

Advances in Cancer Treatment EU digital policy priorities and initiatives towards digital transformation in cancer care

Michiel Sweerts, Head of Sector, Research, CNECT H.3, e-Health, Well-Being and Ageing

Harnessing data and technologies to fight cancer: a long-standing priority

Europe's Beating Cancer Plan

- EUR 4 billion
- Making the most of data and digitalisation in cancer prevention and care

Political Guidelines 2024-2029

- Healthcare innovation key for people and the economy
- Boost preventive health, reinforced implementation of Europe's Beating Cancer Plan
- Trustworthy AI, supercomputing, biotech research and innovation



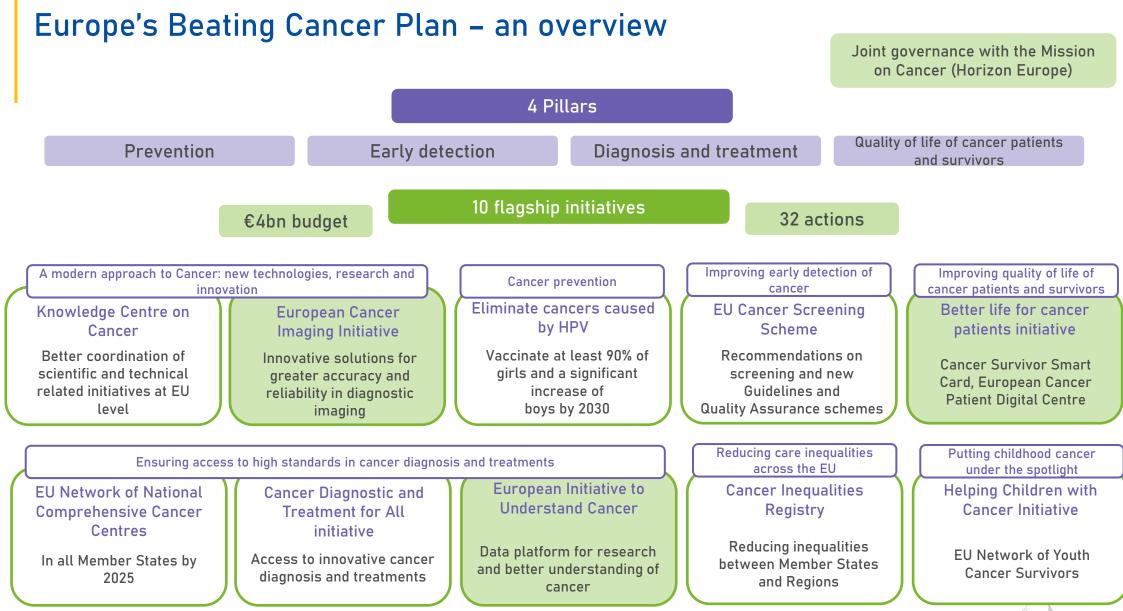


EUROPE'S CHOICE

POLITICAL GUIDELINES FOR THE NEXT EUROPEAN COMMISSION 2024–2029

Ursula von der Leyen







EU Cancer Mission – Horizon Europe



- Improving the lives of more than 3 million people by 2030
- Major component of EU's investment in cancer R&I, informing EBCP actions
- EUR 370 million spent (2021-2023), with numerous projects covering digital and data aspects

European Initiative to Understand Cancer: UNCAN.eu data platform

- Support research to increase the understanding of how cancers develop
- Facilitate personalised approaches to cancer prevention and care

European Cancer Patient Digital Centre: ECPDC data platform

- Patient-oriented platform with in-depth information on prevention, diagnosis, treatment guidelines, sideeffects, etc.
- Federated network of patient-controlled (national) health data infrastructures, allowing voluntary exchange of health data

European Cancer Imaging Initiative – Cancer Image Europe Infrastructure

- Harness the potential of cancer imaging data and Artificial Intelligence to combat cancer
- Digital Europe co-funding (EUR 18 million)
- Link resources and databases to establish an open infrastructure of cancer images
- Foster innovation and deployment of digital technologies, including AI tools, for better clinical decision-making, diagnostics, treatment and prediction





European Digital Innovation Hubs Network



EUCAN





INCISIVE



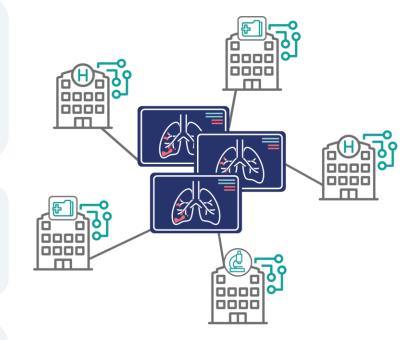


Milestone: Cancer Image Europe Infrastructure released (September 2023)

Public catalogue of 47 datasets From the "AI4HI" network of EU-funded projects

Approx. 35,000 subjects > 200 000 image series*

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



EUCAM CANCER IMAGE EUROPE

21 clinical sites from 12 countries

30+ data providers from **15 countries** by 2026

EDIC for the Cancer Image Europe Platform – working group *launched*

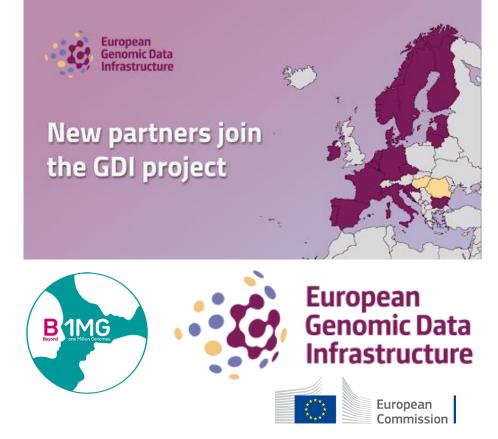
EU4Health action linking EUCAIM to cancer screening programmes



1+ Million Genomes Initiative – Genomic Data Infrastructure

Access to genomics and the corresponding clinical data across Europe for better research, personalised healthcare and health policy making

- Digital Europe co-funding EUR 20 million
- Currently includes organisations in 24 European countries
- Technical readiness of 15 countries by 2026
- Use cases: cancer and infectious diseases
- Genome of Europe project launched October 2024



European Virtual Human Twins Initiative: building blocks across research & deployment

- An EU framework supporting the emergence, market entry and clinical adoption of virtual human twin solutions in healthcare
 - Virtual Human Twins Manifesto December 2023
 - European Virtual Human Twin EDITH project, DIGITAL
- 8 actions on integrated, multi-scale VHTs for personalised disease management, Horizon Europe (EUR 80 million)
 - CERTAINTY: A CEllulaR immunoTherapy virtuAl twin for personalised cancer treatment (10MEUR)
- State-of-the-art digital platform for advanced VHT models integration and validation, DIGITAL (EUR 24 million)









Communication on boosting startups and innovation in trustworthy artificial intelligence

Foster an innovative European AI ecosystem for startups and innovators, including in health

Communication on boosting Biotechnology and Biomanufacturing in the EU

Push the application of AI, in particular GenAI, in health biotech and biomanufacturing

GENAI4EU

- Stimulate the uptake of GENAI in key sectors including healthcare
- Development of novel use cases and emerging applications
- Collaboration between AI startups, industry, public sector

AI Factories

- Privileged access to supercomputers to AI startups including in healthcare
- One-stop-shops to test & validate large-scale AI models and solutions
- Linked to TEF-Health for pre-market validation





UPCOMING EVENT: European Cancer Imaging Initiative Joining forces for AI-powered imaging to save lives

Stakeholders from research, innovation, healthcare, and the public sector will discuss:

- Major milestone of the European Cancer Imaging Initiative
- Platform use cases and new partners
- Declaration "Towards unleashing access to at least 60 million cancer medical images in the European Union by 2027"
- The Cancer Imaging Initiative, the European Health Data Space, and the AI Strategy
- How to advance on trustworthy AI tools for precision medicine in cancer?

EUROPEAN CANCER IMAGING INITIATIVE

Thursday, 6 February 2025

Albert Borschette Congress Center Rue Froissart 36 - Brussels

#euCancerImaging

More information and registration: <u>European Cancer Imaging Initiative –</u> Joining forces for AI-powered imaging to save lives | Shaping Europe's <u>digital future</u>







(A)

Thank you



© European Union 2023

Unless otherwise noted the reuse of this presentation is authorised under the <u>CC BY 4.0</u> license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.

