



EUROPEAN UNION

EU MISSIONS



Concrete solutions for our greatest challenges

.

Walter Ricciardi – Chair of the Mission Board on Cancer

#EUmissions #HorizonEU



« Mission » concept

2018



« Mission » concept



Commissioner Moedas and Professor Mazzucato

2019



5 Mission Areas



Adaptation to
climate change,
including societal
transformation



Cancer



Soil health &
food



Climate-neutral
& smart cities



Healthy oceans,
seas, coastal &
inland waters

Obiettivi delle Missioni

- **dare una direzione** alla ricerca e all'innovazione europea nella risoluzione delle sfide urgenti della società e **produrre risultati concreti**
- **coinvolgere cittadini e stakeholder** in modo più diretto nella definizione delle priorità di ricerca, ma non solo, con l'obiettivo di garantire **pari accesso per tutti in Europa** al meglio dell'innovazione e della ricerca europea, alle risorse e al know-how globale

The Mission Board for Cancer

high-level independent experts (15)

- research, academia, and medicine
- patient associations and NGOs
- industry and innovation
- international agencies

Assembly (26 experts)

- sounding board
- additional ideas
- Broad know-how
- citizen engagement
- Cancer organisations & stakeholders



Walter Ricciardi

Professor of Hygiene and
Public Health at the
Catholic University of the
Sacred Heart in Rome
Chair



**Christine
Chomienne**

Professor of Cellular Biology
at the Université Paris
Diderot, Paris
Vice-Chair

Work of the Mission Board

Citizen engagement and ambassador activities

more than 100 meetings

Citizen engagement

- citizen engagement events *in nat'l language*
- stakeholder events *in nat'l language or English*
- 2 EU-wide Focus Groups. *in English*

- | | |
|-----------------------------|---------------------------------|
| • Austria* | • Italy* |
| • Belgium* | • Latvia |
| • Bulgaria* | • Lithuania* |
| • Croatia * | • Luxembourg* |
| • Cyprus* | • Malta * |
| • Czech Republic* | • Netherlands * |
| • Denmark* | • Poland * |
| • Estonia * | • Portugal* |
| • Finland* | • Romania * |
| • France* | • Slovakia* |
| • Germany | • Slovenia* |
| • Greece * | • Spain* |
| • Hungary* | • Sweden* |
| • Ireland* | |

Board as 'Ambassadors

- Meeting with Ministry of Research, Health, Economics or Education
- Citizen engagement (citizens, patients and caregivers) on outline and/or several recommendations
- Meeting nat'l and EU stakeholders all sectors
- Support from Assembly members if deemed useful
- Take into account written/published input from range of stakeholders all sectors

EU-Missions

survey



missions-get-involved.ec.europa.eu



**TURNING THE TIDE ON CANCER: THE VIEW OF
NATIONAL PARLIAMENTS ON EUROPE'S BEATING
CANCER PLAN**



BECA SPECIAL COMMITTEE
ON BEATING CANCER

CHAired BY: Bartosz ARŁUKOWICZ,
Chair of the Special Committee on Beating Cancer

MONDAY, 27 SEPTEMBER 2021
9.00 - 12.00
ROOM SPAAK 3C050
EUROPEAN PARLIAMENT, BRUSSELS

**Interparliamentary
Committee Meeting**

European Parliament
National Parliaments



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With the support of the Directorate
for Relations with National Parliaments

Rapporteur BECA
European Beating Plan Cancer Plan
Véronique Trillet-Lenoir



**European
Commission**

Reports of the 5 Missions Sept 2020



<https://op.europa.eu/en/web/eu-law-and-publications/publication-detail/-/publication/d0235612-b68a-11ea-bb7a-01aa75ed71a1>

Green light for the 5 Missions
September 2021

Launch of the 5 Missions

Implementation Plans

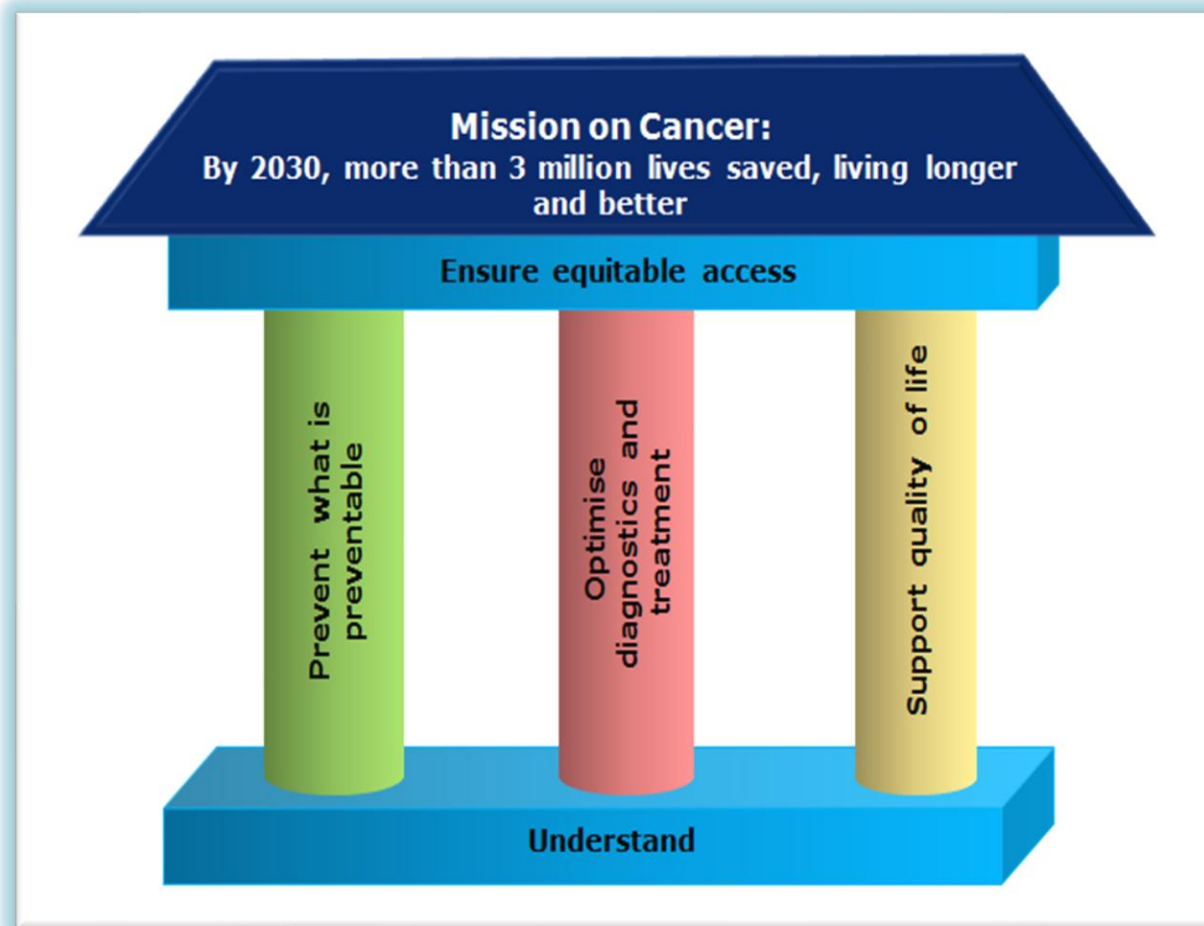
29 September 2021

€1.9 billion until 2023.



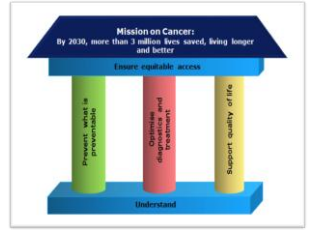
https://ec.europa.eu/info/publications/implementation-plans-eu-missions_en

5 aree di intervento per raggiungere l'obiettivo della Missione Cancro



13 raccomandazioni incentrate sui pazienti/cittadini per azioni coraggiose

13 Bold recommendations for bold actions



- 1 Launch **UNCAN.eu** – a European Initiative to Understand Cancer
- 2 Develop an EU-wide research programme to identify **(poly-) genic risk scores**
- 3 Support the development and implementation of **effective cancer prevention strategies and policies** within Member States at the EU
- 4 Optimise existing **screening programmes** and develop novel approaches for screening and early detection
- 5 Advance and implement **personalised medicine approaches** for all cancer patients in Europe
- 6 Develop an EU-wide research programme on **early diagnostic** and **minimally invasive treatment/ technologies**
- 7 Develop an EU-wide **research programme and policy support to improve the quality of life** of cancer patients and survivors, family members and carers, and all persons with an increased risk of cancer
- 8 Create a **European Cancer Patient Digital Centre** where cancer patients and survivors can deposit and share their data for personalised care
- 9 Achieve **Cancer Health Equity** in the EU across the continuum of the disease
- 10 Set up a **network of Comprehensive Cancer Infrastructures** within and across all EU Member States to increase quality of research and care
- 11 **Childhood cancers and cancers in adolescents and young adults: cure more and cure better**
- 12 Accelerate **innovation** and implementation of new technologies and **create Oncology-focused Living Labs** to conquer cancer
- 13 **Transform cancer culture, communication and capacity building**

- « With ERNs »
- « Rare Cancers »
- « Model of ERNs »
- « Link with ERNs »
- « Cross border »
- « Network »

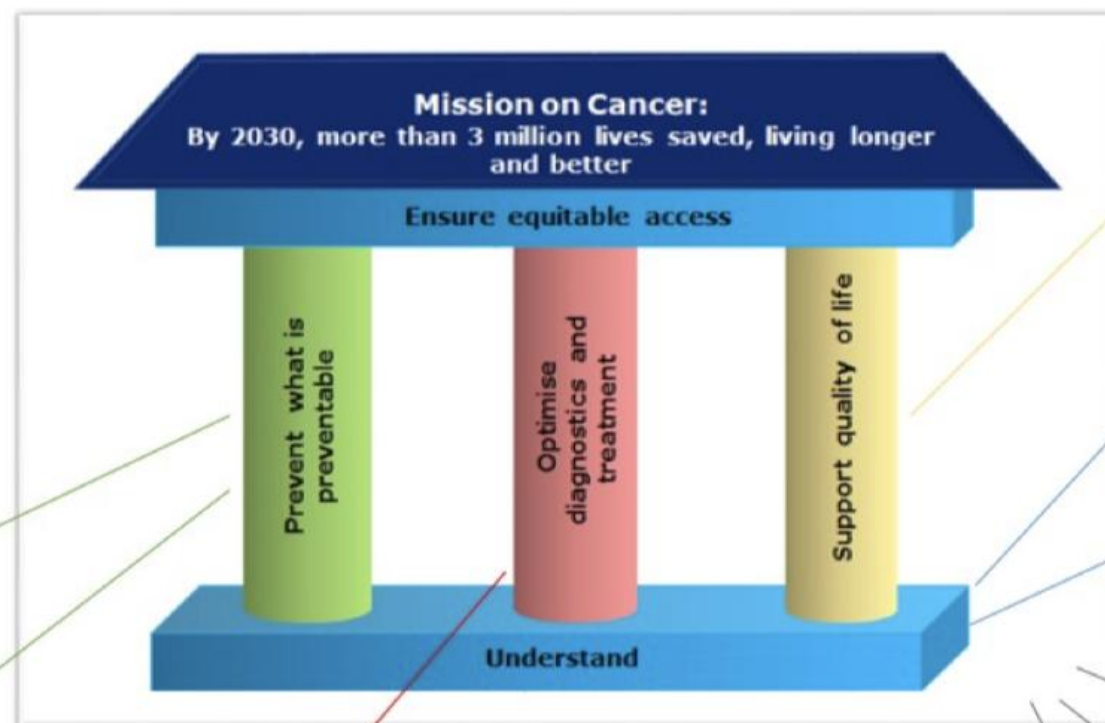
- 1.Lanciare UNCAN.eu – un’iniziativa europea per comprendere il cancro**
- 2.Sviluppare un programma di ricerca a livello UE per identificare i punteggi di rischio individuali (polipredittivi)**
- 3.Sostenere lo sviluppo e l’attuazione di strategie e politiche efficaci di prevenzione del cancro** all’interno degli Stati Membri dell’UE
- 4.Ottimizzare i programmi di screening esistenti e sviluppare nuove opportunità** per lo screening e la diagnosi precoce
- 5.Far avanzare e implementare modelli di assistenza personalizzati** per tutti i pazienti oncologici in Europa
- 6.Colmare le lacune della ricerca sugli stadi precoci del cancro** e migliorare la diagnostica precoce, inclusi **gli strumenti basati sull’intelligenza artificiale**
- 7.Sviluppare programmi di ricerca e politiche a livello UE per migliorare la qualità della vita** dei pazienti oncologici e dei sopravvissuti, delle loro famiglie e dei caregiver, nonché delle persone a rischio elevato
- 8.Creare un Centro Europeo dei Dati dei Pazienti Oncologici**, dove i pazienti possano depositare, gestire e condividere i propri dati per la ricerca personalizzata
- 9.Affrontare le disuguaglianze nella salute oncologica** all’interno dell’UE in tutte le fasi del percorso di cura
- 10.Costituire una rete di CCI** per collegare e sostenere tutti gli Stati Membri dell’UE, con l’obiettivo di aumentare la qualità dei risultati e della cura
- 11.Migliorare la cura e il supporto ai bambini e agli adolescenti con cancro**, al fine di garantire cure migliori e una migliore prospettiva futura
- 12.Accelerare l’innovazione e l’implementazione di nuove tecnologie**
- 13..Trasformare la cultura, la comunicazione e le capacità sul tema del cancro**



Horizon Europe Mission WP2021-2022 topics

Overall approach

- Apply mission-guiding principles
- Cooperation with Cancer Plan
- 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

Pragmatic clinical trials to optimise treatments for patients with refractory cancers
HORIZON-MISS-2022-CANCER-01-03

Establishing of national cancer mission hubs and creation of network to support the Mission on Cancer
HORIZON-MISS-2022-CANCER-01-05

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

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

Better understanding of the impact of risk factors and health determinants on the development and progression of cancer
HORIZON-MISS-2021-CANCER-02-03

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

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



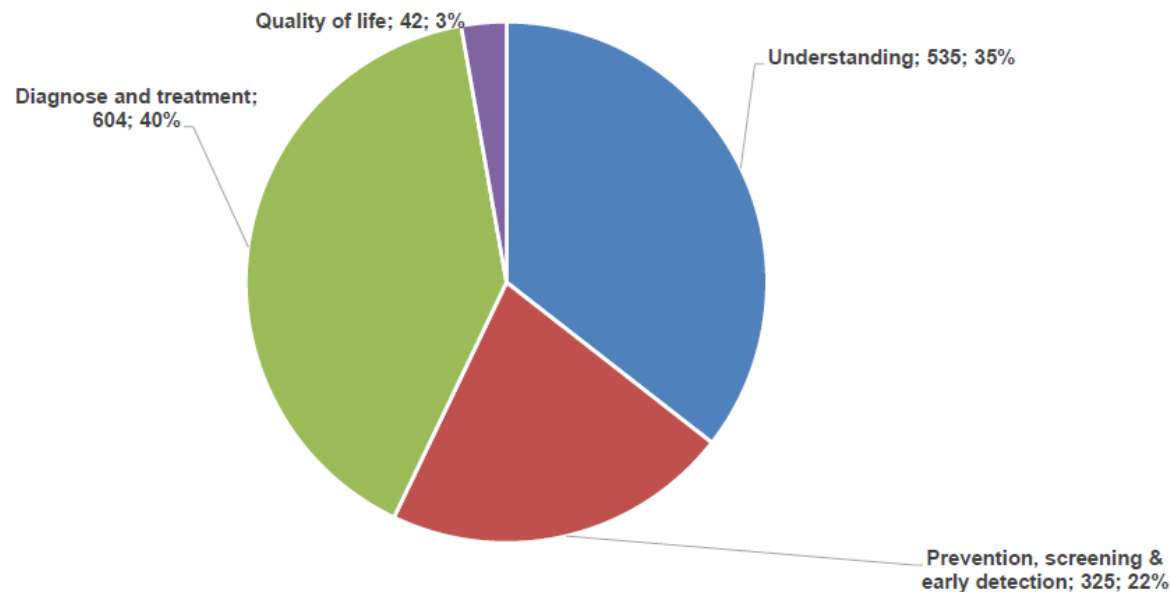
Summary cancer portfolio Horizon 2020 (1)

Cancer Mission

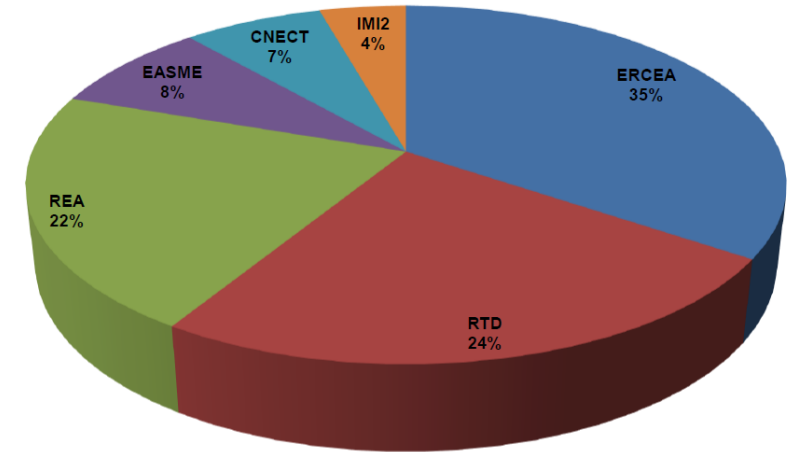
Mission objectives	Category	Number	EU funding
Understanding	Biology	404	526.143.139
Understanding	Aetiology	37	34.173.454
Understanding	Scientific model systems	41	82.711.551
Understanding	Environment	20	31.551.161
Understanding	Microbiome	33	46.104.450
Prevention, screening &	Prevention	20	37.484.205
Prevention, screening &	Early detection, diagnosis	303	497.637.811
Prevention, screening &	Food, nutrition, diet	0	13.757.202
Prevention, screening &	Physical activity	2	10.277.202
Diagnose and treatment	Treatment	604	761.535.801
Quality of life	Control, survivorship	42	129.940.764

Mission objectives	Number	EU funding
Understanding	535	720.683.755
Prevention, screening & early	325	559.156.421
Diagnose and treatment	604	761.535.801
Quality of life	42	129.940.764
Grand Total	1.505	2.171.316.741

Cancer Mission objectives (number of projects)



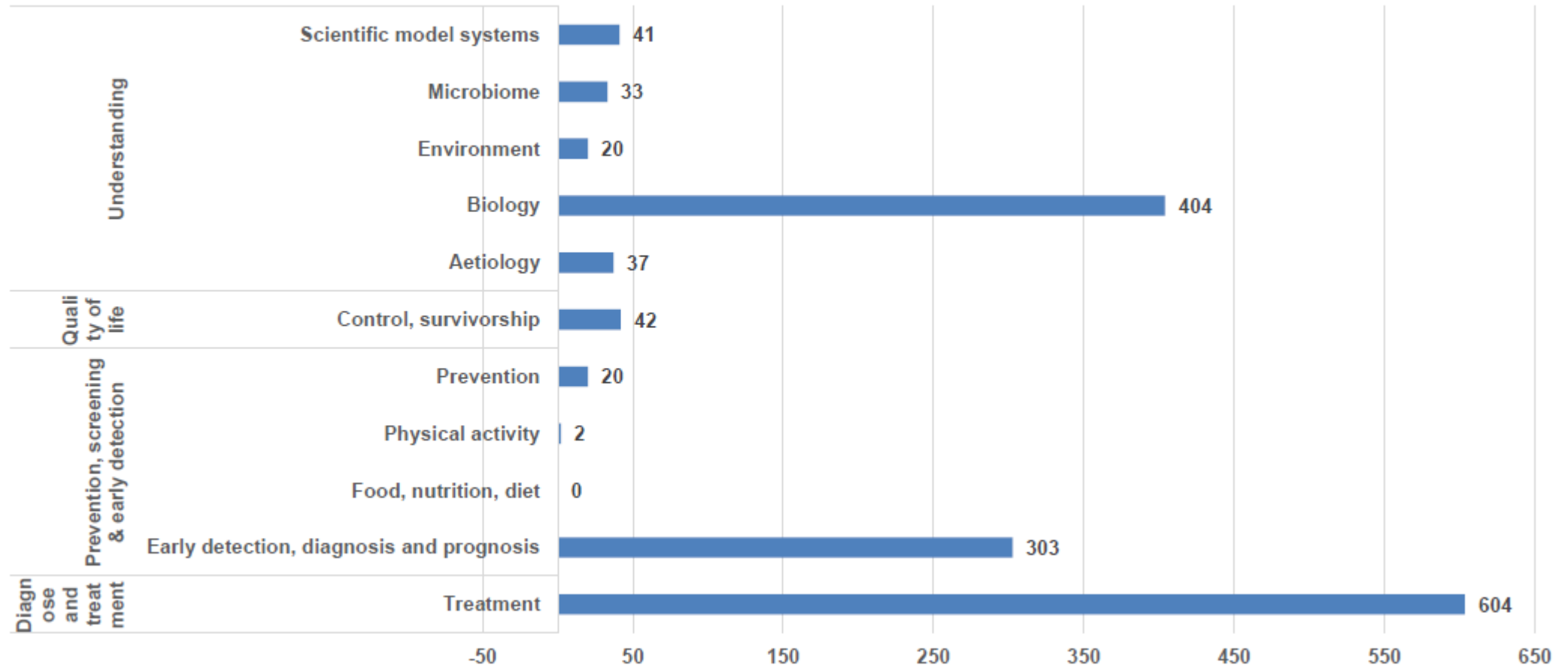
EU contribution across programmes





Summary cancer portfolio Horizon 2020 (2)

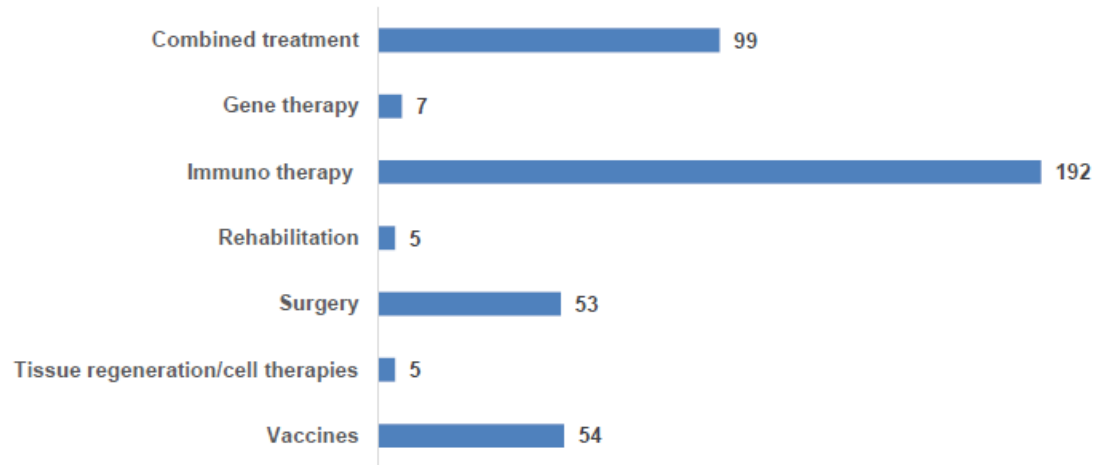
Cancer Mission Objectives by category



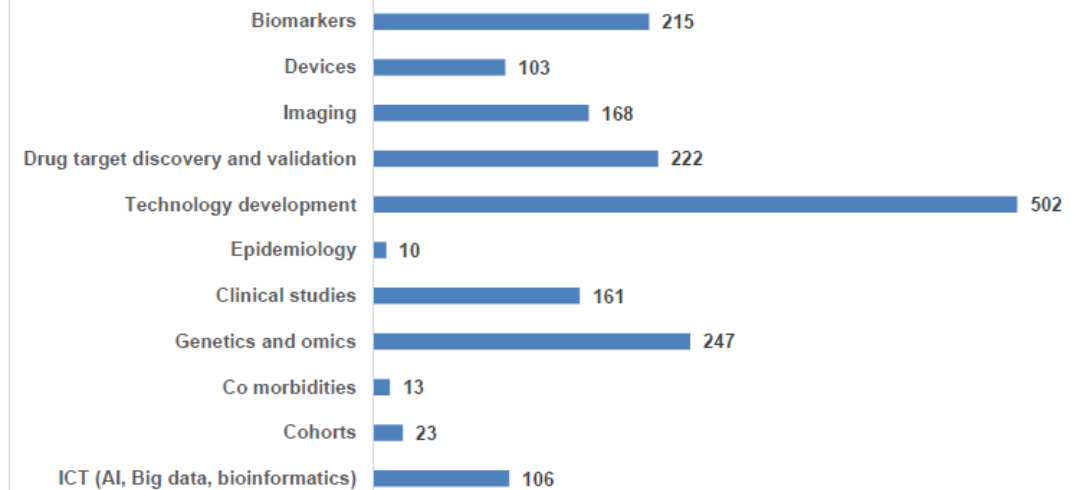


Summary cancer portfolio Horizon 2020 (3)

Type of intervention/technology



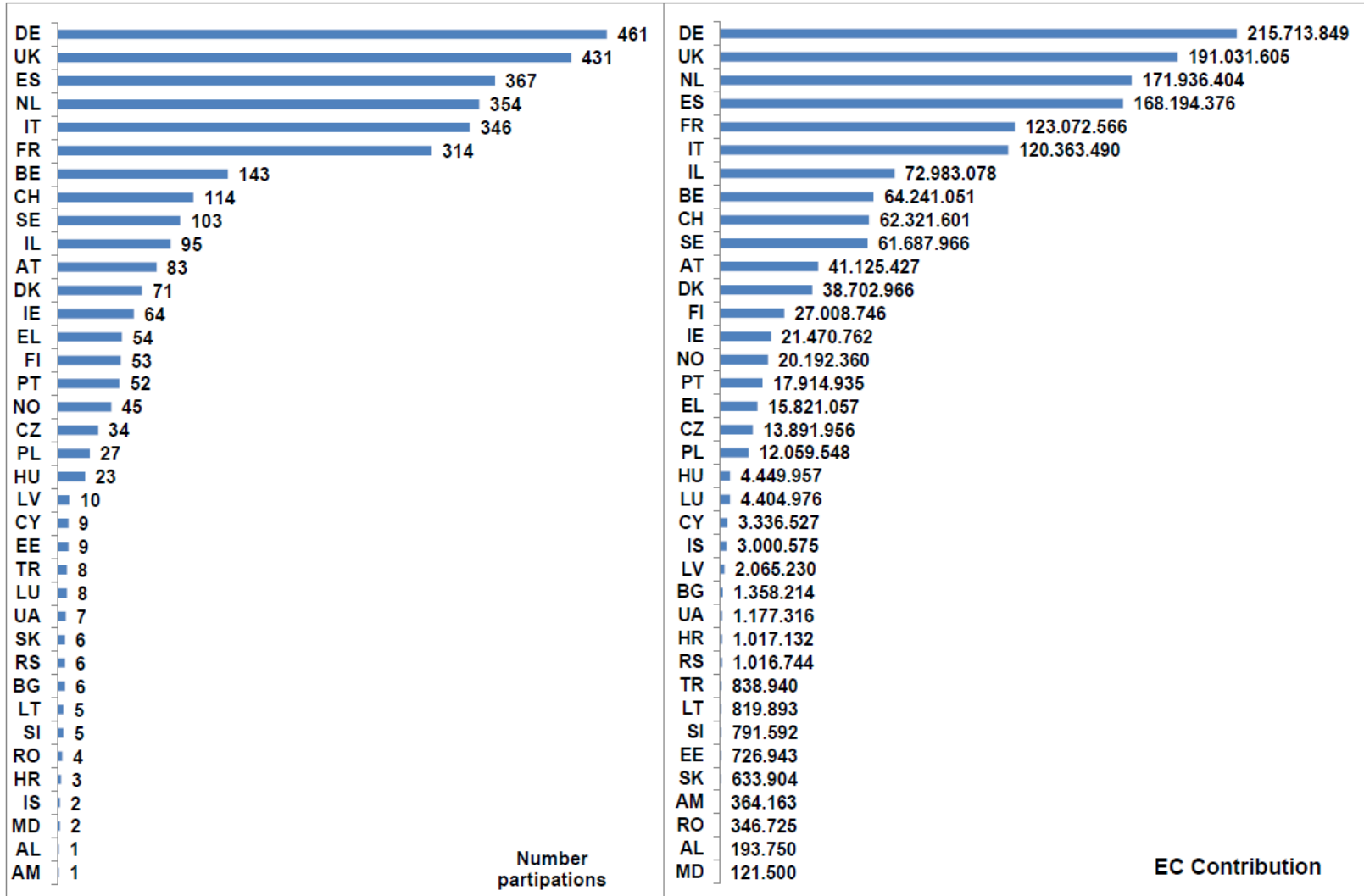
Type of research/technology/methodology





Summary cancer portfolio Horizon 2020 (4)

Distribution by Member States & Associated States

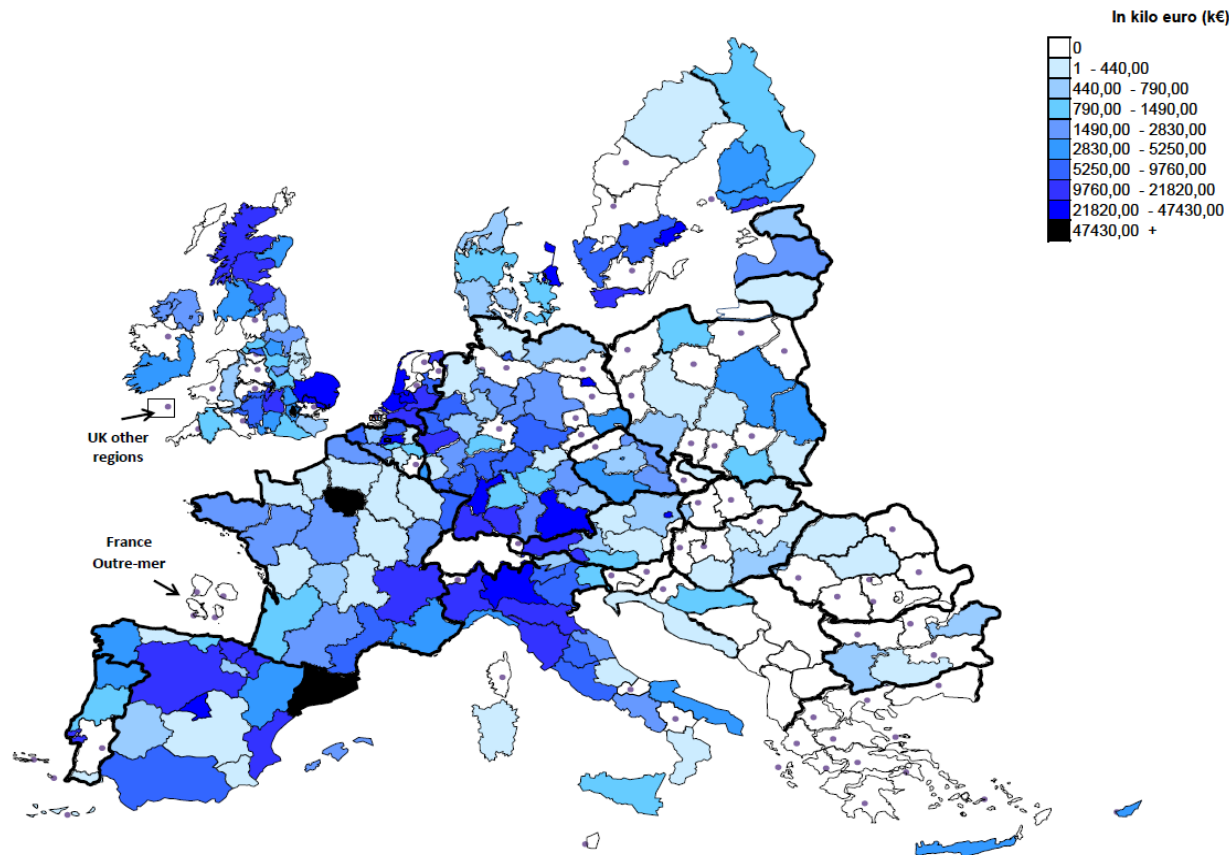




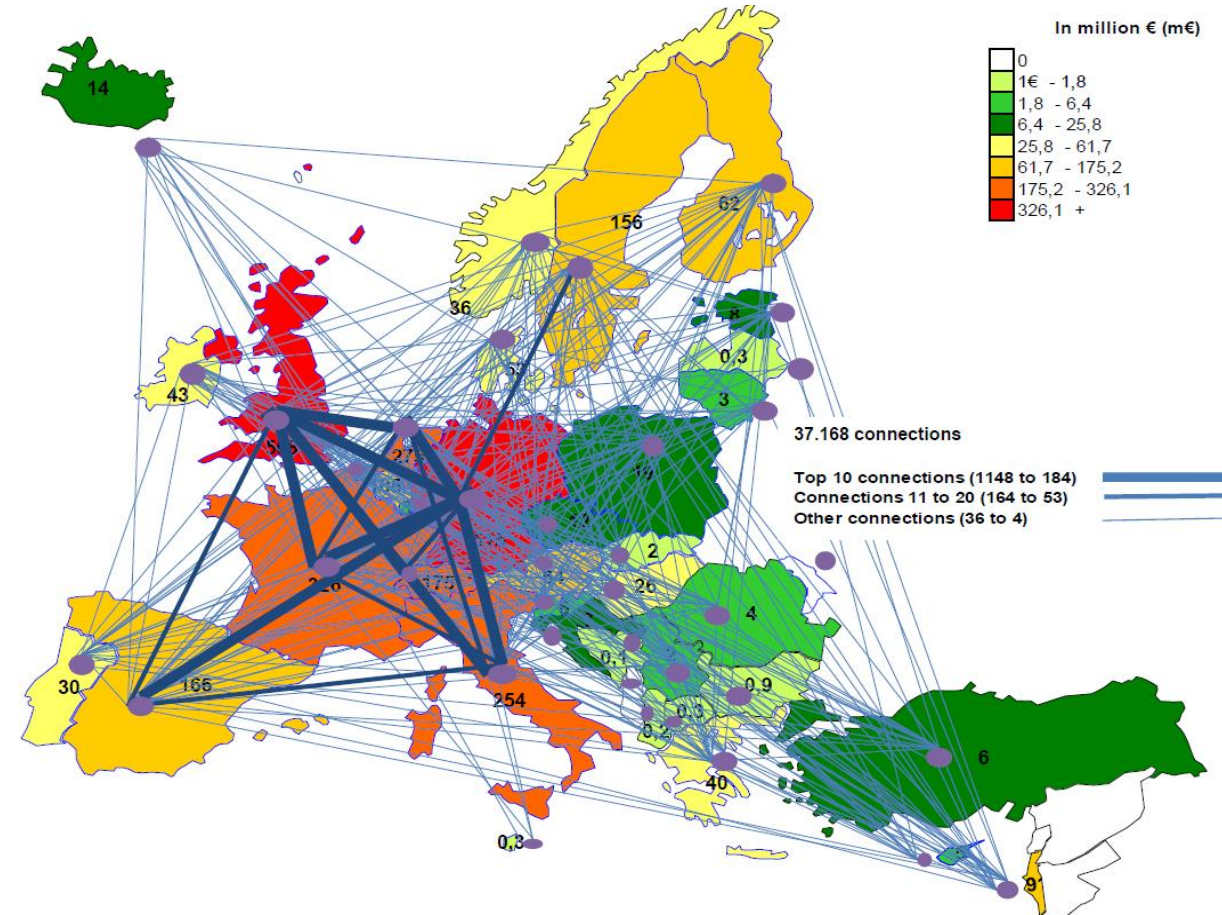
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Summary cancer portfolio Horizon 2020 (5)

EU contribution regions



Connections between beneficiaries



Work of the Mission Board

Advise on the Implementation of Mission Actions May 2021

In synergy with the Europe's Beating Cancer Plan

M Gabriel

DG RTD



S Kyriakides

DG Santé

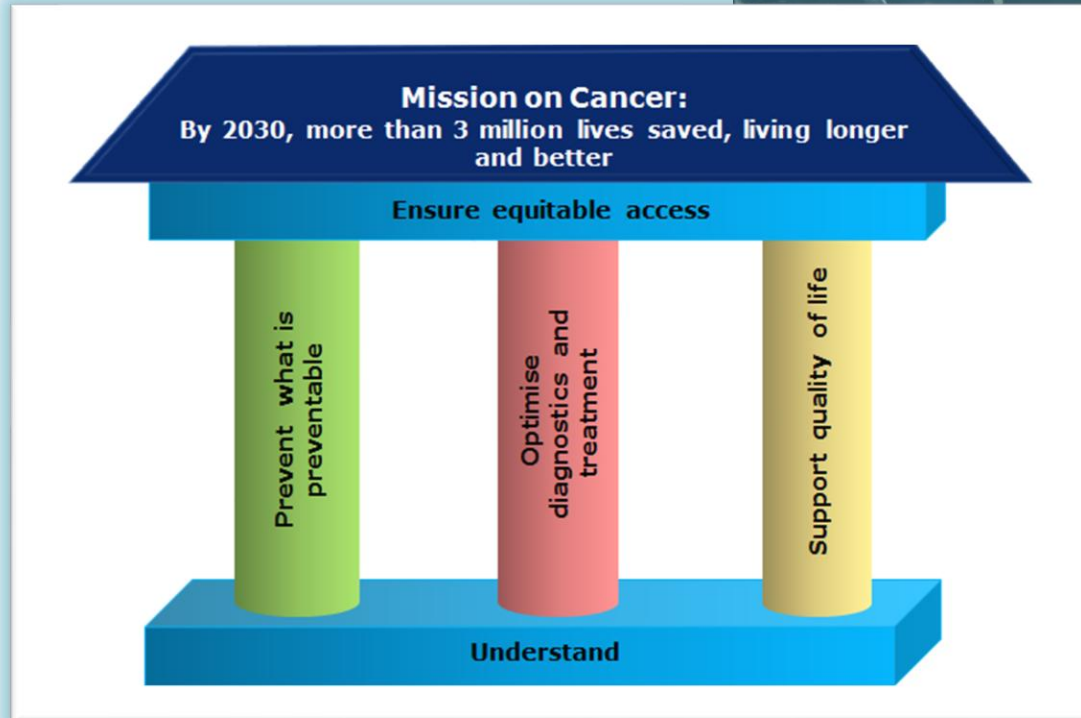


Prevention

Early
detection

Diagnosis &
treatment

Quality of life for
patients and
survivors



European
Commission



EU Missions – synergies with EU policies and initiatives

Initiatives that can help achieve the goal of the EU Mission on Cancer

- Knowledge Centre on Cancer (KCC)
- European Cancer Information System (ECIS)
- Chemicals Strategy for Sustainability
- Zero Pollution Action Plan
- HealthyLifestyles4all initiative
- Strategic Agenda for Medical Ionising Radiation Applications
- European Universities Initiative
- Non-communicable Diseases Initiative
- Council Recommendations on Cancer Screening
- Digital transformation and skills
- Artificial Intelligence Agenda
- EIT & KICs

Legislative initiatives:

- European Health Data Space
- Pharmaceutical Package
- Communication on working towards an asbestos-free future
- Zero Pollution Action Plan

Initiatives under Horizon Europe:

- HE Health Cluster => support R&I priorities
- Horizon Europe partnerships
- Research and Training Programme (Euratom)
- New European Bauhaus initiative

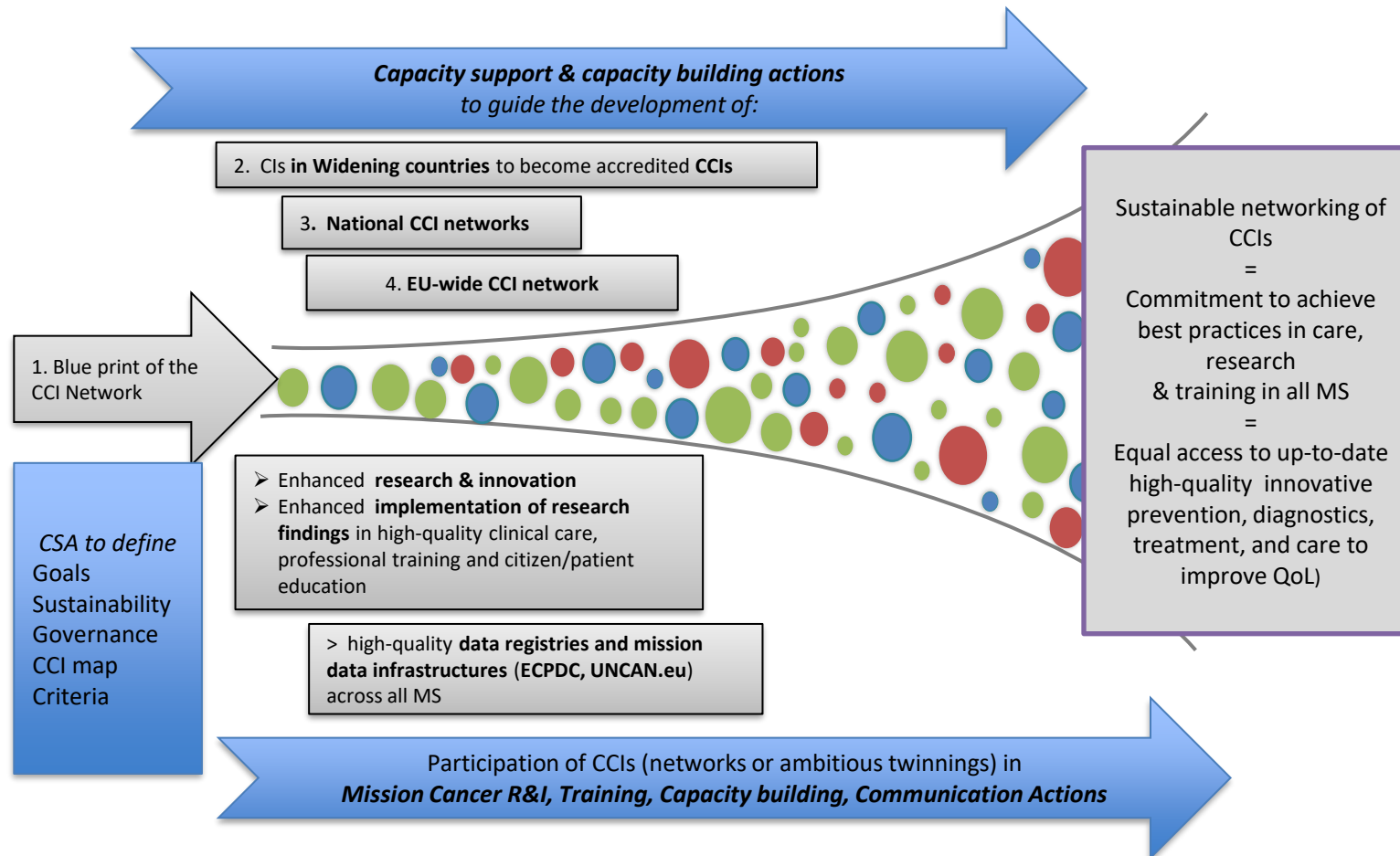
Other initiatives:

- EU4Health
- Digital Europe
- EIC

National activities

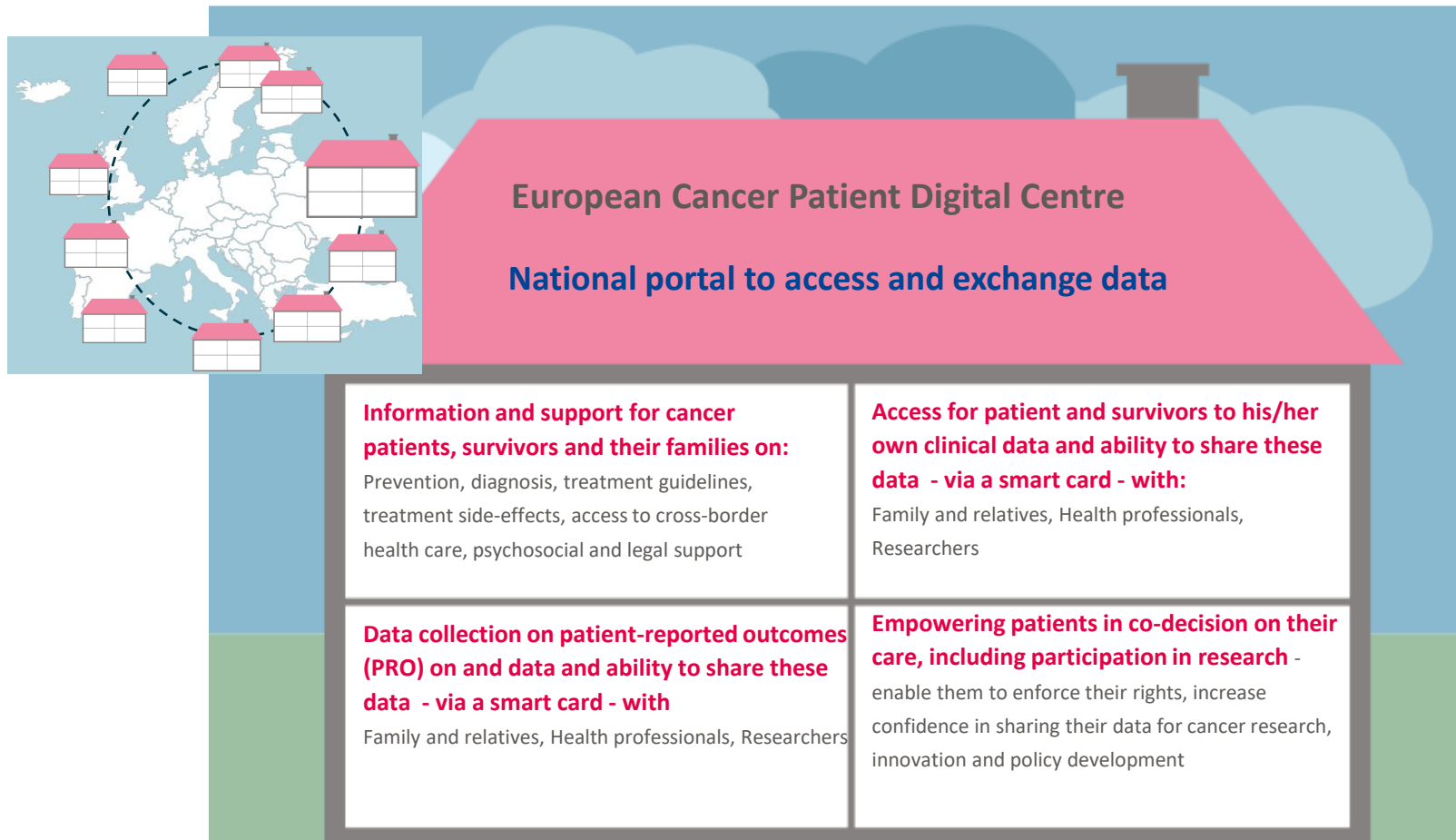


Network of Comprehensive Cancer Infrastructures





European Cancer Patient Digital Centre – concept





Joint governance established

- **Dialogue with Member States:** a sub-group on cancer under the Steering Group on Health Promotion, Disease Prevention and Management of Non-Communicable Diseases (SGPP) follows jointly the implementation of the Europe's Beating 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 exchange.
- **EU Implementation Group:** a dedicated group gathering different Commission services to ensure that actions, policies and findings are aligned across the relevant Commission departments.

- La Missione Cancro è stata una pioniera da diverse prospettive
- La Missione Cancro ha affrontato temi e attivato impegni che non possono essere gestiti a livello nazionale, facendo da apripista anche per infrastrutture e concetti informatici.
- La Commissione Europea fa da ponte tra assistenza sanitaria e ricerca.

Grazie per l'attenzione