

HORIZON EUROPE (2021-2027)

EU Research & Innovation Programme

Investing to shape our future

Cluster 1

Health

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Greek Info Day, 14 July 2021



HORIZON EUROPE

Investing to shape our future



purpose driven

impact oriented

value proposition

impact funding

intervention logic

pathway to impact

logframe

input-output-outcome-impact

Horizon Europe (2021-2027)

Introduction – Rationale for a European Framework programme

Horizon Europe structure: constants & novelties

Horizon Europe structure

Strategic Plan

The pathway to impact

The Health Cluster

The Health Cluster

The Health clusters and its 6 Destinations

Funding Opportunities for Health research in 2021

Partnerships in Horizon Europe and Health

The Cancer Mission

What is new in the submission process?

What is new in the evaluation process?

Horizon Europe Budget: €95.5 billion (2021-2027)

The ambitious EU research and innovation framework programme

(including €5.4 billion from NGEU – Next Generation Europe – programme of EU for Recovery from COVID-19 crisis)



fuel EU's **scientific and technological excellence** and the strengthen the European Research Area (ERA)

**Science
& technology**



tackle policy priorities, including **green and digital transitions** and Sustainable Development Goals

Society



boost Europe's **innovation uptake, competitiveness and jobs**

Economy

EU framework programmes proved powerful for research & innovation impact

€1.5 million

Collaborations from more than **150 countries**

3X

more often among **top 1% cited publications** compared to output in Member States

€48.2 million

Directed to coronavirus R&I just **seven days after the first EU case** reported

84%

of investments address Sustainable Development Goals; **30% address climate change**

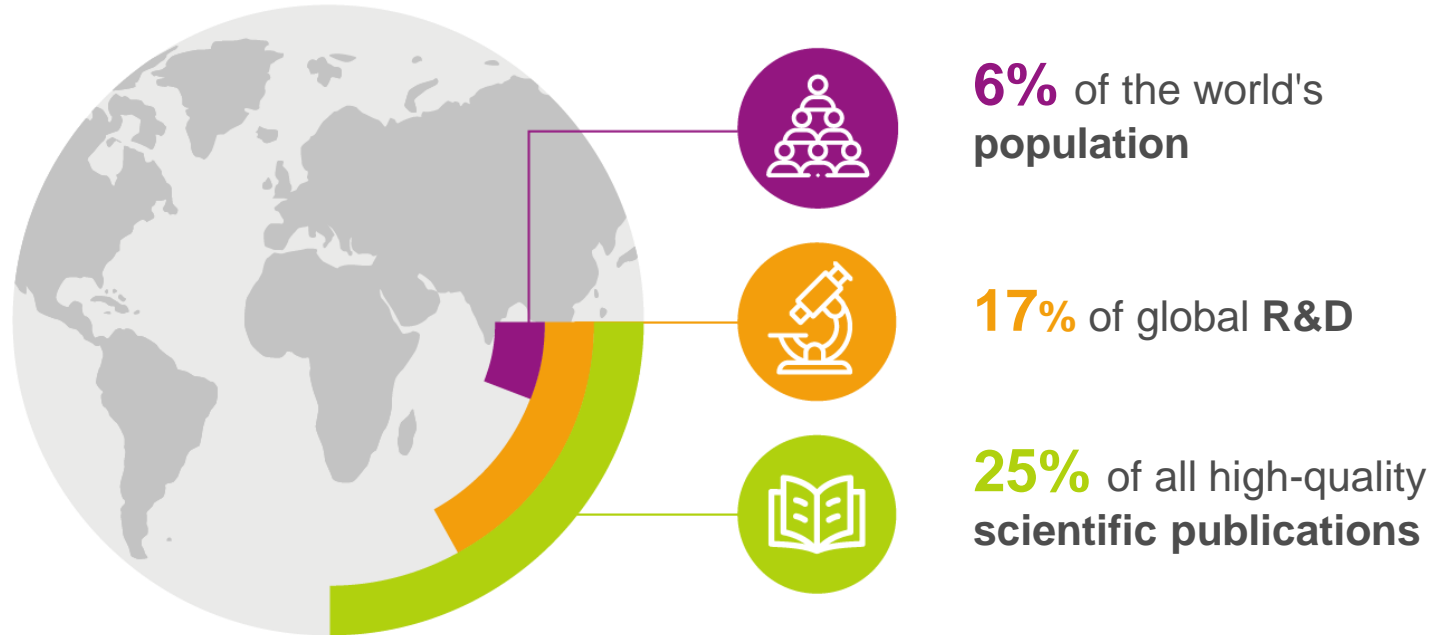
double

the proposals received per year **compared to the previous programme**

19%

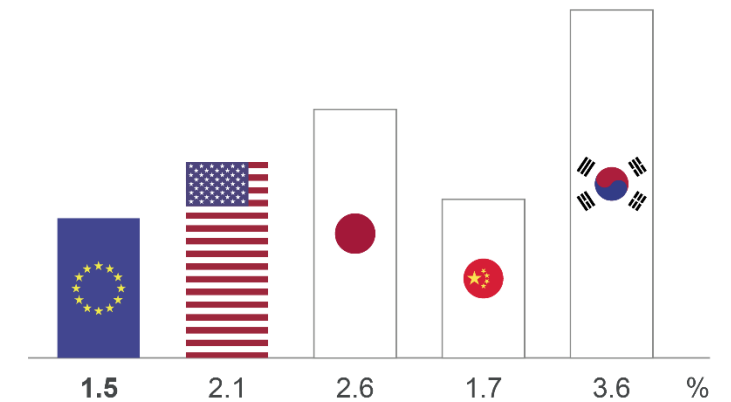
estimated labour productivity increase in funded companies **thanks to the programme***

While benefiting from world-class research and strong industries... Our knowledge and skills are our main resources



...Europe can do better at transforming this into **leadership in innovation** and **entrepreneurship**

1.5% EU business R&D investment



*EU figure is for 2019
Figures for USA, Japan, China and South Korea are for 2018. Figures represent R&D as % of GDP*

Our Vision

The EU's key funding programme for research and innovation:

- Tackles climate change
- Helps to achieve the UN's Sustainable Development Goals
- Boosts the EU's competitiveness and growth
- Facilitates collaboration and strengthens the impact of research and innovation in developing, supporting and implementing EU policies while tackling global challenges
- Supports the creation and better diffusion of excellent knowledge and technologies
- Creates jobs, fully engages the EU's talent pool, boosts economic growth, promotes industrial competitiveness and optimises investment impact within a strengthened European Research Area.



Credits: <https://www.un.org/sustainabledevelopment/sustainable-development-goals/>

Lessons Learned

from Horizon 2020 Interim Evaluation



Support breakthrough innovation



Create more impact through mission-orientation and citizens' involvement



Rationalise partnerships' landscape



Reinforce openness



Strengthen international cooperation



Encourage participation



Key Novelties

in Horizon Europe

European Innovation Council

EU Missions

New approach to partnerships

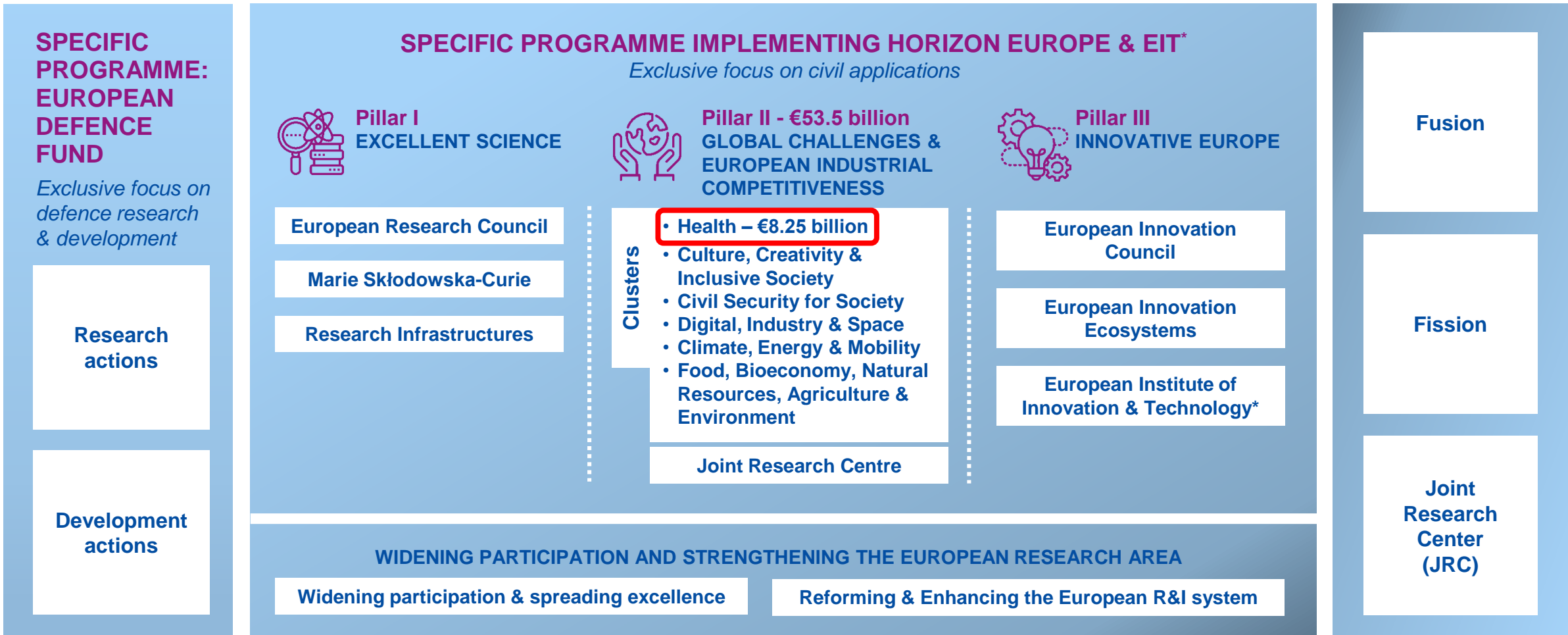
Open science policy

Extended association possibilities

Spreading Excellence

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EURATOM



* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

Pillar II

Budget for clusters & for JRC

in current prices

Cluster 1	Health	€8.246 billion (including €1.35 billion from NGEU)
Cluster 2	Culture, Creativity & Inclusive Societies	€2.280 billion
Cluster 3	Civil Security for Society	€1.596 billion
Cluster 4	Digital, Industry & Space	€15.349 billion (including €1.35 billion from NGEU)
Cluster 5	Climate, Energy & Mobility	€15.123 billion (including €1.35 billion from NGEU)
Cluster 6	Food, Bioeconomy, Natural Resources, Agriculture & Environment	€8.952 billion
	JRC (non-nuclear direct actions)	€1.970 billion

Clusters are including a budget for Partnerships and Missions
NGEU is Next Generation EU programme – Recovery Fund

Horizon Europe – funding modalities

- *Grants to individual researchers/fellows, teams, infrastructures, innovators under Pillar 1 (ERC, MSCA) and Pillar 3 (EIC)*
→ bottom-up open competition
- **Grants to collaborative R&I projects** (Pillar 2, incl. Cluster 1 ‘Health’)
→ top-down open competition by multi/international consortia proposing projects on specific topics in response to calls for proposals
- **Grants to contracting authorities/entities** (Pillar 2, incl. Cluster 1 ‘Health’)
→ for pre-commercial procurement of R&I services and procurement of innovative solutions
- *Partnerships between R&I investors and funders (Pillar 2 and Pillar 3, incl. Cluster 1 ‘Health’)*
- *Missions driven by inspirational goals for impact (Pillar 2, incl. mission on cancer)* ^{update of}
Missions WP 2021-22
- *Synergies with EU4Health, Digital Europe Programme, InvestEU, other*

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Strategic Planning and programming





European Policy for Research & Innovation

Horizon Europe (2021-2027)

Strategic Planning (2021-2024)

Strategic Planning (2025-2027)?

**Work Programme
2021-2022**

**Work Programme
2023-2024**

**Work Programme
2025-2027**

Strategic plan gives direction to the work programme



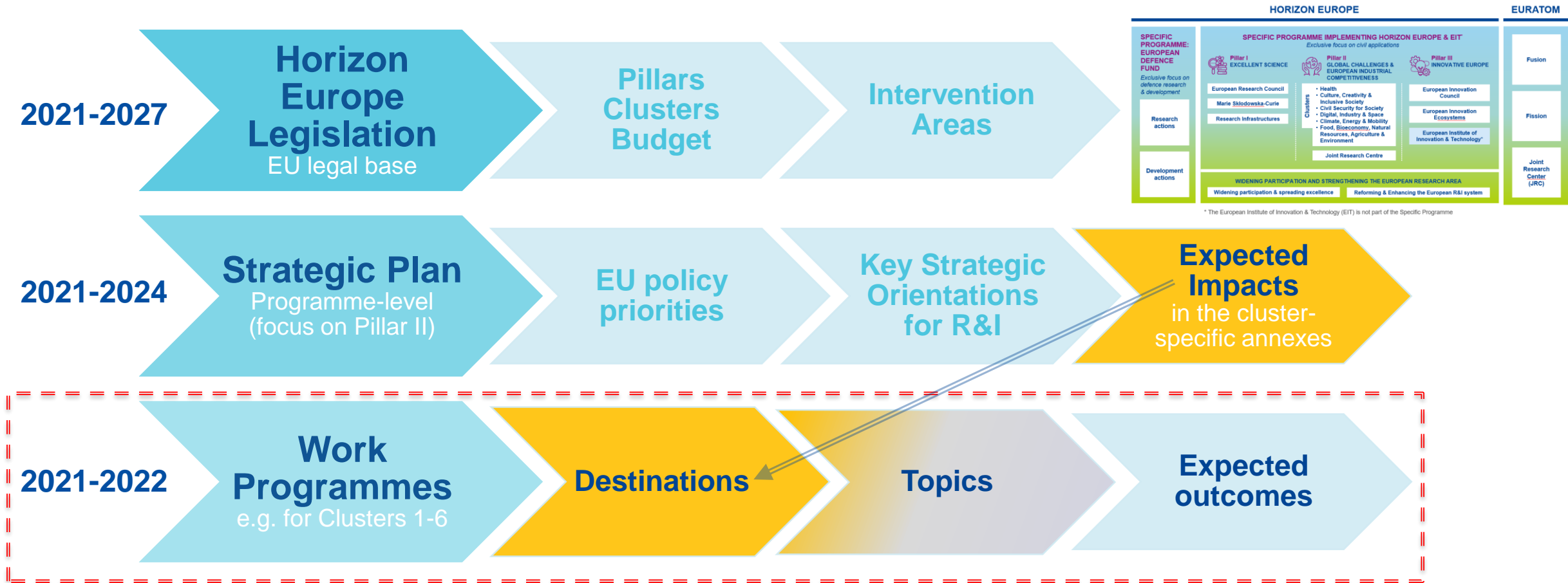
Main Features

Early involvement and extensive exchanges with Member States

Extensive exchanges with the European Parliament

Consultations with stakeholders and public at large

Horizon Europe – impact-oriented funding



HORIZON EUROPE

Pillar II, Cluster 1 'Health'

Intervention Logic



Only the workprogramme text has legal value; the oral presentation is only advisory.

Horizon Europe – Cluster 1 - Health

Aims:

- to contribute to the promotion of social cohesion and inclusiveness and the health and well-being of people.
- to help develop “*an economy that works for people*” by supporting research (and coordination) in order *to make innovative, high-quality health technologies and health care both available and affordable for citizens;*
- and *to make health care systems more accessible and sustainable*, including through the digital transformation of health and care.

CLUSTER 1: Health

Sustainable Development Goals



The Commission ('college' of 27 Commissioners) and its policy departments (32 Directorates- General, 'DGs' or 'Commission services')

Political Guidelines 2019-2024

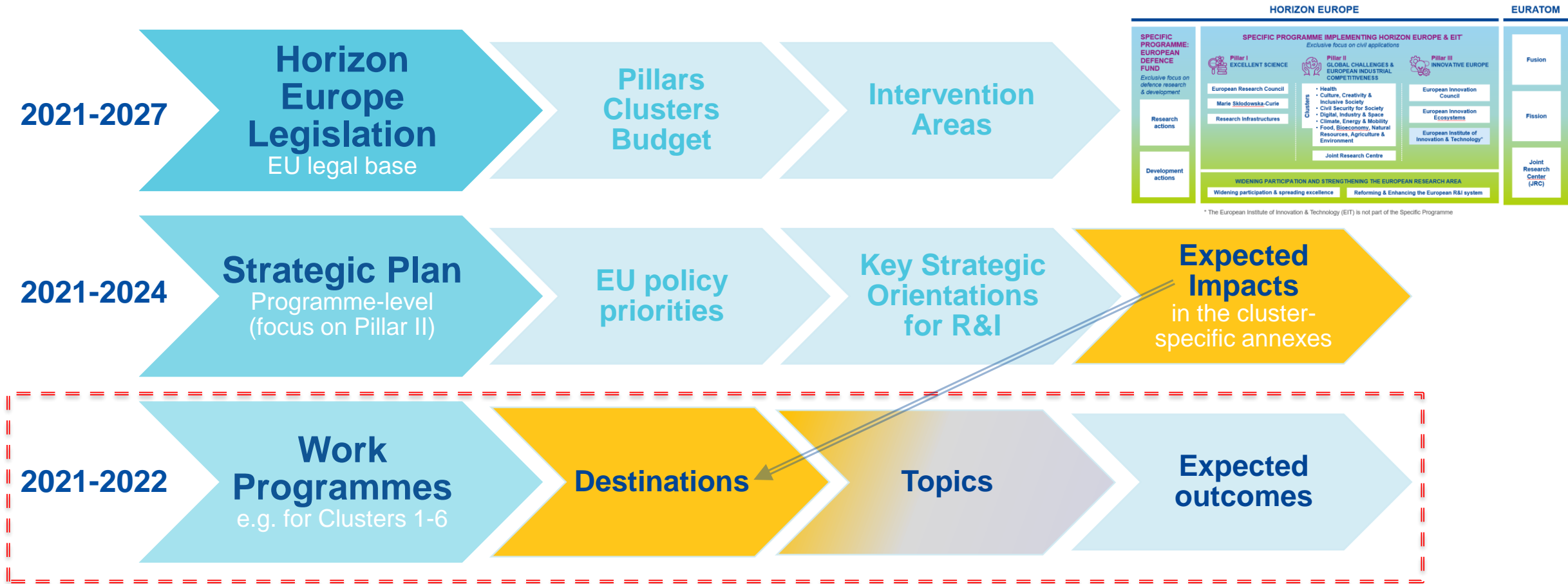
Ursula von der Leyen, Commission President-elect

- *A European **Green Deal***
- *A Europe for the **Digital Age***
- *An Economy that Works for **People***
- *Promote our **European Way of Life***
- *A Stronger **Europe in the World***
- *A New Push for **European Democracy***



**DGs develop, implement and manage EU policy, law,
and funding programmes** (European agencies support and
report to parent-DGs, incl. regulatory agencies like EMA, EFSA)

Horizon Europe – impact-oriented funding



Strategic Planning:

Impact statements/destinations of Cluster 1 'Health

- 1. Staying healthy in a rapidly changing society:** Citizens of all ages stay healthy and independent in a rapidly changing society thanks to healthier lifestyles and behaviours, healthier diets, healthier environments, improved evidence-based health policies, and more effective solutions for health promotion and disease prevention.
- 2. Living and working in a health-promoting environment:** Living and working environments are health-promoting and sustainable thanks to better understanding of environmental, occupational, social and economic determinants of health.
- 3. Tackling diseases and reducing disease burden:** Health care providers are able to better tackle and manage diseases (infectious diseases, including poverty-related and neglected diseases, non-communicable and rare diseases) and reduce the disease burden on patients effectively thanks to better understanding and treatment of diseases, more effective and innovative health technologies, better ability and preparedness to manage epidemic outbreaks and improved patient safety.
- 4. Ensuring access to innovative, sustainable and high-quality health care:** Health care systems provide equal access to innovative, sustainable and high-quality health care thanks to the development and uptake of safe, cost-effective and people-centred solutions, with a focus on population health, health systems resilience, as well as improved evidence-based health policies.
- 5. Unlocking the full potential of new tools, technologies and digital solutions for a healthy society:** Health technologies, new tools and digital solutions are applied effectively thanks to their inclusive, secure and ethical development, delivery, integration and deployment in health policies and health and care systems.
- 6. Maintaining an innovative, sustainable and globally competitive health-related industry:** EU health industry is innovative, sustainable and globally competitive thanks to improved up-take of breakthrough technologies and innovations, which makes the EU with its Member States more resilient and less dependent from imports with regard to the access to and supply of critical health technologies.

Horizon Europe – Cluster 1 „Health“

Strategic Plan 2021-24 ([link](#)) → 6 Expected Impacts

↳ Work Programme 2021-22 ([link](#))

6 “Destinations”

1. Staying healthy in a rapidly changing society
2. Living and working in a health-promoting environment
3. Tackling diseases & reducing disease burden
4. Ensuring access to innovative, sustainable & high-quality healthcare
5. Unlocking the full potential of new tools, technologies and digital solutions for a healthy society
6. Maintaining an innovative, sustainable & globally competitive health industry



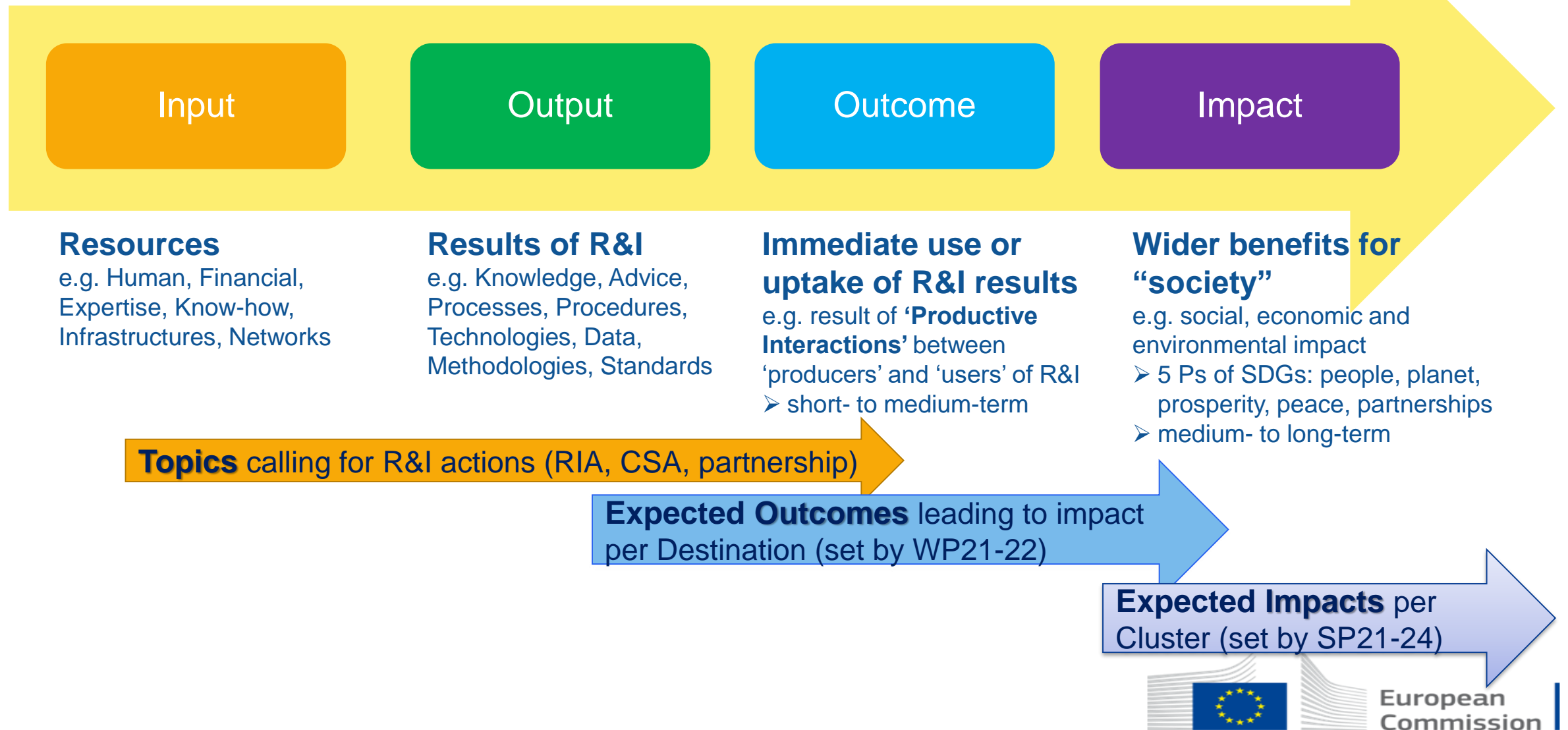
Topics (Calls)

Focus on outcomes contributing to the impacts specified per Destination

Project proposals should

- make a **clear case** (*value proposition*)
- supported by a **convincing trajectory** (*pathway to impact*) for the project proposal to deliver the **output**, promote the **outcome** described in the topic, and contribute to the **impact** expected under that destination.

Horizon Europe – Pathway to Impact



Definitions of terms

Output

Mathematical model
Data (clinical/scientific)

Report on
recommendation for re-
classification of
disease X

Meeting with patient
representatives

Outcome

**Immediate use or uptake
of R&I results**

Biochemical leads for new
drug

Implementation plan
reclassification
of disease X in local hospital

Collaboration with patient
organisation in project
funded by a health
foundation

Outcome

**Immediate use or
uptake of R&I results**

Scientific colleagues in
biochemical / lead
optimization
Departments

Clinical colleagues in local
and national hospital of
disease X departments

Financial colleagues to
adapt the financial plan of
department

Impact

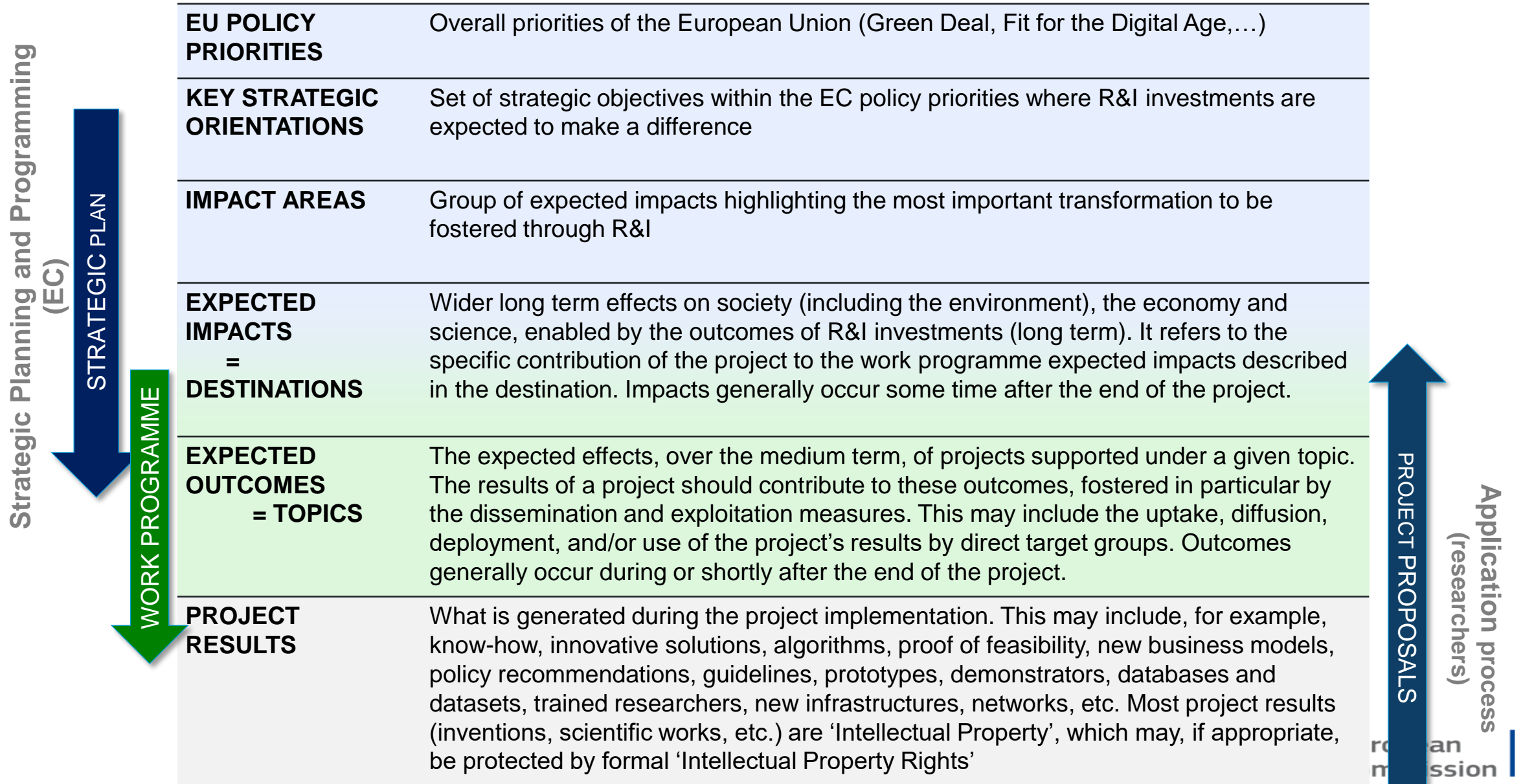
**Wider benefits for
“society”**

Increased life expectancy due
to the use of new drugs

Local/national change of
treatment regime due to
reclassification of disease X

Economic savings in local
hospital

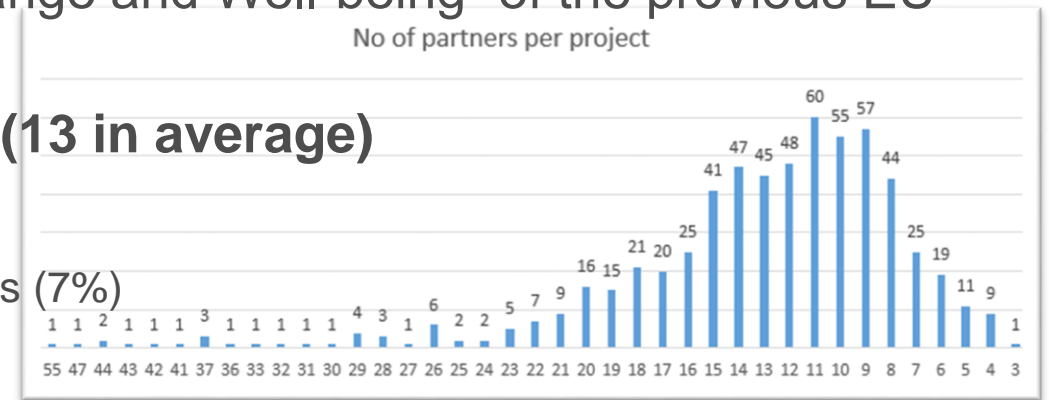
Link between policy priorities and project results



Horizon Europe – Cluster 1 ‘Health’

Some main ‘take aways’:

- Health cluster provides **grant-based funding mainly to collaborative research & innovation projects**, so-called RIAs (other types of funding are Coordination & Support Actions, Programme Co-fund Actions, Innovation Procurement Actions)
- Societal Challenge 1 on “Health; Demographic Change and Well-being” of the previous EU R&I programme, Horizon 2020 (2014-2020):
 - 80% of RIAs had between **7 to 18 participants (13 in average)**
 - 613 projects (RIAs) involving 8143 participants:
from EU Member States (87%), H2020 Associated Countries (7%)
other Third Countries (6%)
 - Type of organisations: Higher or Secondary Education Establishments (42%), Private for-profit entities (23%), Research Organisations (23%), Public bodies (6%), Other (6%).
- **Minimum size of consortia** to be eligible for Horizon Europe: at least {1 MS + 2 MS/AC}
- **Participation is “open to the world”**
- **EU funding is restricted** to entities from EU MS, AC (e.g. NO, IS), some Third Countries (e.g. LMI



Horizon Europe – Cluster 1 ,Health‘

Timelines for first call (WP 21-22, Topics/Calls in 21)

- *Launch of first call with 24 topics* 23 June 2021
- *Closure of call (deadline)* 21 Sept 2021
- *Evaluation and selection* Oct-Dec 2021
- *Informing applicants of shortlisted proposals* Jan-Feb 2022
- *Informing applicants of proposals not retained for funding* Jan-Feb 2022
- *Grant Preparation* Feb-Apr 2022
- *Signature of grants* Apr-May 2022

Horizon Europe – Cluster 1 ,Health‘

Timelines for 2022 calls (WP 21-22)

- *Launch of 2022 calls with 20 topics* *6 October 2021*
- *Opening of “Pandemic” calls (4 topics in WP22 update)* *12 January 2022*
- *Closing of the calls (1st stage of 2-stage deadline)* *1 February 2022*
- *Closing of the calls (2nd stage of 2-stage topics)* *6 September 2022*
- *Closing of the calls (all single stage topics)* *21 April 2022*
- *Evaluation and selection* *3 following months*
- *Signature of grants* *plus 6 months*

Horizon Europe – Cluster 1 „Health“

Cross-cutting issues

- **Ethics and Integrity** remain absolute priorities;
- **Open Science** practices will continue to expand;
- **Social Sciences and Humanities** should continue to be taken into account;
- **International Cooperation** will remain a key feature and opportunity of the framework programme, that is of particularly important for health research.
- **Gender**

Horizon Europe – Cluster 1 „Health“

Cross-cutting issues – Gender

- **integration of the gender dimension** into R&I content is further strengthened, it will become **mandatory** unless indicated as not relevant at topic level.
- **additional provisions** to foster gender equality in organisations;
- having a **gender equality plan** in place will become an eligibility criterion for public bodies, research organisations and higher education institutions.

Towards the launch of Horizon Europe

– budgetary border conditions and issues for Cluster 1

MFF

- at least 50% of budget should contribute to Green and Digital transition/modernisation
- at least 30% of budget should contribute to climate objectives

Horizon Europe

- 10% of Pillar II budget for support to Missions
- 35% of HE budget to contribute to climate objectives
- More investment in digital than under Horizon 2020
- Annual budget allocation not yet fixed

NGEU

- Budget to be committed by 2023, and be paid by 2026
- Topics can be supported partially or fully with NGEU budget
- Topics need to be relevant for the recovery and to overcome the impact of the pandemic

HE Implementation

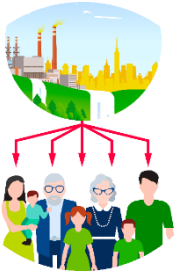
- First calls not before April
- Externalisation of cluster 1 (budget implementation tasks)
- Missions: preparatory phase with decision in Q3/2021
- Europe's Beating Cancer Action Plan in Q1/2021

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Destination 1: Staying healthy in a rapidly changing society



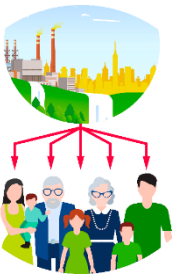
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Destination 1: Staying healthy in a rapidly changing society

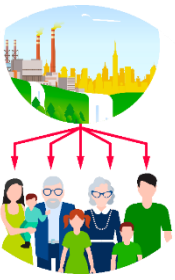
Citizens of all ages stay healthy and independent in a rapidly changing society thanks to healthier lifestyles and behaviours, healthier diets, healthier environments, improved evidence-based health policies, and more effective solutions for health promotion and disease prevention.

- **Key Strategic Orientation:** ‘Creating a more resilient, inclusive and democratic European society’
- **Impact areas:** (broad impact per destination)
 - Good health and high-quality accessible health care
 - High quality digital services for all
 - Sustainable food systems from farm to fork on land and sea
 - Climate change mitigation and adaptation



Destination 1: Staying healthy in a rapidly changing society

- In WP21-22, R&I will focus on major societal challenges: diet and health (obesity), **ageing** and **demographic change**, **digital empowerment** and digital literacy and **personalised prevention**
- R&I should provide new evidences, methodologies and tools for understanding the **transition from health to disease**.
R&I should develop better strategies and **personalised tools** for **preventing diseases** and **promoting health**, including through social innovation approaches
- Specific measures will also be developed to educate and **empower citizens** of **all ages** and **throughout their life**, to play an active role in the **self-management** of their own health and self-care, to the benefit of an active and healthy ageing



Destination 1: Expected impacts

- **Citizens adopt healthier lifestyles and behaviours**, make healthier choices and maintain longer a healthy, independent and active life with a reduced disease burden, including at old ages or in other vulnerable stages of life.
- **Citizens** are able and **empowered** to manage better their own physical and mental health and well-being, monitor their health, and interact with their doctors and health care providers.
- **Citizens' trust in knowledge-based health interventions and in guidance from health authorities is strengthened**, including through improved health literacy (including at young ages), resulting in increased engagement in and adherence to effective strategies for health promotion, diseases prevention and treatment, including increased vaccination rates and patient safety.



Destination 1: Staying healthy in a rapidly changing society - Topics in 2021



- HORIZON-HLTH-2021-STAYHLTH-01-02: **Towards a molecular and neurobiological understanding of mental health and mental illness for the benefit of citizens and patients**
- Closure: **21.09.2021**
- Instrument: RIA
- Tot: 60M€
- Project size: 10M€

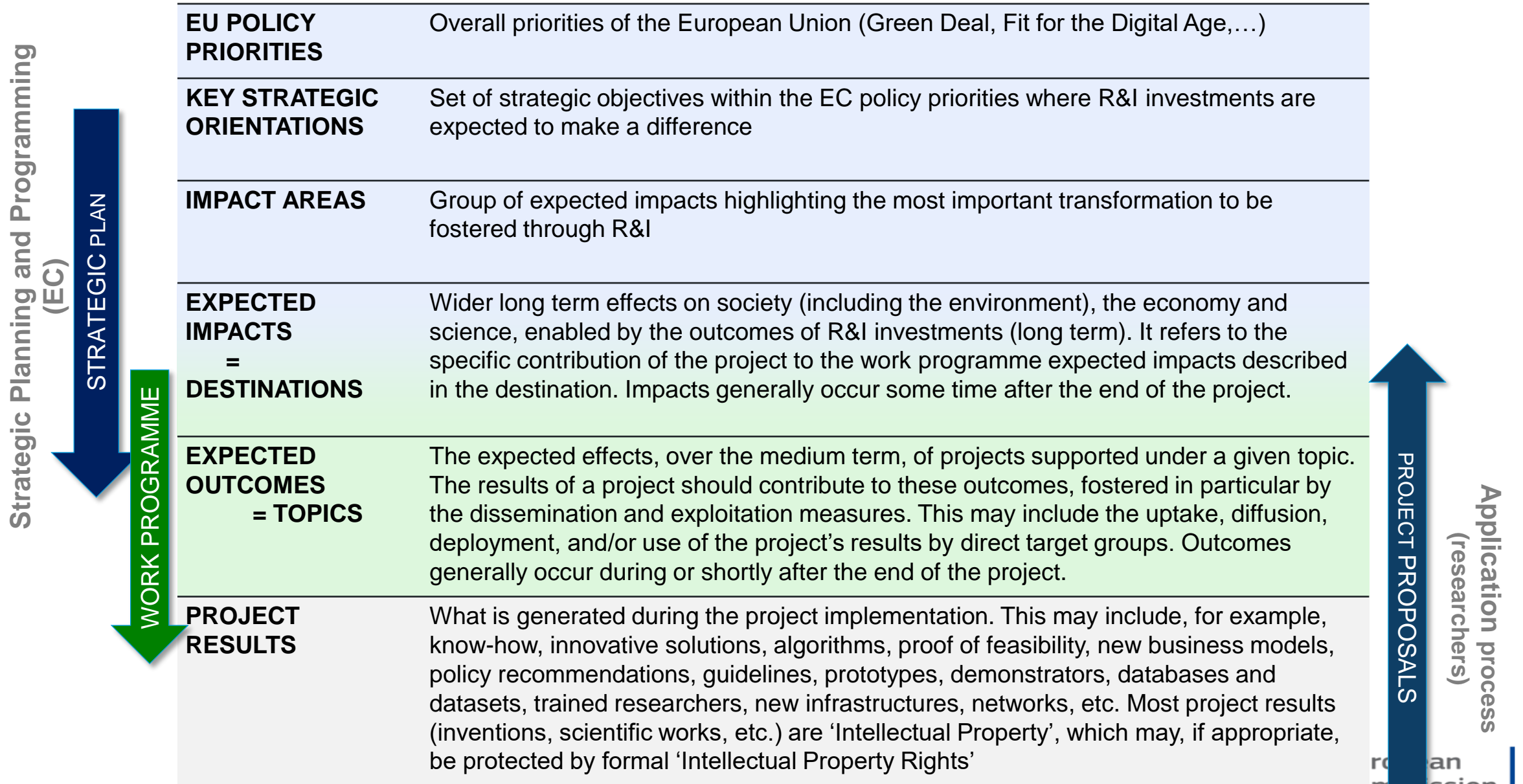


- HORIZON-HLTH-2021-STAYHLTH-01-03: **Supporting digital empowerment and health literacy of citizens**
- Closure: **21.09.2021**
- Instrument: CSA
- Tot: 3M€
- Project size: 3M€



- HORIZON-HLTH-2021-STAYHLTH -01-04: **A roadmap for personalised prevention**
- Closure: **21.09.2021**
- Instrument: CSA
- Tot: 3M€
- Project size: 3M€

Link between policy priorities and project results





Describing the impact of your proposal

Project's pathway towards impact

...by thinking about the specific contribution the project can make to the expected outcomes and impacts set out in the Work Programme.

INPUTS

PROJECT'S RESULTS

DISSEMINATION & EXPLOITATION

PROJECT'S CONTRIBUTION TO THE EXPECTED OUTCOME

PROJECT'S CONTRIBUTION TO THE EXPECTED IMPACT

HE grant, human resources, expertise, etc.

Successful large-scale demonstration trial with 3 airports of an advanced forecasting system for proactive airport passenger flow management

Other project results

Implementation

Work Programme outcome:
"Innovative accessibility and logistics solutions applied by the European Transport sector"

Work Programme impact:
"Seamless, smart, inclusive and sustainable mobility services"

At least 9 European airports adopt the advanced forecasting system that was demonstrated during the project

Other expected outcomes

Effects

Increase max. passenger capacity by 15% and passenger average throughput by 10%, leading to a 28% reduction in infrastructure expansion costs

Other expected impacts



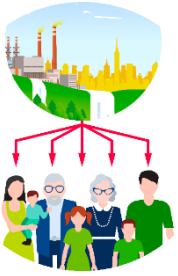
European Commission

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Destination 2: Living and working in a health-promoting environment



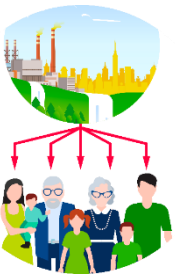
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Destination 2: Living and working in a health-promoting environment

The environment we live and work in is a major determinant of our health and well-being. Environmental factors are estimated to account for almost 20% of all deaths in Europe.

- Destination 2 → filling knowledge gaps in the understanding of the impacts on our health and well-being of those environmental, occupational and socio-economic risk factors that have the most significant or widespread societal impacts.
- Results will support the EU's environment and health policies and overarching policy frameworks such as the European Green Deal, the Chemical Strategy for Sustainability, the Zero Pollution Action Plan and the WHO European Environment and Health Process (EHP).
- International collaboration is welcomed, collaboration between projects encouraged!



Destination 2: Expected impacts

- Policy-makers and regulators are well informed about **environmental, socio-economic and occupational risk and health-promoting factors**
- Environmental, occupational, social, economic, fiscal and health policies and practices at the EU, national and regional level are sustainable and based on **solid scientific evidence**
- The **upstream determinants of disease** - related to choices in energy generation, agricultural practices, industrial production, land use planning, built environment and construction - are known, understood and reduced
- The **health threats and burden** resulting from hazardous chemicals and air, water and soil pollution and contamination is **reduced**, so that the related number of deaths and illnesses is substantially decreased by 2030
- Living and working environments in European cities and regions are **healthier, more inclusive, safer, resilient and sustainable**
- The **adaptive capacity and resilience of populations and health systems** in the EU to climate and environmental change-related health risks is strengthened
- **Citizens' health and well-being is protected** and promoted, and premature deaths, diseases and inequalities related to environmental pollution and degradation are prevented
- **Citizens understand better** environment and health issues, the measures to address them and support related policies and regulations



Destination 2: Living and working in a health-promoting environment - Topics in 2021



- HORIZON-HLTH-2021-ENVHLTH-02-01:
Exposure to electromagnetic fields (EMF) and health
- **Closure: 21.09.2021**
- Tot: 30M€
- Project size: 8M€



- HORIZON-HLTH-2021-ENVHLTH-02-02:
Indoor air quality and health
- **Closure: 21.09.2021**
- Tot: 40M€
- Project size: 8M€



- HORIZON-HLTH-2021-ENVHLTH-02-03:
Health impacts of climate change: costs and benefits of action and inaction
- **Closure: 21.09.2021**
- Tot: 60M€
- Project size: 10M€

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Destination 3: Tackling diseases and reducing disease burden



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Destination 3: Tackling diseases and reducing disease burden

Communicable and non-communicable diseases cause the greatest amounts of premature death and disability in the EU and worldwide.

- Destination 3 → addressing an urgent need for research and innovation to develop new **prevention measures, public health interventions, diagnostics, vaccines, therapies, antimicrobials and their alternatives**, as well as to improve existing prevention strategies to create tangible impacts, taking into account sex/gender-related issues.
- Results will **support the EU's political priorities** such as the **fight against cancer** and other non-communicable diseases (NCDs), better diagnosis and treatment of rare diseases, **preparedness and response to and surveillance of health threats and epidemics**, reduction of the number of **antimicrobial-resistant infections**, improving **vaccination rates**, demographic change, **mental health and digital empowerment** in health literacy.
- **International collaboration** is welcomed, **collaboration between projects** encouraged!



Destination 3: Expected impacts

- **Health burden of diseases in the EU and worldwide is reduced** through effective disease management, including through the development and integration of innovative diagnostic and therapeutic approaches, personalised medicine approaches, digital and other people-centred solutions for health care.
- Premature mortality from NCDs is reduced by one third (by 2030), mental health and well-being is promoted, and the voluntary targets of the WHO Global Action Plan for the Prevention and Control of NCDs 2013-2020 are attained (by 2025), with an immediate impact on the related disease burden (DALYs).
- **Health care systems benefit from strengthened research and innovation expertise**, human capacities and know-how for combatting communicable and non-communicable diseases, including through international cooperation.
- **Citizens benefit from reduced (cross-border) health threat of epidemics and AMR pathogens**, in the EU and worldwide. In particular, the epidemics of AIDS, tuberculosis, malaria and neglected tropical diseases are contained and hepatitis, water-borne diseases and other communicable diseases are being combated.
- **Patients and citizens are knowledgeable of disease threats, involved and empowered to make and shape decisions for their health**, and better adhere to knowledge-based disease management strategies and policies (especially for controlling outbreaks and emergencies).



Destination 3: Topics in 2021

5 Research and Innovation Actions



- HORIZON-HLTH-2021-DISEASE-04-01: **Improved supportive, palliative, survivorship and end-of-life care of cancer patients**
- Closure: **21.09.2021**
- Indicative budget: 50M€
- Project size: 6M€



- HORIZON-HLTH-2021-DISEASE-04-02: **Building a European innovation platform for the repurposing of medicinal products**
- Closure: **21.09.2021**
- Indicative budget: 50M€
- Project size: 25M€



- HORIZON-HLTH-2021-DISEASE-04-03: **Innovative approaches to enhance poverty-related diseases research in sub-Saharan Africa**
- Closure: **21.09.2021**
- Indicative budget: 40M€
- Project size: 8M€



- HORIZON-HLTH-2021-DISEASE-04-04: **Clinical validation of artificial intelligence (AI) solutions for treatment and care**
- Closure: **21.09.2021**
- Indicative budget: 60M€
- Project size: 6M€



- HORIZON-HLTH-2021-DISEASE-04-07: **Personalised medicine and infectious diseases: understanding the individual host response to viruses (e.g. SARS-CoV-2)**
- Closure: **21.09.2021**
- Indicative budget: 60M€
- Project size: 7M€



Destination 3: Topics in 2021

2 Coordination and Support Actions



- HORIZON-HLTH-2021-DISEASE-04-05:
A roadmap towards the creation of the European partnership on One Health antimicrobial resistance (OH AMR)
- Closure: **21.09.2021**
- Indicative budget: 1M€
- Project size: 1M€



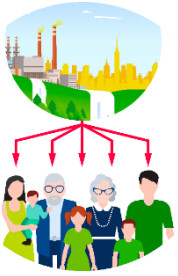
- HORIZON-HLTH-2021-DISEASE-04-06:
Building a European partnership for pandemic preparedness
- Closure: **21.09.2021**
- Indicative budget: 2M€
- Project size: 2M€

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Destination 4: Ensuring access to innovative, sustainable and high-quality health care



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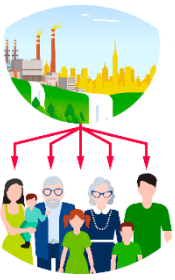


Destination 4: Ensuring access to innovative, sustainable and high-quality health care



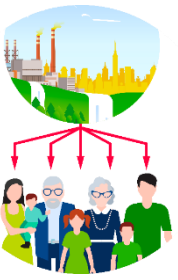
Health care systems provide equal access to innovative, sustainable and high-quality health care thanks to the development and uptake of safe, cost-effective and people-centred solutions, with a focus on population health, health systems resilience as well as improved evidence-based health policies.

- Key Strategic Orientation: *‘Creating a more resilient, inclusive and democratic European society’*.
- ❖ Impact areas:
 - *Good health and high-quality accessible health care;*
 - *A resilient EU prepared for emerging threats;*
 - *Climate change mitigation and adaptation;*
 - *High quality digital services for all;*
 - *A competitive and secure data economy.*



Destination 4: Expected impacts

- **Health and social care systems** have improved **governance mechanisms** and are more **effective, efficient, accessible, resilient, trusted and sustainable**, with **health promotion and disease prevention** being at their heart by shifting from hospital-based to **people-centred health care structures**;
- **Health care providers** are equipped with **skills and competences suited for future needs** and **health care systems** are **modernized, digitally transformed** and **equipped with innovative tools, technologies and digital solutions**;
- **Citizens** are **empowered in their own health management**, **informal carers** are supported and **specific needs of more vulnerable groups** are addressed;
- **Health policy and systems** adopt a **holistic approach** for the evaluation of health outcomes and value of public health interventions, the organization of health care and decision-making;
- **Creation of synergies** with other programmes, e.g. **EU4Health**, through:
 - supporting integration/coordination of work between Member States
 - promoting the implementation of best practices on data-sharing
 - reinforcing the healthcare workforce
 - tackling the implications of demographic challenges
 - advancing digital transformation.



Destination 4: Topics in 2021



- HORIZON-HLTH-2021-CARE-05-01:
Enhancing quality of care and patient safety
- Closure: **21.09.2021**
- Instrument: RIA
- Total: 25M€
- Project size: 5M€



- HORIZON-HLTH-2021-CARE-05-02:
Data-driven decision-support tools for better health care delivery and policy-making with a focus on cancer
- Closure: **21.09.2021**
- Instrument: RIA
- Total: 40M€
- Project size: 10M€



- HORIZON-HLTH-2021-CARE-05-04:
Health care innovation procurement network
- Closure: **21.09.2021**
- Instrument: CSA
- Total: 5M€
- Project size: 5M€

HORIZON EUROPE

Destination 5: Unlocking the full potential of new tools, technologies and digital solutions for a healthy society



Only the workprogramme text has legal value; the oral presentation is only advisory.



Destination 5: Unlocking the full potential of new tools, technologies and digital solutions for a healthy society

Emerging and disruptive technologies offer big opportunities for transforming health care, thereby promoting the health and well-being of citizens.

- Key Strategic Orientation: *‘Promoting an open strategic autonomy by leading the development of key digital, enabling and emerging technologies, sectors and value chains’.*
- Impact areas
 - *High quality digital services for all*
 - *A competitive and secure data-economy,*
 - *Industrial leadership in key and emerging technologies that work for people,*
 - *Good health and high-quality accessible health care,*



Destination 5: Expected impacts

- Europe's scientific and technological expertise and know-how, as well as its capabilities for innovation is world class;
- Citizens benefit from targeted and faster research resulting in safer, more efficient, cost-effective and affordable tools, technologies and digital solutions;
- The EU gains high visibility and leadership in terms of health technology development, including through international cooperation;
- The burden of diseases in the EU and worldwide is reduced;
- Both the productivity of health research and innovation, and the quality and outcome of health care is improved.



Destination 5: Topics in 2021



- HORIZON-HLTH-2021-TOOL-06-01: **Smart medical devices and their surgical implantation for use in resource-constrained settings**
- Closure: **21.09.2021**
- Instrument: IA
- Total: €25M
- Project size: €6M



- HORIZON-HLTH-2021-TOOL-06-02: **Next generation advanced therapies to treat highly prevalent and high burden diseases with unmet medical needs**
- Closure: **21.09.2021**
- Instrument: RIA
- Total: 60M
- Project size: €6M



- HORIZON-HLTH-2021-TOOL-06-03: **Innovative tools for use and re-use of health data (in particular of electronic health records and/or patient registries)**
- Closure: **21.09.2021**
- Instrument: RIA
- Total: €30M
- Project size: €8M

HORIZON EUROPE

Destination 6: Unlocking the full potential of new tools, technologies and digital solutions for a healthy society



Only the workprogramme text has legal value; the oral presentation is only advisory.



Destination 6: Maintaining an innovative, sustainable and globally competitive health industry

The health industry is a key driver for growth and has the capacity to provide health technologies to the benefit of patients and providers of health care services.

- **Key Strategic Orientation:** *‘Promoting an open strategic autonomy by leading the development of key digital, enabling and emerging technologies, sectors and value chains’.*
- **Impact areas**
 - *A competitive and secure data-economy,*
 - *Industrial leadership in key and emerging technologies that work for people,*
 - *High quality digital services for all,*
 - *Good health and high-quality accessible health care,*



Destination 6: Expected impacts

- Health industry (including SMEs) is more competitive and sustainable, assuring EU leadership and strategic autonomy in medical supplies and digital technologies.
- Health industry is working more efficiently along the value chain.
- European standards ensuring safety and quality of healthcare, as well as effectiveness and interoperability of health innovations.
- Swift uptake of innovative health technologies and services.
- Reliable and timely access to key manufacturing capacity (e.g. vaccines and medical radioisotopes).



Destination 6: Topics in 2021



- HORIZON-HLTH-2021-IND-07-01:
Green pharmaceuticals
- Closure: **21.09.2021**
- Instrument: RIA
- Total: €40M
- Project size: €8M



- HORIZON-HLTH-2021-IND-07-02:
Development, procurement and responsible management of new antimicrobials
- Closure: **21.09.2021**
- Instrument: CSA
- Total: €2M
- Project size: €2M



- HORIZON-HLTH-2021-IND-07-0:
Promoting a trusted mHealth label in Europe: uptake of technical specifications for quality and reliability of health and wellness apps
- Closure: **21.09.2021**
- Instrument: CSA
- Total: €2M
- Project size: €2M

HORIZON EUROPE

What is new in the submission process?





Eligibility

Consortium composition (collaborative projects)

- at least one independent legal entity established in a Member State, and
- at least two other independent legal entities each established either in a different Member State or an Associated Country.

Gender Equality Plan (applicable only from 2022 on)

Participants that are public bodies, research organisations or higher education establishments from Members States and Associated countries **must have a gender equality plan**, covering minimum process-related requirements.

- A self-declaration will be requested at proposal stage (for all types of participants).
- Included in the entity validation process (based on self-declaration)

Who is eligible for funding?



EU COUNTRIES

- Member States (MS) including their outermost regions
- The Overseas Countries and Territories (OCTs) linked to the MS.



NON-EU COUNTRIES

- Countries associated to Horizon Europe (AC)
- Low and middle income countries: See [HE Programme Guide](#).
- Other countries when announced in the call or exceptionally if their participation is essential



SPECIFIC CASES

- Affiliated entities established in countries eligible for funding.
- EU bodies
- International organisations (IO):
 - International European research organisations are eligible for funding.
 - Other IO are not eligible (only exceptionally if participation is essential)
 - IO in a MS or AC are eligible for funding for Training and mobility actions and when announced in the call conditions

Associated Countries



For the purposes of the eligibility conditions, applicants established in Horizon 2020 Associated Countries or in other third countries negotiating association to Horizon Europe will be treated as entities established in an Associated Country, if the Horizon Europe association agreement with the third country concerned applies at the time of signature of the grant agreement.

Specific situation of UK





- The UK is expected to soon become an associated country to Horizon Europe. UK entities can take part in the first calls for proposals of Horizon Europe
- The UK is associating to the full Horizon Europe programme with the only exception of the EIC Fund (which is the loan/equity instrument of the EIC).

Horizon Europe – 49 European Partnerships

Partnerships

- Strategic Plan identifies 49 co-programmed and co-funded partnerships:
 - public-public;
 - public-private;
 - global initiatives.
- EC proposals for 10 institutionalised partnerships based on Art 185/187 (23 Feb 2021, [link](#))
- [link](#) to HE partnerships website



-  Institutionalised Partnerships (Art 185/7)
-  Institutionalised Partnerships / EIT KICs
-  Co-Programmed
-  Co-Funded

* Calls with opening dates in 2021-22

** Calls with opening dates in 2023-24

Innovative Health Initiative

- IHI builds on its predecessor, the Innovative Medicines Initiative (IMI), but has a significantly broadened scope, enlarged partner composition and revised objectives:
 - ✓ Integrating various technologies (pharmaceutical, medtech, biotech, imaging, vaccines) for better prevention, diagnosis and treatment;
 - ✓ Better responding to public health needs;
 - ✓ Better addressing the requirements of patients and health care professionals;
 - ✓ More openness to new ideas from external stakeholders.
- The new partner composition addresses the main finding of IMI2 interim evaluation: **“enable the active engagement of other industry sectors with the pharmaceutical industry to capitalise on their expertise in the development of new health care interventions”**.
- Cross-sectoral collaboration will be at the heart of IHI.

Disclaimer: pending the outcome of the ongoing legislative process – some of these elements may change

Specificities of IHI

- Partnership between the **EU and 4 health industry associations** (COCIR, MedTech Europe, EFPIA including Vaccines Europe, EuropaBio)
- **Budget of 2.4 billion EUR:** EU contribution up to 1.2 billion EUR and similar commitment from industry (mostly in-kind in projects) and contributing partners (usually charities or other companies)
- Operates in the **precompetitive** space (see SBA Art. 123.2: actions may include **clinical studies** where the targeted area or the intended use represents an unmet public health need, significantly affecting or threatening the Union's population)
- Governance adapted to better incorporate views of various stakeholders involved in health care:
 - State Representative Group (SRG)
 - Innovation Panel (instead of a Scientific Committee) that will involve end-users: patients, health care practitioners and providers, regulators, ... → all stakeholders able to propose topic ideas

Current and next steps

- Legislative process
 - Single Basis Act (SBA): negotiations with the Council Research Working Party ongoing
 - Formal adoption of the SBA might be possible in November
- KPIs / monitoring framework
- Daily operations of IHI, call process, governance bodies setting-up...
- Strategic Research and Innovation Agenda: published
- First call: under preparation

Disclaimer: pending the outcome of the ongoing legislative process – some of these elements may change

European Partnership on Transforming Health and Care Systems (THCS)

State of play (June 2021)

Contact

Commission services: RTD-HS-PARTNERSHIP@ec.europa.eu

Partners (main contact): Drafting Group of Member State representatives:
THCSpartnership@gmail.com

[Draft proposal](#) (June 2020)

European Partnership on Transforming Health and Care Systems (THCS)

Proposed under Destination 4: Ensuring access to innovative, sustainable and high-quality health care in the EU

Key problem drivers:

- Demographic changes.
- Poor uptake of technological innovations.
- Climate changes, environmental factors and globalisation.
- Changes in political and social landscape.

The opportunity offered by the THCS co-funded partnership:

To pool a critical mass of European/national/regional scientific resources to research, develop and test organisational, service and policy innovations. The context-specific knowledge and evidence will inform health policies and facilitate uptake of innovations, as well as their scaling-up and transfer to other countries and regions.

European Partnership on Transforming Health and Care Systems (THCS)

The proposal document has been developed by the Drafting Group (BE, ES, FR, IT, LV, NL, NO, AT, PL, CH, SE, FI) in collaboration with the EC (RTD, SANTE, CNECT, ECFIN).

The partnership partly builds on previous EU initiatives, in particular TO-REACH, AAL2, JPI MYBL and EIP on AHA.

The regional dimension is relevant and important for H&C systems in Europe, and for this partnership.

Current status and future steps:

- **Topic in WP 2021-2022 (year 2022).**
- The proposal document is available on the HE webpage: planned for 7 years, estimated budget of 300 million EUR, including EC contribution of 100 million EUR.
- Commitment from countries expected by **15 October**.
- **Tentatively 21 countries** have confirmed a commitment of almost 250 mn Euro (in cash and in-kind).

Partners and stakeholders

Partners composition



Activities to be funded



Horizon Europe – 5 Missions Areas



Adaptation to climate change, including societal transformation



Cancer



Healthy oceans, seas, coastal & inland waters



Climate-neutral & smart cities



Soil health & food

Mission on Cancer

- 5 intervention areas (+ cross-cutting actions)

Goal: by 2030, more than 3 million lives saved, living longer and better



- 13 recommendations for bold actions ([link](#) to Reports of the Mission Boards)

Mission on Cancer – update

	Actions
15 June 2021	Adoption of WP Missions 2021-2022 and opening of calls
05 July 2021	Meeting of Strategic Programme Committee (SPC)
20 July 2021	Meeting of Cluster 1 – Health Programme Committee
31 August 2021	Meeting of Strategic Programme Committee
Sept. 2021	Joint meeting of SPC and Health P
15 Sept. 2021	Meeting of Strategic Programme Committee
23 Sept.	4 th Meeting of SGPP cancer subgroup
End Sept. 2021	Adoption of Communication on Missions (final decision on full implementation)
End Dec. 2021	Adoption of amendment to WP 2021-2022

INAUGURAL MEETING: Stakeholder Contact Group for Europe's Beating Cancer Plan

28 May 2021,
10.30 – 12.30 CET,
BRUSSELS TIME

#EUCancerPlan #HealthUnion

With the Europe's Beating Cancer Plan in place, the European Commission has taken a major step towards a new era in cancer prevention, diagnosis, treatment and care. Decisive and swift action is now needed to put its policy objectives, flagship initiatives and supportive actions in place.

Governments and public health authorities play a vital role in this but cannot address the increasing challenges associated with cancer alone. A strong commitment of the wider stakeholder community is vital.

In order to support the Member States in the implementation of the Cancer Plan and monitoring of its actions, the European Commission has established a **Stakeholder Contact Group** under the Commission's Health Policy Platform. This will be the forum for discussion and engagement with all relevant stakeholders on cancer prevention and care.

The Commission invites you to the first meeting of the Stakeholder Contact Group, taking place on Friday 28 May from 10:30 until 12:30, with participation of Stella Kyriakides, European Commissioner for Health and Food Safety. The success of the Cancer Plan will depend on strong collaboration and genuine partnerships.

Supporting documents:

[Live webinars privacy statement](#)

Register now following this link:

<https://ecconf.webex.com/ecconf/onstage/g.php?MTID=e1f70187fb1cbbd462ae4982c309e24a4>

We are looking forward to welcoming you online.

The EU Health Policy Platform team



European Commission

Directorate-General for Health and Food Safety
Unit C2: Health information and integration in all policies
L-2557 Luxembourg

Synergies with other Union programmes

HORIZON EUROPE			
Other Union Programmes, including			
Common Agricultural Policy	InvestEU	ESF+	Innovation Fund
External Instrument	LIFE	Digital Europe	Internal Security Fund and Instrument for Border Management
Maritime & Fisheries Fund	EU4Health	Space Programme	Single Market Programme
Connecting Europe Facility	ERDF	ERASMUS+	Recovery and Resilience Facility
Just Transition Mechanism		Creative Europe	

Enhanced synergies

COMPATIBILITY

Harmonisation of funding rules; flexible co-funding schemes; pooling resources at EU level

COHERENCE & COMPLEMENTARITY

Alignment of strategic priorities in support of a common vision

HORIZON EUROPE

What is new in the evaluation process?





Evaluation (award) criteria

Same criteria as in H2020

Same three award criteria: '**Excellence**', '**Impact**' and '**Quality and efficiency of the implementation**'. Excellence only for ERC.

Adapted following lessons learnt

- The number of '**aspects to be taken into account**' have been **reduced**, ensuring that the same aspect is not assessed twice
- **Open Science** practices assessed as part of the scientific methodology in the excellence criterion
- **New approach to impact**: Key Impacts Pathways (KIPs)
- The assessment of the **quality of applicants** is assessed under 'implementation', rather than as a separate binary assessment of operational capacity
- Assessment of **management structures** has been removed.



Evaluation criteria (RIAs and IAs)

EXCELLENCE

- ✓ Clarity and pertinence of the **project's objectives**, and the extent to which the proposed work is ambitious, and goes beyond the state-of-the-art.
- ✓ Soundness of the proposed **methodology**, including the underlying concepts, models, assumptions, interdisciplinary approaches, appropriate consideration of the **gender dimension** in research and innovation content, and the quality of **open science practices** including sharing and management of research outputs and engagement of citizens, civil society and end users where appropriate.

IMPACT

- ✓ Credibility of the **pathways** to achieve the expected **outcomes and impacts** specified in the work programme, and the likely scale and significance of the contributions due to the project.
- ✓ Suitability and quality of the **measures to maximize expected outcomes and impacts**, as set out in the dissemination and exploitation plan, including communication activities.

QUALITY AND EFFICIENCY OF THE IMPLEMENTATION

- ✓ Quality and effectiveness of the **work plan**, assessment of risks, and appropriateness of the effort assigned to work packages, and the resources overall.
- ✓ Capacity and role of each **participant**, and extent to which the **consortium** as a whole brings together the necessary expertise.

Proposals aspects are assessed to the extent that the proposed work is within the scope of the work programme topic

HORIZON EUROPE

Points to consider when writing a proposal in HE



Key principles



Your proposed work must be within the scope of a work programme topic



You need to demonstrate that your idea is ambitious and goes beyond the state of the art



Your scientific methodology must take into account interdisciplinary, gender dimension and open science practices.



You should show how your project could contribute to the outcomes and impacts described in the work programme (the pathway to impact)



You should describe the planned measures to maximise the impact of your project ('plan for the dissemination and exploitation including communication activities')



You should demonstrate the quality of your work plan, resources and participants

Horizon Europe – Cluster 1 „Health“

Keep informed. Get involved.

- Register to receive the latest updates of developments.
- Reach out to National Contact Points..
- Become an independent evaluator for HE proposals

ALL this can be done via **EC portal for *Funding & Tenders Opportunities***.

<https://ec.europa.eu/info/funding-tenders/opportunities/portal>

General information on Horizon Europe: <https://ec.europa.eu/info/horizon-europe>

You can also follow us on Twitter @EUScienceInnov





Thank you!

#HorizonEU

<http://ec.europa.eu/horizon-europe>



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