However, for the interpretation of the analytics, we absolutely need the cooperation of experts from the individual health field, to give it the correct context.	
Conclusions	<ul> <li>JADECARE made it possible to closely examine the Optimedis model and share experiences with other next adopters. In the field of nephrology, certain improvements have been introduced due to JADECARE. Our goal is to extend the JADECARE experience to other areas (other chronic diseases).</li> <li>Next steps will be: <ul> <li>ZZZS will implement the changes within General Agreement including defined funding mechanisms to integrate care for patients with chronic kidney disease by January 2024.</li> <li>ZZZS and network of key partners from JADECARE project will implement system level changes to implement care pathway for patients with chronic kidney disease, with defined roles, responsibilities and protocols by January 2024.</li> <li>A working group established in JADECARE will continue to exist under leadership of ZZZS and will hold the responsibility for activities after JADECARE ends from October 2023 onwards (at minimum until the end of 2025).</li> </ul> </li> </ul>	





	<ul> <li>The working group will develop a plan of activities to support the scaling-up of JADECARE key results in the field of chronic kidney disease management by November 2023.</li> <li>The working group will develop a plan of activities to support the scaling-up of JADECARE key results in other field of chronic disease management by November 2024.</li> </ul>	
Other infor- mation	Answer	
Funding	<ul> <li>In parallel to the EU JADECARE programme, which mainly funds the exchange of expertise, local activities were funded by: <ul> <li>Slovene Nephrology Society (educational materials, work of nephrology specialists)</li> <li>ZZZS (budget for additional health care services)</li> </ul> </li> </ul>	