



EUROPEAN UNION



EU MISSIONS

CANCER

Concrete solutions for our greatest challenges



© European Union, 2021

DIGICORE, 08.11.2022

Jan-Willem van de Loo, PhD

DG Research and Innovation, European Commission

#EUmissions #HorizonEU #MissionCancer



Mission on Cancer

Challenges

- **2.7 million people** in the EU are **diagnosed** each year
- **1.3 million people die** from cancer each year (this no. will increase)
- **Total cost of cancer** in Europe in 2018: €199 billion
- Impact of COVID-19 pandemic and war in Ukraine

GOAL

Improve the lives of more than 3 million people by 2030, through prevention, cure and for those affected by cancer including their families, to live longer and better, jointly with the **Europe's Beating Cancer Plan**

Four Mission objectives

1. Understanding cancer
2. Prevention & early detection
3. Diagnosis and treatment
4. Quality of life

- **18 R&I priority areas, 4 transversal R&I priorities:**
equity, innovation, childhood cancer and personalised medicine

- **EUR 378.2 million 2021-2023**
- **Governance**



Concrete actions

- Blueprint for UNCAN.eu platform (starting 2022)
- Blueprint for Cancer Patient Digital Centre (2023)
- Support Network of Comprehensive Cancer Infrastructures (2022 - 2023)
- R&I actions under each of the four mission objectives (2022 - 2023)
- Synergies (= cooperation between cancer mission and other initiatives at EU, national, regional, local level)

A mission is a portfolio of actions across disciplines intended to achieve a **bold, inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens.



Cancer Mission – EU level governance

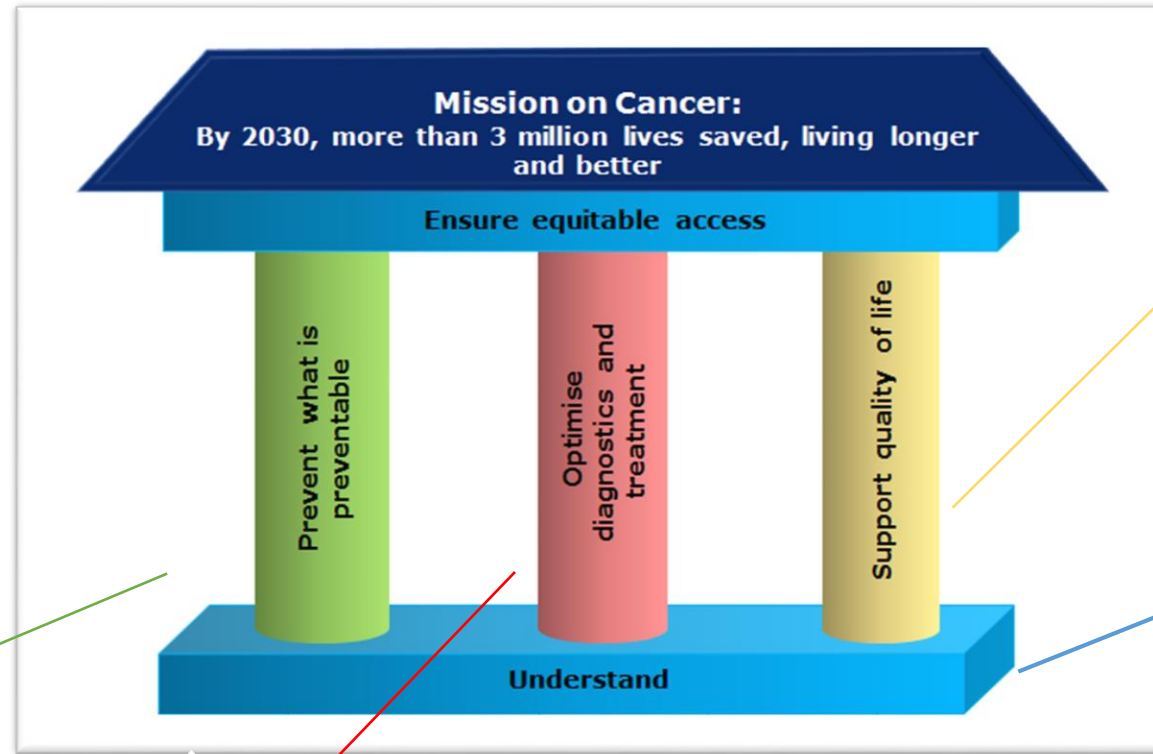
- **Dialogue with Member States:** a sub-group on cancer under the Steering Group on Health Promotion and Disease Prevention (SGPP) follows jointly the implementation of the Cancer Plan and the Cancer Mission.
- **Dialogue with stakeholders:** a Stakeholder Contact Group under the EU Health Policy Platform as a basis for discussion and exchanges with stakeholders.
- **EU Implementation Group:** a dedicated group gathering different Commission services to ensure that actions, policies and findings are aligned across the relevant Commission departments.



Horizon Europe mission WP2021-2022 topics

Overall approach

- Apply mission-guiding principles
- Close cooperation with Europe's Beating Cancer Plan actions
- Total budget 2021-2022: € 255 M



Develop new methods and technologies for screening and early detection
HORIZON-MISS-2021-CANCER-02-01

Improving and upscaling primary prevention of cancer through implementation research
HORIZON-MISS-2022-CANCER-01-01

Portfolio approach

Pragmatic clinical trials to optimise treatment for cancer patients
HORIZON-MISS-2022-CANCER-01-03

Strengthen research capacities of comprehensive cancer infrastructures
HORIZON-MISS-2022-CANCER-01-02

Portfolio approach

Develop and validate a set of quality of life measures for cancer patients and survivors
HORIZON-MISS-2021-CANCER-02-02

Towards the creation of a European Cancer Patient Digital Centre
HORIZON-MISS-2022-CANCER-01-04:

Preparing UNCAN.eu, a European initiative to understand cancer
HORIZON-MISS-2021-UNCAN-01-01

Better understand healthy versus cancer cells at individual and population level
HORIZON-MISS-2021-CANCER-02-03

Creation of national cancer mission hubs to support the implementation of the Mission on Cancer
HORIZON-MISS-2022-CANCER-01-05

Work Programme 2023

Proposed budget of EUR 110.68 M (pre-publication¹)



HORIZON-MISS-2023-CANCER-01-01:

Better understand tumour-host interactions in cancer patients

- Type: **RIA**
- Deadline: Spring **2023**
- Budget: **EUR 36.98 M**
- Projects: **4**



HORIZON-MISS-2023-CANCER-01-02:

Enhance cancer prevention through behaviour change

- Type: **RIA**
- Deadline: Spring **2023**
- Budget: **EUR 30 M**
- Projects: **5**



HORIZON-MISS-2023-CANCER-01-03:

Pragmatic clinical trials on minimally invasive diagnostics

- Type: **RIA**
- Deadline: Spring **2023**
- Budget: **EUR 50 M**
- Projects: **7**



HORIZON-MISS-2023-CANCER-01-04:

Improve quality of life for survivors of childhood cancer (Best practices and tools)

- Type: **IA**
- Deadline: Spring **2023**
- Budget: **EUR 6 M**
- Projects: **3**



Collaboration in mission clusters

- Clusters – what are they about and how to develop them?
 - Support Mission objectives
 - Create added value
 - Increase impact of EU funding
 - Establish policy feedback loop
- Areas to be addressed:
 - Data Management
 - Research & Innovation
 - Communication & Dissemination
 - Citizen Engagement
 - Addressing inequalities
 - Research Capacity Building
 - Cancer Mission Hubs



Mission – examples of synergies in progress

Europe’s Beating Cancer Plan => complementary call topics to support shared objectives and priorities, support to cancer policy

HE partnerships => support R&I priorities cancer, see for example first call of the Innovative Health Initiative

HE ESFRI Infrastructures => support R&I priorities cancer

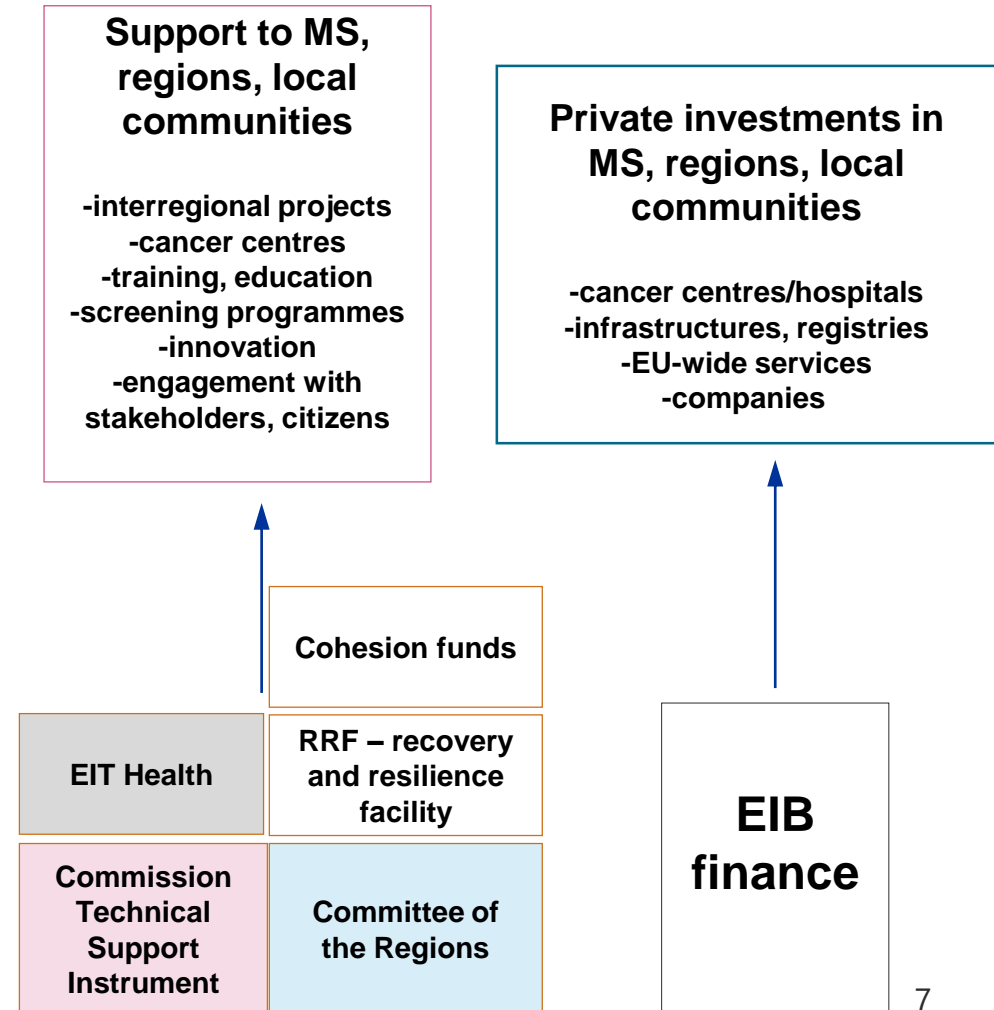
HE Widening, MSCA, Erasmus+ programmes => address inequalities, promote clustering of projects to achieve portfolio of actions under the cancer mission

HE Health Cluster => support R&I priorities on quality of life and decision support

HE European Innovation Council => support innovation in cancer via SMEs (TRL 6-8)

DIGITAL EUROPE => Federated European infrastructure for cancer images data

EURATOM => clinical efficiency and clinical effectiveness radiotherapy





National Cancer Mission Hubs

Main activities:

- Awareness raising and coordination of Mission's activities among relevant actors in national, regional or local R&I and health systems;
- Facilitate integration of Mission activities at national, regional, and local levels;
- Facilitate engagement of actors and stakeholders beyond R&I and health systems to cover all areas relevant for cancer control, e.g. cross-policy dialogues;
- Support citizen engagement activities.



EUROPEAN UNION



Thank you!

#EUmissions

#HorizonEU

#MissionCancer

RTD-SANTE-CANCER-MISSION@ec.europa.eu

© European Union, 2021

Reuse is authorised provided the source is acknowledged and the original meaning or message of the document are not distorted. The European Commission shall not be liable for any consequence stemming from the reuse. The reuse policy of the European Commission documents is implemented by Commission Decision 2011/833/EU of 12 December 2011 on the reuse of Commission documents (OJ L 330, 14.12.2011, p. 39).

All images © European Union, unless otherwise stated. Icons © Flaticon – all rights reserved.