



Mejorando la calidad oncológica a través de la acreditación: Modelo OECI

24 / abril / 2023



A new vision for cancer in Europe

Josep Taberner, MD PhD

Disclosure Information

- ❑ Employment: Director of VHIO, Head of Medical Oncology Service, Vall d'Hebron Hospital
- ❑ Consultant or Advisory Role: scientific consultancy role for Array Biopharma, AstraZeneca, Bayer, Boehringer Ingelheim, Chugai, Daiichi Sankyo, F. Hoffmann-La Roche Ltd, Genentech Inc, HaliDX SAS, Hutchison MediPharma International, Ikena Oncology, Inspirna Inc, IQVIA, Lilly, Menarini, Merck Serono, Merus, MSD, Mirati, Neophore, Novartis, Ona Therapeutics, Orion Biotechnology, Peptomyc, Pfizer, Pierre Fabre, Samsung Bioepis, Sanofi, Scandion Oncology, Scorpion Therapeutics, Seattle Genetics, Servier, Sotio Biotech, Taiho, Tessa Therapeutics and TheraMyc
- ❑ Stock Ownership: Oniria Therapeutics
- ❑ Research Funding: Yes (H2020, ISCIII, Grand Challenge, etc.)
- ❑ Speaking: N/A
- ❑ Grant support: Competitive grants (VHIO)
- ❑ Other: Educational collaboration with Imedex/HMP, Medscape Education, MJH Life Sciences, PeerView Institute for Medical Education and Physicians Education Resource (PER).

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The Mission on Cancer – The European *Moon shot*

- The **Mission on Cancer** aims to improve the lives of more than 3 million people through **prevention and cure**, as well as support individuals and their families affected by cancer to have longer and better lives by supporting the **EU's Beating Cancer Plan**.
- Several initiatives are being established as part of the Mission, including the creation of the EU Platform **UNCAN.eu** in 2022, to lead to more rapid breakthroughs in understanding cancer, and the **European Cancer Patient Digital Centre** by 2023, to **empower patients in their care**.
- In 2023 a network of **Comprehensive Cancer Infrastructures** has been created, enhancing the quality of care and decreasing barriers to access of care.

The Mission on Cancer – The European *Moon shot*

Horizon Europe has incorporated, as a new element, research and innovation missions. One of the five missions is the **Mission on Cancer**.

- Each mission has a **Board of 15 experts**, including a Chair, and is supported by a secretariat.
- In the first term, each mission had a **General Assembly** of up to 20 members.
- In June 2020 the interim report on the cancer mission was published. The report served as the basis for further discussion and engagement to ensure that the proposed mission is relevant and will make a real difference.
- At the European Research and Innovation Days in September 2020, the board of experts presented its **recommendations to the Commission**.
- Further to this, the **Mission was launched in September 2021** with the publication of its implementation plan and factsheet.

Mission Report Structure

Published in September 2020

OVERALL GOAL:

'By 2030, more than three million lives saved, living longer and better!'

INTERVENTION AREAS FOR ACTION:

Pillars as effective interventions to improve:

P-1: Understanding

P-2: Prevention (screening and early detection)

P-3: Diagnostics and Treatment of Cancer

P-4: Quality of Life of Patients, Families and carers

P-5: Ensure equitable access



13 RECOMMENDATIONS FOR BOLD ACTIONS: 2 per area and 3 cross-cutting



MISSION ON CANCER

13 Core Recommendations

Understanding of cancer

Launch **UNCAN.eu** – a European Initiative to Understand Cancer (2021-2023)

Develop an EU-wide research programme to identify **(poly-) genic risk scores**

Prevention (screening & early detection)

Support the development and implementation of effective **cancer prevention** strategies and policies within Member States and the EU

Optimise existing **screening programmes** and develop novel approaches for **screening and early detection**

Diagnostics & treatment of cancer

Advance and implement **personalized medicine** approaches for all cancer patients in Europe

Develop an EU-wide research programme on **early diagnostic** and **minimally invasive** treatment/technologies (2021-2026)





MISSION ON CANCER

13 Core Recommendations

Quality of life

Develop an EU-wide **research programme and policies** to improve the quality of life of cancer patients and survivors, family members and carers, and all persons with an increased risk of cancer (2021-2025)

Create a **European Cancer Patient Digital Centre** where cancer patients and survivors can deposit and share their data for personalized care (2021-2023)

Equitable access

Achieve **Cancer Health Equity** in the EU across the continuum of the disease

Set up a network of **Comprehensive Cancer Infrastructures** within and across all EU Member States to increase quality of research and care (2021-2025)

Transversal recommendations

Cancers in **children, adolescents and young adults**: cure more and better

Accelerate innovation and implementation of new technologies and create **Oncology-focused Living Labs** to conquer cancer

Transform cancer **culture, communication** and **capacity building**



MISSION ON CANCER



Implementation Plan – Actions by Specific Objectives

SO 1. Improve the understanding of cancer

- (1) Establish the **UNCAN.eu platform** (2021-2023) – **Topic Closed**
- (2) Better **understand healthy versus cancer cells** at individual population level (2021-2028) (Stage: pre-clinical / early clinical research)

SO 2. Prevention including screening and early detection (prevent what is preventable)

- (1) Develop **new methods and technologies for screening and early detection** (2021-2026) (Stage: Technological Readiness Level 4 and above) – **Topic Closed**
- (2) Better understanding of the impact of risk factors and health determinants on the development and progression of cancer

SO 3. Optimise diagnostics and treatment

- (1) **Support the creation of a Network of Comprehensive Cancer Infrastructures (CCIs) by 2025** (2021-2025):

SO 4. Support Quality of Life

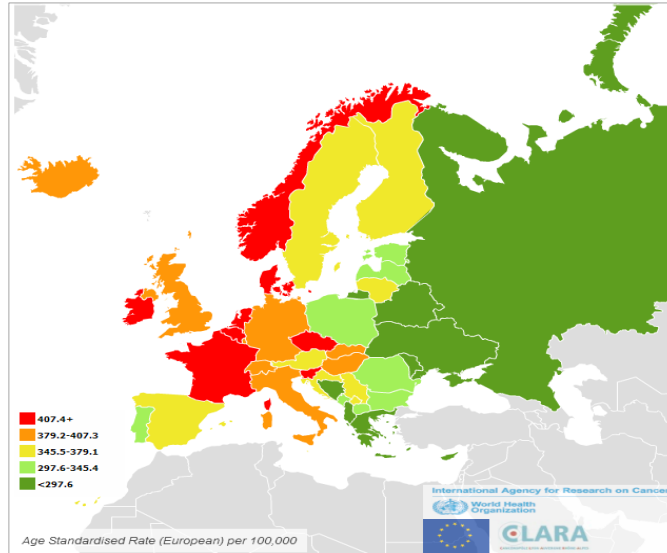
- (1) Collect and analyse **data on today's unmet needs of cancer patients and survivors** (2021-2025)

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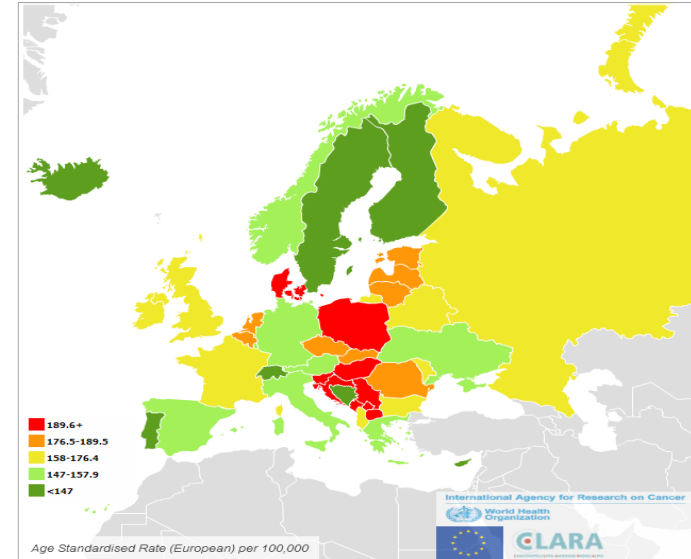
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Disparities in Cancer control in Europe

Incidence (per 100.000)



Mortality (per 100.000)



Despite higher incidence rates in Western Europe,
the mortality rates are higher in Central Eastern Europe

Europe's Beating Cancer Plan

- The **Cancer Plan** will help Member States turn the tide against cancer.
 - It will enable **expertise and resources to be shared** across the EU - supporting countries, regions and cities with less knowledge and capacity.
 - It will **help researchers** to exchange findings between small and large Member States and to have access to crucial health data on the potential causes of cancer and promising treatments for it.
 - **Medical staff and hospitals** will be able to tap into a wealth of shared information.
- Ultimately it will ensure that patients across the EU can benefit from better care and treatment.
- EU4Health programme and other EU instruments will provide substantial financial support with **€4 billion** to Member States in their efforts to make their health systems more robust and more able to address cancer.

Europe's Beating Cancer Plan

The aim of Europe's Beating Cancer Plan is to tackle the entire disease pathway. It is structured around **four key action areas** where the EU can add the most value:

- (1) Prevention
- (2) Early detection
- (3) Diagnosis and treatment
- (4) Quality of life of cancer patients and survivors



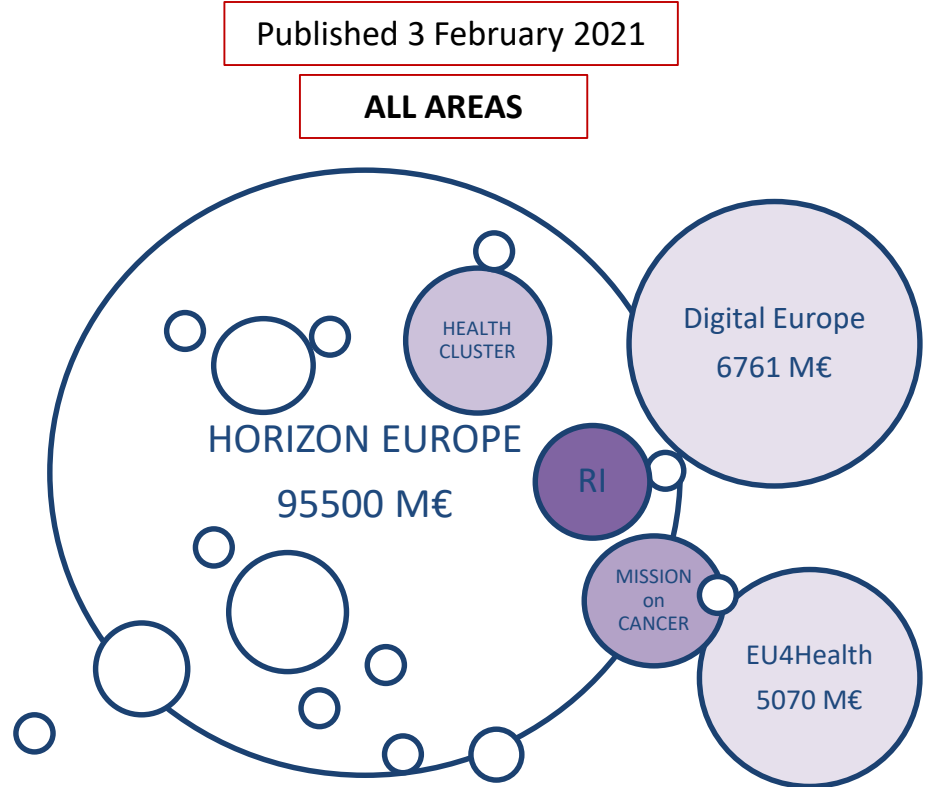
EUROPE'S BEATING CANCER PLAN
LET'S STRIVE FOR MORE

#EUCancerPlan

Over the coming years, it will focus on **research and innovation**, tap into the potential that **digitalisation** and new technologies offer, and mobilise financial instruments to support Member States

Europe's Beating Cancer Plan

- **10 FLAGSHIP initiatives** and 32 actions in diverse policies: employment, education, social policy and equality, agriculture, energy, environment and climate, transport, cohesion policy and taxation
- **TOTAL BUDGET ACTIONS IN CANCER 2021-2027: ~4.000 M€**
 - **EU4Health:** ~1.250 M€
 - **Horizon Europe:** ~2.000 M€
 - Pillar II – Health Cluster
 - Cancer Mission (: €378.2 million 2021-23)
 - Associations (PARC, IHI and Health Care Systems Transformation)
 - Pillar I (MSCA and INFRAS) and Pillar III (EIC)
 - **Digital Europe Programme:** up to 250M€

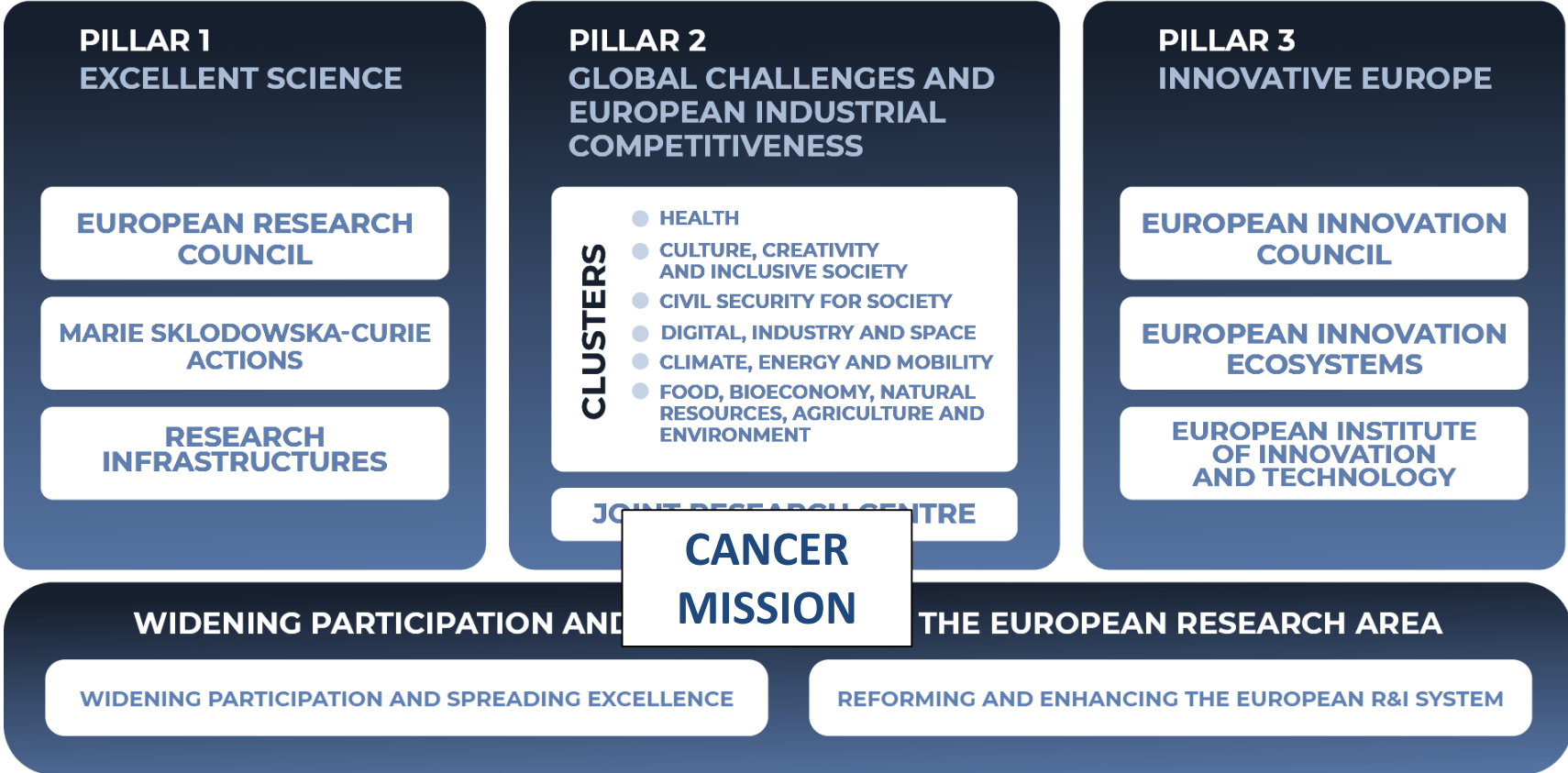


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Horizon Europe – three pillars for implementation





Horizon Europe – Pillar II (RESEARCH)

PILLAR 2 GLOBAL CHALLENGES & INDUSTRIAL COMPETITIVENESS

CLUSTERS

- **HEALTH**

- CULTURE, CREATIVITY AND INCLUSIVE SOCIETY
- CIVIL SECURITY FOR SOCIETY
- DIGITAL INDUSTRY & SPACE
- CLIMATE, ENERGY & MOBILITY
- FOOD BIOECONOMY, NATURAL RESOURCES, AGRICULTURE & ENVIRONMENT

MISSION AREAS:

- **CANCER**

- SOIL HEALTH AND FOOD
- ADAPTATION TO CLIMATE CHANGE, INCLUDING SOCIETAL TRANSFORMATION
- CLIMATE-NEUTRAL AND SMART CITIES
- HEALTHY OCEANS, SEAS, COASTAL AND INLAND WATERS

JOINT RESEARCH CENTRE (JRC)

EUROPEAN PARTNERSHIPS & JOINT UNDERTAKINGS

Horizon Europe – Pillar III (INNOVATION)

PILLAR 3 INNOVATIVE EUROPE

EUROPEAN INNOVATION COUNCIL (EIC)

- PATHFINDER (IDENTIFY) Support to research teams to develop an emergind breakthrough Technology
- TRANSITION (DEVELOP) Building on promising research result to develop business plans for specific applications
- EIC ACCELERATOR (SCALE UP) Funding and investments through the EIC Fund for individual start-ups

EUROPEAN INSTITUTE OF INNOVATION AND TECHNOLOGY (EIT)

- EIT HEALTH
- EIT DIGITAL
- EIT CLIMATE
- EIT CULTURE & CREATIVITY
- EIT FOOD
- EIT INNOENERGY
- EIT MANUFACTURING
- EIT RAW MATERIALS
- EIT INNOVATIONS COMMUNITIES

EUROPEAN INNOVATION ECOSYSTEMS

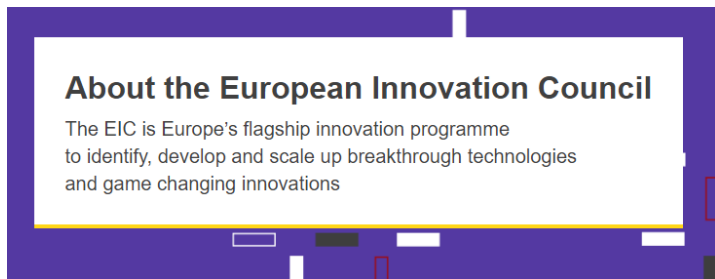
- IHI

Horizon Europe – INNOVATION: European Innovation Council

The European Innovation Council (EIC) has been established under the EU [Horizon Europe](#) programme. It has a budget of €10.1 billion to support game changing innovations throughout the lifecycle from early stage research, to proof of concept, technology transfer, and the financing and scale up of start-ups and SMEs.



Get funding & investment



IDENTIFY

EIC Pathfinder


Support to research teams to research or develop an emerging breakthrough technology

The "Identify" phase is represented by a purple square with a white magnifying glass icon over a circular arrow. Below the icon, the word "IDENTIFY" is written in white on a light purple background. The title "EIC Pathfinder" is in blue, and the description is in black text.

DEVELOP

EIC Transition

Building on promising research results to demonstrate and mature the technology and develop business plans for specific applications

The "Develop" phase is represented by a red square with a white gear icon. Below the icon, the word "DEVELOP" is written in white on a light red background. The title "EIC Transition" is in blue, and the description is in black text.

SCALE UP

EIC Accelerator

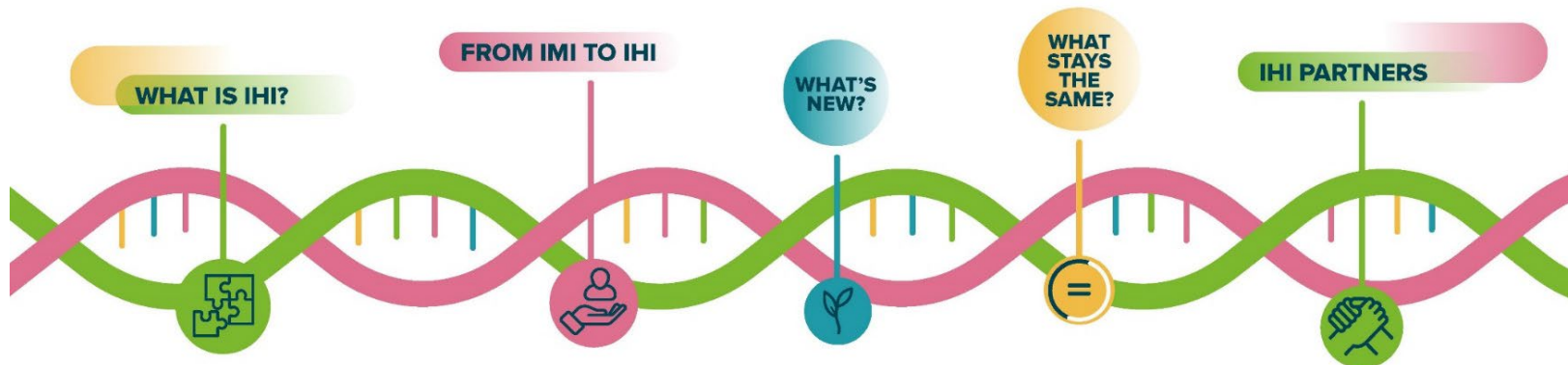
Funding and investments through the EIC Fund for individual start-ups and small companies to develop and scale up game changing innovations

The "Scale Up" phase is represented by a black square with a white line graph icon showing an upward trend. Below the icon, the words "SCALE UP" are written in white on a dark grey background. The title "EIC Accelerator" is in blue, and the description is in black text.

Horizon Europe – INNOVATION: IHI (Innovative Health Initiative)



THE DNA OF THE INNOVATIVE HEALTH INITIATIVE



IHI IS EUROPE'S NEW PARTNERSHIP FOR HEALTH

IHI is a **collaboration** between the EU and the biopharmaceutical, biotechnology, digital health and medical technology sectors, as well as academics, patients, regulators and other healthcare professionals.

IHI will build on the extensive experience of **IMI's 14 years and almost 200 projects** to build an interdisciplinary, sustainable, patient-centric health research partnership to help transform patients' lives.

- The way we're governed will change.
- The scope of the partnership is broader than IMI as it will cover the **entire continuum of care**.
- There will be new, specific objectives that align with the EU's latest health policy strategies.

- Funding comes equally from the public and industry partners.
- Calls for proposals will be **open and competitive**.
- Projects started under IMI will be managed by IHI.

The industry members that will make up the new partnership are:

COCIR
EFPIA
EuropaBio
MedTech Europe
Vaccines Europe

The public member in the partnership is the **European Union**, represented by the European Commission.



Horizon Europe – INNOVATION: IHI (innovative Health initiative)

IHI call 1 & 2: first results



IHI call 1
18 proposals

Topic 1 (neurodegenerative diseases): 5
Topic 2 (imaging & cancer): 5
Topic 3 (multi-modal cancer therapies): 5
Topic 4 (health data): 3

IHI call 2
15 proposals

Topic 1 (cardiovascular diseases): 11
Topic 2 (early feasibility studies): 4

**Submission:
Sept 2022**



IHI draft call topics



- Screening platform & biomarkers for disease prediction & prevention
- Patient-generated evidence for better outcomes
- Improving outcomes in hospitals
- Advanced therapies for rare diseases
- Digital technologies and mental health
- Non-clinical drug safety assessments
- Patient-centric blood sample collection

IHI Call 3

- Single stage
- Launch: Dec 2022

IHI Call 4

- Two stage
- Launch: early 2023



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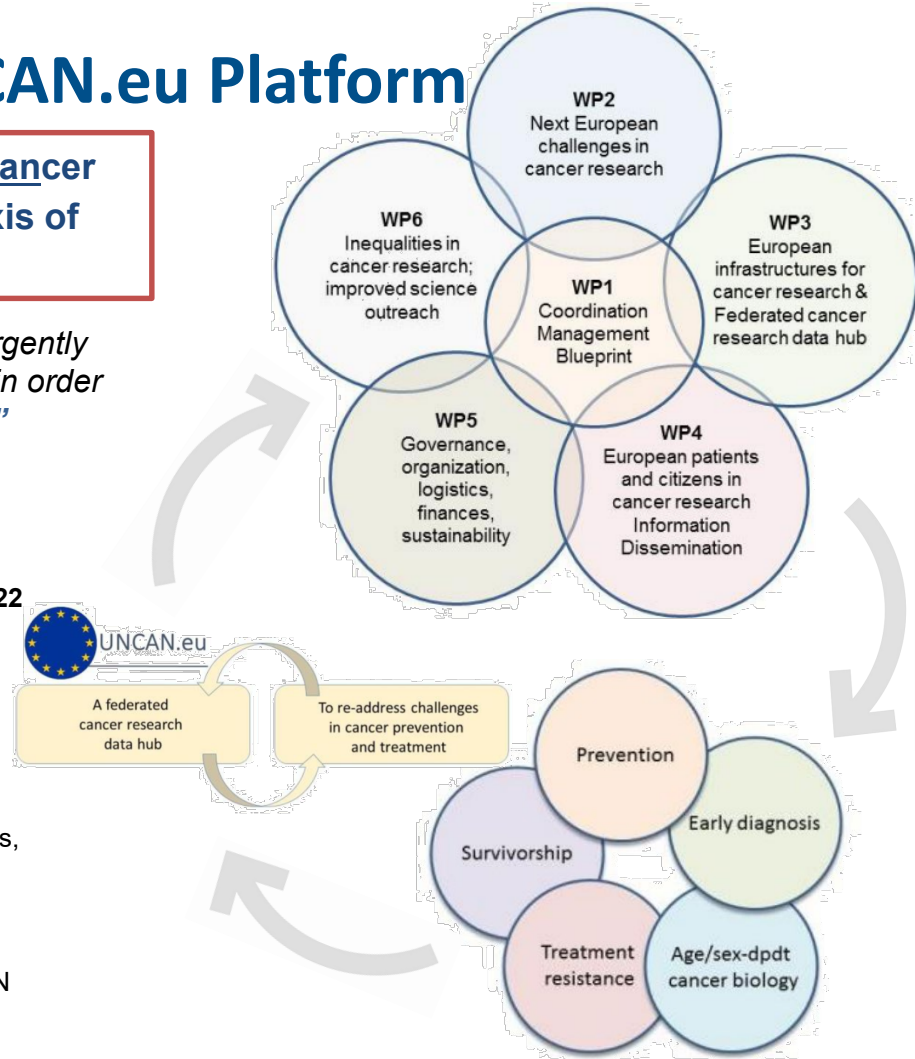
MISSION ON CANCER: The UNCAN.eu Platform

UNCAN.eu is a European initiative to understand cancer proposed by the Cancer Mission and a strategic axis of Europe's Beating Cancer plan”

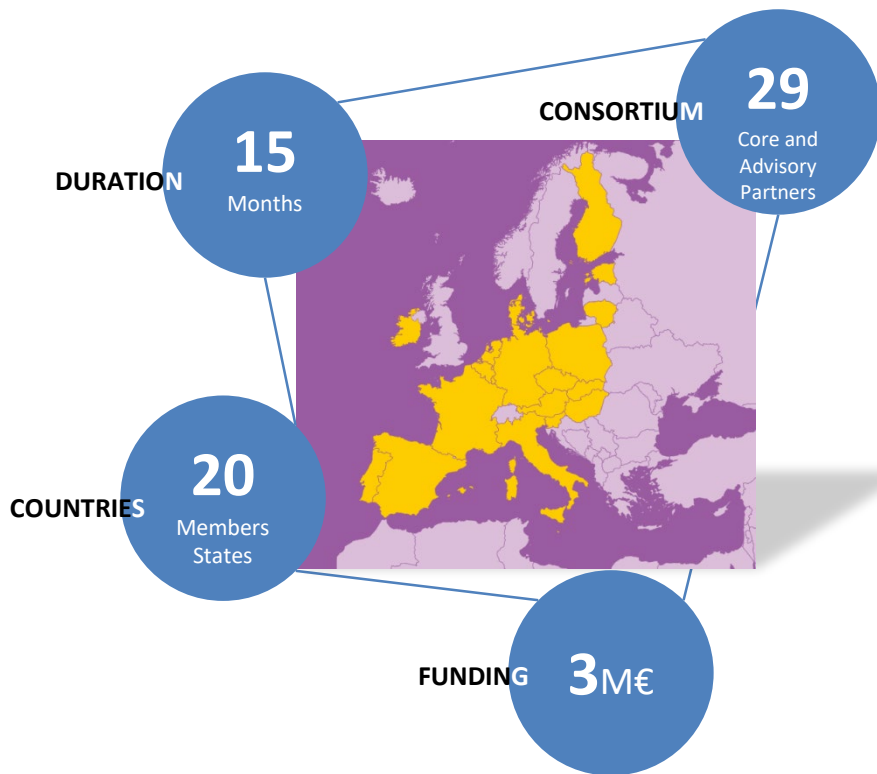
UNCAN.eu aims to: “enable the next breakthroughs that are urgently needed to advance the understanding of cancer mechanisms in order to improve cancer prevention, early diagnosis and treatment”

4. UNCAN.eu: a Coordination and Support Action (CSA) to prepare the UNCAN.eu platform

- A European-wide project of 15-month duration, starting in **September 2022**
- Define **challenges in cancer research** that need to be addressed at the supranational level in the coming years
- Identify existing **infrastructures and networks** to build a **European Research Data Hub**
- Ensure **support from stakeholders** (national agencies, charities, patients, private, etc...)
- Organize a **European Citizen community**
- Provide recommendations on **governance** and **dissemination** of UNCAN objectives



MISSION ON CANCER: The UNCAN.eu Platform



WP2 – Define priorities in cancer research in pre-defined areas

- Aligned with strategic priorities of member states
- Consistent with available infrastructures
- Leverage data use cases

WP3 – Build a European Cancer Research Data Hub

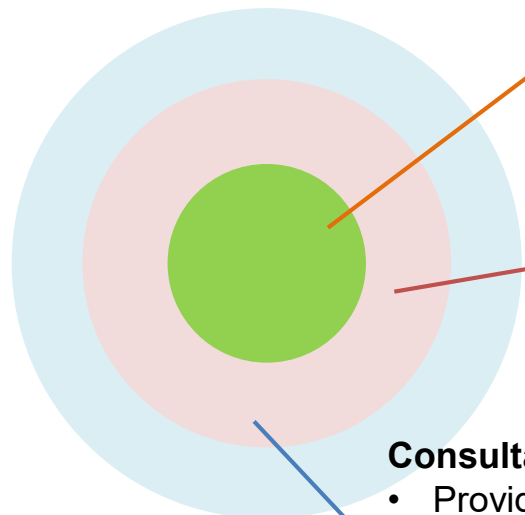
- Aligned with strategic priorities of member states
- Consistent with available infrastructures
- Leverage data use cases

Additional working modules

- Defining a governance and sustainability model
- Address geographical disparities in research capacity
- Map existing research infrastructures
- Integrate patients and citizens

MISSION ON CANCER: The UNCAN.eu Platform

4.UNCAN.eu: composition



Core consortium

- Workpackage leaders,
- Will receive funding through CSA

- CCI-E
- ECPC
- France
- Germany
- Hungary
- Italy
- Netherlands
- Spain

Associated partners

- Will be involved in WP workshops
- Could join final strategic roadmap
- Will not receive funding through the CSA

- Austria,
- Belgium
- Czech republic
- Estonia
- Finland
- Ireland
- Malta
- Poland
- Portugal
- Slovakia
- Sweden
- UK

Consultation partners & stakeholders

- Provide expertise and advices
- Influence future EU work programmes
- Connect to other initiatives
- Could join final strategic roadmap

- Cancer Core Europe
- CRUK
- CCEO
- EOSC / ELIXIR
- EORTC / SPECTA
- EUHA
- IARC
- INFRA-SERV
- OECI
- Ntl organisations

MISSION ON CANCER: The UNCAN.eu Platform

4.UNCAN.eu: Spanish node

Team:

- **CIBERONC (Institute of Health Carlos III (ISCIII)), VHIO**
- Anna Bigas: Task leader CIBERONC Director
- Josep Tabernero: WP2 leader and CIBERONC PI
- Alejandro Piris: Coordination and VHIO PI
- Management team: Javier Carmona (VHIO), Neus Bayó (VHIO), Izaskun Miguel (CIBERONC)

Objective:

- **Define challenges in cancer research that need to be addressed at the supranational level in 6 areas:**
 - Cancer Prevention
 - Early Diagnosis
 - Sensitivity & Resistance to therapy
 - Pediatric Cancer
 - Cancer and Ageing
 - Survivorship



ciberonc isciii

VHIO ^R VALL D'HEBRON
Institute
of Oncology

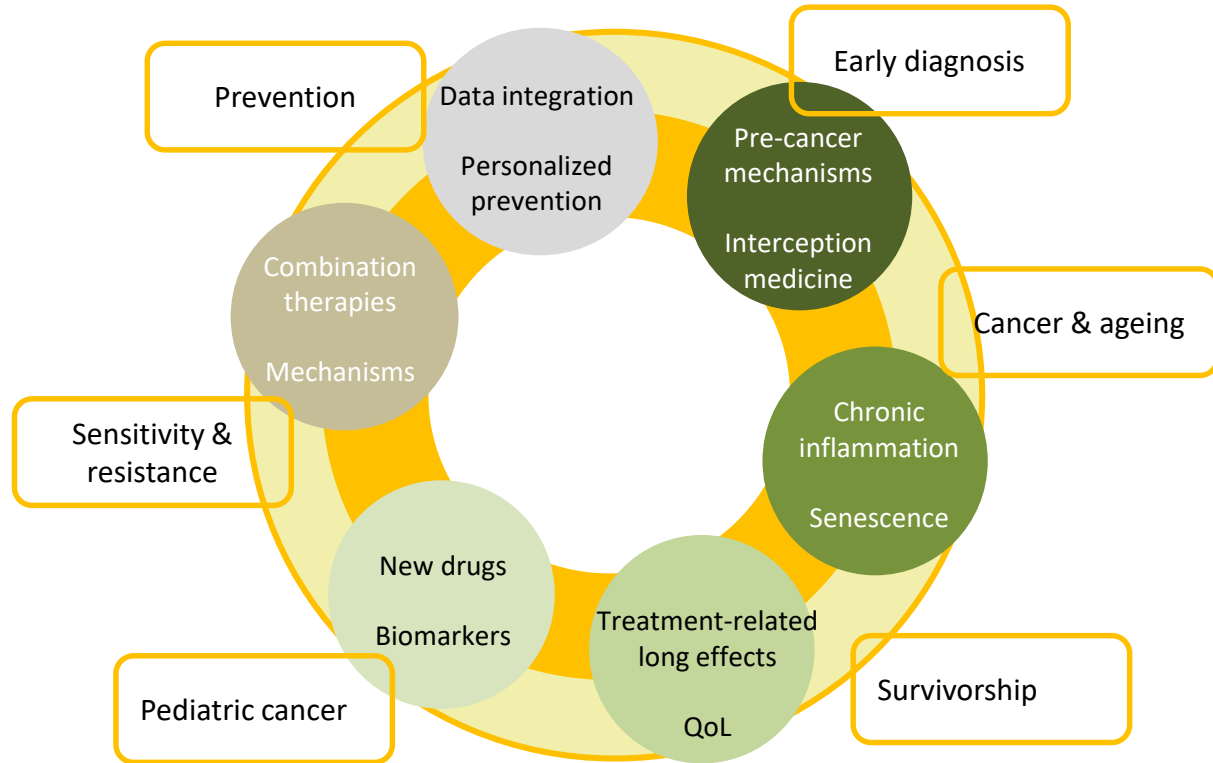
MISSION ON CANCER: The UNCAN.eu Platform

WP2

Research priorities

Future questions in cancer research to reduce disease burden

- Focus on translational research, not clinical trials
- Identified through a consensus process involving cancer experts and citizens
- Prioritization of supranational and multi-disciplinary research
- Supported through specific funding mechanisms & policies



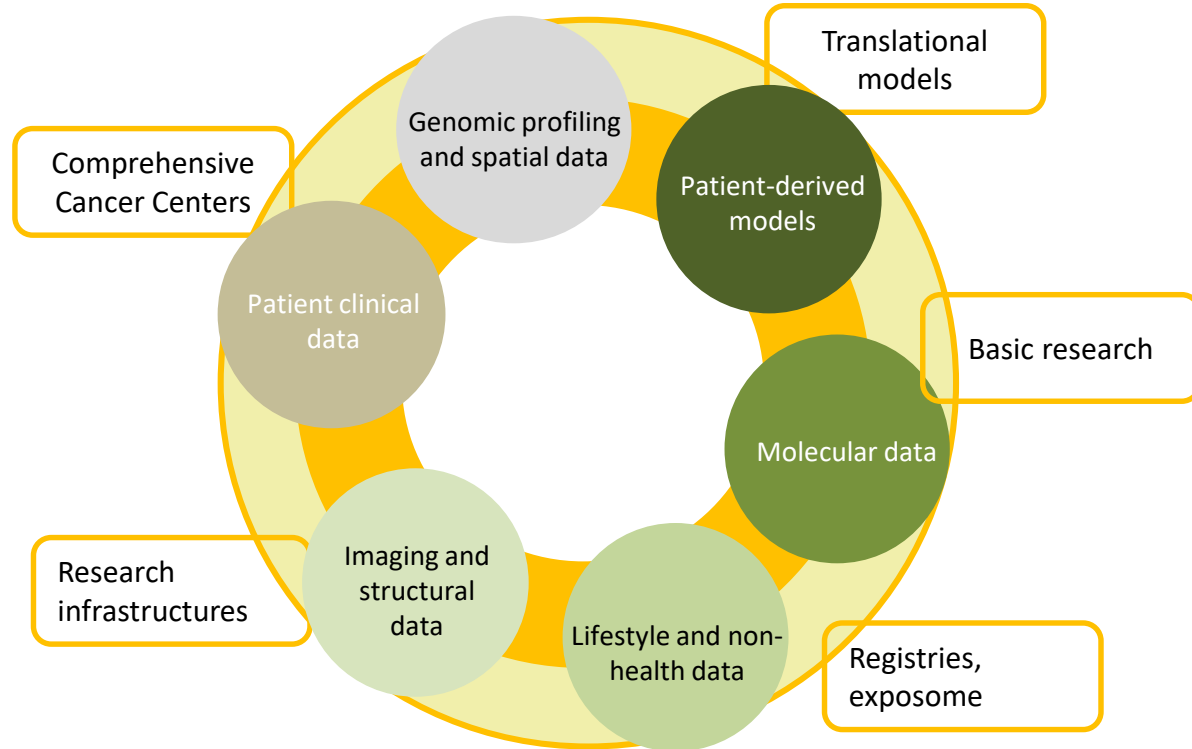
MISSION ON CANCER: The UNCAN.eu Platform

WP3

Data hub

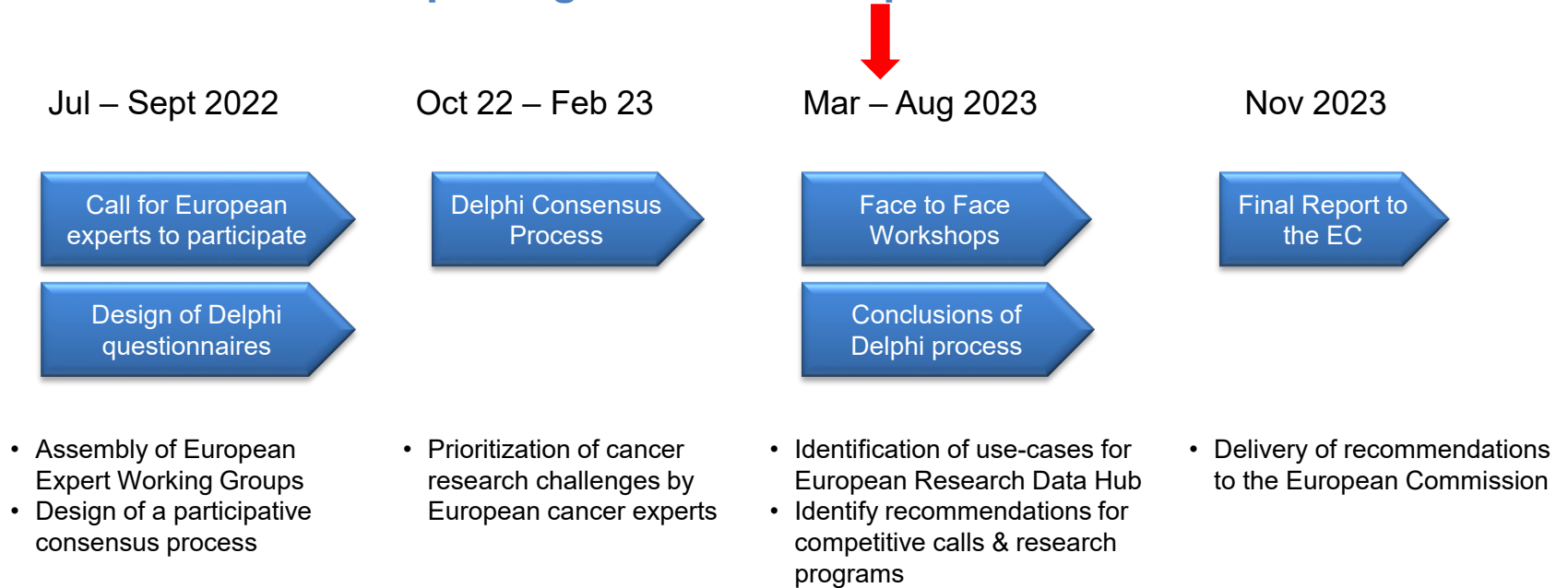
A unique collection of cancer research data for global access

- Federation of National Data hubs and existing initiatives in Europe
- Collection of data on patients, models, exposome
- Starting with research use cases (WP2) and progressively expand
- Connect with European initiatives: EOOSC, CanServ, ESFRIs



MISSION ON CANCER: The UNCAN.eu Platform

4.UNCAN.eu: Work package WP2 roadmap

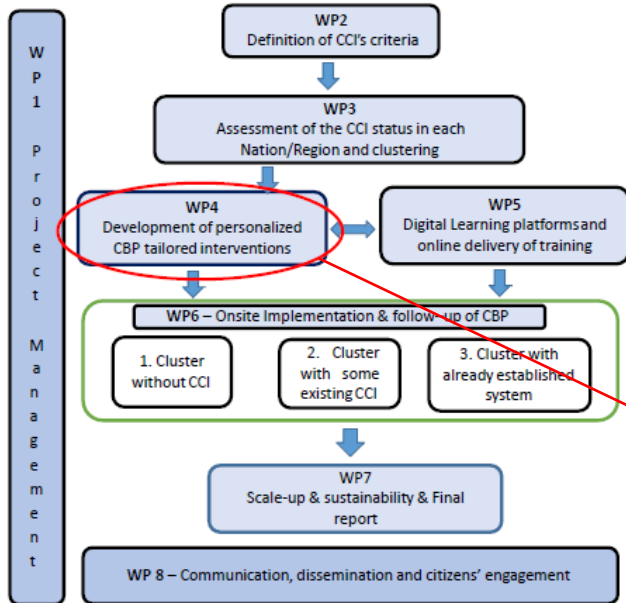


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Comprehensive Cancer Infrastructures

COMPREHENSIVE CANCER INFRASTRUCTURES 4 EUROPE



CCI4EU will map and evaluate the existent infrastructures in Europe and will design adapted **interventions** that will allow increasing the **level of development** of centers' capabilities and overcome the existent inequalities in **formation, research and clinical care.**

**WP 4: Development of personalized
CBP tailored interventions**

VHIO & OUH



Comprehensive Cancer Centers (OECI)

OECI YEARBOOK
2019/2020

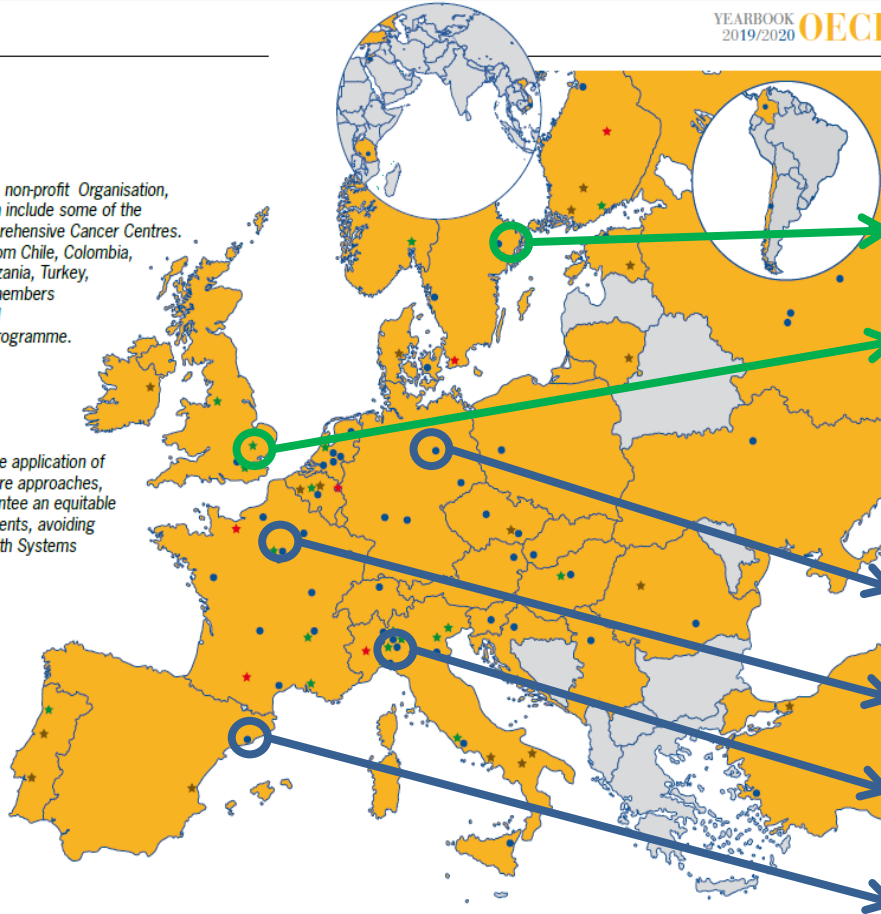
YEARBOOK OECI
2019/2020

The OECI Network

The OECI is a non-governmental, non-profit Organisation, regrouping 102 Members, which include some of the most prominent European Comprehensive Cancer Centres. Several major cancer centres from Chile, Colombia, Jordan, Russian Federation, Tanzania, Turkey, Ukraine and Viet Nam are also members in order to benefit from the OECI Accreditation and Designation Programme.

The OECI aim is to accelerate the application of multidisciplinary personalised care approaches, to reduce morbidity and to guarantee an equitable access to care to all cancer patients, avoiding the collapse of the National Health Systems all over Europe.

- ★ OECI Members A&D certified Comprehensive Cancer Centre
- ★ OECI Members A&D certified Cancer Centre
- ★ OECI Members in the A&D process
- Other OECI Members



ACCREDITED

Karolinska Institute and University Hospital (Stockholm)

King's Health Partners Integrated Cancer Centre (London)

IN PROGRESS...

2022

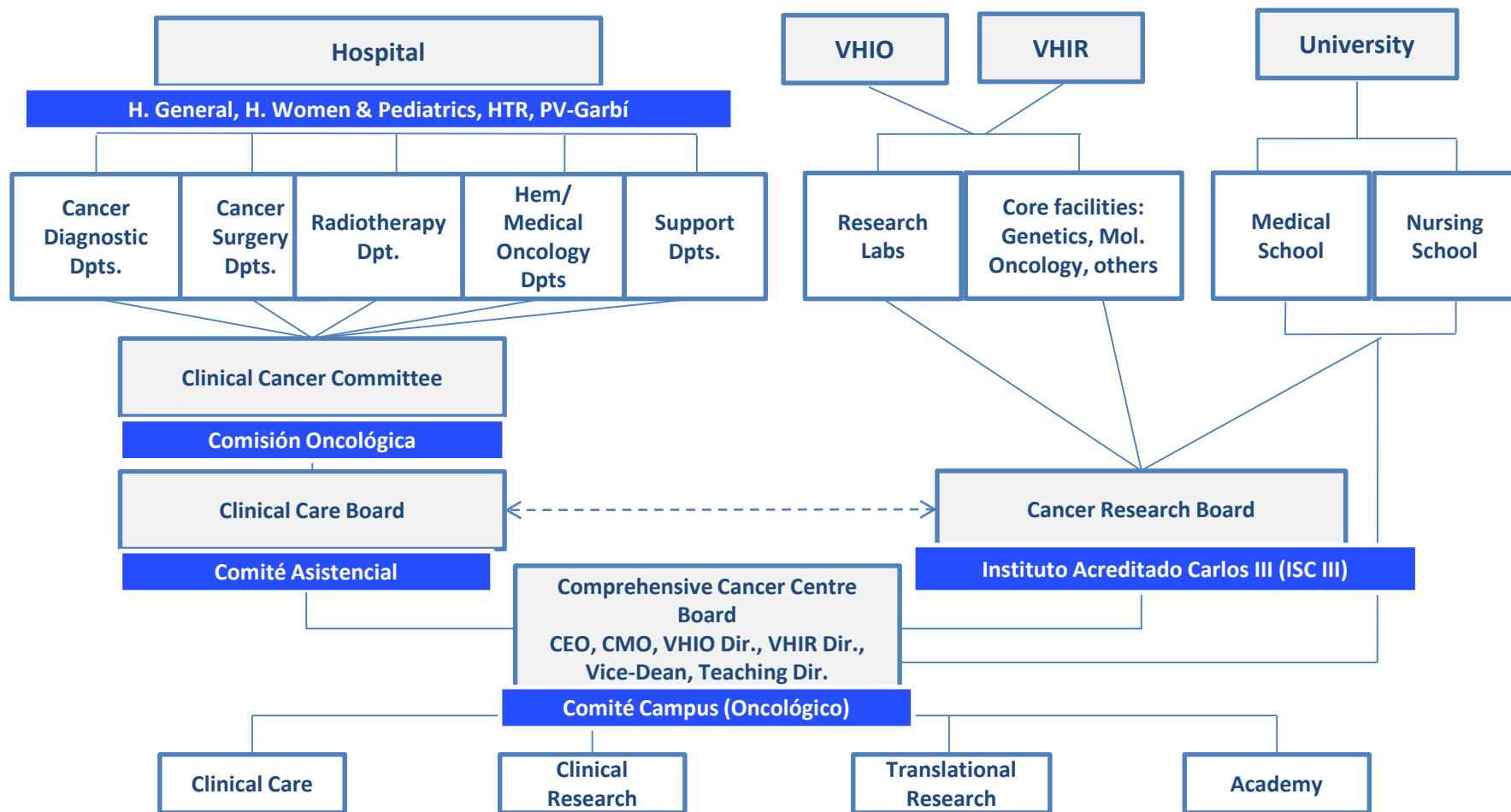
Charité Comprehensive Cancer Center (Berlin)

Assistance Publique Hôpitaux (Paris)

Ospedale San Raffaele (Milano)

Vall d'Hebron Hospital Campus (Barcelona)

THE OECI NETWORK



TAKE HOME MESSAGES

- The Mission on Cancer and the Europe's Cancer Beating Plan are great opportunities to align cancer policies on cancer prevention, research and innovation. It's an excellent moment to align the way to fight cancer
- We count with new Funding instruments for cancer to make excellent research in cooperation and to enable cancer treatments equitable
- The European Commission has delegated to national nodes the way to prioritise research in cancer, via competitive calls; let's take advantage of it
- EU wants that some cancer research and treatment tasks are leaded or coordinated by Comprehensive Cancer Centers. However, we must establish robust National nodes or hubs to involve all researchers, carers and stakeholders

ACKNOWLEDGMENTS – VHIO – H. VALL D'HEBRON

Our amazing scientist, leadership & staff



Our patients & their families



National & International funding bodies



European Research Council



Private Foundations & Donors



Fundació "la Caixa"



VHIO SCIENTIFIC MANAGEMENT AREA



- Support director in design of scientific strategies
- Implementation of new research lines/ groups
- Active search of funding opportunities
- Assessment, management and follow up of institutional programs
- Preparation and writing of competitive proposals
- Monitoring and execution of awarded research projects
- Implementation of institutional needs in education, ethics & regulatory issues, scientific dissemination, tasks related to consortia and coordinated research, patients & science, etc.

ACKNOWLEDGMENTS – VHIO – H. VALL D'HEBRON

Our amazing scientist, leadership & staff



Our patients & their families



National & International funding bodies



European Research Council



Private Foundations & Donors



Fundació "la Caixa"



Thank you

Back up slides

HORIZON 2020

EXCELLENT SCIENCE

EUROPEAN RESEARCH COUNCIL

MARIE CURIE ACTIONS

RESEARCH INFRASTRUCTURES

FUTURE AND EMERGING TECHNOLOGIES

SOCIETAL CHALLENGES

HEALTH

INCLUSIVE AND SECURE SOCIETY

DIGITAL INDUSTRY AND SPACE

CLIMATE ENERGY AND MOBILITY

FOOD AND NATURAL RESOURCES

INDUSTRIAL LEADERSHIP

LEADERSHIP IN ENABLING AND INDUSTRIAL TECHNOLOGY

ACCESS TO RISK FINANCE

INNOVATION IN SMES

WIDENING PARTICIPATION AND SCIENCE WITH AND FOR SOCIETY

HORIZON EUROPE

OPEN SCIENCE

EUROPEAN RESEARCH COUNCIL

MARIE CURIE ACTIONS

RESEARCH INFRASTRUCTURES

GLOBAL CHALLENGES AND INDUSTRIAL COMPETITIVENESS

HEALTH

INCLUSIVE AND SECURE SOCIETY

CIVIL SECURITY FOR SOCIETY

DIGITAL INDUSTRY AND SPACE

CLIMATE ENERGY AND MOBILITY

FOOD AND NATURAL RESOURCES

MISSION

OPEN INNOVATION

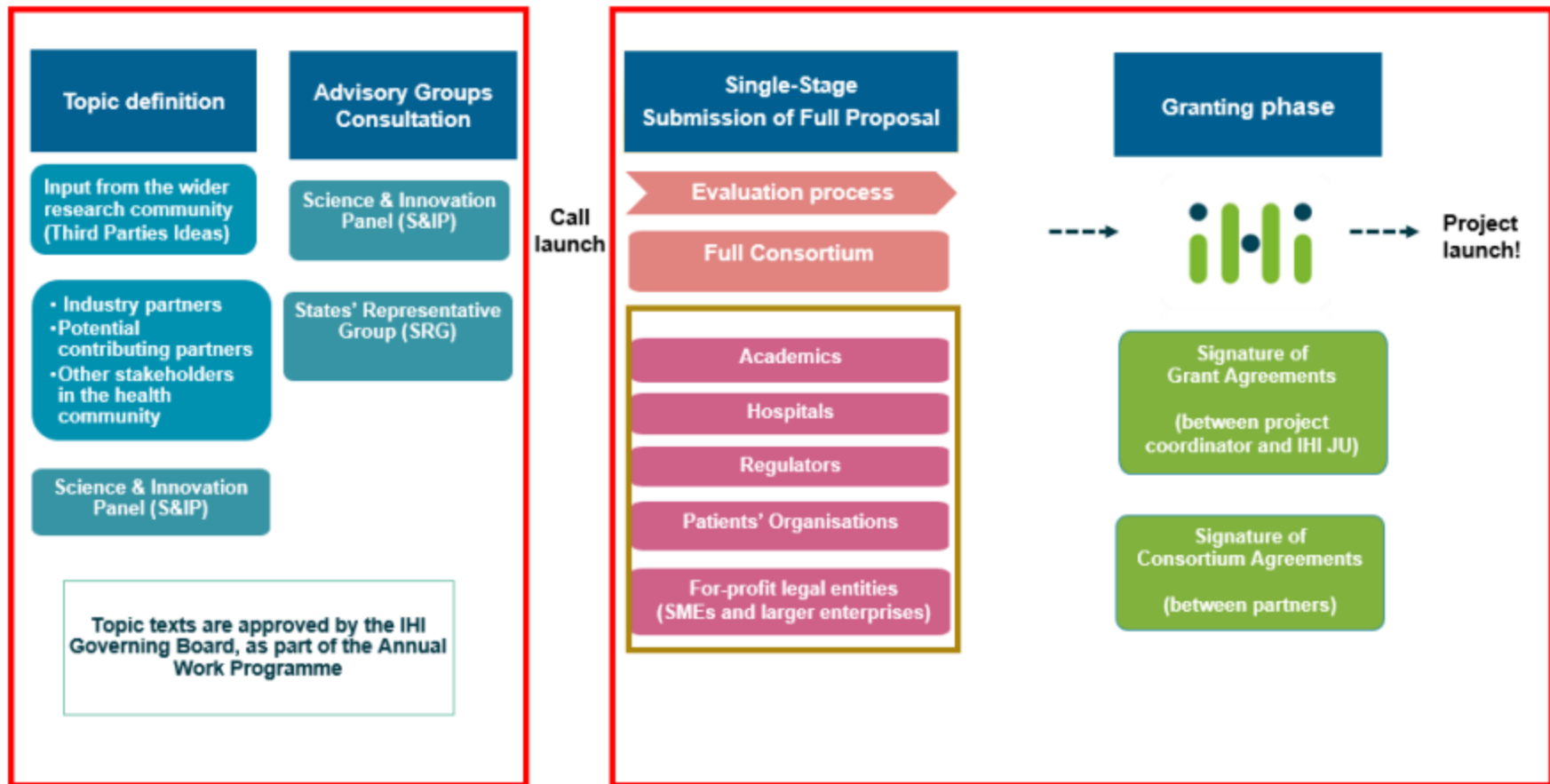
EUROPEAN INNOVATION COUNCIL

EUROPEAN INNOVATION ECOSYSTEMS

EUROPEAN INSTITUTE OF INNOVATION AND TECHNOLOGY

SHARING EXCELLENCE AND REFORMING AND ENHANCING THE EUROPEAN R&I SYSTEM

Single-stage procedure



Two-stage procedure

