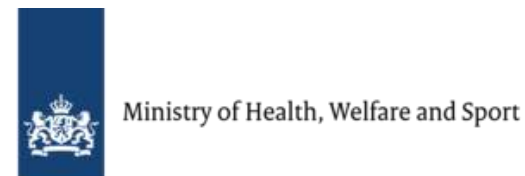


Welcome to De Rotterdam!

Health~Holland Visitors Programme 2022

We will start at 09.45



Municipality of Rotterdam



Jeannette Leete
Sr. Projectmanager Economic
departement
Gemeente Rotterdam



**Gemeente
Rotterdam**



Rotterdam



<https://generationr.nl/researchers/>



[July 2022 : Convergence brings together investment of 60 million for future-proof healthcare \(tudelft.nl\)](https://www.tudelft.nl)

Resilient Delta// Healthy Start// Health & Technology // AI, Data , Digital//Pandemic & Disaster Preparedness Centre



Convergence
Crossing Boundaries



Rotterdam-010.nl

010
ISN'T
JUST
A CODE



010
IS A
STATE
OF
MIND

ROTTERDAM-010.NL



Gemeente Rotterdam

LIFE SCIENCES & HEALTH 010=

LIFE SCIENCES & HEALTH 010=

LSH010 DIGITAL BREAKFAST
18 MAART 2021
Impact of AI on Healthcare

LSH010-VIRTUAL.NL

An illustration on a dark blue background showing a doctor in a white coat and mask holding a clipboard, and a wooden signpost pointing right with the text 'LSH010-VIRTUAL.NL'. There are also icons of a fried egg and a coffee cup.

Rotterdam Square



Ellen Smit
Director
Rotterdam Square



**Gemeente
Rotterdam**



RotterdamSquare

Accelerating future solutions in health

Ellen Smit
Director

Health~Holland



Laura Duran
International Relations Officer
Health~Holland



Health~Holland
SHARED CHALLENGES, SMART SOLUTIONS



Health~Holland

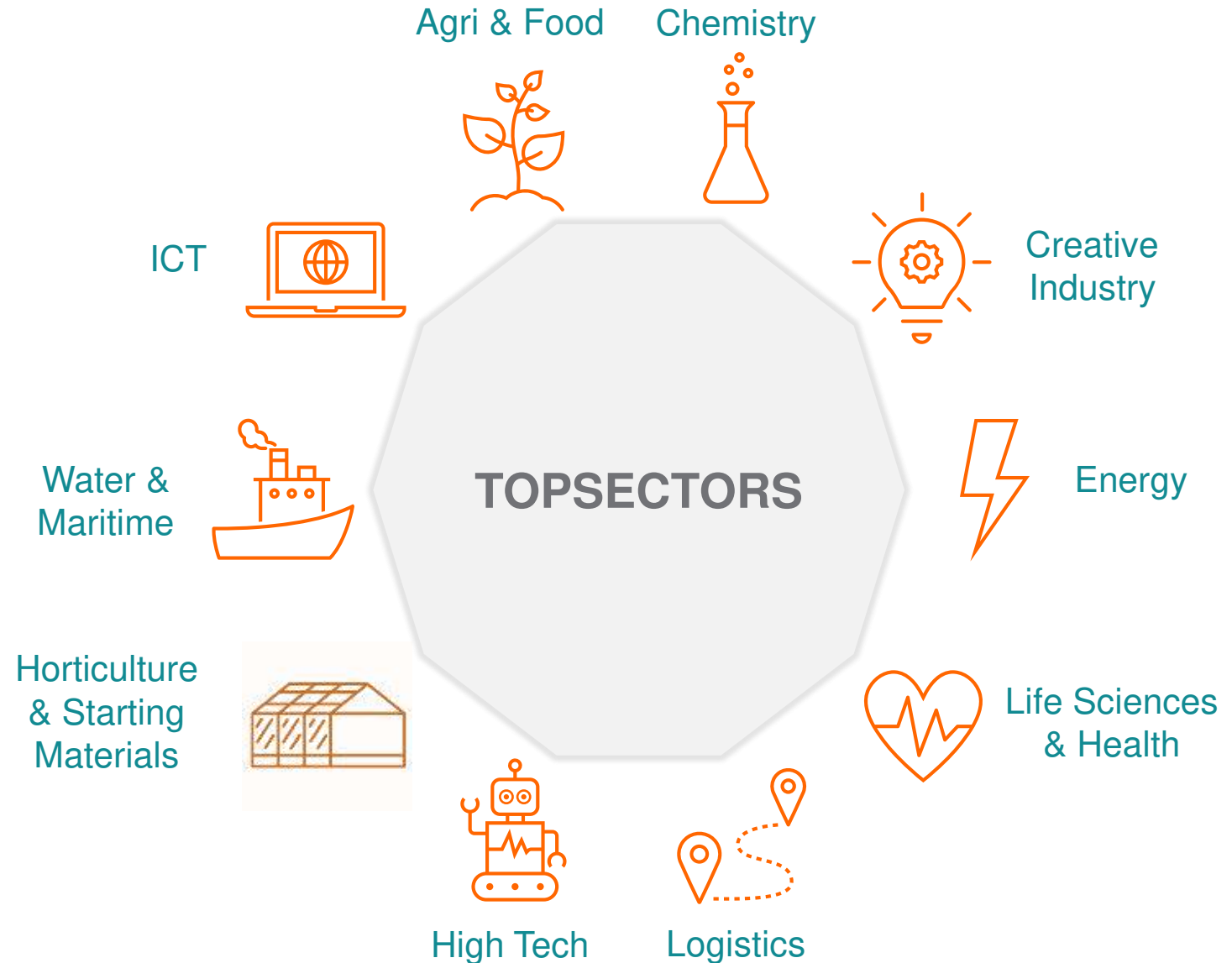
Topsector Life Sciences & Health

Laura Duran
International Relations Officer



Topsectors

“Top sectors strengthen the economy with innovations, by seizing international opportunities, solving societal challenges, increasing human capital and investing in scientific research”



WHAT?

Startup and SME support

<https://www.health-holland.com/startup-and-sme-support>



In which industry do you work?

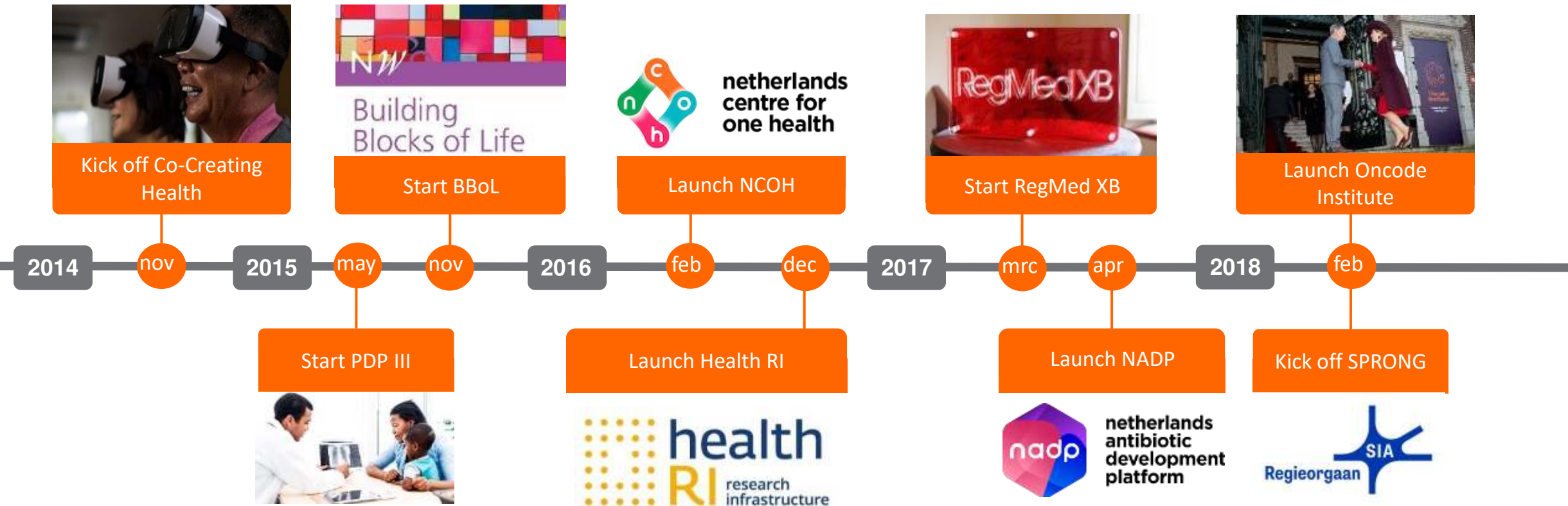


What are you looking for?

Business development	Courses & events	Networking opportunities	Public-private partnerships	Funding
Expert Classes	Biobusiness Summerschool	FME	GROZ/fieldlab	Eurostars
Global Investor Forum	Paul Janssen Futurelab	HollandBIO	HHINT kickstarter	Horizon Europe
Global Scale-Up Program	Talent Accelerator Programme	LifeSciences@Work	Match Call	Innovation Credit
Health Impact Accelerator	Dutch Life Sciences Conference	Medtechpartners network	PPPs	MIT Knowledge Voucher
Innovation Broker	Health Valley Event	Task Force Health Care		MIT R&D
Innovation Cafe	Innovation for Health	Zorginnovatie.nl		Regional Development Agencies
National Healthcare Innovation Award	Mobile Healthcare			Seed Capital
The Netherlands Patent Office	World of Health Care			Proof-of-concept funding
Venture Challenge				WBSO

Strategic public-private partnerships

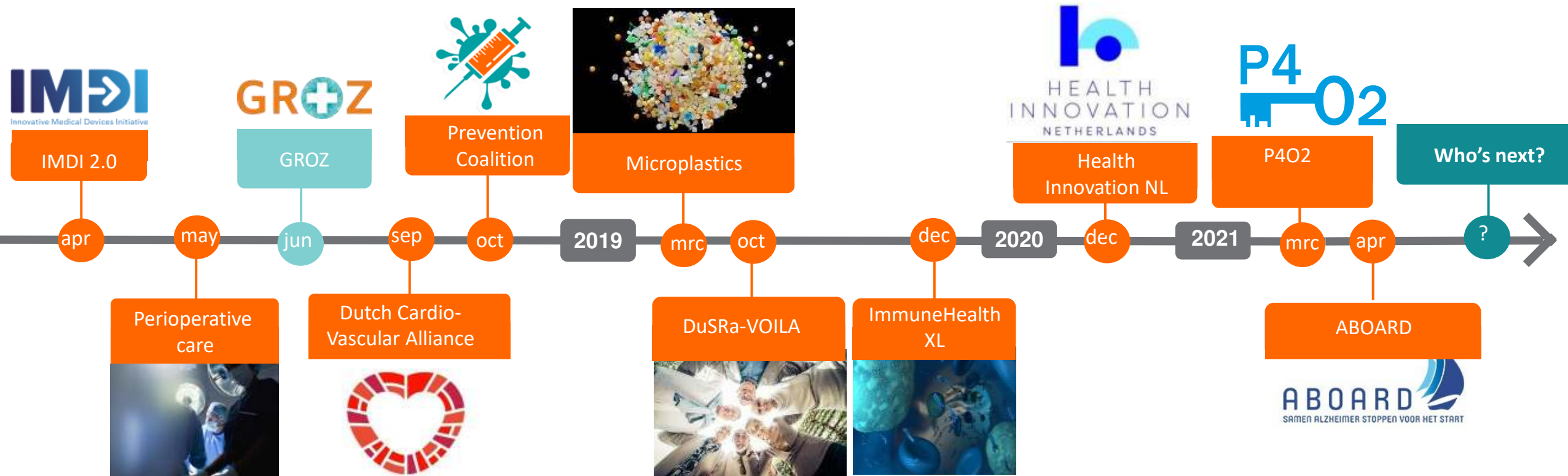
Timeline



Strategic public-private partnerships



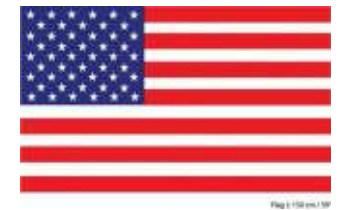
Timeline



WHY?



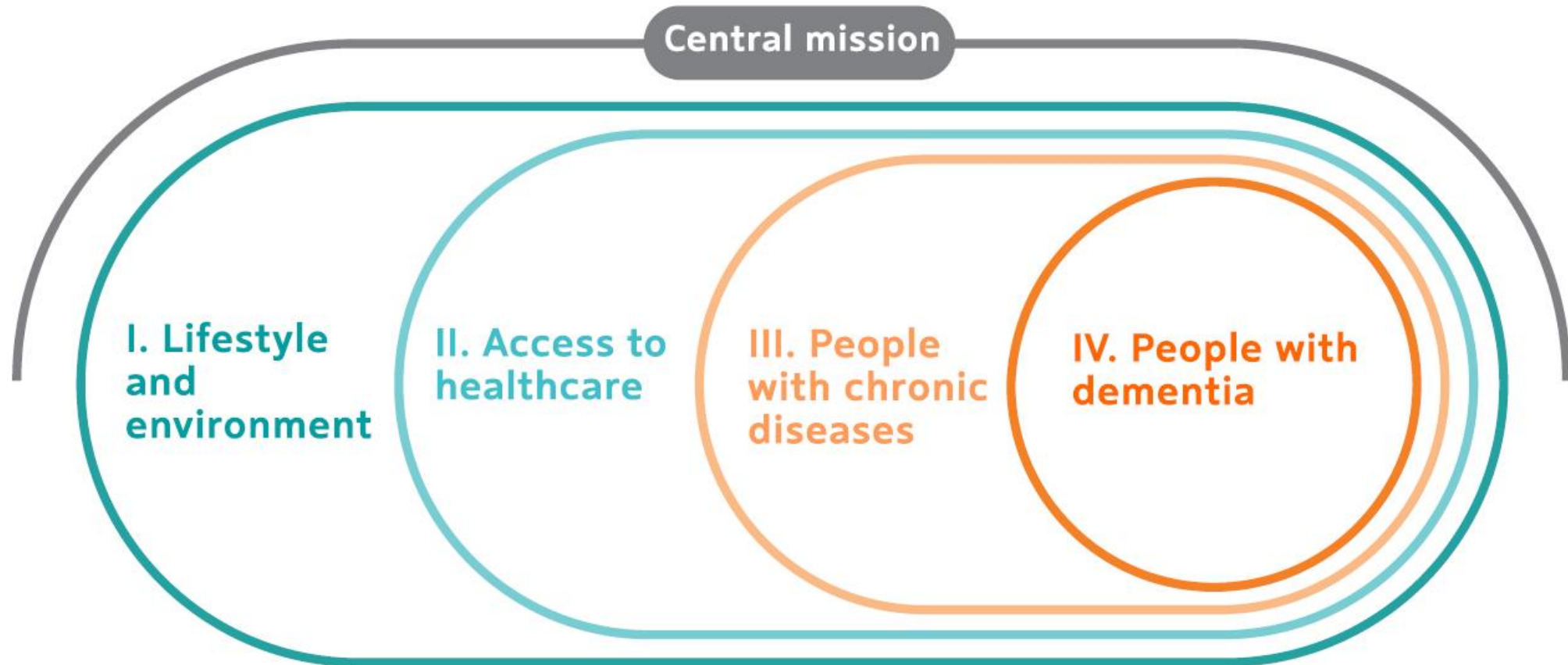
Moonshot

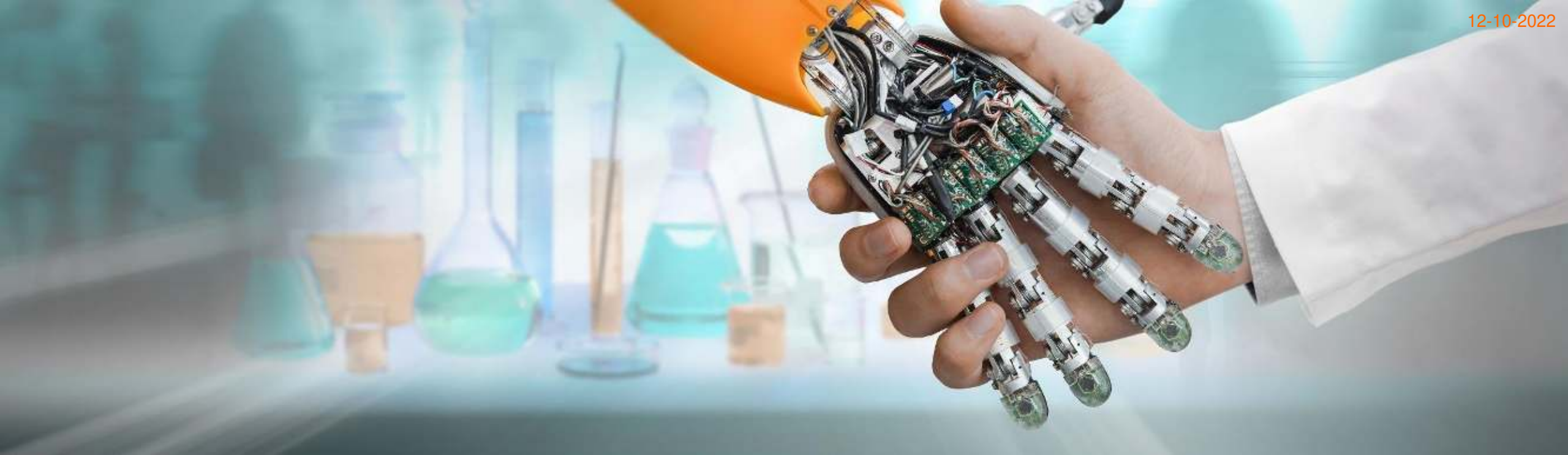


20 juli 1969

Mission driven innovation: Dutch Missions for Health & Care

From 2019



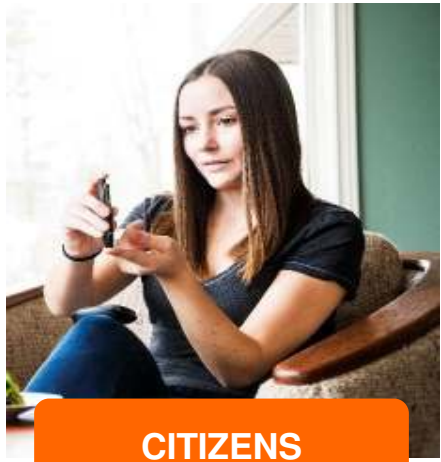


Dutch missions Health & Care: + 5 healthy years, - 30% inequalities

Knowledge and Innovation Covenant:

- > 100 partners
- > € 1 Billion/year
- > 600 Public Private Partnerships
- > 30 Strategic Partnerships

Quadruple helix



CITIZENS

+



RESEARCHERS

+

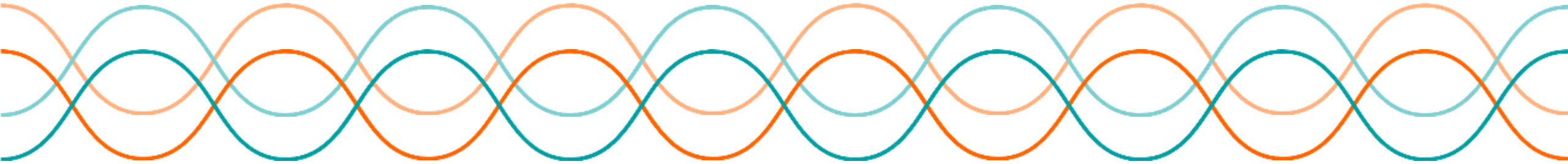


ENTREPRENEURS

+



GOVERNMENT

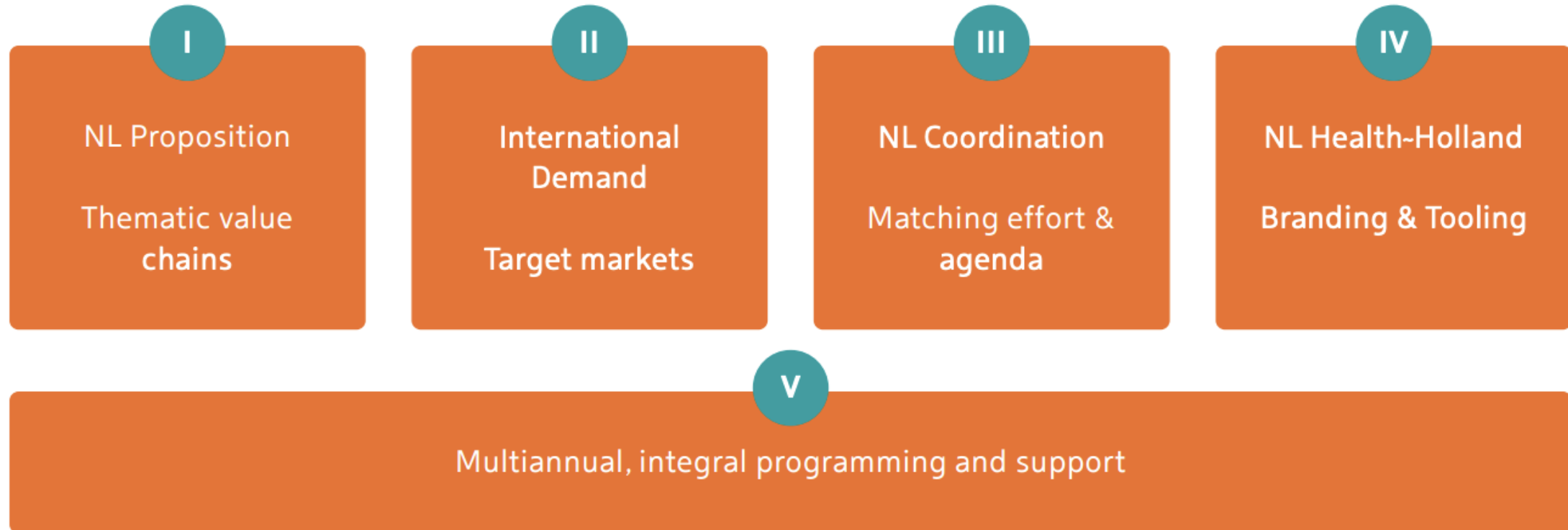


HOW?

Europe's connected Life Sciences & Health metropolis

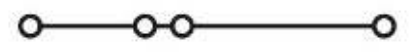


Health~Holland International Strategy 2020 – 2023





Europe's connected Life Sciences and Health metropolis



Contact info Health~Holland



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<https://www.linkedin.com/showcase/health-holland-international>



[@HealthHolland](https://twitter.com/HealthHolland)

Ministry of Health, Welfare and Sport



Ministry of Health, Welfare and Sport

Iman Merison

MT member of Information Policy

Directorate

Ministry of Health, Welfare and Sport



Ministry of Health, Welfare and Sport

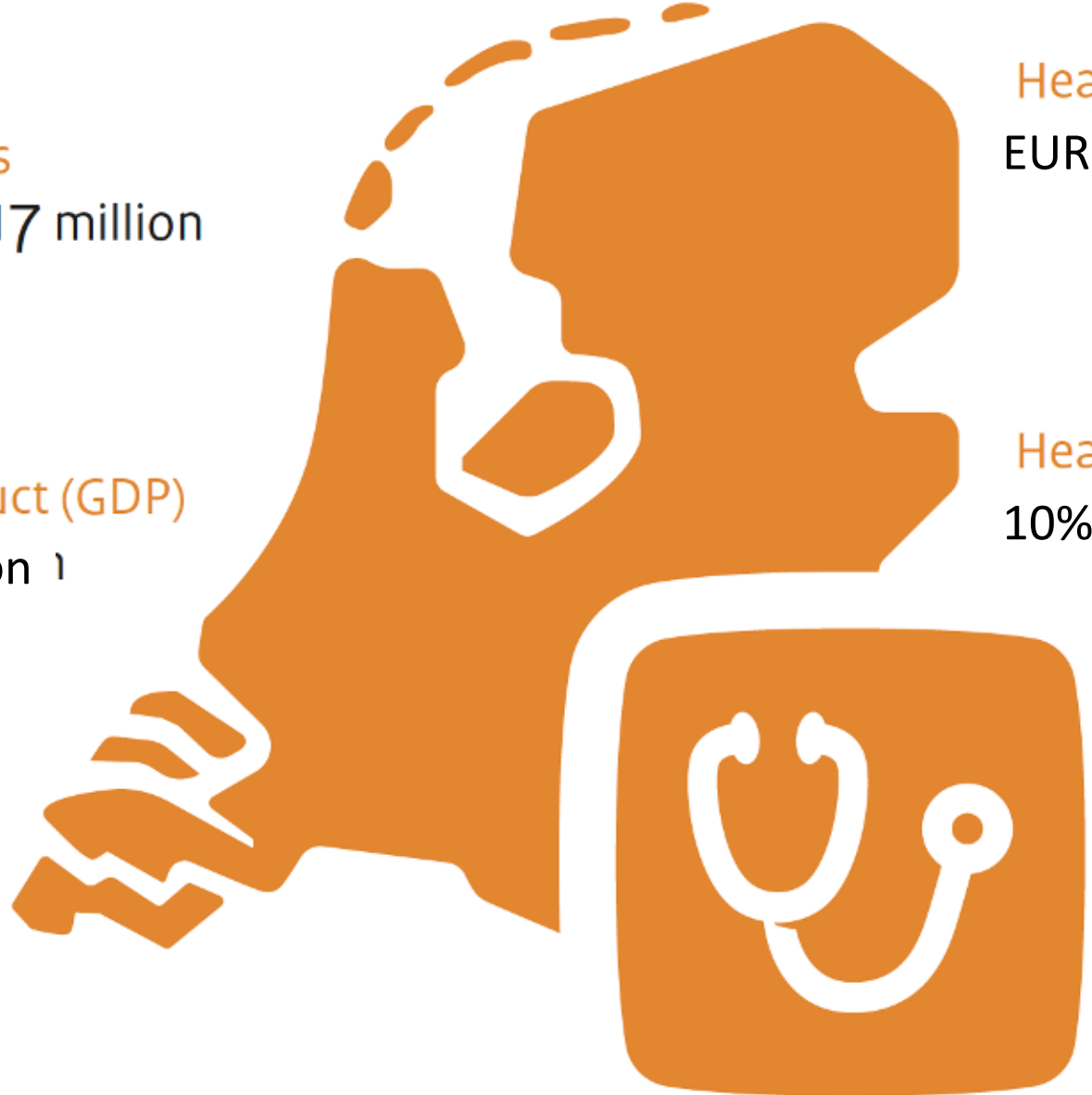
The state of digital health in The Netherlands

Healthcare in the Netherlands



Residents
Approx. 17 million

Gross Domestic Product (GDP)
Approx. EUR 800 billion ¹



Healthcare expenditure in EUR
EUR 81 bln (106 bln incl. social care)

Healthcare expenditure
10% of GDP (13% incl. social care)

Total number of people employed
in the healthcare field
Roughly 1,2 million

The Netherlands is among the global leaders:



3rd

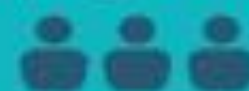
Digital Economy and Society Index



1st

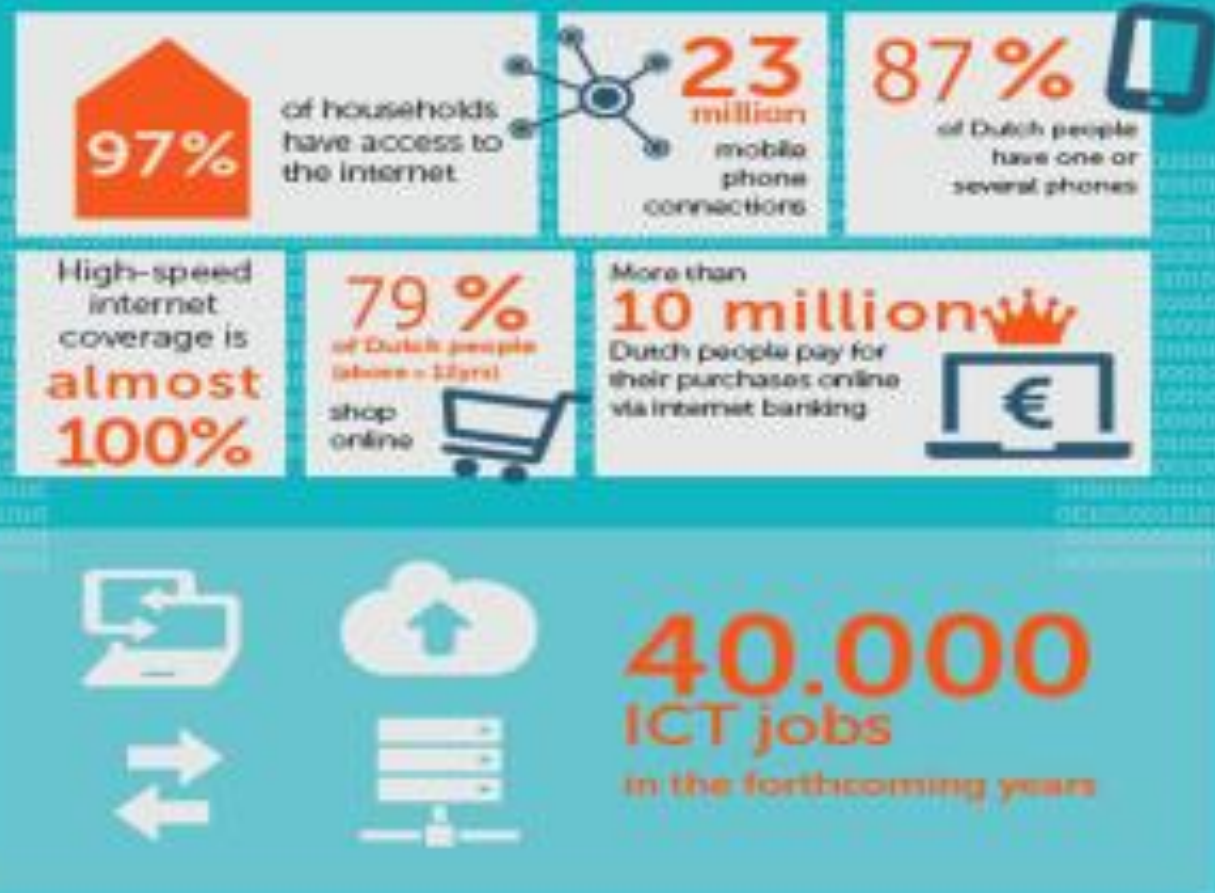
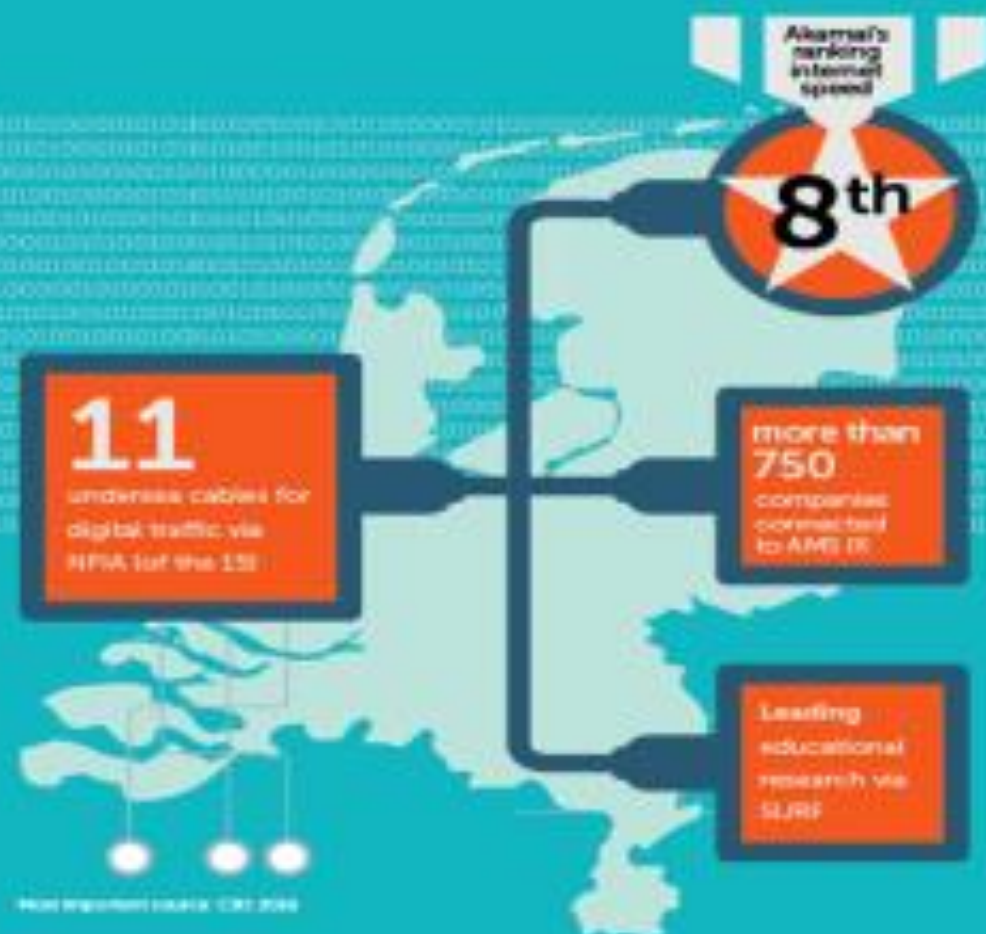
Networked Readiness Index

499.000 people employed in ICT = 5% of all employees are ICT employees



5%

of all employees are ICT employees



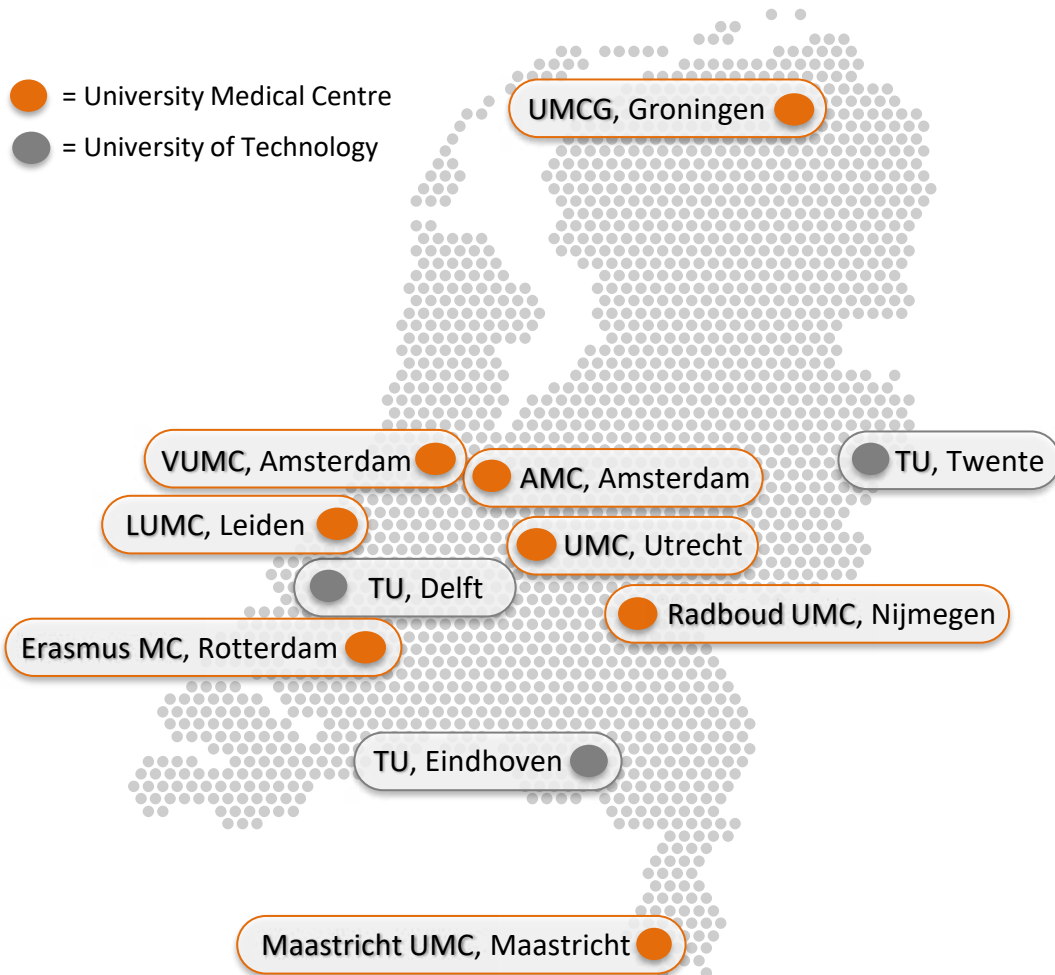


MEDICAL AND PHARMACEUTICAL EDUCATION



Dense network of universities

- = University Medical Centre
- = University of Technology





**The right care at the right
place at the right time**

**Empowered citizens: everyone
CEO of their own health**

**Empowered healthcare
professionals: let doctors
doctor**



Flourishing ecosystem





Everybody CEO of their own health

Living at home Longer, self sustainable

New treatments with Big data and AI

Tele-health

Self-measurements

Flourishing climate

Fertile soil

National Health Info Council

*Exchange standards
Core registries*

Quality standards

Cybersecurity

Core

infrastructure

Procurement

Semantic

*interoperability
Trusted authentication*

Legal Frameworks

Patient access

Monitoring

Enforcement



Market-based healthcare system: marginal role of the government



Data exchange hindered by decentralization



Call for more top-down decision-making



National Health Information Council:
Whole system in a room



Interoperability

Role of the government

Standardizing data exchange

Step-by-step obligation to exchange electronic data (Wegiz)

Connect the (existing) infrastructures

Reuse of current infrastructures

Use of general services and agreements

Generic functions

Preconditions for exchange

Cybersecurity

Public ownership



DCC state of play

1.8bn+ issued certificates

67

Countries connected to the EU DCC Gateway

30

EU27+EEA

37

Third countries

22

In the pipeline



Sint Maarten

Aruba Curaçao

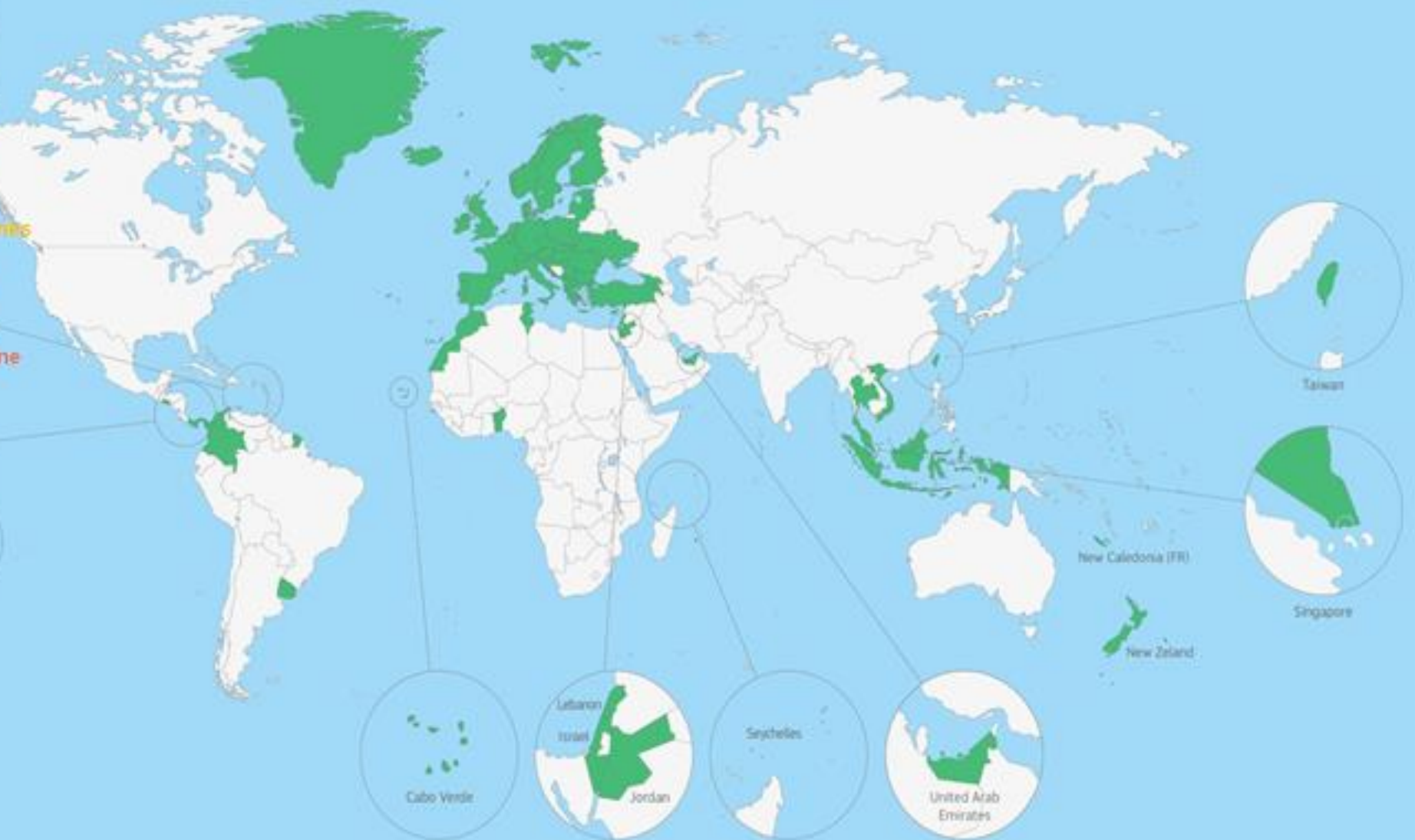


El Salvador

Panama



French Polynesia



Cabo Verde

Lebanon

Israel

Jordan

Seychelles

United Arab Emirates

New Caledonia (FR)

New Zealand

Singapore

Taiwan



European Health Data Space (concept)

- > Creates rights for citizens to control their own health data;
- > Creates regulation for ICT systems;
- > Making health data available across borders for the provision of care;
- > Includes Measures concerning the secondary use of health data;
- > (EU wide) Governance of primary and secondary use of health data.



International Approach to Digital Health

- National health IT vendor market is too small to sustain exponential development of innovations in health
- Dutch market must be part of international market, under the same rules
- Ensure that personal health data is exchanged safe, secure and trustworthy.
- This means we focus on international interoperability: standards and compliancy
- We import working practices, we export next gen solutions.



Ministry of Health, Welfare and Sport

Thank you

THANK YOU FOR COMING!

Health~Holland Visitors Programme 2022

