





# 2024 **JA NFP4Health** Learning by doing LABs: Cancer Venue: Ernest Lluch Hall (Pavilion 13) Avda. Monforte de Lemos 5, Madrid NFP<sup>(1)</sup>Health Campus de Chamartín - ISCIII 1st October 2024

EU Funding Programmes supporting research on cancer

12.00 Horizon Europe - M. Marín (FECYT) 13.00 Mission Concer D. Darona (ISCUI)

Mission Cancer - R. Perona (ISCIII) Funding opportunities in cancer: a case of success-Prof.J.García Foncillas (IIS FJDiaz) EU4Health Programme - M.J. González de Suso (ISCIII)









Dr. Rosario Perona Director Associated Unit Instituto de Salud Carlos III Coordinator of the National Mirror Group for the Cancer Mission





- What are missions? : Missions are a coordinated instrument of the European Commission to address the challenges of the future, making available to researchers, companies, governments and civil society all the necessary resources to achieve the expected objectives.

- R&I missions must:
- Be bold and inspiring, with broad social relevance
- Signify a clear direction: with objectives, measurable and with deadlines
- Be ambitious but based on realistic research and innovation actions
- Drive innovation across all disciplines, sectors and actors
- Be based on a bottom-up approach with multiple solutions











# **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

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 patients and survivors

- 19 R&I priority areas- 4 transversal R&I priorities:

equity, innovation, childhood cancer and personalised medicine

- Citizen engagement
- Project clusters
- Governance



10 flagship initiatives 42 actions

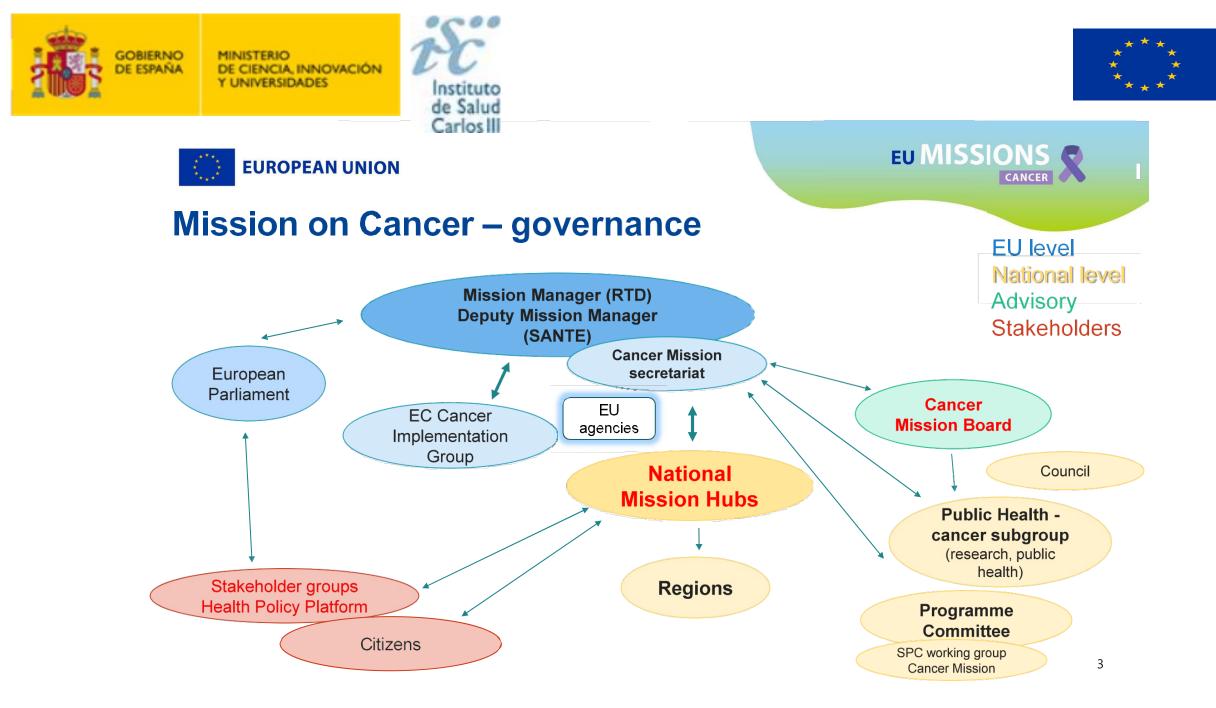
42 actions

€4,000 million

### **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.









#### **SPANISH CORE MIRROR GROUP CANCER MISSION**



NAME	AFFILIATION	ROLE
		Administrative responsible of the Mission
Dr Rosario PERONA	ISCIII	Strategy
		Representative in Subgroup Cancer SGPP
Dr Yolanda AGRA	Ministry of Health	Representative in Subroup Cancer SGPP
Dr Josep Maria BORRAS	Ministry of Health	Coordinator National Cancer Strategy
Dr Anna BIGAS	CIBERONC	Scientific Director
Dr Alejandro PIRIS	VHIO and CIBERONC	Scientific Director
Dr Josep TABERNERO	VHIO & President ESMO	Member of the Mission Assembly
'	(2020)	(Until dec 2021)
Dr Marta GÓMEZ QUINTANILLA	CDTI	HE Health Cluster PC Representative
		Member Subgroup Cancer SGPP
Ms Marta BARRIONUEVO HAFNER	ISCIII	Health Cluster PC Expert and NCP
Dr Juan RIESE	ISCIII	Health Cluster PC Expert and NCP
Dr Carolina CARRASCO	CDTI	Health Cluster PC Expert and NCP









#### SPANISH EXTENDED MIRROR GROUP CANCER MISSION

<ul> <li>IMIM – Hospital del Mar Medical Research Institute- Scientific Coordinator CIBERONC</li> <li>VHIO - Vall d'Hebron Institute of Oncology</li> <li>Biomedical Research Institute of Murcia (IMIB-Arrixaca)</li> <li>Spanish Ministry of Health</li> <li>CDTI - Centre for the Development of Industrial Technology</li> <li>National Strategy against Cancer of the Spanish NHS - Scientific Coordinator</li> <li>CRG - Centre for Genomic Regulation</li> <li>IBEC - Institute for Bioengineering of Catalonia</li> <li>CNIO – Spanish National Cancer Research Centre</li> <li>Fundación Jiménez Díaz University Hospital</li> <li>HM Sanchinarro University Hospital, Comprehensive Cancer Centre Clara Campal, (HM CIOCC)</li> </ul>
Biomedical Research Institute of Murcia (IMIB-Arrixaca) Spanish Ministry of Health CDTI - Centre for the Development of Industrial Technology National Strategy against Cancer of the Spanish NHS - Scientific Coordinator CRG - Centre for Genomic Regulation IBEC - Institute for Bioengineering of Catalonia CNIO – Spanish National Cancer Research Centre Fundación Jiménez Díaz University Hospital
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Fundación Jiménez Díaz University Hospital
HM Sanchinarro University Hospital, Comprehensive Cancer Centre Clara Campal, (HM CIOCC)
INCLIVA - Biomedical Research Institute
FSJD - Research Foundation Saint Joan de Deu
IdiPAZ - Hospital La Paz Institute for Health Research
FEP - Spanish Patients' Forum. Member of the European Patients' Forum
FCAECC - Scientific Foundation Spanish Association Against Cancer
CRIS Cancer Foundation
SEHOP - Spanish Society of Paediatric Hematology and Oncology
PharmaMaR S.A.
FARMAINDUSTRIA
ERN TransplantChild
GEPAC - Spanish Group of Patients with Cancer
SEOM - Spanish Society of Medical Oncology
FENIN – Spanish Federation of Healthcare Technology Companies
ICO – Catalan Institute of Oncology





#### Mission on Cancer: Implementation Plan





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**Mission on Cancer: Implementation Plan** 

**Key elements for success:** 

- Identify and exploit R&D&I results in cancer,
- EU funded projects (H2020) and countries → Accelerate
- their transfer to public health and clinical practice.
- Establish a common strategic R&D&I agenda.
- Create a link between R&D&I and policy development.
- Increase intersectoral collaboration.







# **Budget to implement Mission**

R&D&I, including facilitation and coordination of research activities → Horizon Europe and its partnerships. It will be complemented by funding from philanthropic and charitable organisations, as well as industry contributions through research funding and (potential) data usage fees.

Infrastructure (physical or digital)  $\rightarrow$  The Mission will be based mainly on EU4Health 2021-2027 and Digital Europe 2021-2027. Cohesion Policy Funds are also expected to contribute in this regard, as well as the JRC Cancer Knowledge Hub.





### Actions of the Implementation Plan (i)

Improve the understanding of cancer 1. Establish the 'UNCAN.eu' platform

by 2023 (2021-2023)

 Better understand healthy versus cancer cells at individual and population level (2021-2028)

3. Better understand cancer-patient molecular, cell, organ, organismal interactions (2023-2029)

4. Determine the role of genetics in cancer (2024-2030)



	2.2.1 Prevention
	1. Develop a one-stop cancer information
	centre on prevention (2022-2025)
50	. Boost research and innovation into risk
nin	assessment (2024-2027)
cree	3. Conduct implementation research on cancer
ng so	prevention (2022-2030)
udir det	4. Establish synergies on prevention with other
incl	missions (2023-2026)
Prevention including screening and early detection	2.2.2 Screening and early detection
ven a	1. Optimise and improve access to existing
Pre	screening programmes (2024-2029)
	2. Develop new methods and technologies for
	screening and early detection (2021-2026)
	3. Develop early predictors/tests (2025-2030)



**Optimise diagnostics and** 

MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES



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### Actions of the Implementation Plan (ii)

	1. Support the creation of a Network of Comprehensive Cancer Infrastructures (CCIs) by 2025 (2021-2025)	of life	1. Collect and analyse data on today's unmet needs of cancer patients and survivors (2021-2025)
treatment	2. Develop twinning programmes (2024- 2028)		2. Set up of the European Cancer Patient Digital Centre (2021-2023)
	3. Develop a clinical trial programme on diagnostics (2023-2027)		3. Develop early predictors for quality of life (2024-2030)
	4. Develop a clinical trial programme on treatments (2022-2023)	Support	4. Design monitoring programmes for survivors of childhood cancer (2021-2027)

4 transversal R&I priorities

Equity, Innovation, Childhood cancer and Personalised medicine







**Calls for applications for the Cancer Mission** 

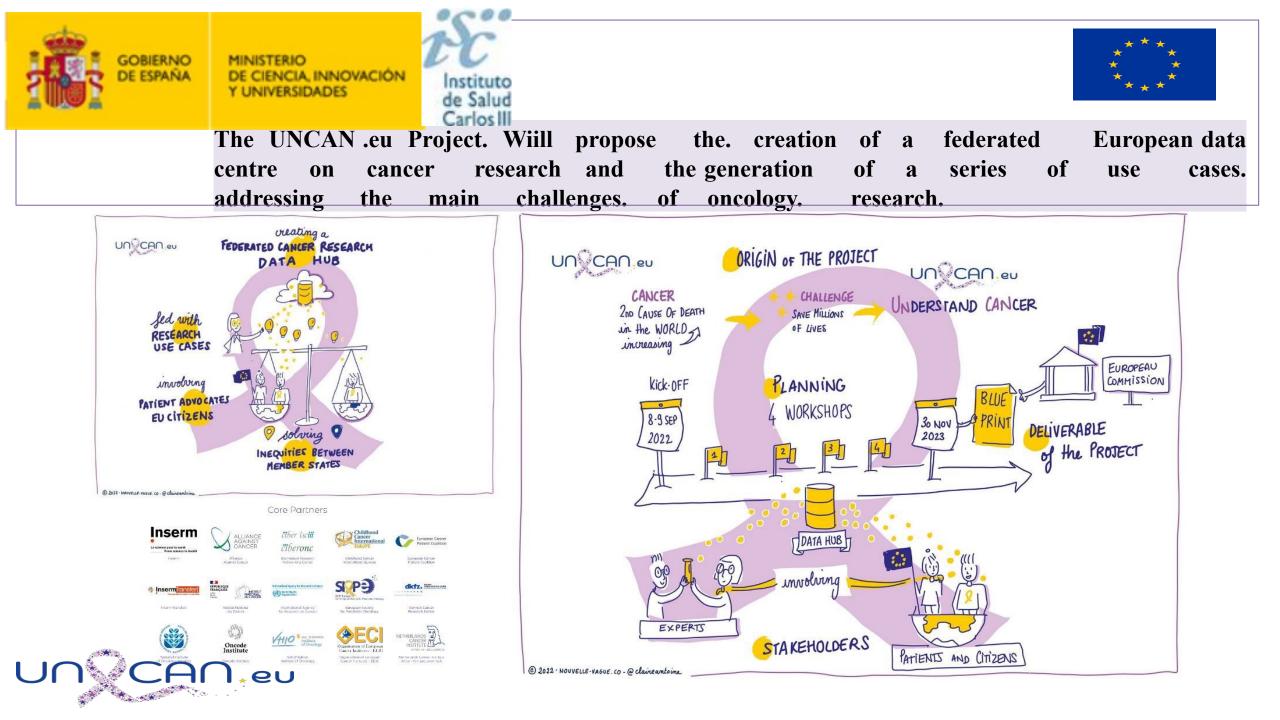
Work Program 2021-2022-254,7 M€

- HORIZON-MISS-2021-UNCAN-01: 3M€ 1 CSA
- HORIZON-MISS-2021-CANCER-02: 125,65 M 3 RIAs
- HORIZON-MISS-2022-CANCER-01: 126 M€ 2 RIAs + 3 CSAs



Work Program 2023-2024 – 110,7 M€ + X

- HORIZON-MISS-2023-CANCER-01: 110,7 M€ 3 RIAs + 1 IA.
- HORIZON-MISS-2024-CANCER-01: To define







## Network of National Cancer Mission Hubs - ECHoS

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 and citizen engagement activities;





#### Overall approach

- Apply mission-guiding principles
- Apply mission clusters
- Synergies with Europe's Beating Cancer Plan
- Total budget 2021-2023: € 365 ...\* \*: reduction Commissioners PG 10%

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

Enhance cancer prevention through behaviour change PORIZON-MISS-2023-CANCEP 01-02

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

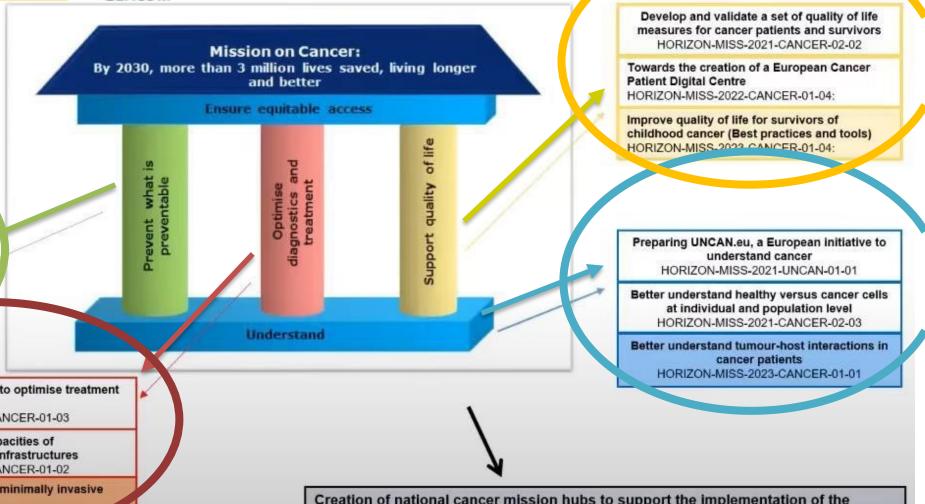
Strengthen research capacities of comprehensive cancer infrastructures HORIZON-MISS-2022-CANCER-01-02

Pragmatic clinical trials minimally invasive diagnostics Hc. 170N-MISS-2023-CANCER-01-03



#### **CLUSTERS of Cancer Mission**





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