

Smart Health Pilot Plenary Event

26 April 2022

Flemish Parliament, Brussels

Agenda of the afternoon

13:30 - 13:40	Welcome & presentation of the Smart Health Pilot – Kathleen D'Hondt & Jolien Roovers, Flanders Government		
13:40 - 13:50	EU funding for Personalised Medicine research – Indridi Benediktsson, DG RTD		
13:50 - 14:00	Presentation of the European Partnership for Personalised Medicine (EP PerMed) – Ejner Moltzen, Chair of ICPerMed		
14:00 - 14:15	Smart Specialisation Strategies & EU funding programmes supporting Smart Health – Marc Pattinson, G.A.C.		
14:15 - 15:15	 Presentation of four Smart Health Pilot demo cases: Mobile Health (r)evolution, Alenka Brvar, SIS EGIZ We Are, Elfi Goesaert, VITO Topfit/ Diabetes on Return, Anneliene Jonker, University of Twente RegMed XB, Bernand Mulder, RegMed XB 		
15:15- 15:30	 New Pilot project ideas: BISCI Platform presentation, Roel Willems Brightlands/ University Maastricht Open pitch session with participants 		
15:30 - 16:00	Coffee & tea networking break		
16:00 - 16:45	 Parallel breakout sessions on three key topics: Break out session 1: The use of smart technologies to optimise complex medical goods and service supply chains, Roel Willems, University of Maastricht Break out session 2: VI Smart Health Pilot as partner in EP PerMed – Ejner Moltzen, ICPerMed Break out session 3: Cross-border funding mechanisms – Zoom on I3 and Interreg Europe – Marc Pattinson, G.A.C. 		
16:45 - 17:00	Takeaways from the breakout sessions by rapporteurs & wrap up, Kathleen D'Hondt		

Welcome & introduction to the VI Smart Health Pilot 13:30 – 13:40

Kathleen D'Hondt & Jolien Roovers, Policy Advisors Department Economy, Science and Innovation, Flanders Government

Smart Health pilot - Context and background

- Rooted in the S3P4PM Partnership-Smart Specialisation Strategies (S3) Modernisation partnership for Personalised Medicine
- Launched in April 2021
 - 7th and youngest pilot of Vanguard Initiative
- Three co-leading regions: Flanders, East Netherlands, and South Netherlands
- 12 regions involved



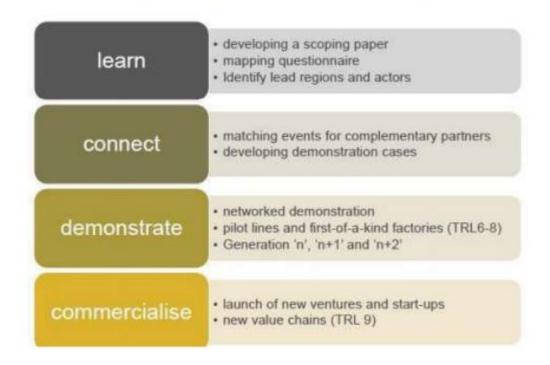
https://www.s3vanguardinitiati

ve.eu/pilots/our-pilots

Objectives

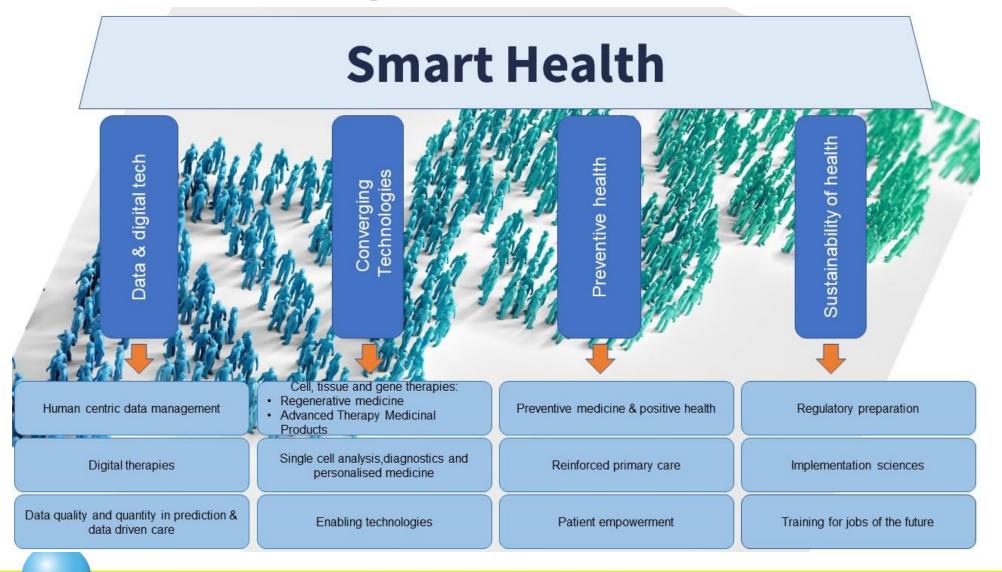
Transform the connected European value chains on Personalised Medicine (PM) and smart health, by combining biomedical, technological and data-driven expertise.

Figure 2: Vanguard Initiative methodology

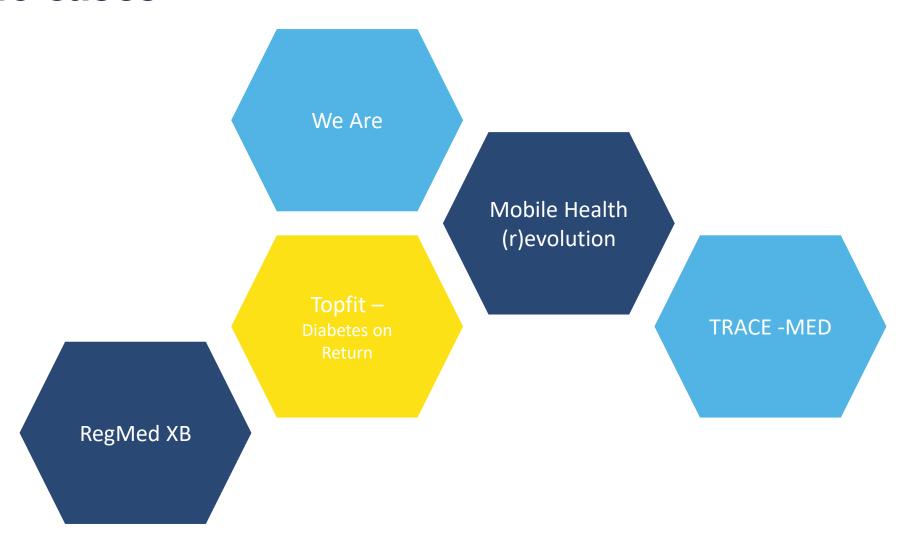


Source: Vanguard website

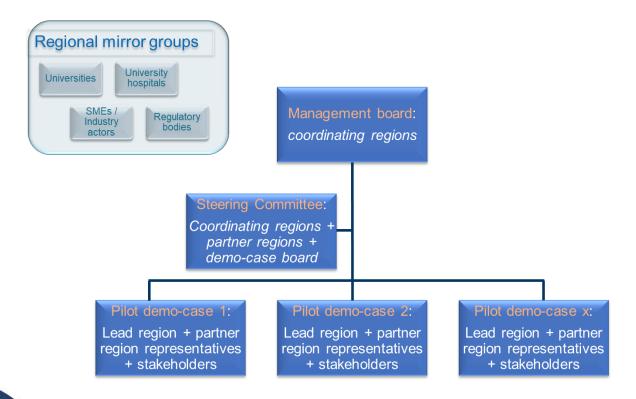
VI Smart Health scope



Demo cases



Governance structure



Steering Committee

- Short- and long-term goals: create impact
- Framework: monitoring and evaluation of pilot demo-cases
- Communication & dissemination at pilot level, to regional partners
 - create awareness,
 - engage regional stakeholders, industry
- Support demo-cases and regions
 - increase uptake
- Role & interaction with regional mirror groups

Demo-case board

- Day to day management of the demo-case
- Financial and technical management
- Reporting to the steering committee and management board
- Communication & dissemination to the general public, management board and steering committee on demo-case events, updates, and achievements.

Potential linkages

- New Nano-Enabled Products Pilot VI
 - Nano-Enabled Microsystems for Bio-analysis (NeMs4Bio)
 - microfluidics and sensor chips for bio-analytical purposes, including for medical diagnostics, bioprocess monitoring.
 - interoperable technologies, connecting up-scalable manufacturing facilities and design, test, and modelling methods for bio-functionalisation, nano-functionalisation, and heterogeneous cross-KET sensor integration with microfluidics.
- High Performance Production through 3D-Printing VI
 - HealthCare case : Protheses and implants
- > S3P4PM, S3 MedTech, S3 Sport, Cybersecurity, Food-health
- > HE Partnership PerMed including role of regions
 - SAPHIRe, Regions4PerMed ICPerMed





Thank you!



Kathleen.dhondt@vlaanderen.be Jolien.roovers@vlaanderen.be



EU funding for Personalised Medicine research *13:40 – 13:50*

Dr. Indridi Benediktsson, Health Research DG Research – European Commission

Presentation of the European Partnership for Personalised Medicine (EP PerMed)

13:50 - 14:00

Ejner Moltzen, Innovation Fund Denmark, Member of the EP PerMed drafting group

European Partnerships under Horizon Europe 7-10 years of duration

CLUSTER 1: Health			
(1) Innovative Health Initiative (IHI)	2022-2032		
(2) Global Health Partnership	2022-2032		
(3) Transformation of Health Systems (THCS)	2023-2033		
(4) Chemicals Risk Assessment	2022-2032		
(5) ERA for Health (ERA4Health)	2023-2033		
(6) Rare Diseases	2024-2034		
(7) One-Health / Anti-Microbial Resistance	2024-2034		
(8) Pandemic Preparedness	2024-2034		
(9) Personalised Medicine (EP PerMed)	2023-2033		

The EP PerMed Vision

The vision of the European Partnership for Personalised Medicine is to improve health outcomes within sustainable healthcare systems through research, and the development and implementation of personalised medicine approaches for the benefit of patients, citizens and society.

EP PerMed – the concept

Improved health outcomes for citizens and patients

Multidisciplinary
basic
research
research
permed

Demonstration
projects and pilots

Opensions of the project of the project

Europe at the forefront of Research and Innovation, in collaboration with international partners

Optimised and sustainable healthcare

PM SRIA and priority setting
Suitable policy and regulatory frameworks
Dissemination, knowledge exchange, communication
and
Participation of all keyplayers

EP PerMed – regional involvement

- EP PerMed offers the opportunity for regional and national research and innovation communities to connect and cooperate in the various disciplines of PM on European and international level.
- Regions can become "**active"** (Beneficiary with tasks and budget) or more "<u>passive</u>" (Partner with participation in joint calls and other activities) of the European Partnership for Personalised Medicine.
- Pilots or distinct studies with a focus of PM research, innovation and implementation on regional level are possible via EP PerMed.
- Regional health systems or other specific settings could be the perfect setting and basis for Research and Implementation projects of innovative personalised approaches.

EP PerMed – where we are

- Preparatory Group (IC PerMed, ERA PerMed & EC), 2020-2021
- Member States (MS) & EC Group and Drafting Group, 10/2021
- 1st draft Proposal forwarded to the EC, 11/2021
- Feedback from the EC, 12/2021
- EC budget request to MS, 02/2022
- EP PerMed call published, 2022
- Development of an EP PerMed SRIA (Strategic Research and Innovation Agenda), 1st draft June 2022
- EP PerMed proposal submission, 2023
- Start of EP PerMed, 2023 -2033

Thanks for your attention

Smart Specialisation Strategies & EU funding programmes supporting Smart Health

14:00 - 14:15

Marc Pattinson, Innovation and Territories Director, G.A.C. Group

INTERREGIONAL REGIONAL DEVELOPMENT AND PERSONALISED MEDICINE - some funding programmes

A wide variety of policy tools and funding opportunities to support interregional cooperation and projects... important to align with your regional ecosystem priorities and regional/national funding - some insights

- Smart Specialisation Strategies and regional funding via ERDF calls opening ...
- Territorial and cross border initiatives: DG Regio linked to S3 Partnerships (new initiative expected in 2022)
- New programme call I3 Interregional Innovation Investments Instrument- next deadline 18 October 2022

Interreg Europe 2021-27 Call launched in April 2022 - closes 31 May 2022!

INTERREGIONAL REGIONAL DEVELOPMENT AND PERSONALISED MEDICINE - funding continued

- Single Market Programme (ex COSME) ... ex : JCI Joint Cluster Initiatives (Euroclusters)
- Horizon Europe : european innovation ecosystems
- Horizon Europe : Pillar 3 Interconnecting European Innovation Ecosystems
- Horizon Europe Pillar 2 Cluster 2

REGIONAL DEVELOPMENT AND PERSONALISED MEDICINE

Regional Smart Specialisation Strategies

Eight regions include personalised medicine in the title of their S3 priorités – three from

Poland!

- Key word earch shows 73 regions with medicine in S3 priority
- And health is a match with 223 regions You are not alone!
- Search for regions with S3 tool https://s3platform.jrc.ec.europa.eu/map

S3 linkages provide links to ERDF co-funding and scope for funding of regional platforms, demonstration facilities ...

\$3 Concept

Transparently designing and evaluating evidence-based EU legislation, backed by

REGIONAL DEVELOPMENT AND PERSONALISED MEDICINE

- Regional Smart Specialisation Strategies Industrial Partnerships:
 https://s3platform.jrc.ec.europa.eu/s3-industrial-modernisation-partnerships;
- Sector based cooperation opportunities
- Personalised Medicine https://s3platform.jrc.ec.europa.eu/personalised-medicine
- Led by three regions Flanders (BE), East Limburg (NL) and East Netherlands (NL)
- Drivers of interregional cooperation with over 10 other regions

Growing via support of Vanguard Pilot Project Initiative

HORIZON EUROPE PILLAR THREE – EUROPEAN INNOVATION COUNCIL

- Thematic priorities are mostly SME focused EIC Accelerator
- But also notion of supporting European innovation Ecosystems
 EIE
- Calls focus on connecting innovation ecosystems with help of quadruple helix – free thematic choice ... Road map approach – follow up of Saphire ???
- Calls for 2022

SUMMARY: KEY MESSAGES & TIPS

- Stay connected to platforms, networks and policy makers
- Publish your news and participate in relevant matchamking events
- Monitor calls/programmes early warning!
- Diversify your funding and regional partnering strategies ...
- Leverage your regional funding opportunities seek out co-investment opportunities – especially important for I3





- GAC GROUP
- Place Joseph Bermond Ophira I
- 06902 Sophia-Antipolis



Presentation of four Smart Health Pilot demo cases 14:15 – 15:15

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- RegMed XB, Bernand Mulder, RegMed XB

MOBILE HEALTH (R)EVOLUTION

Advanced tools & advanced healthcare services for empowered and responsible patient

PILOT PROJECT VI SMART HEALTH Brussels, April 26, 2022

Gorazd Hladnik, M.Sc., Provita d.o.o., Ljubljana

Presented by dr. Alenka Rožaj Brvar, MBA, SRIP Health-Medicine / SIH EEIG www.sripzdravje-medicina.si; www.sis-egiz.eu

Active Collaboration in International Networks Supporting the Innovation Transfer to the Market

Membership in supercluster
Twin International Multihelix















SIH EEIG a member of S3P4PM Personalized Medicine Platform

https://s3platform.jrc.ec.europa.

eu/personalised-medicine



SMART HEALTH pilot project MOBILE HEALTH EVOLUTION



CERTIFICATE OF AWARD

Slovenian Innovation Hub European Economic Interest Grouping

has been awarded "1 Star" Reference Site of the European Innovation Partnership on Active and Healthy Ageing



Aarhus, 25th September 2019



Why Mobile Health (R) evolution?

Did you know?

- More than 800K hospitalizations/year in EU due to improper management of chronic diseases (diabetes, high blood pressure etc.)
- 40 % of patients is medication non-compliant





MEDICATION ADHERENCE SYSTEM FOR PHARMACISTS



Did you know?

- More than 800K hospitalizations/year in EU due to improper management of chronic diseases (diabetes, high blood pressure etc.)
- 40 % of patients is medication non-compliant

PATIENT PORTAL

Healthcare systems are overwhelmed. Let the empowered patient take more active role in the treatment process!

Let's put the patient in the center.

www.healthlord.com

Biomedical innovations should be combined with social innovations to be implemented sucessfully in the clinical practice

- Only about 30% of relevant innovations are successfully implemented in practice
- <50% adherence of patients in healthcare
- Information pollution and data manipulation is becoming the leading global society and individuals' imbalance & challenge

Mobile health management – social innovation & ICT for better health

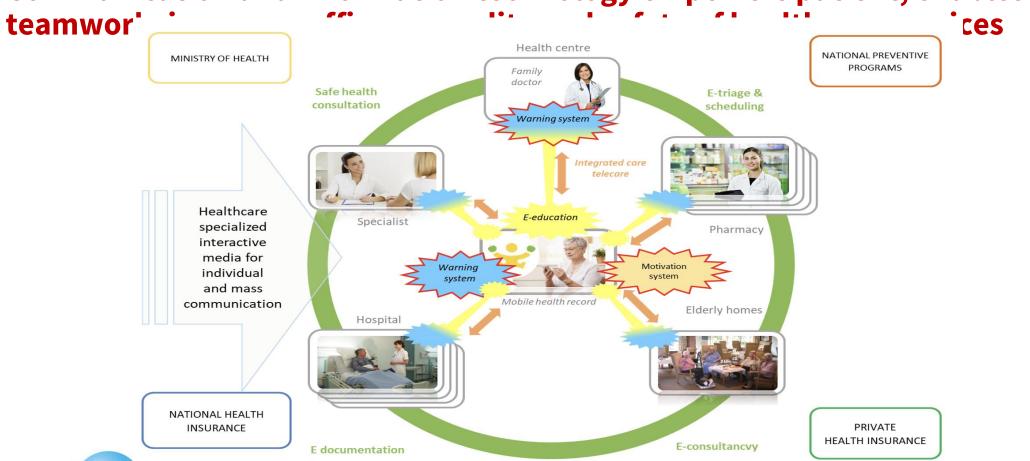
Patient

- ownership and managament of their personal health data
- E personalized education/prevention
- E HC services organization and sheduling
- Medication, biometrics self-measurement diaries
- Safe E-communication between patients and HC professionals
 - E-Personal medication plan, medicines use alerts system

HC professionals

- Remote E triage, health-risk alert
- E personalized education/prevention
- Personalized medication management
- Remote health/medication monitoring and management
- Safe E- consultation & teamwork
- Remote outcomes measurement and HC service satisfaction measurement
- HC motivation system for responsible health management

Communication and information technology empowers patient, enables





Patient's empowerment (knowledge & ICT) and motivation, better health outcomes, improved QL

Advantages and benefits for key stakeholders

Society/ HC system

HC caregivers

Better HC outcomes
HC professions' resources optimization
HC financials optimization
Less absenteeism
Access to data for decision making
Less cross-border problems

Increased efficiency, more time for patients, Reduced need / frequency of physical visits Quality of HC services improvements Team work – remote collaboration of caregivers Empowerment and motivation of pharmacists Pharmacy business perspective

International initiatives

Safepolymed (starting)

Improve Safety in Polymedication by Managing Drug-Drug-Gene Interactions, research project Horizont starting 2022

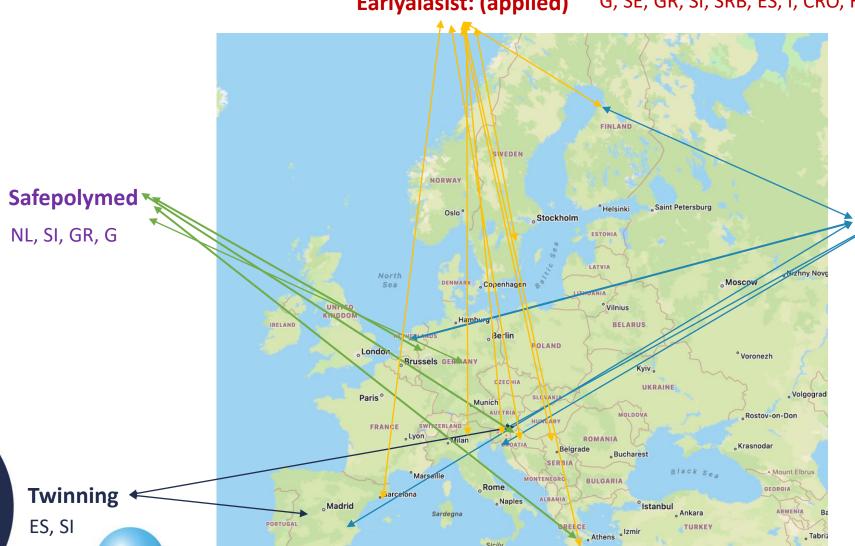
Earlyaiasist: (applied)

Enabling cardiometabolic disease prevention via trustworthy AI predictive person centred models in the community

HealthChain (in preparation)

integrated post-operative/rehabilitation treatment including direct hip arthrosis patient involvement, different multidisciplinary experts, smooth »transfer of patient« to primary care and resocialization of patients. ICT tools for safe, secure, documented remote collaboration among experts as well as informatization of patients and their caregivers.

Earlyaiasist: (applied) G, SE, GR, SI, SRB, ES, I, CRO, FI



HealthChain (in preparation)

ES, CRO, E NL, SI, FI

Thank you for your attention!

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Vanguard Initiative

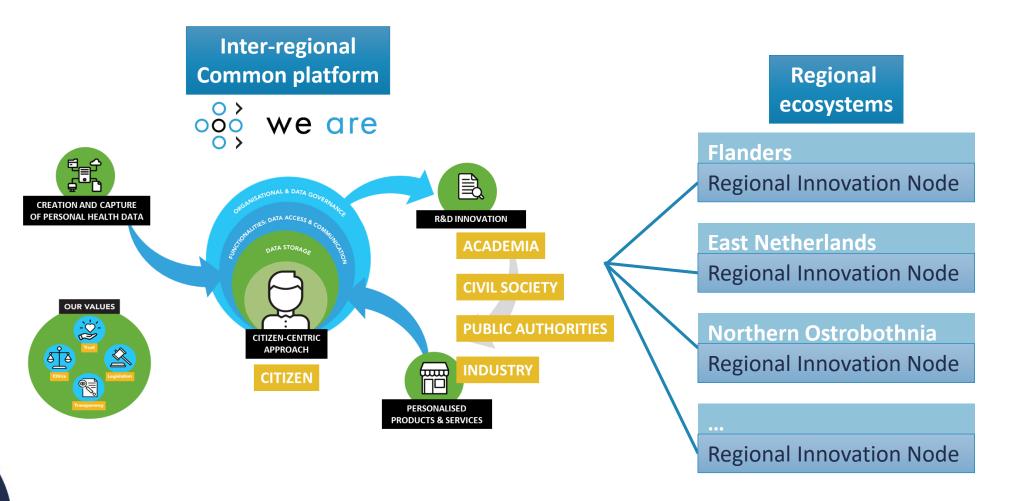
Smart Health Pilot Project

'Demo Case We Are - personal data platform'

26 April 2022



We Are personal data platform





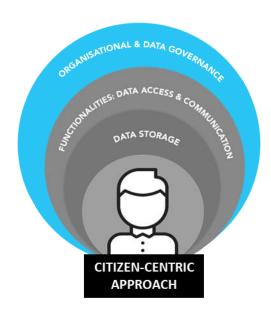








Achievements so far

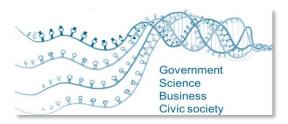


Business models

DEPARTEMENT ECONOMIE WETENSCHAP & INNOVATIE



Co-creation Stakeholders-involvement







Governance model Legal



Technical Assistance Facility (TAF)



























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Achievements so far and wider impacts













Creating transitions in healthcare together, from collected health data to insights

How?

- Provide technical building blocks to combine data and develop use cases
- Connect industry in matchmaking events
- Organize roadshows/dissemination of core concepts

Cross-border industry value-chain

- To create a level playing field in cocreation with the end users
 - Open innovation ecosystem
 - Operates as intermediary among companies, citizens, research & government
 - Privacy, ethics and trust are key values
- Across-border added value
 - Scale: ecosystem gains value with increasing data
 - Regional regulations: cross-border expertise needed
 - Innovations and use cases: learning and importing across borders
- Remaining needs/ gaps?
 - Get connected with other health data databases
 - Connect the interregional initiatives



Funding strategy

- So far: mostly only regional funding secured
 - BIBOPP part of Interreg Empowercare
- Next steps
 - Horizon Europe proposals
 - Interreg proposals
 - 13 options to be explored











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Vanguard Initiative

Smart Health Pilot Project

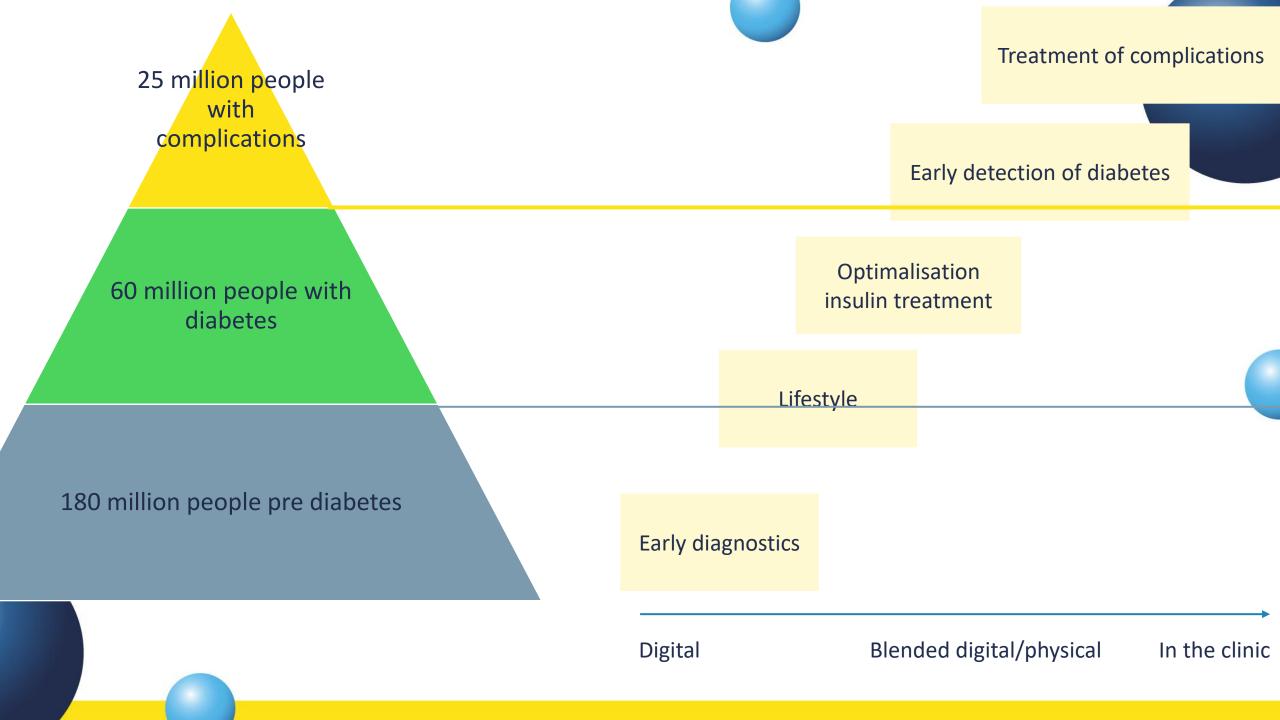
'Diabetes on return'

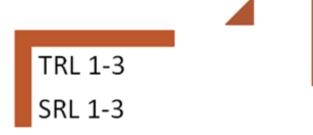
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UNIVERSITY OF TWENTE.

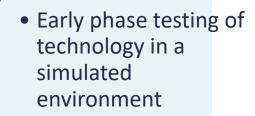








Innovation labs



Real world living labs



Virtual diabetes clinic

 connection between regions for knowledge exchange, facilities and delivery of the best personalized diabetes care

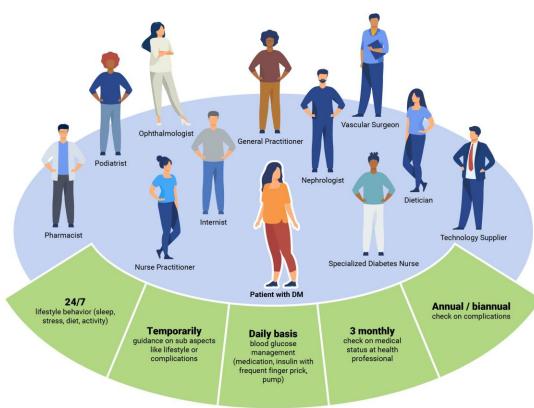
Main expected outcomes and wider impacts

- Achievements
 - Closer collaboration partners
 - Country wide efforts to have more remote digital care
 - Tools and applications developed/ in development; Diameter, smartphone based thermal cameras
- Scaling up potential
 - System of diabetes expert centres.
- Wider impacts
 - Diabetes on return: Reduce diabetes prevalence, reduce diabetes care and costs, allow all citizens to be in control about their own care

Cross-border industry value-chain

 Collaboration between care partners, patients, citizens, companies, researchers

Partners as IDF, Medtronic,
 HVN, TNO, VITO, Citizen labs,
 Insurance companies



Funding strategy

- Combination of regional, national, international, and networking funding
 - Horizon Europe
 - SWAFS
 - COST
 - NWO/ ZonMw/ Dutch Growthfund
- Funding type currently sought
 - Interreg/ I3

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Vanguard Initiative

Smart Health Pilot Project



26 April 2022



REGENERATIVE MEDICINE CROSSING BORDERS

www.regmedxb.com

RegMed XB is a public-private partnership in the Netherlands and Belgium (Flanders) dedicated to bringing regenerative medicine solutions to patients and creating a new industrial sector in the participating regions







Health foundations



SME & Industry





Institutes



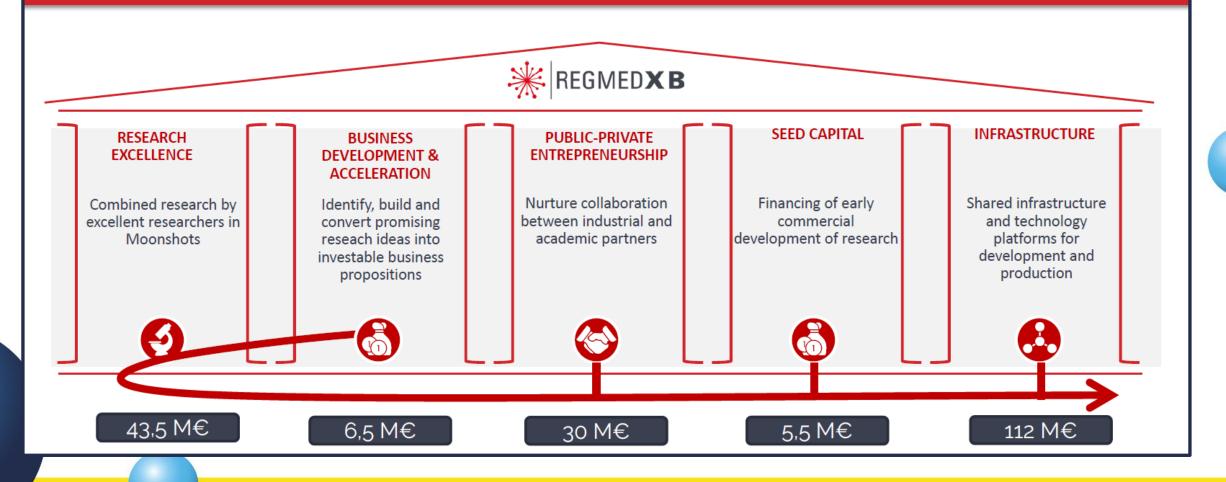


Facts & Figures

- Public-private partnership
 - 5 research institutes in the Netherlands and Belgium
 - regional governmental bodies
 - >20 companies
 - 5 health foundations
- 500 scientists
- 4 Moonshots: Kidney, Heart, Osteoarthritis, Diabetes
- Started in 2016

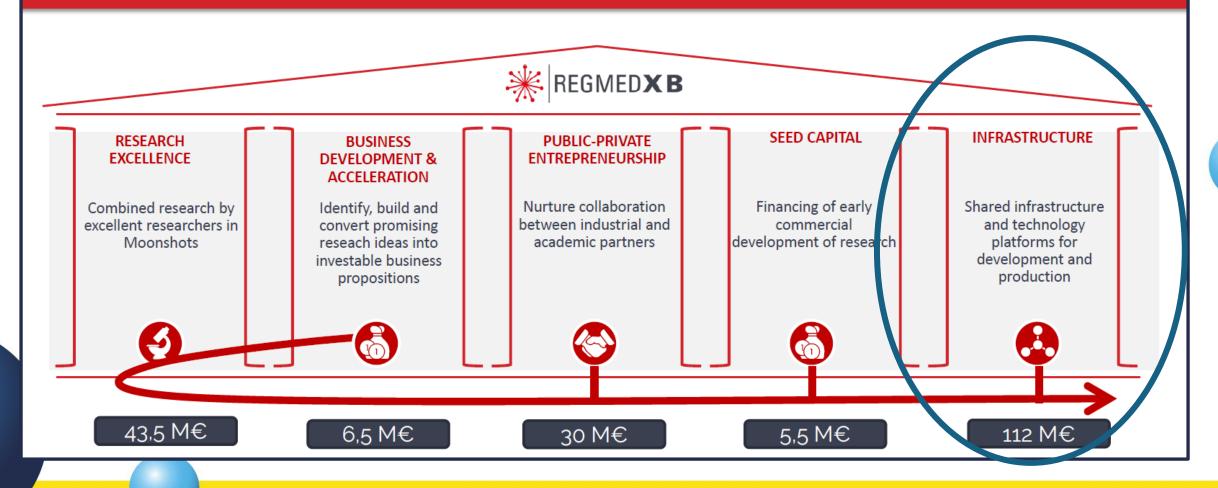


The RegMed XB translational platform





The RegMed XB translational platform





REGENERATIVE MEDICINE CROSSING BORDERS

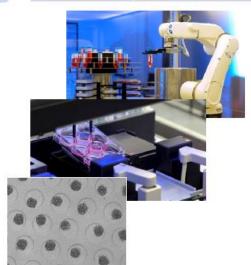
www.regmedxb.com

Organoid-based Bioprocess development

Task1: Single cell expansion



Task2: automated organoid production



Task3: Tissue bioassembly







What is the challenge and what is needed?

- Currently no industrial-scale manufacturing platform available >
 no scaling possible
- Goal: developing a European industrial-scale manufacturing platform for organoid based tissue-engineered implants and organs
 - cost-effective production
 - maximize patient access
 - commercially viable products





What is done so far? What is the potential?

- RegMed XB got financial support from (regional) governments for building manufacturing infrastructure
- For strengthening the platform and building of this new industry, strong European partners are needed
 - Study ongoing for identifying regional clusters in Europe with the necessary capabilities and interest
- New European industry can emerge with great potential and impact:
 - Cure for patients
 - Economic activity





Seeking for specific partnerships

- Technologies related to upscaling of high quality functional organoids for applications related to the moonshots (kidney, cartilage/bone, Langerhans islets/beta cells, myocardium), with preference for suspension culture systems.
- Technologies related to in-process real time monitoring systems of organoid based bioprocesses including biosensing and non invasive imaging systems
- 3. Technologies related to human size tissue assembly using organoids as building blocks including 3D Bioprinting
- 4. Expertise/experience in **GMP transition** of these bioprocesses
- Translational/clinical platforms in the applications related to the moonshots

Funding strategy

- Investment of 56 mio EUR secured by Dutch National Growth Fund for Pilot Factory
- Total funding adds up to 216 mio EUR (till 2028)
- Applications for European grants in near future (i.e. i3 grant)



New Pilot project ideas

15:15 - 15:30

BISCI Platform, Roel Willems, Brightlands/ University Maastricht

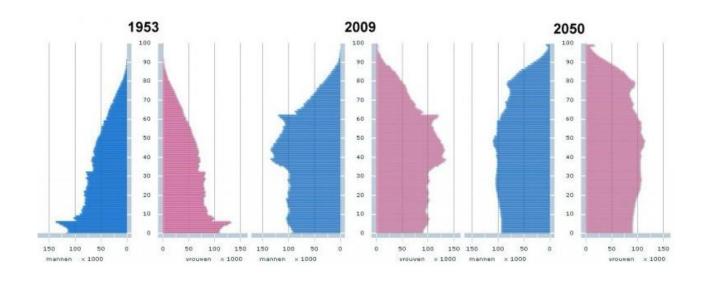


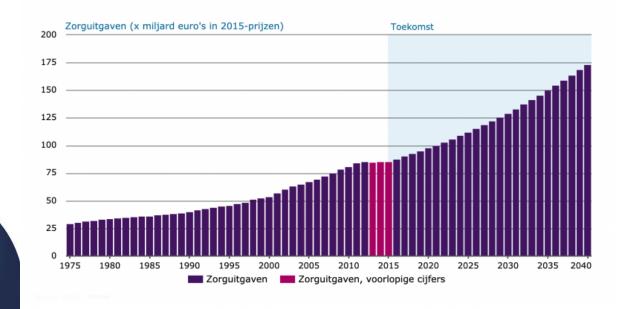
Smart Technologies in the Healthcare Supply Chain

Brightlands Institute for Supply Chain Information (BISCI)

Roel Willems, MSc.

Director Healthcare Hub - BISCI





HEALTHCARE COS ARE RISING

- Aging of the population increases significantely
- Cost will double in 2040
- 25-40% of the Medical Device costs are supply chain related
- Sustainability goals apply to Healthcare sector as well
- The Covid crisis made the gaps in the supply chain clear

The Healthcare Supply Chain - how are we doing?



Hospital

Many factors take time away from patient care

- Significant (manual) handling time in inventory management -
- Lost items cost
- Expired Items waste
- No insights in product and/or inventory data location, amount
- No comparison between various suppliers quality
- Tons of different IT systems complex
- Non availability of products cause delay in patient procedure



Supplier

Consignment inventory process is costly and inefficient

- Overstocking High inventory
- No overview of inventory levels after shipment
- Cost due to Expired Items / Lost Items
- No insights in data
- Reactive forecasting
- High pressure on Working capital
- Invoices after usage might take up to a year
- Complex Supply chain results in complex IT landscape

Healthcare Supply Chain Ecosystem - simplified

Technology Supplier Medical (ERP) Supplier Factory Software suppliers Medical Hospital Supplier DC Patient Packaging – **Smart Label** Logistics Provider Hospital (3PL/4PL) Telecom Logistics providers



SHOULD WE FOCUS ON THE WEAKEST LINK?

What happens if we only optimize one element of the chain?

How do we determine which element is the weakest?

And more important: from which viewing point do we determine that?

We should focus on many elements at the same time from different viewing points at the same time – Ecosystem Platform

THE THREE AMIGOS



The conversion of products to digital format and the concomitant inventions that ensure.



The innovation of business models and processes that exploit digital opportunities.



The systems-level restructuring of economies, institutions, and society that occurs through digital diffusion.

"organizational change through the use of digital technologies and business models to improve performance"

DIGITAL BUSINES TRANSFORMATION

- The Healthcare Supply Chain is sub-optimized and only partly digitalized to date leading to inefficient use of private and public resources and poorly addressed social and environmental externalities
- Individual chain elements might be digitalized already, but the overall chain is not!
- Businesses in the healthcare supply chain are not cooperating and leveraging digital technologies well
- Sustainability concerns are poorly integrated into decision making processes and targets unclear or not set
- Ergo: the Healthcare Industry needs a "Digital for Sustainability" concept in its supply chains



COMPLEX SUPPLY CHAINS CALL FOR ACTION

Digital Transformation Enablers



Strategy



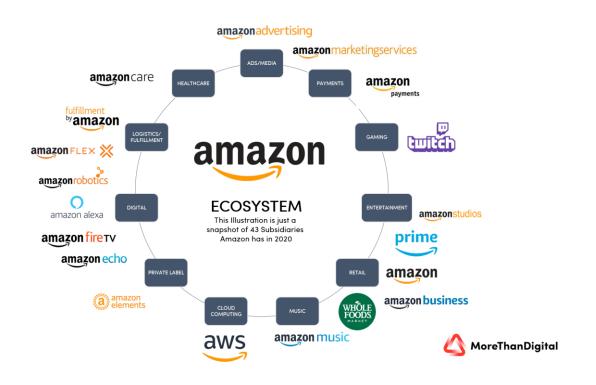
Technology Innovation



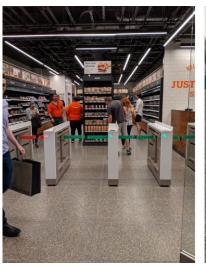
Collaboration



Amazon - the giant in Retail









But wait! They do everything themselves!



Partners

Consultancy Knowledge Institutes

BISCI = (Maastricht Uni. Fontys TNO) FIR / RWTH (Aachen)

System Integrators ICT Partners Technology Partners







Building the Healthcare Hub Ecosystem

Where did we start?

ORCHESTRATION

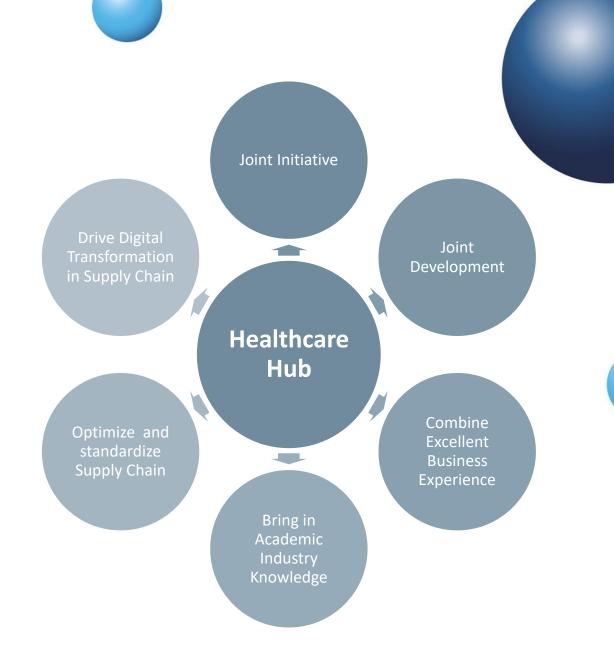
We work together in an ecosystem way of development

2021 Start of the Healthcare Hub

A digital transformation of the medical devices inventory management process

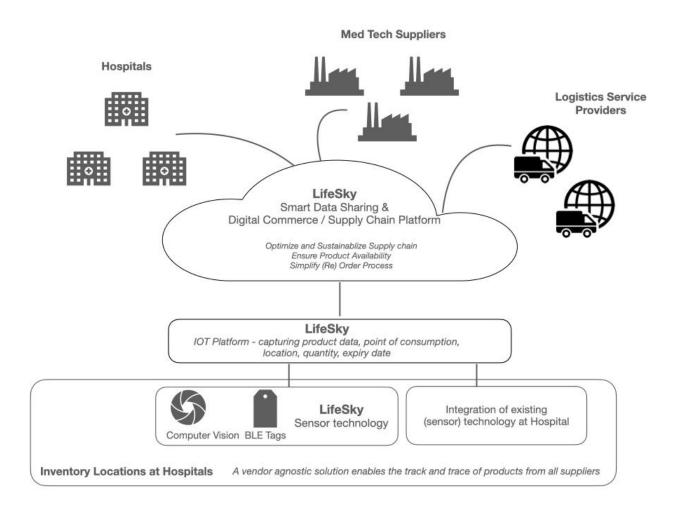
BISCI **orchestrates** the cooperation between Boston Scientific, Arvato-SCS, Philips, hospitals, technology partners, and other partners in the near future.

Each company will bring in its own unique value, bringing the supply chain together.



The LifeSky Foundation – open platform and technology

Our initiative will evolve into a new entity – the LifeSky Foundation
A sector intiative, powered by acadamic knowledge through the University of Maastricht and its ecosystem



- ->F.A.I.R Data Generation
- -> From Data Sharing to Data Visiting
- -> Al Ready Data
- -> Industry Healthcare Suppliers should **not compete** on SC Infrastructure
- -> Standardization of the Digitilization

Bring products to the patient faster, more efficiently and more sustainably



Where is the inventory?





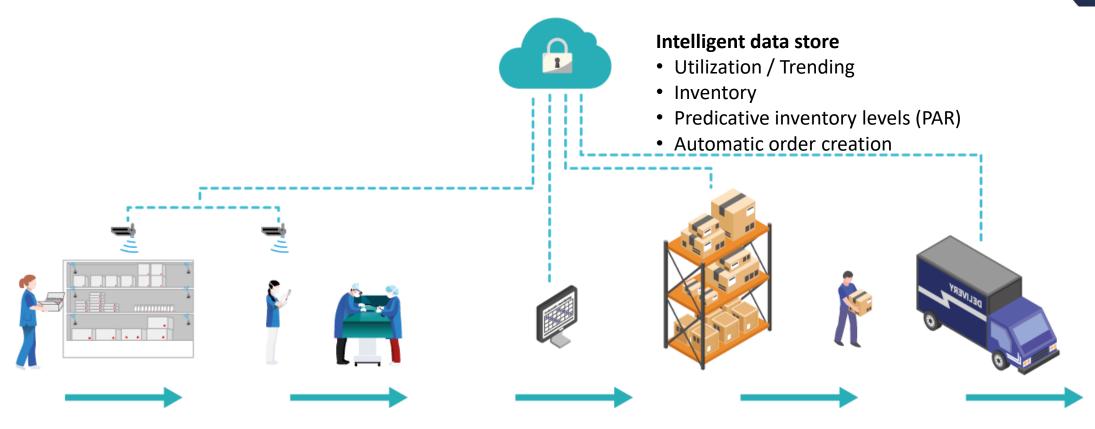






Conceptual Architecture

Automate inventory management & information capture

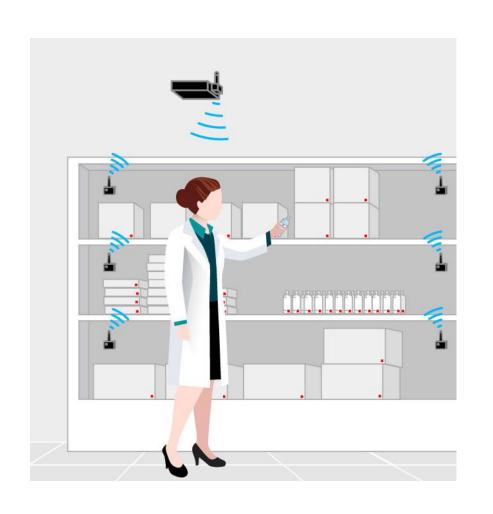


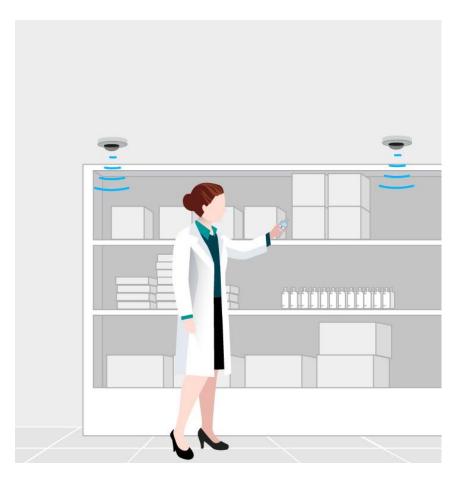
Connecting to hospital point of use consumption data in real-time through a specific and/or combination of technologies: RFID, Bluetooth (battery free) or Computer Vision

Order integration and Automation

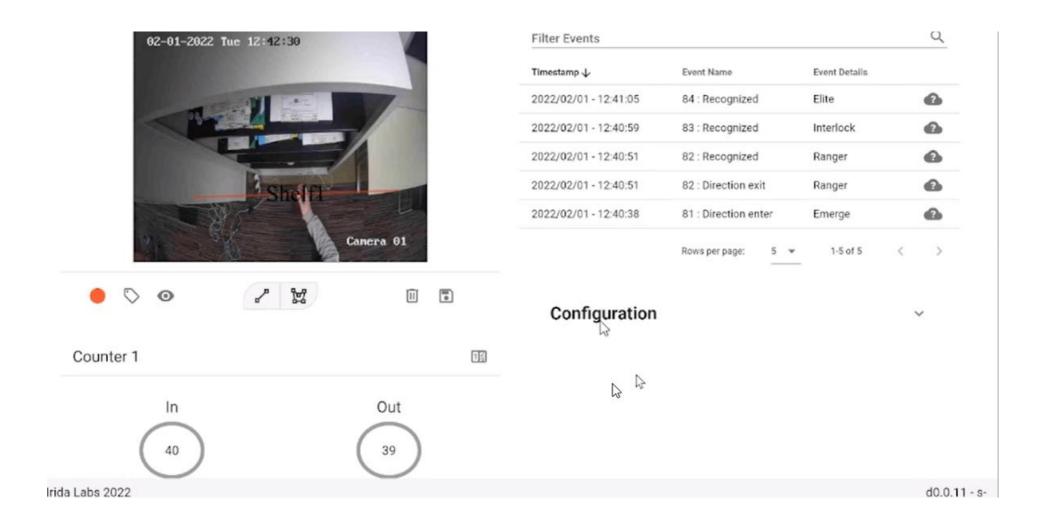
- Order creation
- Inventory source of truth

RFID, Bluetooth (battery free) versus Computer Vision





Computer Vision



Bluetooth Tags



AssetAssigned	Put back	Signal received	Time estimate signal received	Take out from cabinet	Signal loss	Time estimate signal loss	Comments
Interlock	13:00	13:01-13:02	30 sec - 2min	13:10	13:10	<1min	
Ranger 8mm	13:00	13:01-13:02	30 sec - 2min	13:10	13:10	<1min	
Ranger 7mm	13:00	13:10	10min	13:10	13:11	1min	
NC emerge 5 mm	13:00	13:01-13:02	30 sec - 2min	13:10	13:12	2min	
nc emerge 2.25	13:00	13:10	10min	13:10	13:11	1min	
promus elite 2.5	13:00	N/A					Faulty tag?
promus elite 3 mm	13:00	13:01-13:02	30 sec - 2min	13:10	13:15	5min	
promus elite 2.25	13:00	13:01-13:02	30 sec - 2min	13:10	13:03	N/A	
Elite 3x38mm	13:00	13:01-13:02	30 sec - 2min	13:10	13:12	2min	
Elite 4 mm	13:00	13:01-13:02	30 sec - 2min	13:10	13:12	2min	
Elite 2.75mm	13:00	13:01-13:02	30 sec - 2min	13:10	13:11	1min	
Synergy 4x32	13:00	13:01-13:02	30 sec - 2min	13:10	13:12	2min	
Interlock 2mm×4cm	13:00	13:01-13:02	30 sec - 2min	13:10	13:12	2min	
Premier 3×12mm	13:00	13:01-13:02	30 sec - 2min	13:10	13:12	2min	
Synergy 3.5mm	13:00	13:10	10min	13:10	13:12	2min	
Synergy 4mm	13:00	13:01-13:02	30 sec - 2min	13:10	13:12	2min	
Premier 2.5mm	13:00	13:01-13:02	30 sec - 2min	13:10	13:12	2min	
Promus Elite 3mm	13:00	13:10	10min	13:10	13:11	1min	
Synergy 3mm	13:00	13:01-13:02	30 sec - 2min	13:10	13:12	2min	
Synergy 2.25mm (R)	13:00	13:01-13:02	30 sec - 2min	13:10	13:12	2min	
Premier 2.75mm	13:00	13:01-13:02	30 sec - 2min	13:10	N/A	N/A	
Synergy 2.25mm	13:00	13:01-13:02	30 sec - 2min	13:10	13:12	2min	
Premier 3mm	13:00	N/A	N/A	N/A	N/A	N/A	Faulty tag?

Major changes



- **Safer** Healthcare
- Ensure products always available when needed
- Know exactly what is in stock & where
- Simplify processes: Reduce admin for personnel
- Automatically signal & replenish when product is used
- Reduce waste & CO2 footprint
- Vendor Agnostic platform
- Open interface
- Data security
- Standardized
- Scalable
- Improve forecast & predictability
- Reduce unused inventory at consignment stock
- Ensure always available at hospital
- Contribute to a sustainable future

The Healthcare Hub focus will expand over time

The Healthcare Hub will move beyond the first programme of Inventory Management towards more topics

In progress



Inventory Management

Increase efficiency in supply chain
 Reduce waste in the supply chain
 prove patient care

Scoping



Circular Economy of Medical Goods

- Reduce waste in the supply chain
- Retrieve scarce material from the value chain
- Redesign products

TBD



The Internet Hospital

- Moving care and cure to the home, changing where goods are supplied
- Connect with patient as a supplier or via partners

TBD



The Internet of Medical Things

- Connect medical supplies and goods to a digital space
- Connect with patient data
- Optimize products using data and improve patient outcome

TBD



Evolution of the Financial Platform and Ecosystem

- Price per procedure
- Value Based
 Procurement
- Blockchain ERP
- Automate and simplify financial processes



Questions?

THANK YOU!

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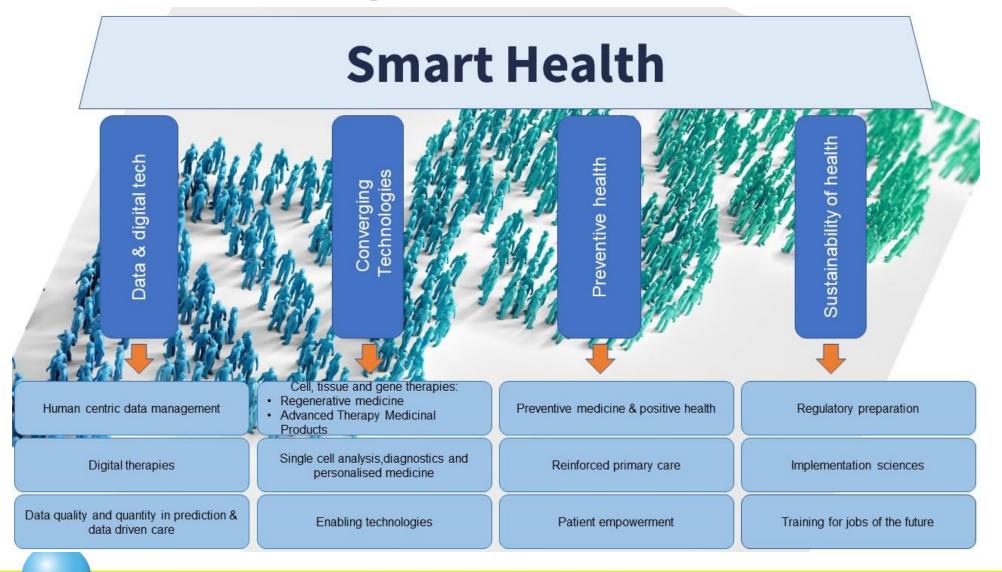
- Roel Willems
- +31 611301419
- ☑ Rhj.Willems@maastrichtuniversity.nl

New Pilot project ideas

15:15 - 15:30

Open pitch session with participants, Marc Pattinson, G.A.C. Group

VI Smart Health scope



Coffee & tea networking break 15:30 – 16:00

Please watch the clock!

Parallel breakout sessions on three key topics 16:00 – 16:45

• Break out session 1: The use of smart technologies to optimise complex medical goods and services supply chains

Roel Willems, University of Maastricht & Dirk Plees, Limburg Region

- **Break out session 2**: VI Smart Health Pilot as partner in EP PerMed, Ejner Moltzen, ICPerMed, Kathleen D'Hondt & Jolien Roovers, Flanders Government
- Break out session 3: Cross-border funding mechanisms Zoom on I3 and Interreg Europe

Marc Pattinson, G.A.C. Group, Herlinde Smet, Flanders Government

Break out session 3 ZOOM ON I3 AND INTERREG EUROPE

- Territorial and cross border initiatives : DG Regio and S3, new call I3 and regional funding via ERDF ... call open closes 18 October 2022
- Interreg Europe 2021-27 Call OPEN closes 31 May 2022



Interregional Innovation Investments

Strand 1 - Financial and Advisory Support for Investments in **Interregional Innovation projects**

- **Development of a portfolio of projects** by selected partnerships.
- Supporting partnerships to develop, connect or make complementary use of testing and demonstration facilities, helping companies to accelerate market uptake and scale up of innovation solutions in shared Smart Specialisation priority areas.

Strand 2 - Financial and Advisory Support for Development of value chains in less developed regions

- Increasing the capacity of regional innovation eco-systems in less developed regions to participate in global value chains as well as the capacity to participate in partnerships with other regions.
- · Creating linkages between less developed regions with lead regions via simplified investment projects
- Focus on foreign direct investment, (FDI) driven value chains & other emerging sectors.

De-risking private investment

MAIN OBJECTIVE

NEW DG REGIO CALL I3 - NB BUDGET FIGURES HAVE CHANGED

EUR 279,3 M

Strand 1: Innovation Actions (IA) for mature partnerships

Budget per call: EUR 39,9 M to finance around 4/5 grants

2-10 Investment projects per grant/portfolio

Average grant size: EUR 8/10 M

Value of the project portfolio in a specific value chain

Under internal discussion, subject to change

Projects
« should
ideally be
linked to a
regional S3
partnership»

Strand 1: Innovation Actions (IA) for mature partnerships

Minimum 5 regions/countries

and their innovation ecosystems

The project lead must be a leading region in a specific value chain

Involvement of at least one less developed region (+)

Close to market TRL 6-9

REGIONAL FUNDING PROGRAMMES: 13 STRAND 1 DIGIT MAKES SPECIFIC REFERENCE TO HEALTH CARE

- Digitalisation of healthcare
- Innovative investments in security of health data across borders (including cybersecurity);
- Investments related to the use of digital tools to stimulate prevention, enable feedback and interaction with the healthcare providers;
- Investments connected the digitisation of healthcare systems, providing solutions to interoperability issues;
- Investments in digital health infrastructure (needed for demonstration processes), telemedicine, m-health and other innovative solutions for personalised medicine;

Investments related to the acquisition of digital skills needed for the adoption of innovative technologies in healthcare.

REGIONAL FUNDING PROGRAMMES: INTERREG EUR DE

Launch of new funding programme Interreg Europe https://www.interregeurope.eu/next-call-for-projects

racticos

Important to engage with policy makers to demonstrate your capacity to have an impact ... policy change!

New focus on pilot projects ... thematic focus and clusters are well placed to deliver these

Iready a good community of health and cluster related projects, access to good ractices ... https://www.interregeurope.eu/policy-solutions/good-

REGIONAL FUNDING PROGRAMMES: INTERFEG

Ongoing projects in TO1 on Innovation and Research projects (65) include SIX strongly aligned with personalised medicine thematic.

For example ITHACA led by region of Nord Brabant https://www.interregeurope.eu/ithaca/;

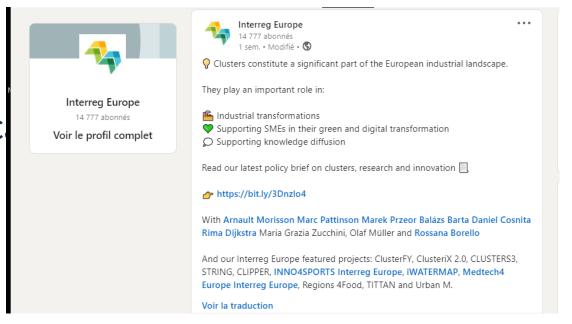
 Nine regions from the EU share experiences and good practices on smart health and care innovation, to improve active and healthy ageing.

A key aim is to refine regional policies in order to support innovative businesses, create growth and scale up

INTERREG EUROPE SUPPORT SERVICES VIA PLP

Interreg Europe also offers a number of services to help you prepare and improve your knowledge of expected policy dimension:

- Peer Reviews
- https://www.interregeurope.eu/policylearning/expert-support/peer-review/
- Matchmaking
- Good practice data base
- Policy Briefs : recent cluster publication







- GAC GROUP
- Place Joseph Bermond Ophira I
- 06902 Sophia-Antipolis



Takeaways from the breakout sessions by rapporteurs 16:45 - 17:00

Breakout sessions rapporteurs

Closing remarks, Kathleen D'Hondt, Flanders Government

THANK YOU!