

Distributed Infrastructure on Population Health (DIPoH) Business Plan : the finances



Assembly of Members, November 13th 2019 Mariken Tijhuis, Peter Achterberg (RIVM, Netherlands)





National Institute for Public Health and the Environment Ministry of Health, Welfare and Sport



This project is funded by the Health Programme of the European Union What you can expect from us today:

Options & models for creating a financially healthy infrastructure

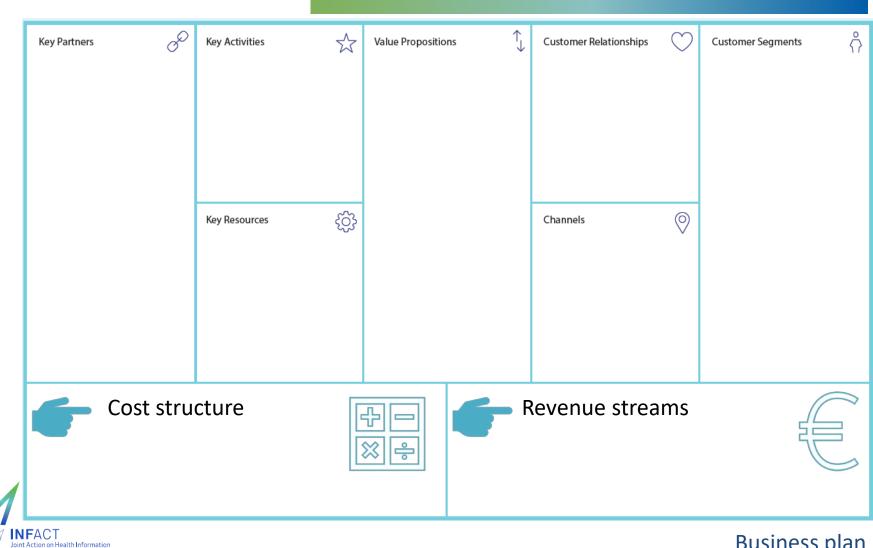
What we cannot offer today:

Definite figures, detailed financial plan

-> we are still developing our structure



Business plan: the finances



Business plan

Business plan: the finances

Customer Segments

Table of Contents

Executive summary

Key points

1. Defining the Health Information Research Infrastructure

1.1 Background information

- 1.2 Purpose and Objectives
- 1.3 Benefits and limitations

1.4 Option Identification and Selection

1.5 Scope and Landscaping

1.6 Users and Services

1.7 Principal Risks and Problems

1.8 Outline Plan and Project Approach

- 2. Organising the Health Information Research Infrastructure
 - 2.1 Project Governance
 - 2.2 Operational elements
 - 2.3 Progress Reporting

3. Financing the Health Information Research Infrastructure

3.1 Financial Appraisal/Forecasts

3.2 Sensitivity Analysis

Literature

Annex 1: Strengths and weaknesses of Research Infrastructure alternatives

Annex 2: Research Networks: criteria and proof of concept

Annex 3: Detailed financial analysis

1. Defining the Infrastructure

1 11- 12/1

2. Organising the Infrastructure

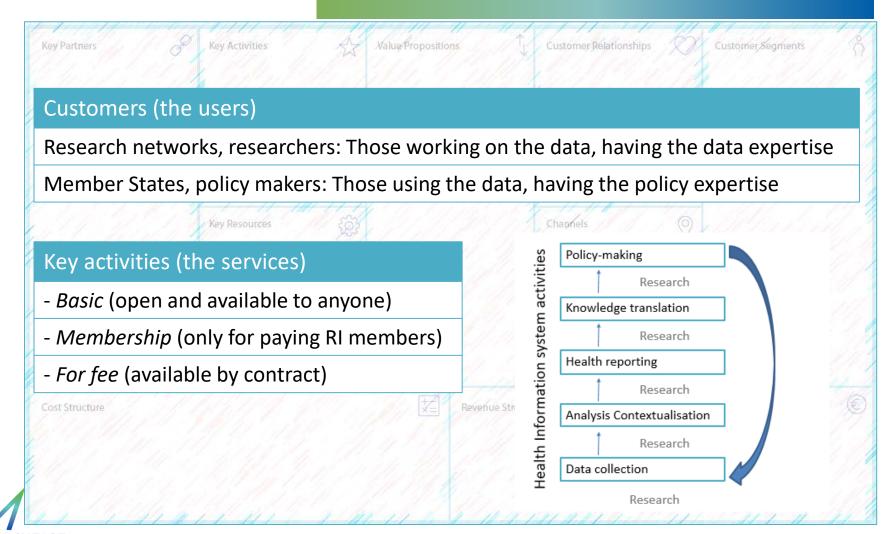
3. Financing the Infrastructure

Chapnels



Business plan

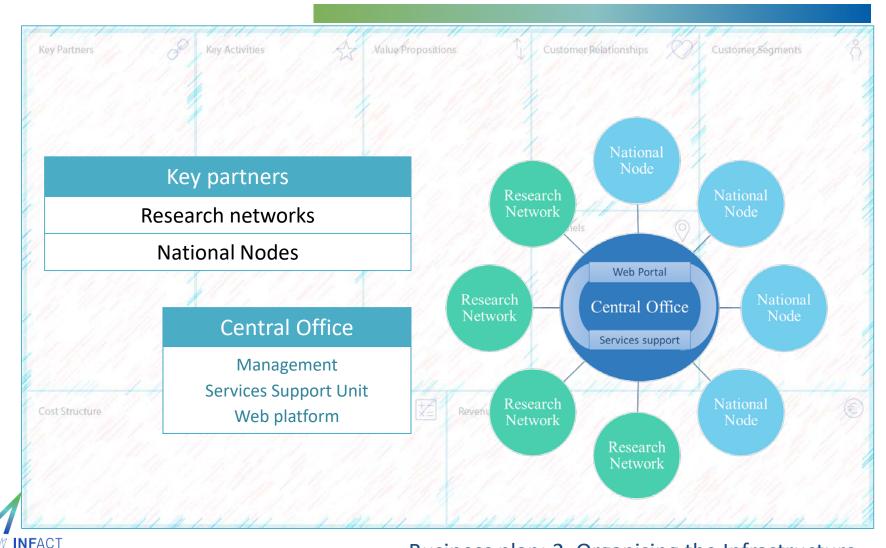
Recalling: users and services



INFACT

Business plan: 1. Defining the Infrastructure

Recalling: Central Office, Research Networks & National Nodes



Joint Action on Health Information

Business plan: 2. Organising the Infrastructure

Costs vs revenues

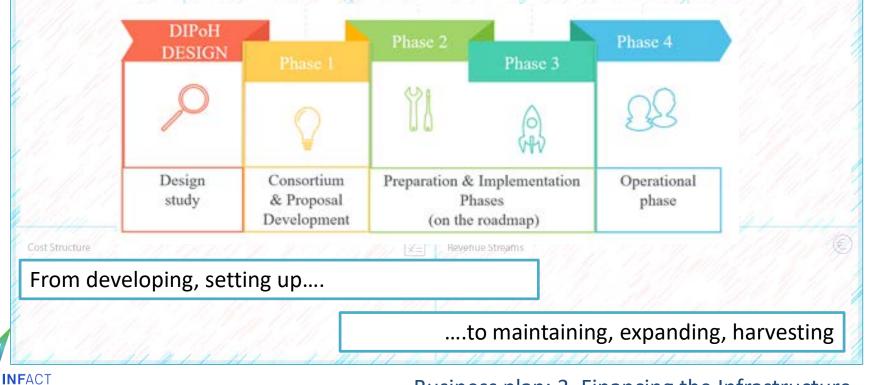
Customer Segments

Estimating expenses & Identifying funding options...

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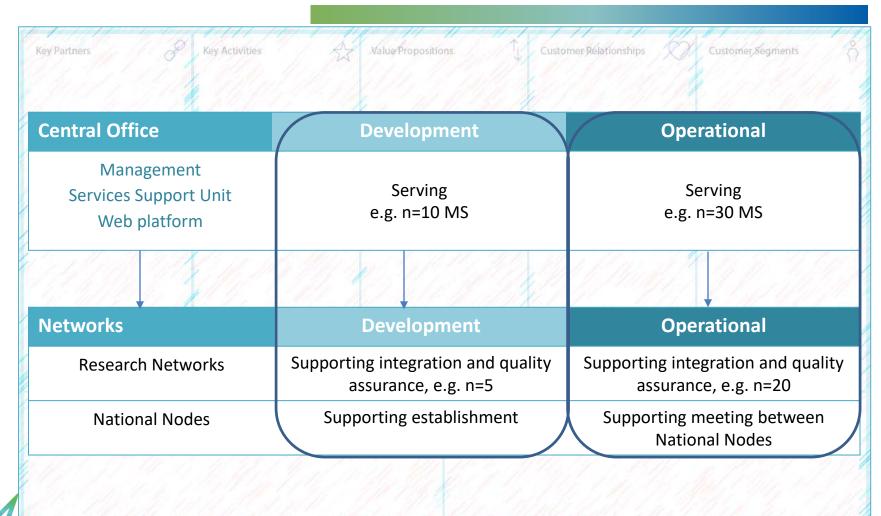
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....throughout the different phases



Business plan: 3. Financing the Infrastructure

Cost/Expenses





Business plan: 3. Financing the RI



Expenses: Central Office

Central Office	Development Serving e.g. 10 MS & 5 research networks	Operational Serving e.g. 30 MS & 20 research networks	Activities	
Management	Office, Travel, Meetings ICT professional, Editor, Data handler, etc. Hardware, Software Data Protection Officer, Legal Adviser, Controller, etc.		Manage RI governance and control; Provide administrative support; Prepare & support committee meetings; Develop Strategy; Evaluate functioning; Advocate; Organise RI communication/PR;	
Web platform			Handle web-data; Host website; Manage servers, software, updating; Develop & maintain repository; Set up communities, webinars, etc.; Implement RI services, in liaison with Services support	
Services Support Unit			 Manage, support and evaluate the services that the R is offering (open access, to members and by contract), in liaison with <i>Web platform</i>; Liaise with stakeholders, Knowledge brokering 	
Total/yr				





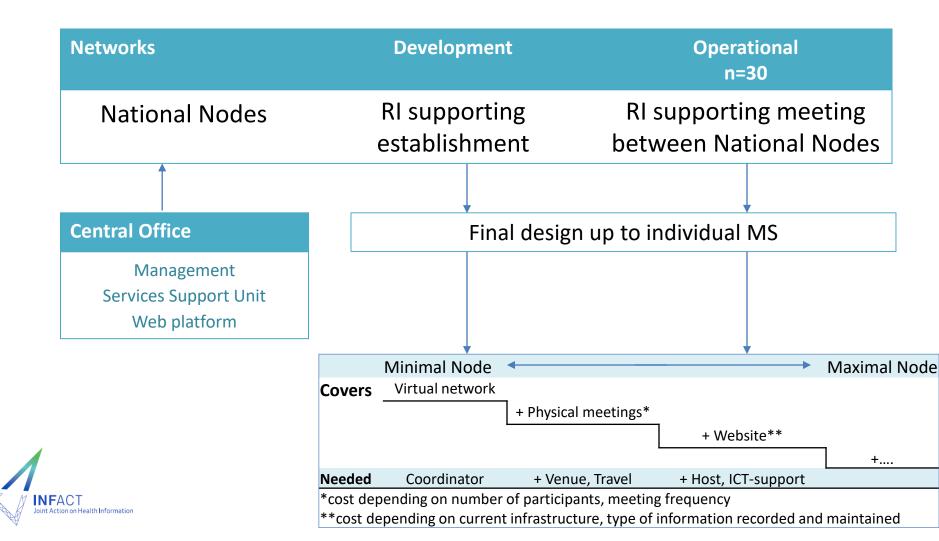
Expenses: Research Networks

Networks		Development e.g. n=5	Operational e.g. n=20
Research Networks	Su	pporting integration, qua services portfolio and	ality assurance, building exchanging services
Central Office		Otherwise, up	to the networks
Management Services Support Unit Web platform			





Expenses: National Nodes





PROGRAM \$

H2020

CALL \$

H2020-INFRADEV-2018-2020

Funding: Grants

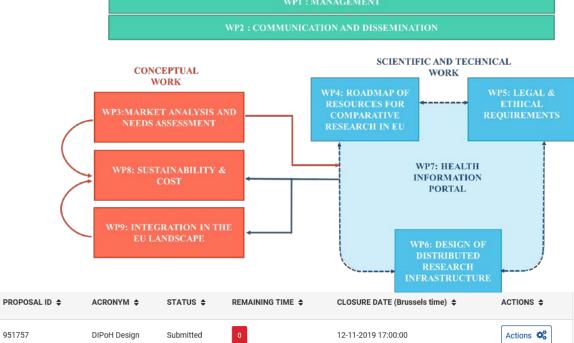


FUNDING SCHEME

951757

RIA

DIPoH proposal submitted under Horizon 2020





Funding: Memberships

MS	contribution (annual)	Examples (k€)	
Var	ious possibilities	CZ	DE
1.	Flat rate = equal contribution	100	100
2.	Fixed fee + variable fee based on GDP	40	285
3.	3. Fixed fee + variable fee based on GDP per capita		110
4.	4. Fixed fee + variable fee based on GDP (50%) and		195
	GDP per capita (50%)		
5.	Fee based on GDP only	20	350
6.	Fee based on GDP per capita only	48	115
7.	Fee based GDP (50%) and on GDP per capita (50%)	35	230

Access fees/Institutional contribution

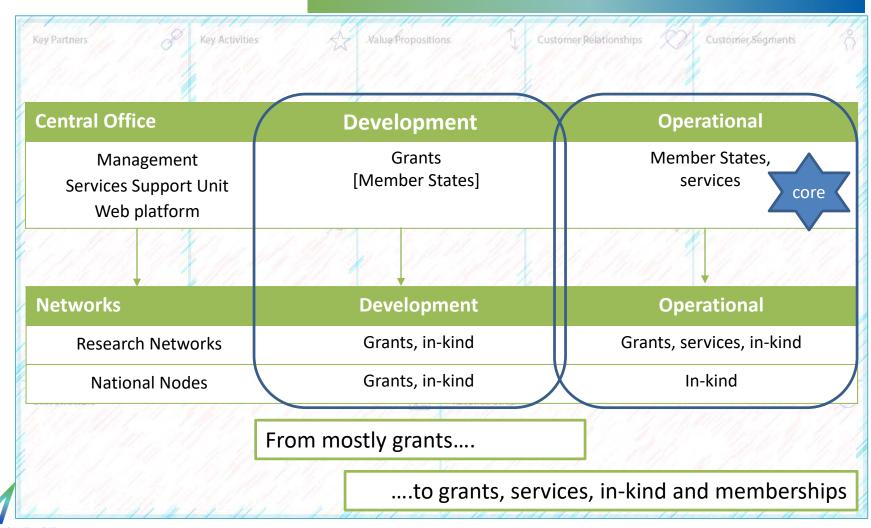
Organisation (consider size)	Annual fee (k€)	In-kind (fte)
Public Health Institutes		
Research Networks		
Academia		



Funding: Fee for service

				runding. roo i	
	Pillar		Fee for service (example)		
	One stop sh (one entry poi the RI servic	int to	Provide tailored literature provide specific experts (
Innovative research		earch	Provide Computing servi	ces	
	Capacity building		Provide training on reque Develop and disseminate information	ested topics; e module on comparative health	
	Knowledge translation res		Commission a full expert report, systematic review	group; Commission a specific v or data analysis	

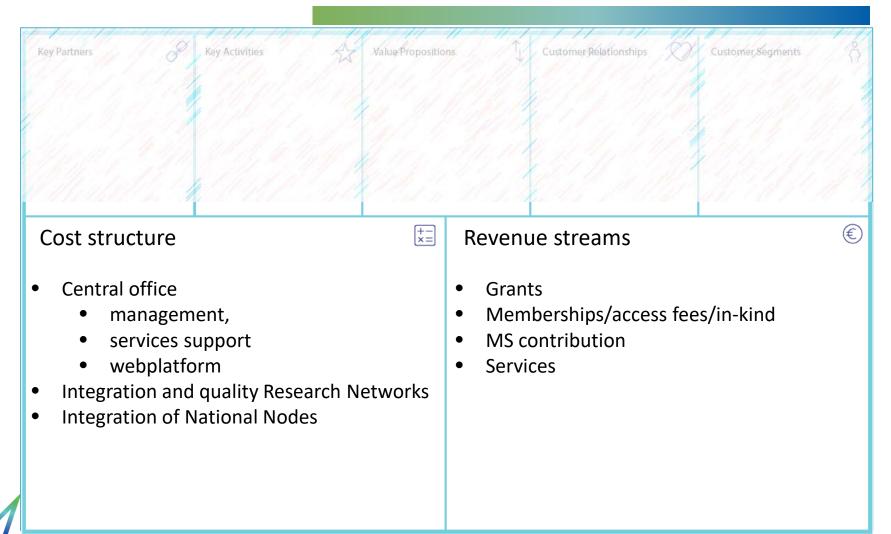
Funding





Business plan: 3. Financing the RI

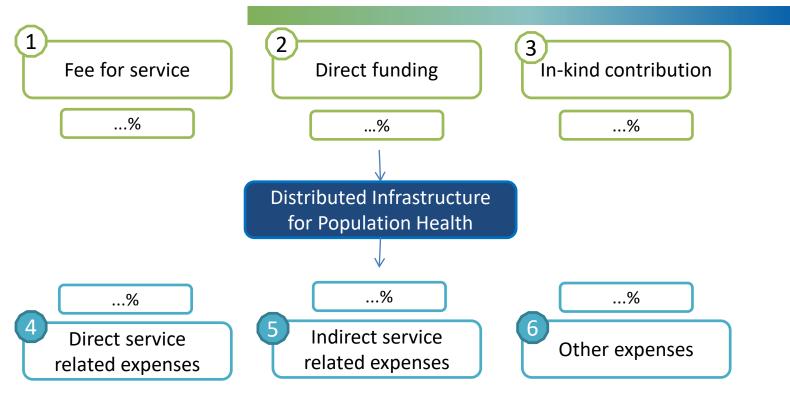
Costs vs revenues, summing up



Joint Action on Health Information

Business plan: 3. Financing the RI

Costs vs revenues, summary



Generated by users paying for services offered on or via the platform

• FTE

INFAC1

Joint Action on Health Information

- MS, EC, for connecting and representing stakeholders, offering certain shared services
- 4
 - 5
- activities
 Not directly related to the provided services, cover strategic and tactical activities

Connected to offering services and related

• Include participation fees to connect with networks and unforeseen expenses



- What we have to offer
 - A group of dedicated people
 - A good cause
 - A developing infrastructure
- What we ask of you
 - Please reflect on possible ways you may contribute







Additional slides







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Overview

ANNEX 1: Overview of Research Infrastructure on health information inputs, outputs and outcomes

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INPUTS/ASSETS	OUTPUTS/ACTIVITIES	OUTCOMES/IMPACT
What we invest and have available	What we do and who we reach	What is our mid-term impact?
Building blocks for a strong organization Governance, experience, commitment	Provide services to our research networks Build and expand platform functionalities Support data management and exchange	A growing set of participating research networks
Our special assets Experts, good practices, networks	Support cross-national capacity building Support data quality maintenance Support project development and fundraising	More comparable data for research More equal national research capacities
Experience with project & network development Senior investigators & project developers	Provide services to a wider audience	More effective use of existing data
Output and experience from previous research	Build and maintain a portal for health information Assess national health information systems	Contribution to the European research agenda
Good practices, tools, methods, evidence National nodes for health information		More efficient use of research funds Improved knowledge transfer
Direct access to national experience		Better data and indicators for health policies
Our ambitions and values	How we work on impact and future strength	What is our long-term impact?
Be a reliable and desirable research partner	Liaise, communicate, teach and advocate Liaise with stakeholders and decision makers	A strong EU health research infrastructure
We believe in European research collaboration	Liaise & coordinate with other RI's and ERIC's Collect & distribute information and news	Full grasp of population health, its determinants and trends
Work closely together with stakeholders and citizens	Organize our advocacy and communication Organize conferences, meetings and for a	Understanding EU health system dynamics Efficient European healthcare systems
Aim for equity, sustainability, quality, efficiency	Develop and implement knowledge brokering Reach out to NGO's, citizens and private parties	Mature national health information systems
Aim for FAIR data Better health and care is our core business	Enlarge our conglomerate of distributed research networks Identify and support new partner networks	Leading comparative population health research
We work for the public good	Expand our research focus and potential impact Support knowledge translation research	Better EU health and well-being
	Foster foresight studies Support cost-effectiveness research	Health is wealth: stronger economies

From InfAct to RI

Uniformation	
Knowledge transistion research for enforce based decision-making //	
Level	Tangible contributions
1. One-stop shop:	*prototype for web platform
	*input and prototype for a (meta)database of research networks/projects collecting EU comparable data/information
find	*overview of interoperability do's and don'ts when sharing, linking and managing health data across borders
	*standards for reporting meta-data
	*toolkit to produce BoD estimates: how to conduct a BoD study with minimum requirements in MS by collaborations
	and exchange of best practices
	*guidance to estimate health indicators using linked data and advanced statistics
	*guidance for high quality and target specific health reporting
2. Innovation	*roadmap for further development of EU-HIS in terms of linked data and advanced statistics
	*use of Machine Learning Techniques to estimate health outcome indicators using linked data
	*proof of concept for federated data infrastructure compliant with the legal, semantic, operational and technical pillars
	of interoperability, allowing reproducibility and scalability
3. Capacity	*health system performance expert workshop
building	*research network meetings (Peristat, EHLEIS, BoD)
4. Knowledge translation research	*working with health data cross-border and looking at it through the scope of interoperability layers add to policy
translation research	uptake and benefits evidence-informed decision-making
	*high quality health reporting facilitates health information accessibility and thus supports evidence-informed
	decision-making in health
Overarching	*concept business plan
overarening	*committed MS
	*engaged research networks

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Example Research Network: EHES

Cost of Coordinating Centre over a period of 5 years		MS	MS	MS
		n=5	n=16-20	n=28
Staff	Coordinator, IT-expert, Statistician (reporting, sampling), Epidemiologist, Lab person, Assistent			
	Overhead			
	Total	2.5M	4.1M	5.5M
Operational	Training seminar (planning, fieldwork, reporting)			
	Lab materials			
	Overhead			
	Total	50k	75k	140k
Travel	Visits (site, consultation)			
	Overhead			
	Total	70k	335k	600k
Total	5-year cost of Coordinating Centre	2.7M	4.5M	6.2M
	Annual cost of Coordinating Centre	540 k	900 k	1.25M

Central Office

Management

Services Support Unit

Web platform





Example National Node Process Netherlands

RIVM (Organiser)	Dutch National Institute for Public Health and the Environment
CBS	Statistics Netherlands
Erasmus MC	Erasmus Medical Centre, Department of Public Health
Health RI	Health Research Infrastructure Initiative
Nictiz	National ICT Institute in Care
Nivel	Netherlands Institute for Health Services Research
OCW	Dutch Ministry of Education, Culture and Science
Trimbos-instituut	Netherlands Institute of Mental Health and Addiction
VWS (Chair)	Dutch Ministry of Public Health, Welfare and Sport
ZonMw	Netherlands Organisation for Health Research and Development

-> First: proof of concept; Then: discussion & assignment

Two examples:

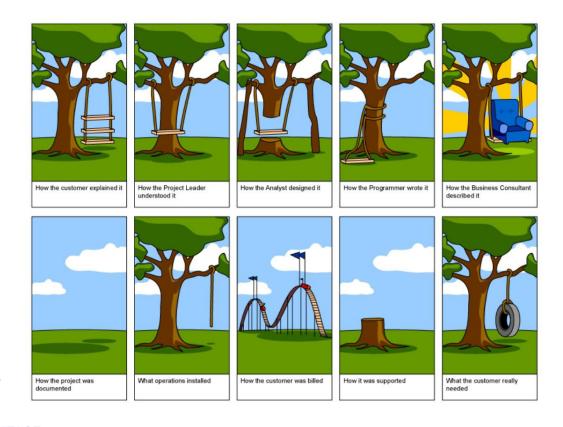




Sustainable data delivery to OECD



http://www.projectcartoon.com/create/





GOOD service FAST won't be CHEAP FAST service CHEAP won't be GOOD

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WP7: Netherlands National Node

National Node meeting scheduled for November 5th (all invited accepted)

RIVM (Organiser)	Dutch National Institute for Public Health and the Env	/ironment	
CBS	Statistics Netherlands		
Erasmus MC	Erasmus Medical Centre, Department of Public Health	1	
Health RI	Health Research Infrastructure Initiative	Health RI is a joint initiative of DTL	
Nictiz	National ICT Institute in Care	(Dutch Techcentre for Lifesciences),	
Nivel	Netherlands Institute for Health Services Research	ELIXIR-NL, BBMRI-NL, EATRIS-NL,	
OCW	Dutch Ministry of Education, Culture and Science	Netherlands Federation of University	
Trimbos-instituut	Netherlands Institute of Mental Health and Addiction	Medical Centres, and Health~Holland	
VWS (Chair)	Dutch Ministry of Public Health, Welfare and Sport		
ZonMw	Netherlands Organisation for Health Research and Dev	velopment	





National Institute for Public Health and the Environment Ministry of Health, Welfare and Sport -> Covering-health domain from prevention to care-both research and policy

