

# Innovation in (Digital) Health

A perspective from the Health Cluster Portugal

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INFARMED Annual Conference 2024

Lisboa

20 November 2024

Patrícia Patrício  
Innovation Director



Non-profit private association

230+  
members



Universities



R&D&I



Hospitals  
(private&public)



Companies



Patients'  
organizations

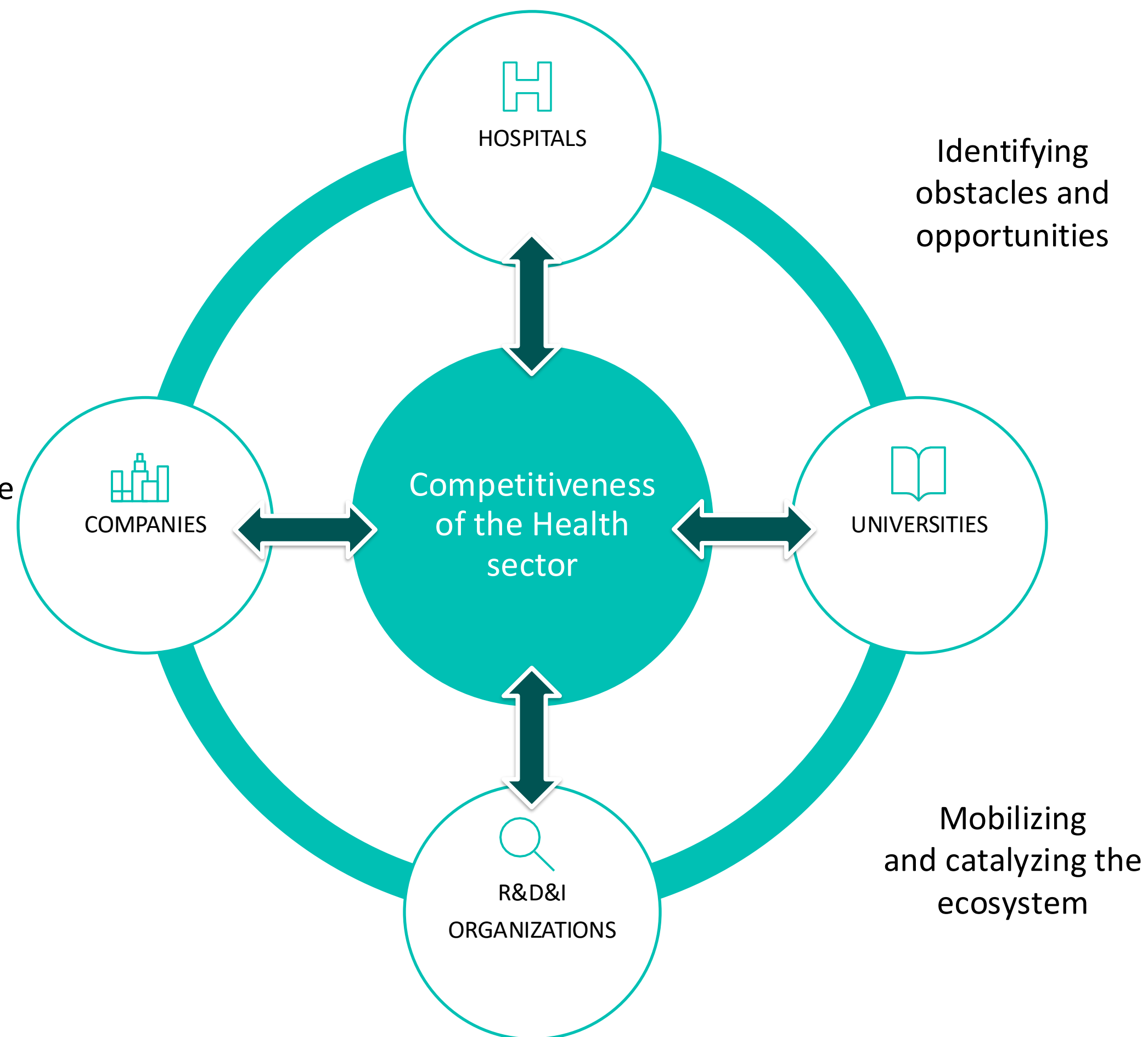


# Health Cluster Portugal

## Mission

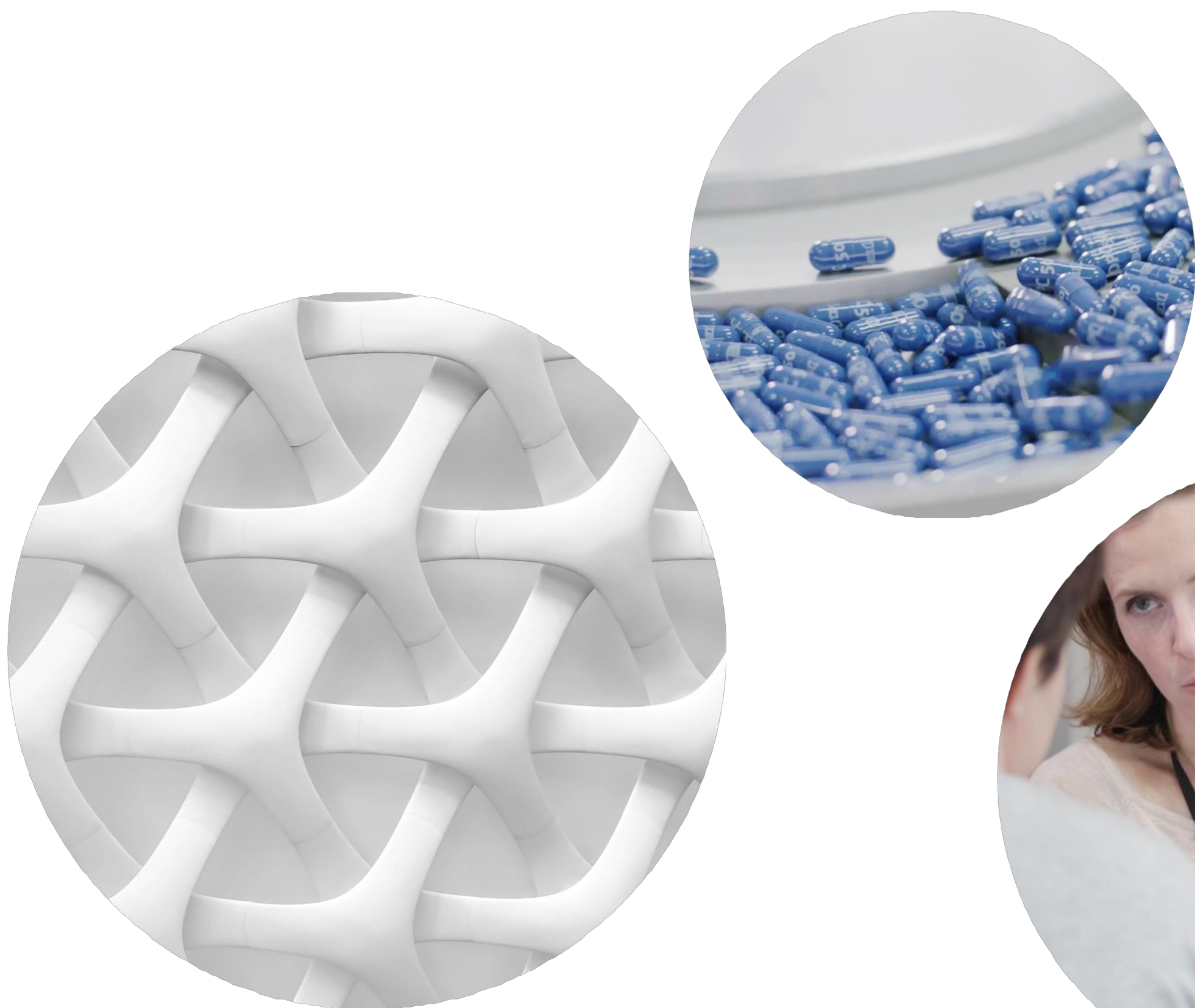


Leverage their knowledge  
and expertise



# Health Cluster Portugal

## Strategic Agendas



### Innovation

- Foster collaboration and R&D translation



### Internationalization






- Promote the national ecosystem
- Align with European initiatives



### Digitalization & Data

- Accelerate the expansion of the digital ecosystem
- Foster data share and use



	2018	2019	2020	2021	2022	2023
 <b>Workers</b> (x 1000) % national employment	369,1 7,8%	385,1 8,1%	399,4 8,5%	411,9 8,6%	423,6 8,6%	
	> 54% with university degree					
 <b>Companies</b> (x 1000) % total national	99,8 7,8%	102,8 7,8%	105,4 8,1%	111,3 8,3%	117,6 8,2%	
 <b>Turnover</b> (x 10 <sup>9</sup> )	31,6	33,3	34,1	37,8	40,5	
 <b>Gross Value Added</b> (x 10 <sup>9</sup> ) (€) % Portugal GVA % Portugal GDP	10,7 6,0% 5,2%	11,5 6,2% 5,4%	11,8 6,7% 5,9%	13,2 6,7% 6,1%	14,0 7,1% 5,8%	
 <b>Exports</b> (x 10 <sup>9</sup> ) (€) % Portugal exports % export-import ratio	1,33 2,3% 36,5%	1,57 2,6% 40,4%	1,75 3,3% 42,1%	1,83 2,9% 37,2%	2,46 3,1% 43,8%	3,34 4,29 52,2

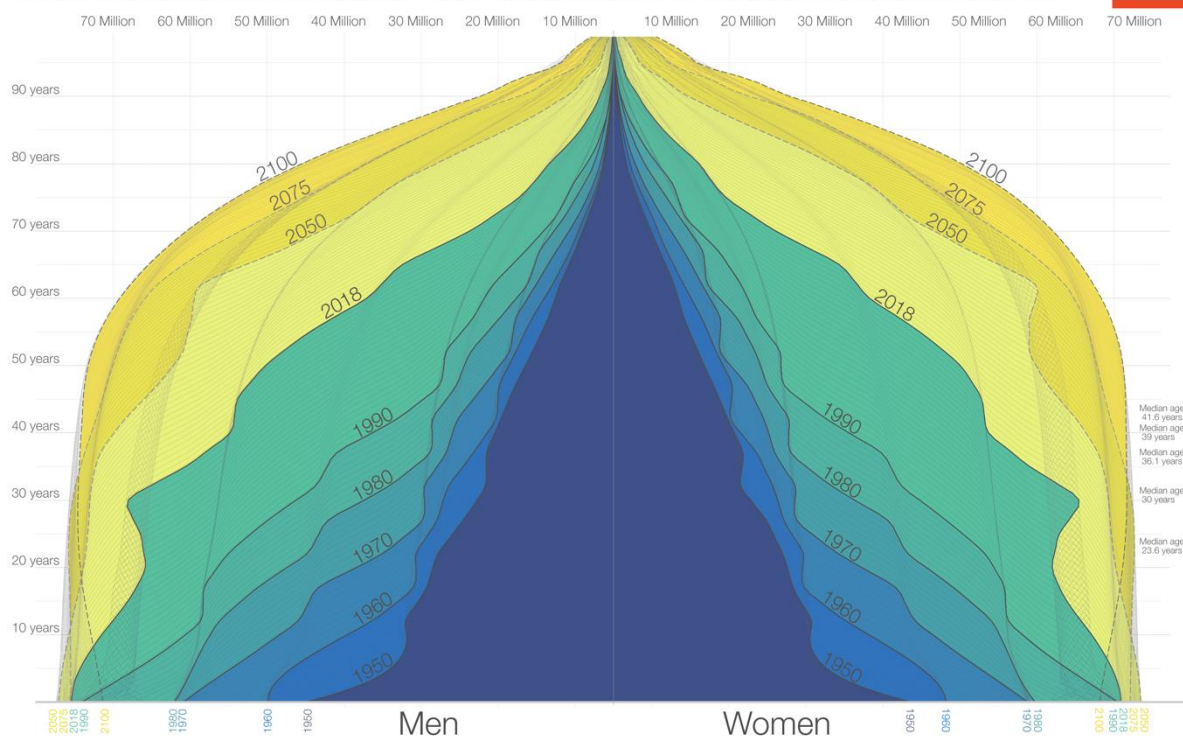
source: 1 a 4 FEP-UPorto | 5 AICEP/INE

# Health systems are under pressure

The Demography of the World Population from 1950 to 2100

Shown is the age distribution of the world population – by sex – from 1950 to 2018 and the UN Population Division's projection until 2100.

Our World  
in Data



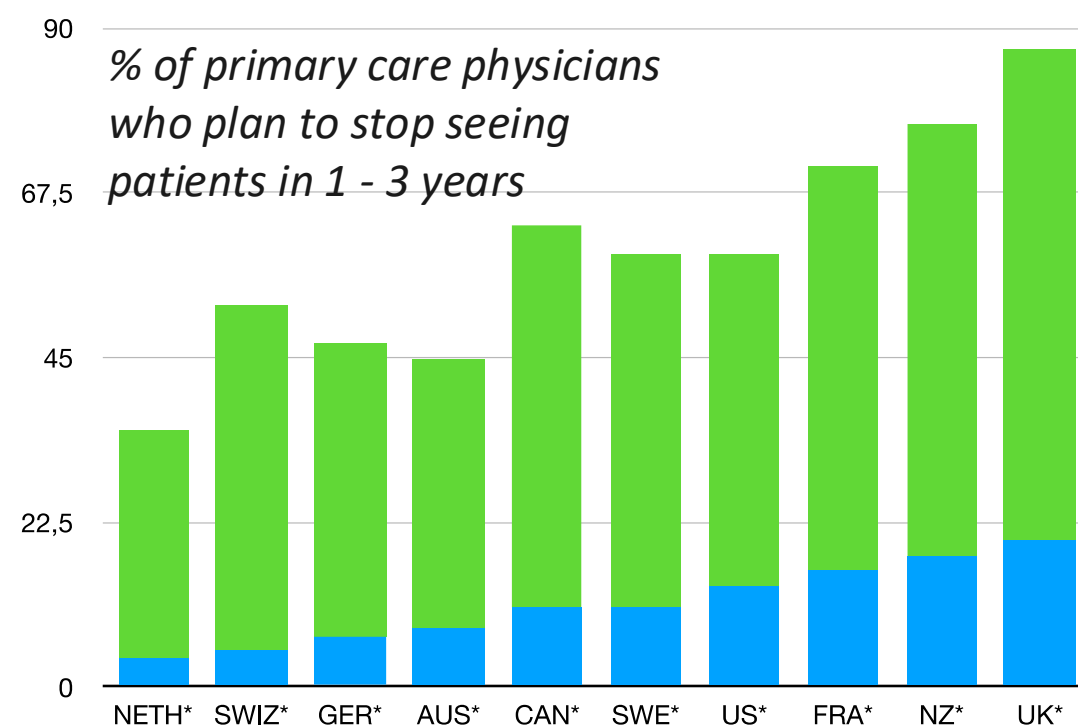
Ageing  
population

Increased  
prevalence  
of chronic  
conditions

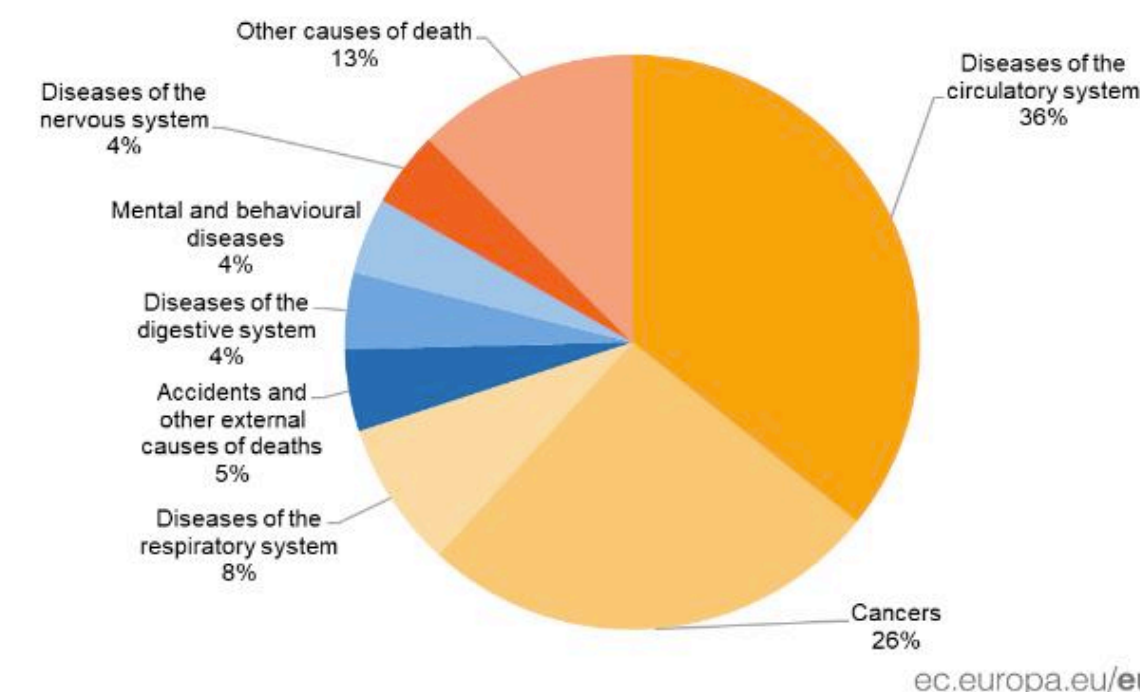
Shortage of  
healthcare  
professionals

Increasing  
healthcare  
costs

Under age 55  
Age 55 and older



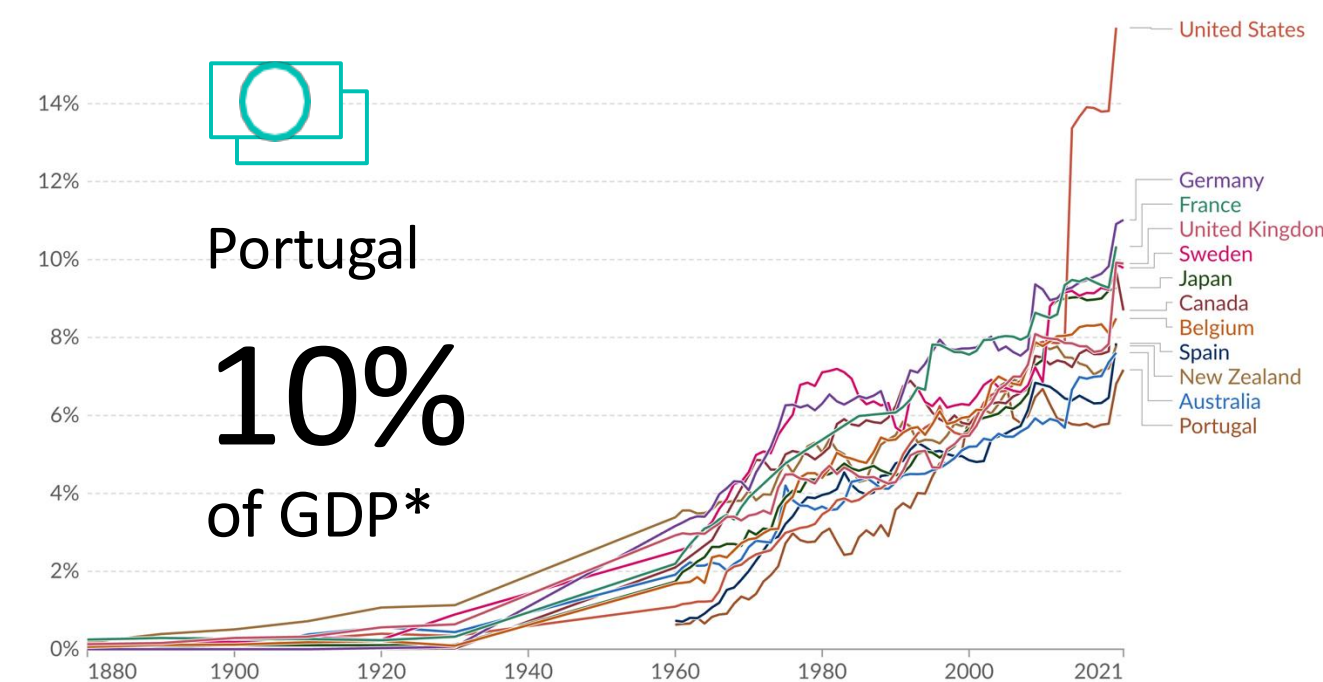
Causes of death in the EU by type, 2016  
(as % of all deaths)



Government health expenditure as a share of GDP, 1880 to 2021

This metric captures spending on government funded health care systems and social health insurance, as well as compulsory health insurance.

Our World  
in Data



Data source: Our World In Data based on Lindert (1994), OECD (1993), OECD Stat OurWorldinData.org/financing-healthcare | CC BY  
Note: Health spending includes final consumption of health care goods and services (i.e. current health expenditure). This excludes spending on capital investments.



# Digital innovation for the future of Healthcare

Health promotion

Disease prevention and management

Disease/public health predictions

Streamlining of operations

Humanization of care

Adoption

Trust

Privacy

Security



# Digital Innovation Hub

## DigiHealthPT



7

members

30+

associate partners

13+

digital skills for Health



Skills & training



Innovation  
ecosystem &  
networking



Test before  
invest

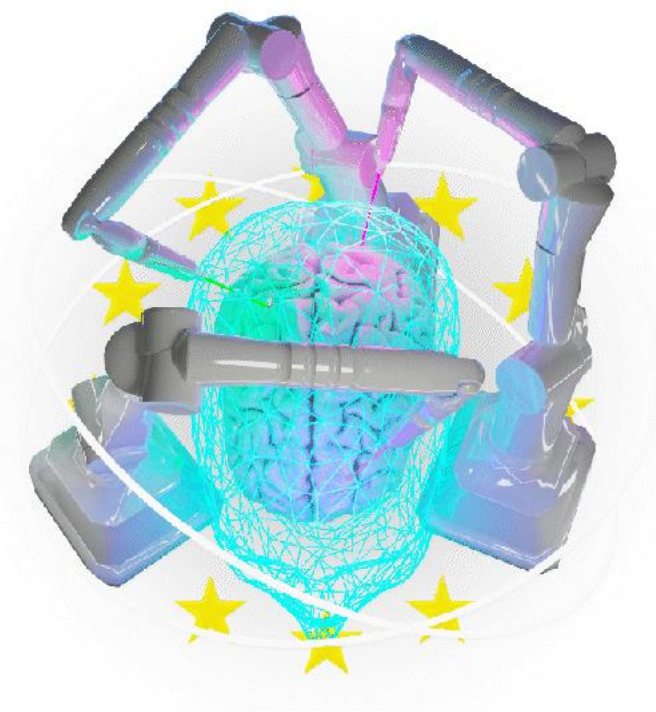


Support to find  
investment



# Testing and Experimentation Facilities

## TEF-Health Testing and Experimentation Facility for Health AI and Robotics



9  
nodes/countries

50  
partners

Physical and virtual facilities

Support services

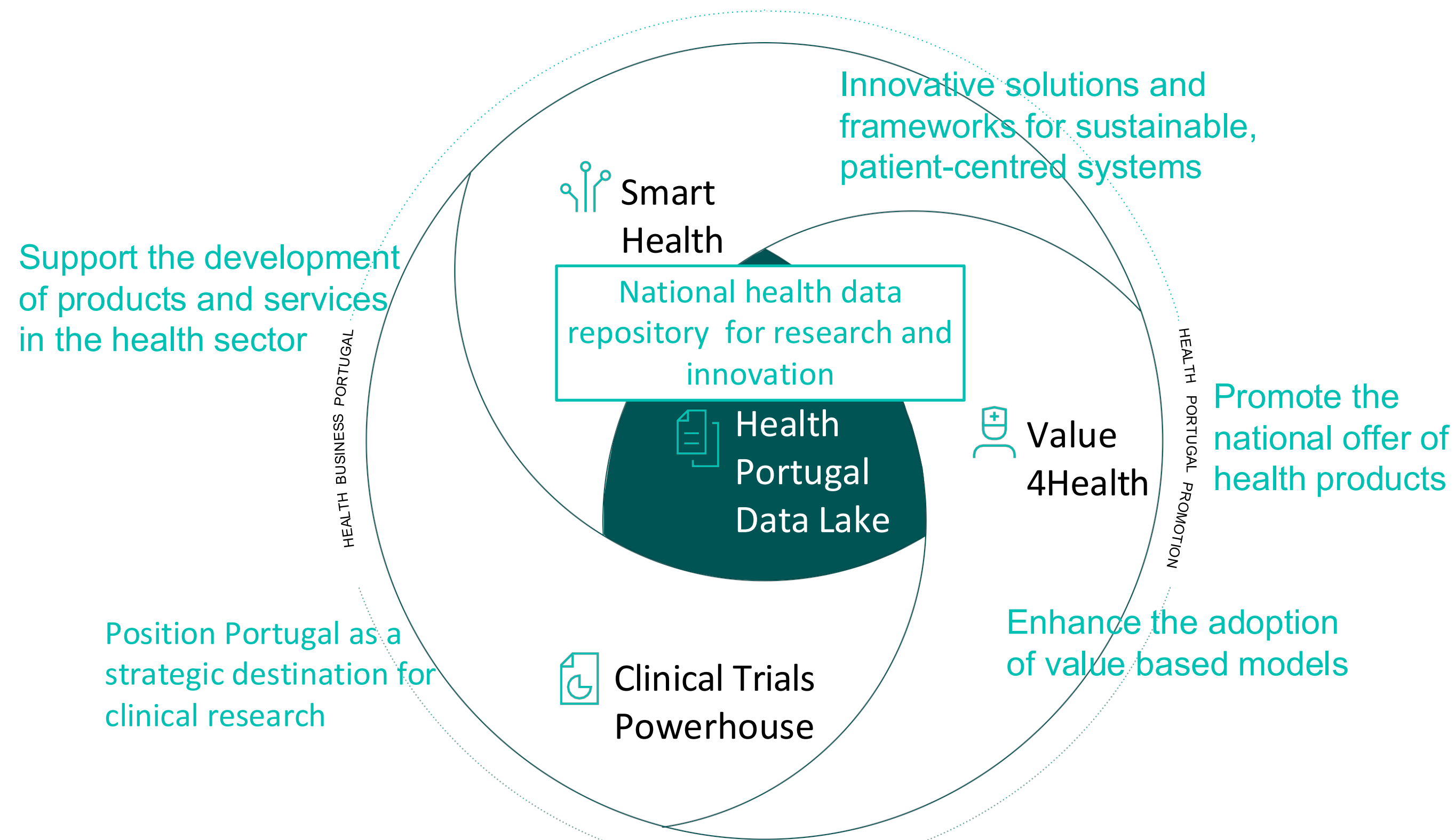
- regulatory
- ethics
- business development

For SMEs and startups in TRL 4-8



# Health from Portugal

## Recovery & Resilience Plan



## An integrated response to the Health sector challenges

Partners

88



51

Companies



37

R&D&I

Other



Global Investment

€90M

Global Incentive

€70M

Consortium leader:

Prologica



90

new products  
& services

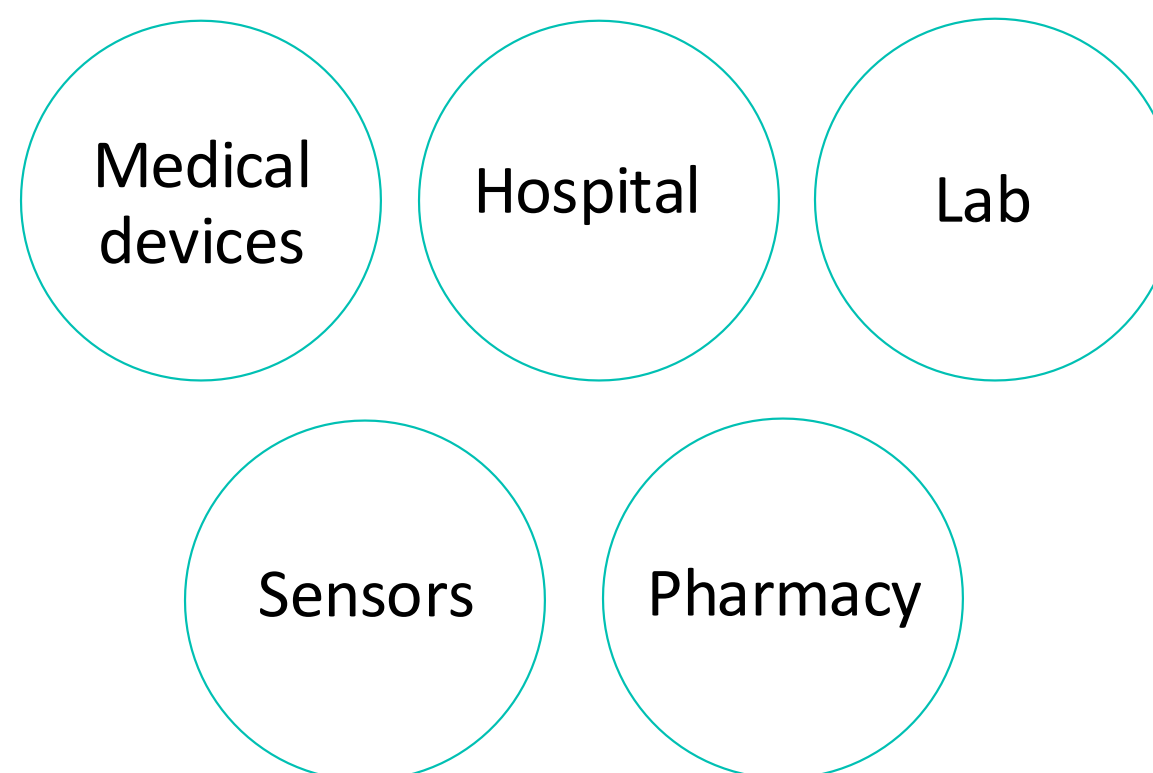
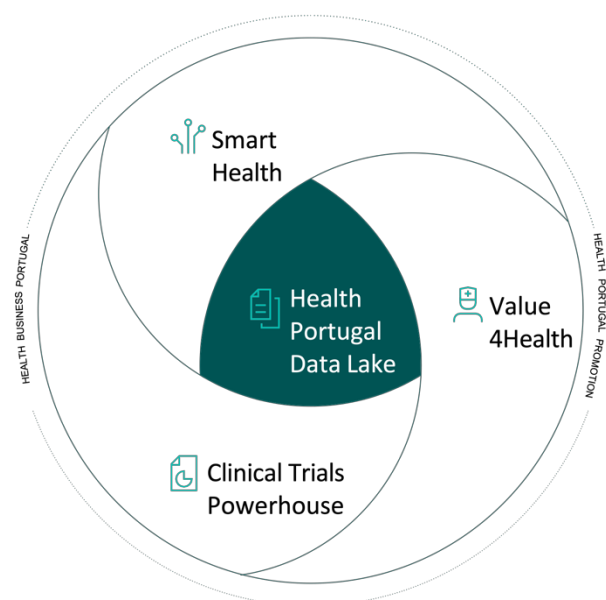


300+

Highly qualified jobs



# Health Portugal Data Lake



 **MULTICARE**  
FIDELIDADE

 **GERMANO DE SOUSA**  
CENTRO DE MEDICINA LABORATORIAL

 **Unilabs**

 **UNIDADE LOCAL DE SAÚDE  
COIMBRA**

 **HEALTHY  
SYSTEMS**

**NOS**

**CINTESIS**  
Health.Research.

**MultiHealth**

Technology owner – data space platform

## Secondary use of data



Research



Preventive Medicine



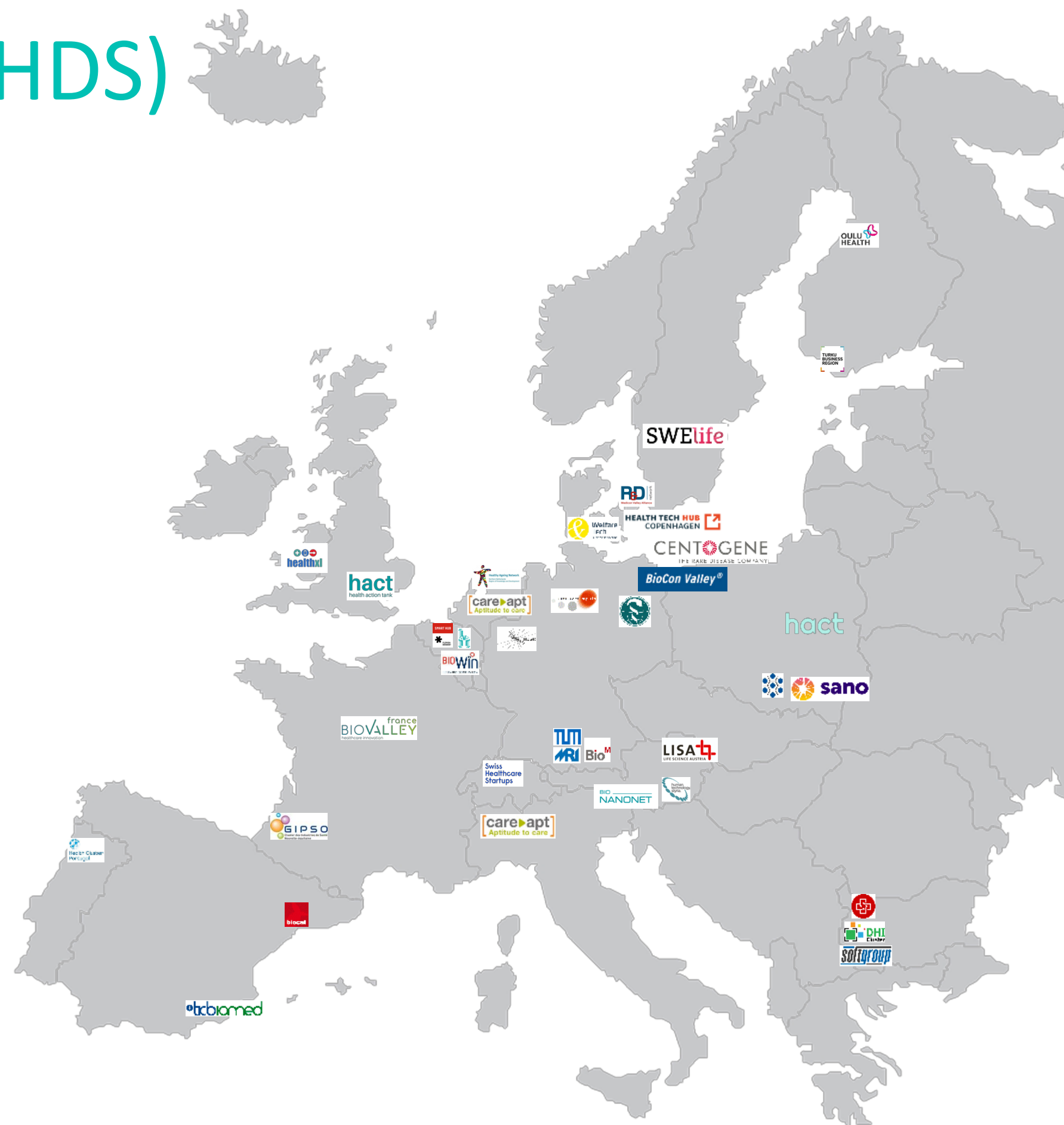
Improve Healthcare

# European Health Data Space (EHDS)

Data privacy

Interoperability

Strengthening  
European  
Institutions



## Joint Declarations

14

countries

*Coordinated by*  
Scanbalt metacluster

*Submitted to*  
EU Council Presidencies

*Aim*  
Bottlenecks and solutions for a common  
EHDS

## EDAH project

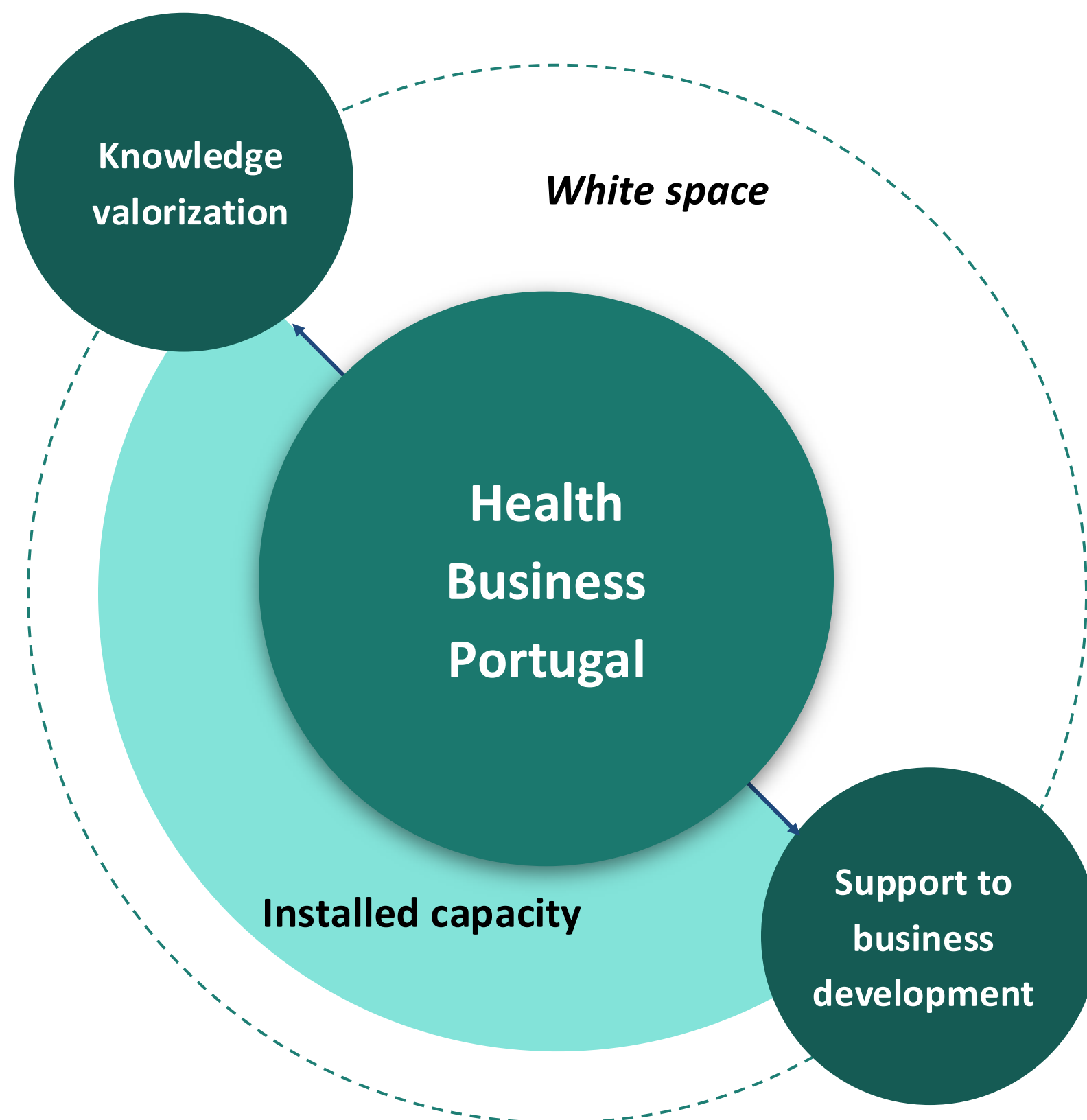
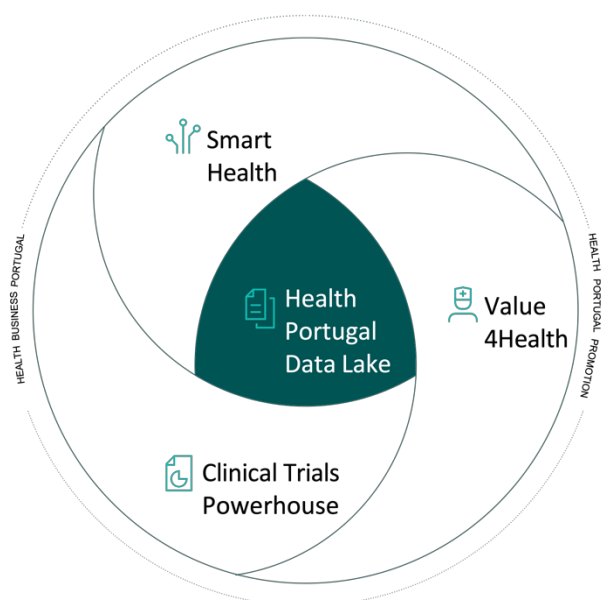
Promote the dialogue and involvement of  
stakeholders in the development of the EHDS

### Joint Action Plan (HCP)

- Needs and challenges
- Comprehensive action framework



# Health Business Portugal



- Aggregate the national capacity and assets
- Promote knowledge valorization
- Support Business Development
- Monitor the environment

