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Horizonte Europa Misión Cáncer

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21 de febrero de 2022

Enlaces web en las imágenes

Cancer: the primary cause of death for Europeans under 65

In the European Union

2.7 million new cases and 1.3 million deaths in 2020*

1 in 2 people are estimated to develop cancer during their lifetime

1 in 5 people are estimated to die because of cancer

In 2018, cancer cost to the EU almost **€97 billion**

Knowledge Gateway:
<https://europa.eu/luB47wn>

Up to 40% of cancers can be prevented

The European Union needs **coordinated actions** in the fight against cancer

HORIZONTE EUROPA 2021-2027 (M€, precios corrientes)

95.517

Pilar 1: Ciencia de Excelencia

25.011

Pilar 2: Desafíos Mundiales y Competitividad Industrial Europea

53.516

Pilar 3: Europa Innovadora

13.597

Consejo Europeo de Investigación

16.004

Salud

8.246

Cultura, Creatividad y Sociedad Inclusiva

2.280

Seguridad Civil para la Sociedad

1.596

Acciones Marie Skłodowska-Curie

6.602

Mundo Digital, Industria y Espacio

15.349

Clima, Energía y Movilidad

15.123

Infraestructuras de Investigación

2.406

Alimentación, Bioeconomía, Recursos Naturales, Agricultura y Medio Ambiente

8.952

Centro Común de Investigación (no nucleares)

1.970

Consejo Europeo de Innovación

10.105

Ecosistemas Europeos de Innovación

527

Instituto Europeo de Innovación y Tecnología

2.965

Ampliar la participación y fortalecer el Espacio Europeo de Investigación

3.393

Ampliar la Participación y Difundir la Excelencia

2.955

Reformar y Mejorar el Sistema Europeo de I+D

438

Adaptation to
Climate Change



Cancer



Climate-neutral
and Smart Cities



Restore our
Ocean and Waters



Soil Deal
for Europe



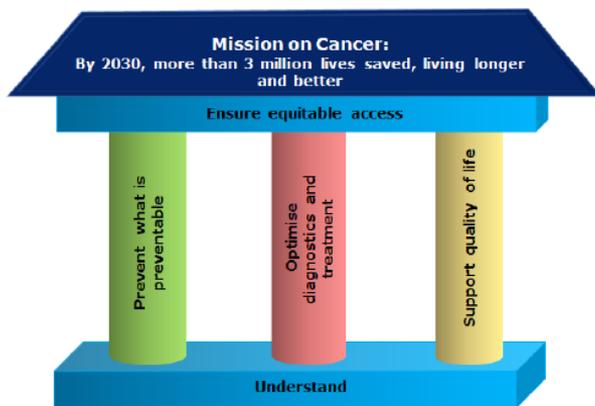
Misiones -> Misión Cáncer

Conquistar el cáncer, misión posible

Para 2030, más de 3M de vidas salvadas, viviendo más y mejor



Sept/2020



Áreas de Intervención:

1. **Comprender**
 2. **Prevenir** lo que es prevenible
 3. Optimizar el **diagnóstico** y el **tratamiento**
 4. Apoyar la **calidad de vida**
 5. Garantizar un **acceso equitativo**
- 13 recomendaciones (acciones)**

Jun/2021



Programa Trabajo 2021-2022 → Acciones preparatorias: UNCAN.eu + otros

Lanzamiento y Plan de Implementación



Sept/2021

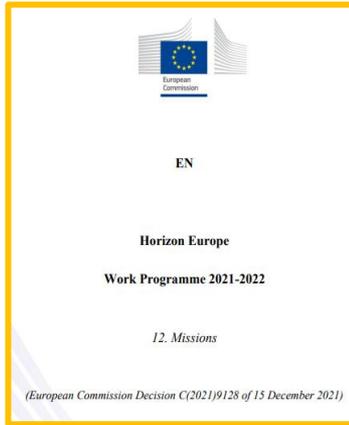
Objetivo: mejorar la vida de más de 3 millones de personas para 2030 mediante la prevención, la curación y para que los afectados por el cáncer, incluidas sus familias, vivan más y mejor

Elementos clave para el éxito:

1. Identificar y explotar resultados de la I+D en cáncer de proyectos financiados UE (H2020) y los países, y acelerar su traslado a la salud pública y la práctica clínica.
2. Establecer una agenda estratégica común de I+D.
3. Crear vínculo sin fisuras entre la I+D y el desarrollo de políticas (nacional y UE).
4. Aumentar la colaboración intersectorial: agentes pertinentes en materia de salud, investigación, innovación, finanzas, ciencias sociales y humanidades.



Implementación: Programa de Trabajo Misiones 2021-2022



CARACTERÍSTICAS: HORIZON-MISS-2021-CANCER-02

- **2021-CANCER-02 ABIERTO**, 2022 Pendiente publicación la actualización
- **Enfoque** estratégico -> **objetivo** IMPACTO/S
- **Financiación:** Hasta 100% Subv. Acciones de Investigación e Innovación (RIAs)
- **Consortios (RIA):** 3 entidades independientes, de 3 Estados UE o Países Asociados distintos (al menos 1 UE) .
- Abierto a **terceros países** (sin € asegurada).
- **Evaluación:** en 1 etapa. **Cierre 26/04/2022**

**Topics I+D
2021**

- Desarrollar nuevos métodos y tecnologías para el cribado y la detección precoz del cáncer.
- Desarrollar y validar un conjunto de medidas de calidad de vida y preferencias de los pacientes y supervivientes de cáncer.
- Comprender mejor el impacto de los factores de riesgo y los determinantes de la salud en el desarrollo y la progresión del cáncer.

Cancer Mission WP2021 topics

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

Closure: **26.04.2022**; Indicative call budget: 60M€; Project size: 4 - 15M€; R&I actions

Aim: Develop and **validate (TRL4)** non-invasive, or minimally invasive cancer screening and detection methodologies for everyday medical practice and population-based screening programmes, including enhanced participation of the target population.

Expected outcomes:

- Healthy citizens and cancer patients will benefit from faster, earlier, more precise, personalised, accessible and affordable screening and early detection of cancer.
- Health care professionals will be able to deliver earlier, faster, more precise screening and early detection of cancer.
- Health policy makers will have the evidence to **review population-based** screening programmes and screening and early detection methodologies in **everyday medical practice**, and to include **new**, evidence-based screening and early detection methods, technologies and solutions.

Cancer Mission WP2021 topics

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

Closure: **26.04.2022**; Indicative call budget: 11 M€; Project size: 11 M€; R&I actions

AIM: Develop a framework of newly defined, harmonised and systematic surveys. To be launched across all countries and reviewed with researchers, care providers, health insurance companies, industry as well as policy makers so that more timely, supportive and affordable care can be provided and relevant policy measures can be taken. **NB duration is up to 2 years**

Expected outcomes:

-
- Cancer patients, survivors and caregivers will benefit from enhanced quality of life, more effective and less burdensome treatments with better supportive care and counselling approaches.
- Health care professionals, supportive workers, counsellors and industry will be better aware of the (unmet) needs.....
- Regulators and institutions will have a set of metrics, which they can include in decision making....
- Health Policy Makers will have a set of metrics at their disposal, which they can include in their health information.... systems.
- Labour market and social protection policy makers will benefit from additional evidence to consider.....

Cancer Mission WP2021 topics

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

Closure: **26.04.2022**; Indicative call budget: 56.65M€; Project size: 4 - 15M€; R&I actions

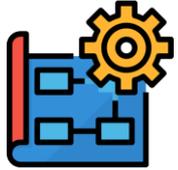
AIM: Boost better understanding of cancer, **new dimension** and level of investment in innovative research, including high-potential, potentially disruptive and high-risk projects.

Expected outcomes:

- Researchers and health professionals will **understand which risk factors and determinants** spur the development and progression of cancer and how.....
- Researchers and innovators from different disciplines and sectors will **support the development of the UNCAN.eu** platform by producing, integrating and correlating comprehensive data from multiple sources (ensuring accessibility and re-usability of data, models and tools created).
- Health Policy Makers use the improved understanding of risk factors and determinants in the design of **cancer-related health policies**.....

Implementación: aspectos a considerar

- ❁ Evaluación propuestas: en función de sus méritos científicos
→ los (sub)criterios de evaluación* = convocatorias HE “estándar”
- ❁ Los solicitantes deben estar en contacto con otras iniciativas financiadas por la UE (si pertinente)
→ e.g. recursos del *Knowledge Centre on Cancer*, complementar acciones de la *Innovative Health Initiative (IHI)*, *EIT Health KIC*, el Programa *Digital Europe* (e.g. Cancer Imaging Initiative, Genomics) y el Programa *EU4Health*
- ❁ Se deben presupuestar actividades de creación de redes
→ Detalles: la CE lo explicará y facilitará durante la preparación de la firma de la subvención; e.g. coste asistencia reuniones, actividades conjuntas....



Acciones previstas 2022

(Intro Misión Cáncer - Programa de Trabajo 2021-2022)



- ➔ Prevention: action on **implementation research on cancer prevention**.
- ➔ Diagnosis and treatment: **clinical trials on treatments**, using personalised medicine approaches and a focus on improving quality of life.
- ➔ Quality of life: support the setting up **the European Cancer Patient Digital Centre** and to further expand on actions addressing unmet needs of cancer patients and survivors.
- ➔ Support the creation of a Network of **Comprehensive Cancer Infrastructures** (CCIs) with a focus on integrating the research dimension.
- ➔ **Create National Cancer related Mission Hubs**, to support the monitoring of the Mission's implementation, citizens engagement and communication.

2021

2022

2023

2024

2025

2026

2027

POLÍTICA EUROPEA Y GLOBAL RELEVANTE PARA I+D+I

Regulación Horizonte Europa (2021-2027)

Plan Estratégico (2021-2024)

Plan Estratégico (2025-2027)?

Programa de Trabajo
2021-2022

Programa de Trabajo
2023-2024

Programa de Trabajo
2025-2027?

Contexto Político

Una UE climáticamente neutra y verde, apta para la era digital.
Unión Europea de la Salud: Preparación y respuesta a las crisis.



... de acuerdo con los **Objetivos de Desarrollo Sostenible** de la ONU



Una Unión Europea de la Salud



Objetivos:

- Proteger mejor la salud de los ciudadanos
- Preparar a la UE y a sus Estados miembros para prevenir mejor y combatir futuras pandemias
- Mejorar la resiliencia de los sistemas sanitarios europeos.

Unión Europea de la Salud: Iniciativas destacadas

European
Health
Union



Medidas de preparación y respuesta ante las crisis, Autoridad Europea de Preparación y Respuesta ante Emergencias Sanitarias (HERA)



Una estrategia farmacéutica para Europa



Plan Europeo de Lucha contra el Cáncer

Plan EU: 4.000 M€ para acciones contra el cáncer

—
**Plan Europeo
de lucha contra
el cáncer**

#EUCancerPlan
#UniónDeLaSalud



Plan EU: 4.000 M€ para acciones contra el cáncer



Reducir el número de personas afectadas por el cáncer a través de 10 iniciativas emblemáticas



Centro de Conocimiento sobre el Cáncer



Diagnóstico y tratamiento del cáncer para todos



Iniciativa Europea de Obtención de Imágenes Oncológicas



Iniciativa Europea para Comprender el Cáncer



Eliminar los cánceres causados por el virus del papiloma humano



Iniciativa «Una vida mejor para los pacientes con cáncer»



Plan de la UE para el cribado del cáncer



Registro de Desigualdades en relación con el Cáncer



Red de la UE de Centros Oncológicos Integrales Nacionales



Iniciativa «Ayudar a los niños con cáncer»

Plan EU: 4.000 M€ para acciones contra el cáncer



Reducir el número de personas afectadas por el cáncer a través de 10 iniciativas emblemáticas

Hoja de ruta de implementación (enero/2022)

Europe's Beating Cancer Plan: Implementation Roadmap* Updated version | January 2022

European Commission 1

PUTTING RESEARCH, INNOVATION AND NEW TECHNOLOGIES AT THE SERVICE OF CANCER PREVENTION AND CARE

ACTION	2021	2022	2023	2024	2025	PROGRESS INDICATOR(S)
1 Create a 'Knowledge Centre on Cancer'	Centre launched (30 June)	Centre operational supporting Cancer Plan and Mission implementation				Centre established in 2021; Number of Knowledge Gateway briefs; Timely delivery of related actions
2 Launch 'European Cancer Imaging Initiative' (ECII)	Preparatory action for ECII: calls for proposals for European Digital Innovation Hubs (EDIHs)	Calls for proposals for Federated European infrastructure for cancer images and for 'Testing and Experimentation Facility in Health' (TEF); ECII officially launched, EDIH project launched	Federated European infrastructure for cancer images project launched; Testing and Experimentation Facilities (TEF) project launched; Collaboration of 'health' EDIHs started	Implementation	Pan-European infrastructure for cancer images established; Artificial Intelligence (AI) and robotics technologies integrated; Sustainable DIHs network established	Number and types/sources of medical images of different cancer types accessible through the Infrastructure; Number of databanks and platforms interconnected; Number of stakeholders using the Federated European infrastructure for cancer images in operational mode
ACTIONS SUPPORTING CANCER PREVENTION AND CARE THROUGH NEW CANCER RESEARCH AND AN INNOVATIVE ECOSYSTEM						
Cancer patients securely accessing and sharing electronic health record through Personal Health	Preparation EHDS legal proposal	EHDS legal proposal adopted				Commission proposal adopted in 2022; Number of countries participating in the sharing of health data

Plan EU: 4.000 M€ para acciones contra el cáncer



Reducir el número de personas afectadas por el cáncer a través de 10 iniciativas emblemáticas

Breakdown of EBCP total funding
(source: [EBCP \(COM\(2021\) 44](#)) - section 9. FUNDING)

Programmes	Overall budget for 2021-2027 (in 2018 prices)	Share of Europe's Beating Cancer Plan	Actions & Initiatives (and comments)
EU4Health	€ 5.1 billion	€ 1.25 billion	EU Mobile App for Cancer Prevention EU Network of Comprehensive Cancer Centres Helping Children with Cancer Better Life for Cancer Patients Knowledge Centre on Cancer EU Inter-specialty Training <i>(non-exhaustive list)</i>
Horizon Europe (HE)	€ 95.5 billion <i>("Health" cluster within HE: € 8,2 billion)</i>	€ 2 billion	Mission on Cancer Other cancer-related research projects, incl. for research infrastructures and the Partnerships
Erasmus+	€ 26 billion	€ 500 million <i>(in total - from all three programmes)</i>	Projects in education, training and research in the field of cancer <i>(the amount of € 500 million is indicative; it reflects the budget of previous cancer-related projects in the period 2014-2020)</i>
European Institute of Innovation and Technology	€ 3 billion		
Marie Skłodowska-Curie actions	around 6.2 billion (not confirmed yet)		
Digital Europe	€ 7.5 billion	€ 250 million	Cancer-related projects Wider digital investments, e.g. electronic data, cybersecurity and digital skills, from which the health sector will benefit
TOTAL		€ 4 billion	

Misión Cáncer: Plan de Implementación

Executive summary	2
1. Introduction	7
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For (physical or digital) infrastructure-related investments, the Mission will mainly rely on the EU4Health programme 2021-2027 and the Digital Europe programme 2021-2027. Cohesion Policy Funds are also expected to contribute in that respect, as well as the JRC's Knowledge Centre on Cancer.

For the research component, including the facilitation and coordination of research activities, of the Mission, Horizon Europe funding and the Horizon Europe partnerships (see below under synergies) will be the main source, complemented by funding from philanthropies and charities as well as contributions of industry through research funding and (potential) fees for use of data.

4. Synergies	27
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6. Mission specific governance	33
7. Monitoring framework.....	36
8. Citizen engagement and Communication strategy.....	37



Acciones del Plan de Implementación (i)



Improve the understanding of cancer	1. Establish the 'UNCAN.eu' platform by 2023 (2021-2023)
	2. 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)

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

Acciones del Plan de Implementación (i)



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3. Develop early predictors/tests (2025-2030)	

Acciones del Plan de Implementación (ii)



Optimise diagnostics and treatment	1. Support the creation of a Network of Comprehensive Cancer Infrastructures (CCIs) by 2025 (2021-2025)
	2. Develop twinning programmes (2024-2028)
	3. Develop a clinical trial programme on diagnostics (2023-2027)
	4. Develop a clinical trial programme on treatments (2022-2023)



Support quality of life	1. Collect and analyse data on today's unmet needs of cancer patients and survivors (2021-2025)
	2. Set up of the European Cancer Patient Digital Centre (2021-2023)
	3. Develop early predictors for quality of life (2024-2030)
	4. Design monitoring programmes for survivors of childhood cancer (2021-2027)

Acciones del Plan de Implementación (ii)



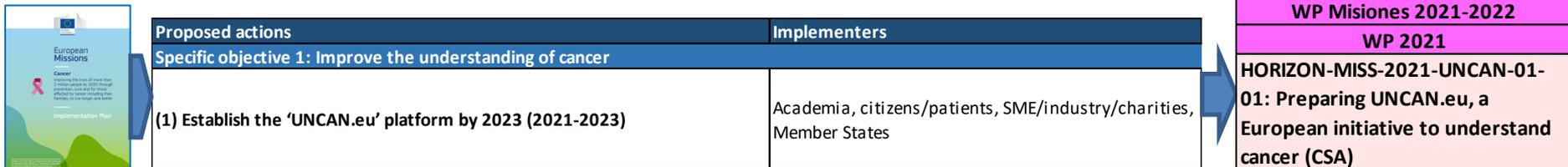
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+ National Cancer related Mission Hubs (2022)

Posibles fórmulas para implementación I+I en cáncer



WP 2021
Update 22

- Programa de Trabajo de las Misiones

- Otras partes de **Horizonte Europa**:

- Clúster Salud -> Topics dirigidos + horizontales/sin patología descrita
-> Asociaciones: IHI, PARC, THCS, etc.
- Otros Clústeres, JRC, ERC, EIC, EIT, INFRA, MSCA....bottom-up approach / dirigidos

Ejemplos topics dirigidos 2021 (Clúster Salud e INFRA):

- HLTH-2021-DISEASE-04-01 (Improved supportive, palliative, survivorship and end-of-life care of cancer patients)
- HLTH-2021-CARE-05-02: Data-driven decision-support tools for better health care delivery and policy-making with a focus on cancer.
- INFRA-EOSC-2021-01-06 (FAIR and open data sharing in support of cancer research),
- INFRA-SERV-2021-01-01 (Research infrastructures services to support research addressing cancer)

Sinergias / Programas que contribuyen: EU4Health, & DIGITAL Europe Programme + Otros

¿Dónde está la I+D+I en Cáncer en HE?

HORIZONTE EUROPA 2021-2027 (M€, precios corrientes)				95.517	
Pilar 1: Ciencia de Excelencia		Pilar 2: Desafíos Mundiales y Competitividad Industrial Europea		Pilar 3: Europa Innovadora	
25.011		53.516		13.597	
Consejo Europeo de Investigación	16.004	Salud	8.246	Consejo Europeo de Innovación	10.105
Acciones Marie Skłodowska-Curie	6.602	Cultura, Creatividad y Sociedad Inclusiva	2.280	Ecosistemas Europeos de Innovación	527
Infraestructuras de Investigación	2.406	Seguridad Civil para la Sociedad	1.596	Instituto Europeo de Innovación y Tecnología	2.965
		Mundo Digital, Industria y Espacio	15.349		
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The following themes may be included in the first IHI calls for proposals:

Single stage calls

• Innovative patient-facing care pathways for patients with neurodegenerative diseases and comorbidities

• **Next generation imaging and image-guided diagnosis and therapy for cancer**

• **Precision oncology: Innovative patient-centric, multi-modal therapies against cancer**

• Access and integration of heterogeneous health data for improved health care in diseases areas of high unmet public health need.

Two stage calls

• New tools for prediction, prevention and monitoring of cardio-metabolic diseases including secondary manifestations to enable timely intervention

• Strengthening EU clinical development excellence and innovation attractiveness: Harmonised methodology to promote the uptake of early feasibility studies (EFS)



Innovative Health Initiative

Prevención, diagnóstico, tratamiento y gestión de enfermedades.

- Conocimientos ► innovaciones.
- Necesidades de salud pública no satisfechas.
- Industria sanitaria europea competitiva.

Partenariados CoFund

COFUND



Chemicals Risk Assessment



Health and Care Systems Transformation



ERA for Health Research



Personalised Medicine



Rare Diseases



One Health/AMR

2021-2022

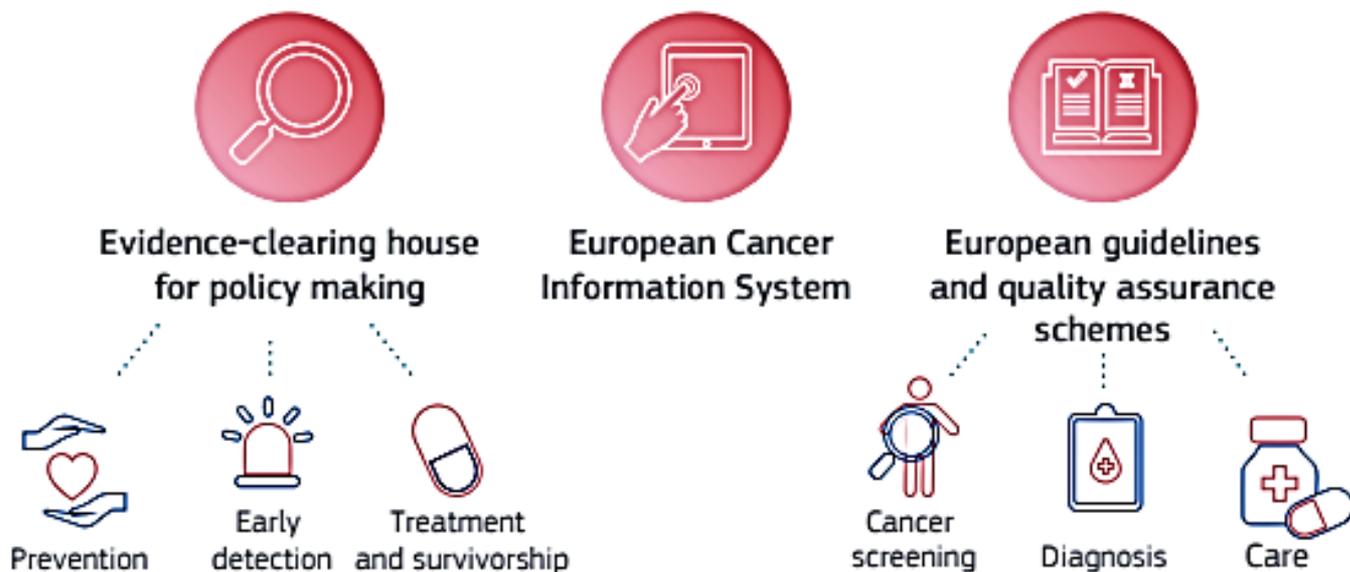
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THE KNOWLEDGE CENTRE ON CANCER

An **independent** data broker **providing support** while expanding the EC's IT systems, gateways, portals, platforms and databases



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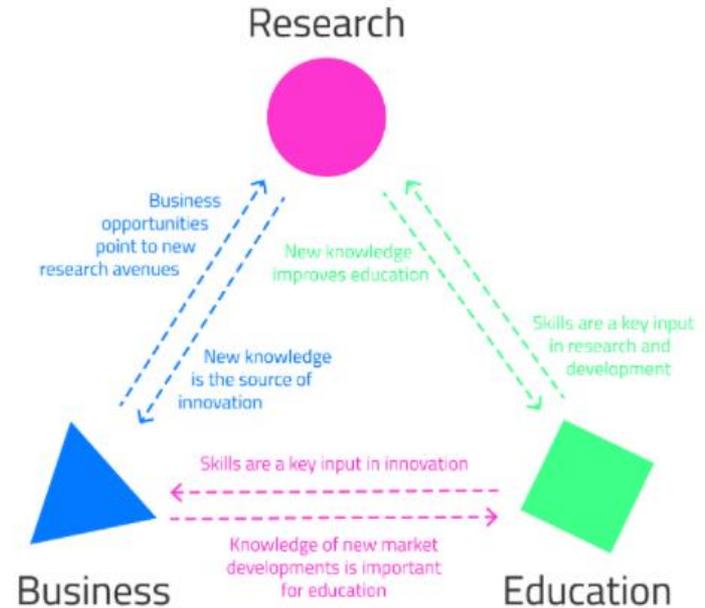
Reformar y Mejorar el Sistema Europeo de I+D

438

EIT HEALTH



EIT Health was established in 2015, as a ‘knowledge and innovation community’ (KIC) of the European Institute of Innovation and Technology (EIT). The EIT is made up of various KICs who each focus on a different sector, or area, of innovation – in our case, that is health and aging. The idea behind the EIT KICs is that innovation flourishes best when the right people are brought together to share expertise. The so called ‘knowledge triangle’, is the principle that when experts from business, research and education work together as one, an optimal environment for innovation is created.

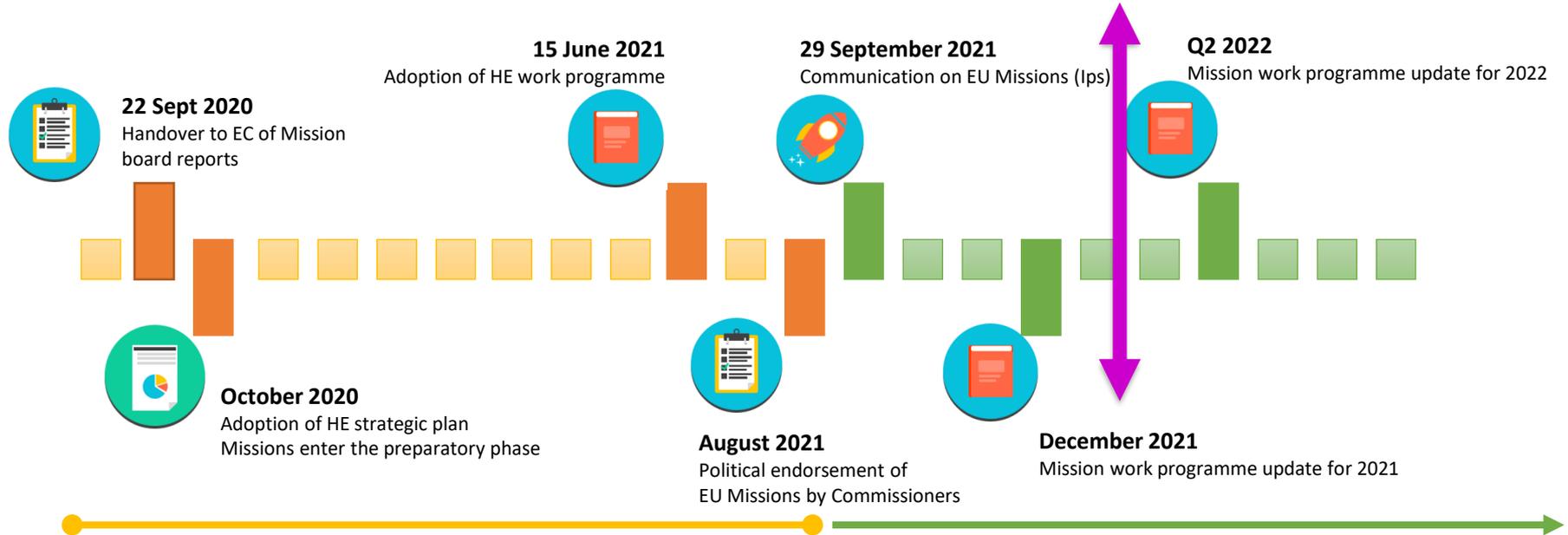


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Acciones Marie Skłodowska-Curie		Cultura, Creatividad y Sociedad Inclusiva		Ecosistemas Europeos de Innovación	
6.602		15.349		527	
Infraestructuras de Investigación		Seguridad Civil para la Sociedad		Instituto Europeo de Innovación y Tecnología	
2.406		15.123		2.965	
		Mundo Digital			
		15.123			
		Recursos Naturales, Agricultura y Medio Ambiente			
		8.952			
		Centro Común de Investigación (no nucleares)			
		1.970			
Ampliar la participación y fortalecer el Espacio Europeo de Investigación			3.393		
Ampliar la Participación y Difundir la Excelencia		Reformar y Mejorar el Sistema Europeo de I+D			
2.955		438			

Misiones: Cancer + otras

Calendario Misiones



Missions' preparatory phase:

Preparation of solid implementation plans
Preparatory actions in the WP to lay foundation for missions' implementation

Missions' implementation phase:

Two Missions work programme amendments (Q4 2021, Q2 2022) to start missions implementation on the ground.

Infoday CE Misiones 18-19/enero



EUROPEAN UNION

Infoday Cancer Mission WP2021

EU MISSIONS
CANCER

Concrete solutions for our greatest challenges

#EUmissions #HorizonEU #MissionCancer

The banner features a photograph of a female doctor in a white coat with a stethoscope around her neck, smiling and placing her hand on the shoulder of a female patient who has a shaved head. The background is a mix of light blue, purple, and green abstract shapes.

09:30 - 09:40

Welcome to the EU Missions Info Days

Julien Guerrier – Director of the Common Policy Centre, DG Research and Innovation

[Watch the recording](#)

09:45 - 12:45

Restore our Ocean and Waters by 2030 Mission

[Watch the recording](#)

[Presentation](#)

14:00 - 15:30

Cancer Mission

[Watch the recording](#)

[Presentation](#)

15:40 - 17:35

Preparing and submitting a successful proposal

[Watch the recording](#)

Presentation: [The Funding & Tenders Portal: what you need to know](#)

Presentation: [Submission and evaluation process](#)

09:00 - 10:30

Adaptation to Climate Change Mission

[Watch the recording](#)

[Presentation](#)

10:45 - 12:45

100 Climate-Neutral and Smart cities by 2030 Mission

[Watch the recording](#)

[Presentation](#)

14:00 - 16:00

A Soil Deal for Europe Mission

[Watch the recording](#)

[Presentation](#)

Dónde encontrar toda la información: PORTAL

ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search:callCode=null;freeTextSearchKeyword=;matc...

European Commission | Funding & tender opportunities | Single Electronic Data Interchange Area (SEDIA)

SEARCH FUNDING & TENDERS | HOW TO PARTICIPATE | PROJECTS & RESULTS | WORK AS AN EXPERT | SUPPORT

Horizon Europe (HORIZON)

Type your Keywords... [Search]

Match whole words only

GRANTS TENDERS

Submission status

Forthcoming Open for submission (3) Closed

Programming period

2021 - 2027 (3)

Horizon Europe (HORIZON)

Programme part

Mission

Mission: Cancer (3)

Funding and tenders (3)

Need help? [Icons] Sort by: Submission status

Better understanding of the impact of risk factors and health determinants on the development and progression of cancer [Call for proposal] [Grant]

HORIZON-MISS-2021-CANCER-02-03

Programme	Horizon Europe (HORIZON)	Status	Open for submission
Type of action	HORIZON Research and Innovation Actions	Deadline model	single-stage
Opening date	22 December 2021	Deadline date	26 April 2022 17:00:00 Brussels time

Develop new methods and technologies for cancer screening and early detection [Call for proposal] [Grant]

HORIZON-MISS-2021-CANCER-02-01

Programme	Horizon Europe (HORIZON)	Status	Open for submission
Type of action	HORIZON Research and Innovation Actions	Deadline model	single-stage
Opening date	22 December 2021	Deadline date	26 April 2022 17:00:00 Brussels time

Develop and validate a set of quality of life and patient preference measures for cancer patients and survivors [Call for proposal] [Grant]

HORIZON-MISS-2021-CANCER-02-02

Programme	Horizon Europe (HORIZON)	Status	Open for submission
Type of action	HORIZON Research and Innovation Actions	Deadline model	single-stage
Opening date	22 December 2021	Deadline date	26 April 2022 17:00:00 Brussels time

Apoyo: Equipo CDTI y NCPs



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¿Preguntas?

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HORIZONTE EUROPA

+ info sobre programas y ayudas
para la
internacionalización de la I+D+I española



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