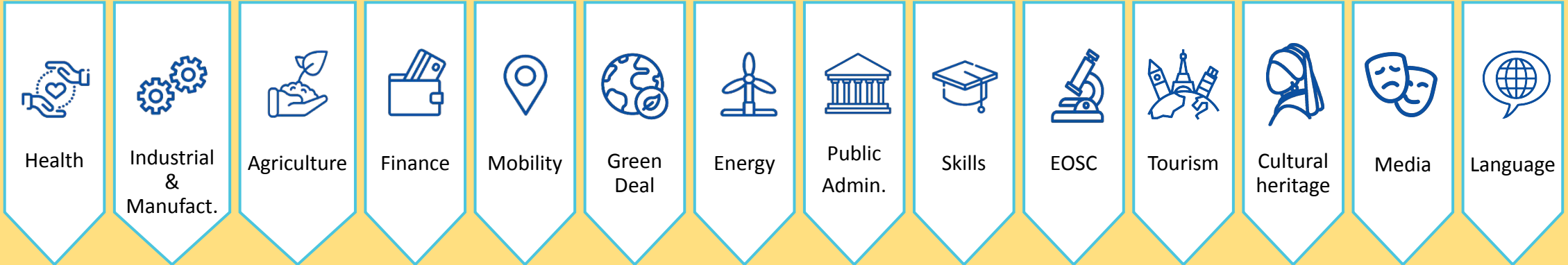# Digital and data initiatives

HealthyCloud final dissemination event

6 October 2023

Saila Rinne
Head of Sector for policy
European Commission / DG CNECT
Unit "eHealth, wellbeing and ageing"

Common European data spaces

Health | Industrial & Manufact. | Agriculture | Finance | Mobility | Green Deal | Energy | Public Admin. | Skills | EOSC | Tourism | Cultural heritage | Media | Language

High Value Datasets from public sector

- Driven by stakeholders
- Rich pool of data of varying degree of openness

- Sectoral data governance (contracts, licenses, access rights, usage rights)
- Technical tools for data pooling and sharing

Data Spaces Support Centre (dssc.eu)

- Coordinating the development of data spaces

- Assuring common standards and interoperability **Technical infrastructure for data spaces**

Edge & cloud Services | Smart Middleware solutions (Simpl) | Marketplace | High-Performance Computing | AI on demand platform | AI Testing and Experimentation Facilities

A robust regulatory framework for health data

PRIVACY

General Data Protection Regulation (GDPR)

SECURITY

EU cybersecurity legislative framework

ETHICS

Artificial Intelligence Act

European Health Data Space

#EHDS
#HealthUnion

SAFETY

Medical Devices Regulation

LEVEL PLAYING FIELD

Data Governance Act, Data Act

European Commission

Digital infrastructures for health data

Unlocking health data and fostering innovation in full compliance with EU rules and values

Cancer Imaging Initiative

Links resources and databases to establish an open infrastructure of cancer images

Fosters innovation and deployment of digital technologies for improved clinical decision-making, diagnostics, treatment and prediction

1+ Million Genomes

Enables secure access to genomic data and the corresponding clinical data

Facilitates research, personalised healthcare and public health
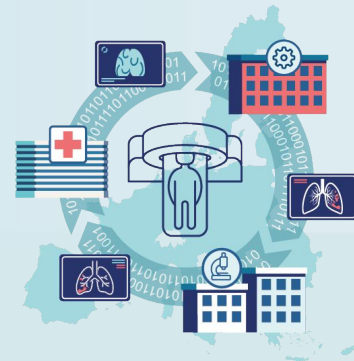
Virtual Human Twins

Ecosystem and platform for computational models of organs and organ systems

Supports prevention, diagnosis and treatment

EUROPEAN CANCER IMAGING INITIATIVE

Accelerating the development of AI-based cancer management solutions and other data-driven cancer research activities, enabling and empowering scientific breakthroughs that will shape the future of cancer diagnosis and treatment

EUCAIM
CANCER IMAGE EUROPE

Cancer Image Europe Infrastructure Milestone – September 2023

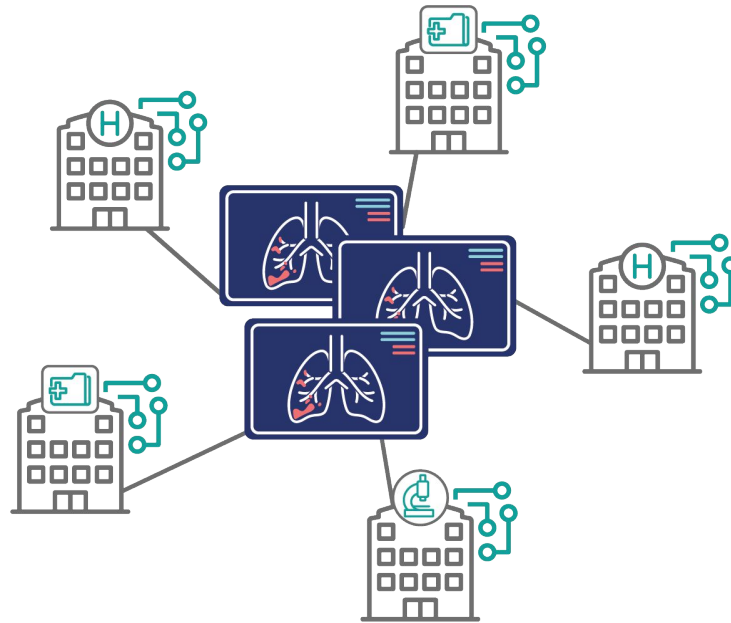**First platform release**

Public catalogue of 36 datasets
From the "AI4HI" network of EU-funded projects

Approx. 20 000 subjects > 200 000 image series*

9 cancer types
breast, colon, lung, prostate, rectum, liver, glioma, neuroblastoma, glioblastoma

Participation rules for data providers and users
first version

Federated search

@CNECT-CANCER-IMAGING-INITIATIVE@ec.europa.eu

digital-strategy.ec.europa.eu/en/policies/cancer-imaging

* the first platform prototype allows for data discovery and links to data providers, where access to data can be requested

Available at **www.cancerimage.eu**

European Commission
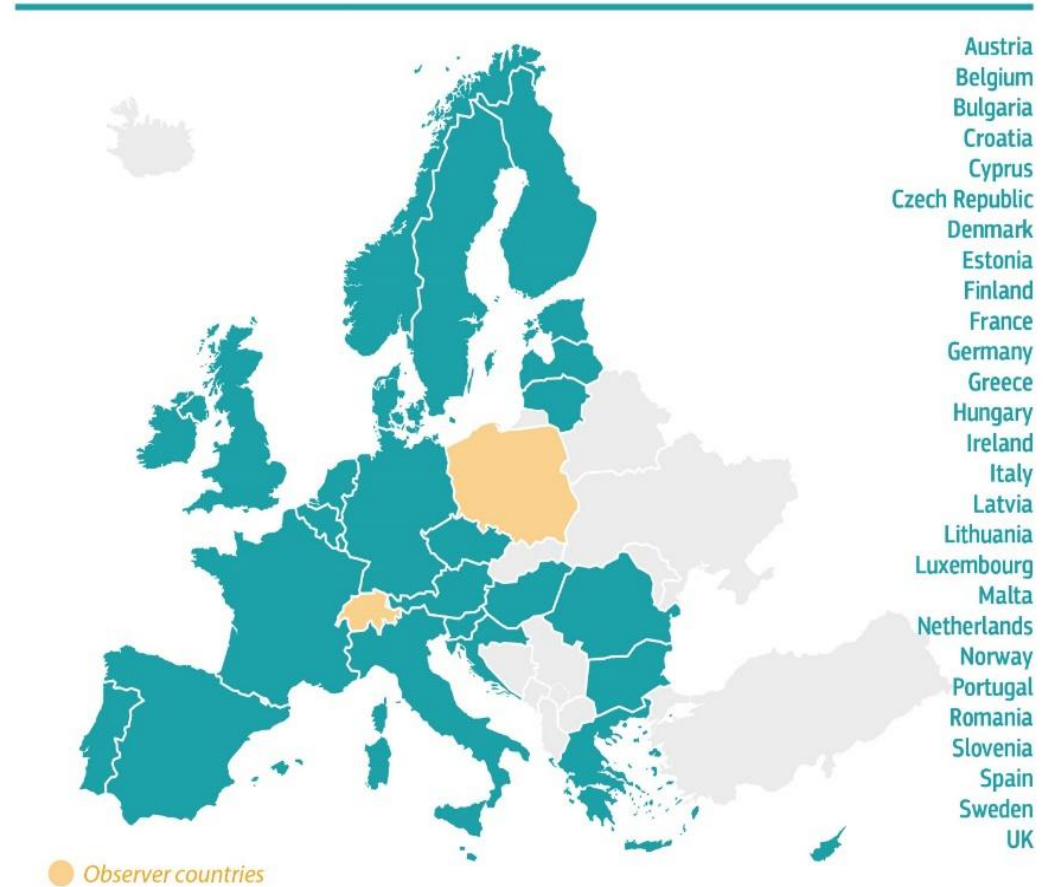
1+ Million Genomes initiative

- **25 countries have signed** the declaration for delivering cross border access to genomic data

- 1+MG Group (EC special group)

- 12 Working Groups

- *Genomic Data Infrastructure* project

- Genome of Europe

- CSA *Beyond 1 Million Genomes*

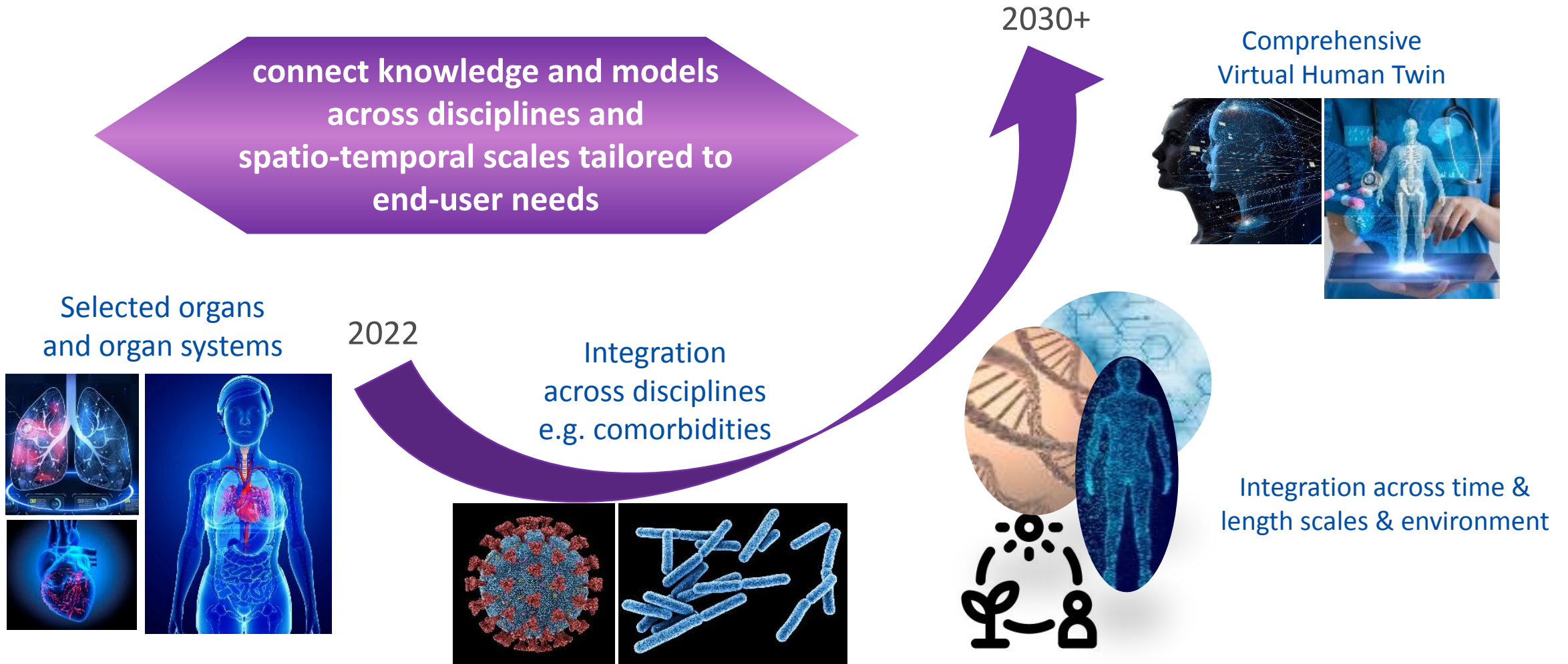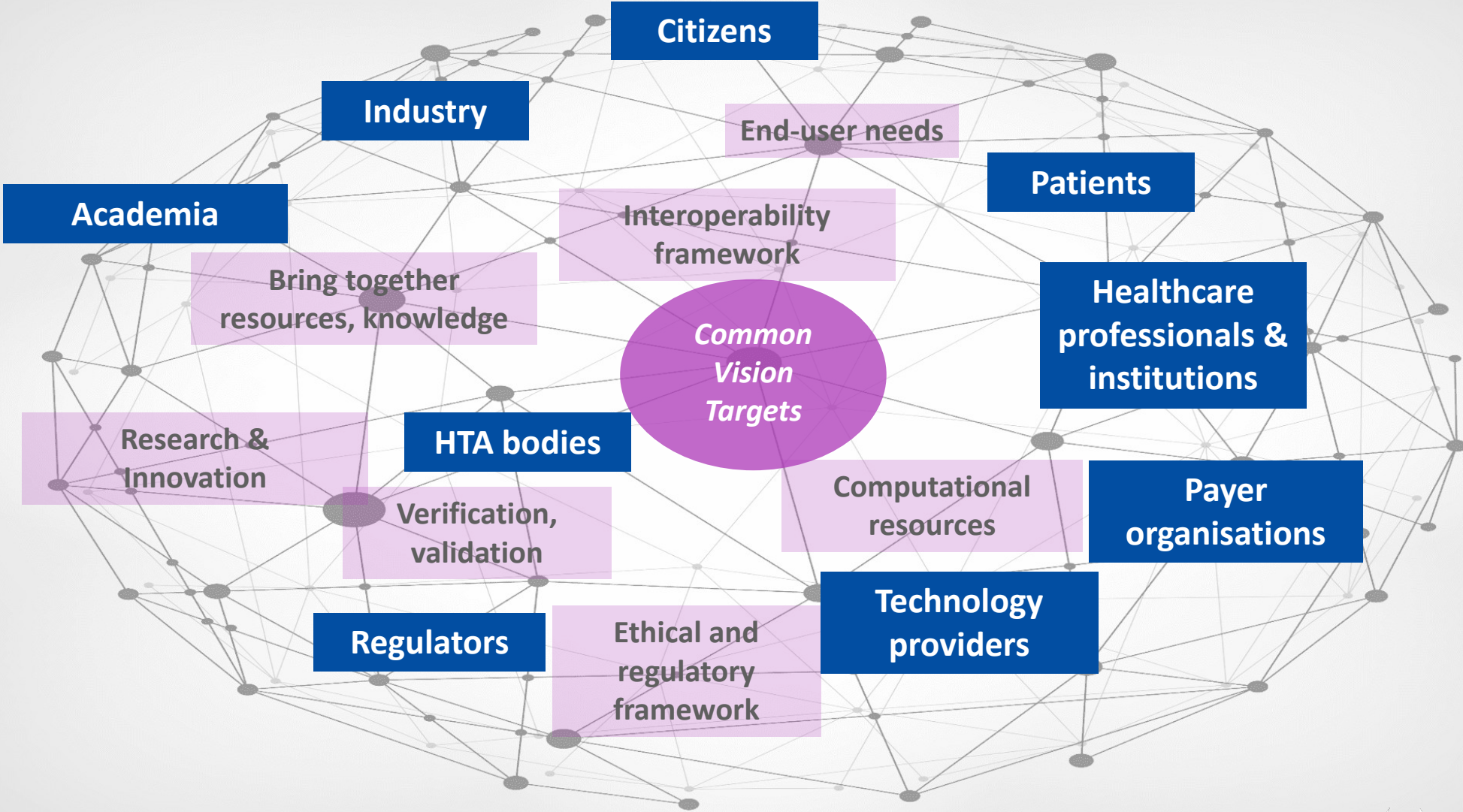- Healthcare, research and public health

Countries that have signed the 1+MG Declaration since 2018

Austria
Belgium
Bulgaria
Croatia
Cyprus
Czech Republic
Denmark
Estonia
Finland
France
Germany
Greece
Hungary
Ireland
Italy
Latvia
Lithuania
Luxembourg
Malta
Netherlands
Norway
Portugal
Romania
Slovenia
Spain
Sweden
UK

● Observer countries

updated 22 May 2022

PREVENTION

SIDE EFFECT

EUROPEAN PLATFORM ON
RARE DISEASES REGISTRATION

EU RD PLATFORM

CANCER SCREENING

European Commission

European Commission

Towards Virtual Twin(s) of the human

connect knowledge and models across disciplines and spatio-temporal scales tailored to end-user needs

2030+

Comprehensive Virtual Human Twin

Selected organs and organ systems

2022

Integration across disciplines e.g. comorbidities

Integration across time & length scales & environment

An inclusive ecosystem for Virtual Human Twin

Thank you

European Commission