

eur@PLANET 2024
Research Infrastructure

eur@PLANET
SOCIETY

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Horizon Europe What is in it for me?

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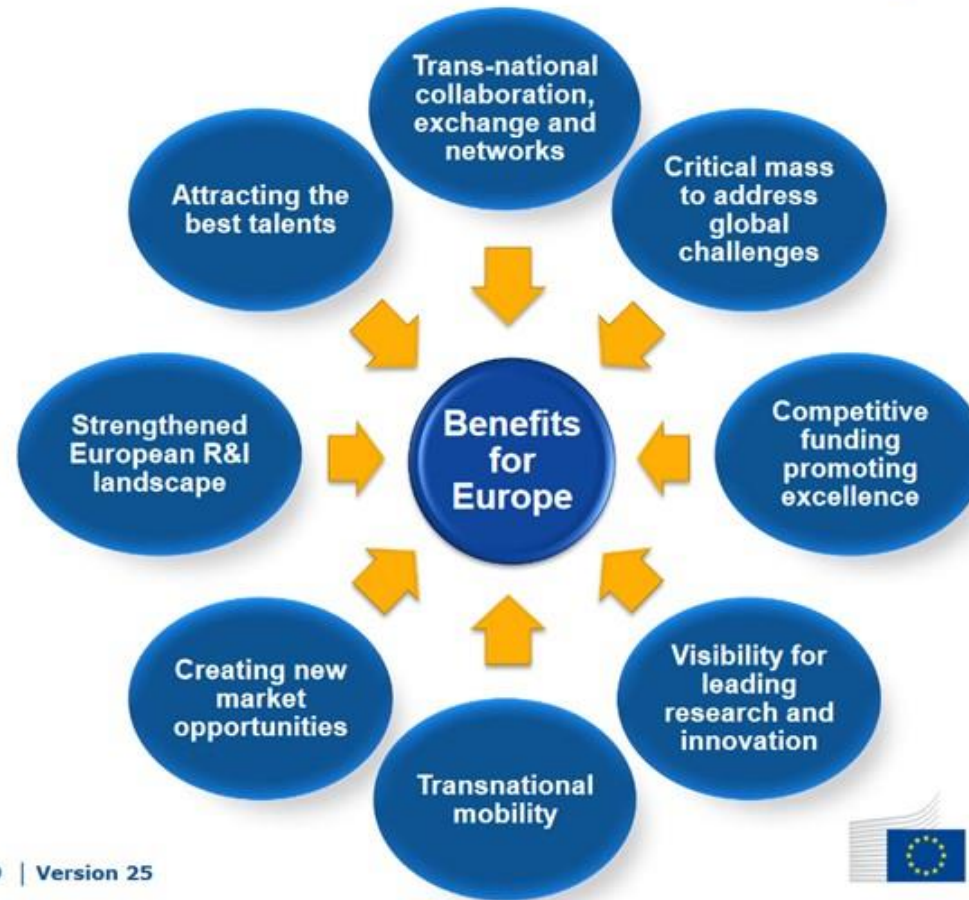
HORIZON EUROPE

Horizon Europe – What is it?

- It is the European Commission's € 95.5 billion research and innovation funding programme for seven years (2021-2027).
- to strengthen the EU's scientific and technological bases.
- to boost Europe's innovation capacity, competitiveness and jobs.
- to deliver on citizens' priorities and sustain our socio-economic model and values.

Horizon Europe – why?

Added value through Horizon Europe:

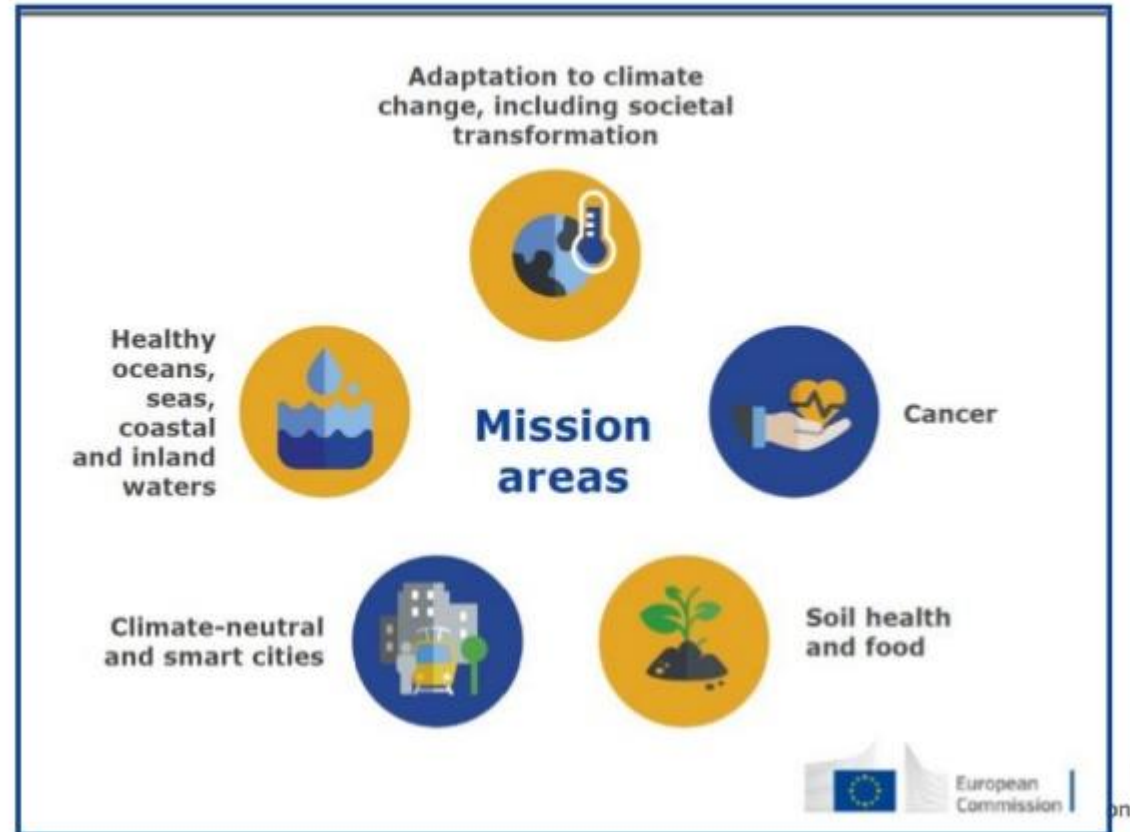


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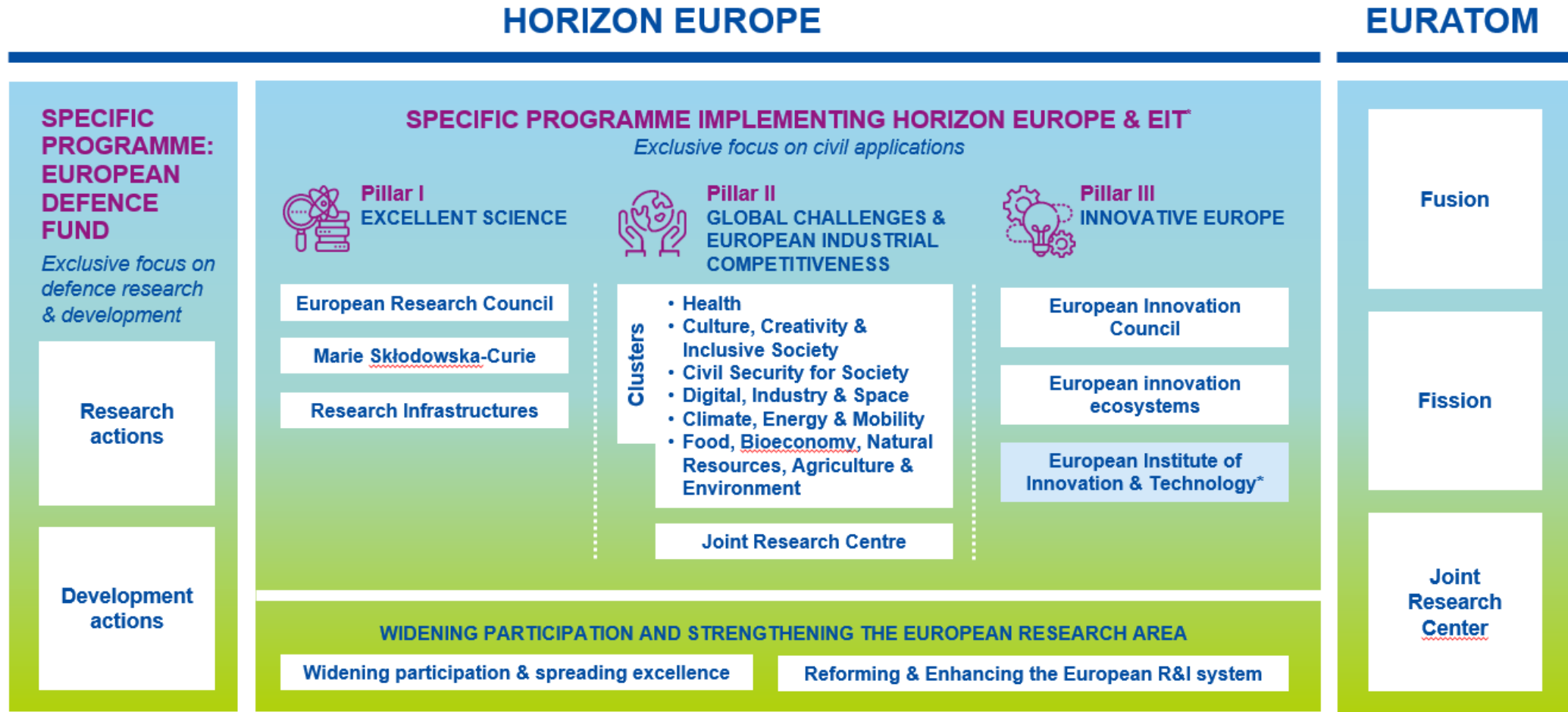


Horizon Europe – The Landscape **Missions**

Horizon Europe – Mission areas



Horizon Europe - The landscape Programmes



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

Horizon Europe – The politics

- This is a political as well as research orientated programme.
- With perhaps exception of ERC all programmes have (political) strategic aims placed within the key objectives of the programme.
- Writing EC bids is NOT like writing to most National or pure scientific calls, you must understand and address the ‘strategic’ aims as well as the Science.
- Thus excellence in Science is not enough to get funding. *This is the difficult part and comes with experience – ask for help.*

Horizon Europe: investing in R&I to shape our future

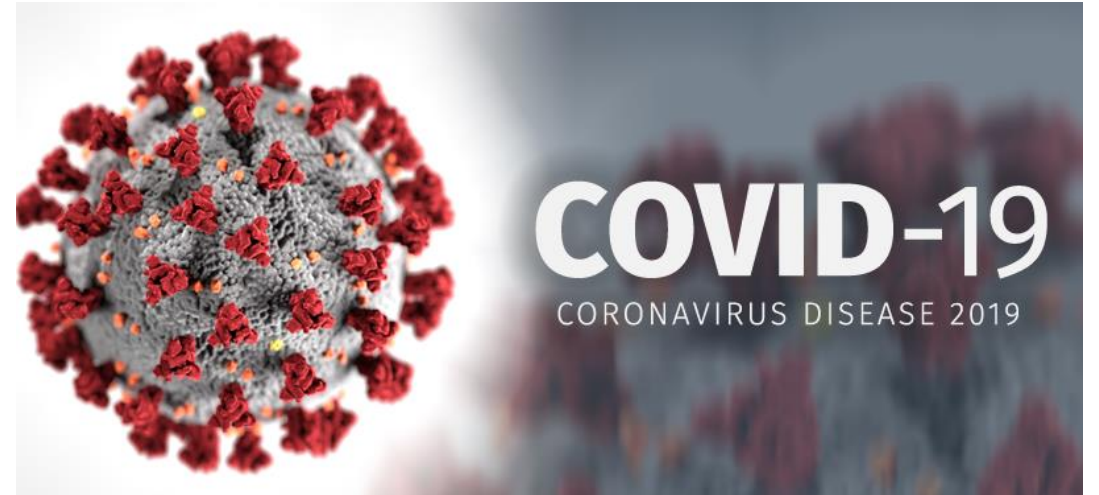
- The vision:
" a Europe that protects,
a Europe that empowers,
a Europe that defends"
Jean-Claude Juncker
- Tackling climate change
- Helping to achieve Sustainable Development Goals
- Boosting the Union's competitiveness and growth



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

Horizon Europe – The politics

- The key drivers:
- Covid has changed the game.
- Big budget to deploy.
- Emphasis on economic recovery and growth.



Horizon Europe – The politics

- The key drivers:
- Sustainability and the climate change challenge. The ‘Green Deal’.
- This can change behaviour i.e. more remote working/access and less funded travel (fewer funded conferences etc)



Horizon Europe – The politics

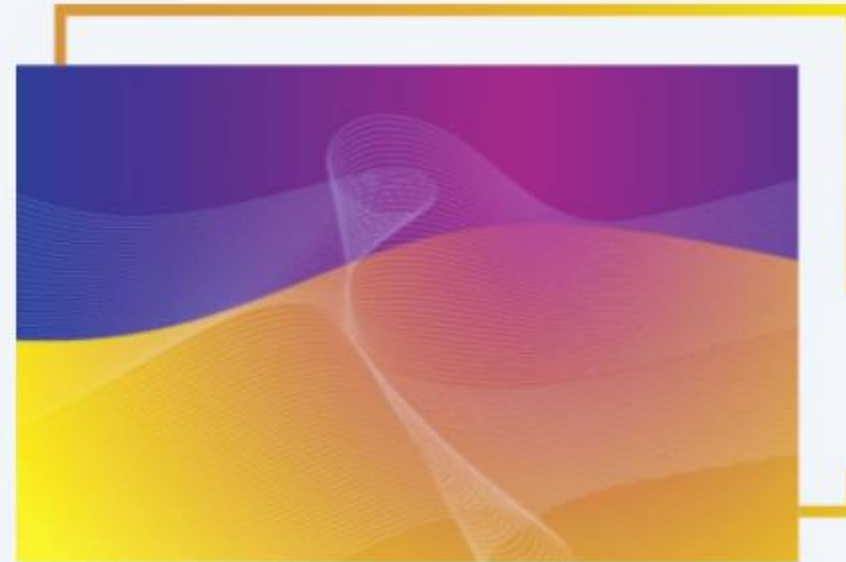


- The key drivers: The Digital Age



Europe's Digital Decade

empowering businesses and people in a human-centred, sustainable and prosperous digital future



Shaping Europe's digital future

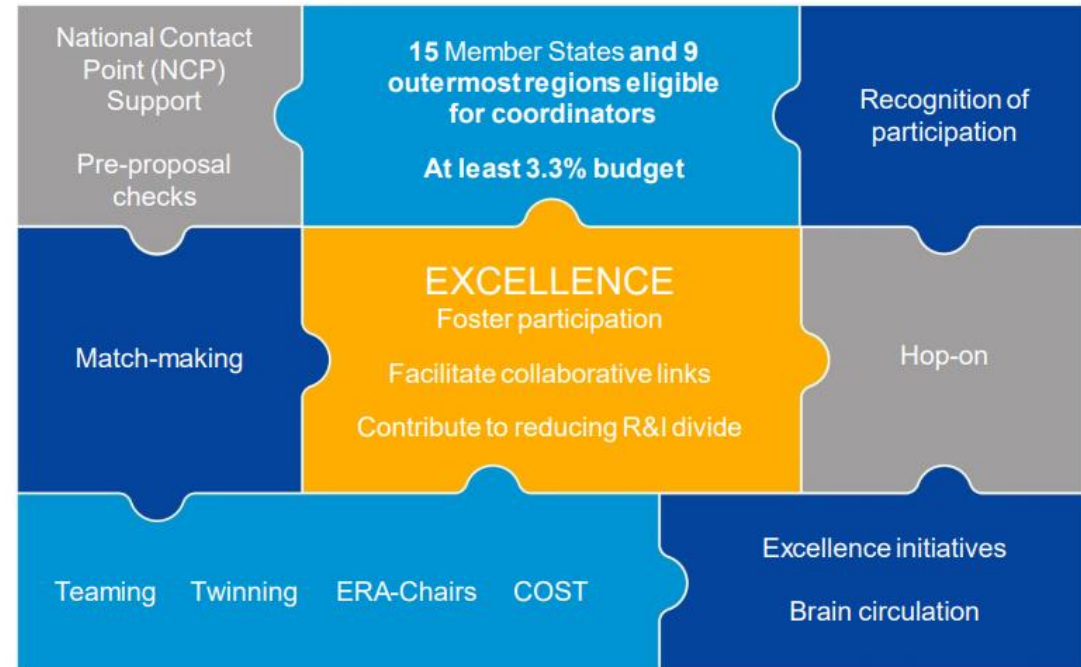
by making sure technology serves the people and adds value to their daily lives

Horizon Europe – The politics

- The key drivers:
- **Widening participation** particularly post-Brexit



Widening participation/spreading excellence



Horizon Europe – The politics

- Geopolitical reach – important e.g. Training
- Africa - 40 topics with around 350M€



Horizon Europe – Have your say

- The European Commission is seeking to improve its communication on science, research and innovation with EU citizens.
-
- By taking part in this short survey, you can help the Commission to better understand your main interests and concerns related to EU support for science, research and innovation.
- Your contribution would be equally important if you are not interested in these topic and the EU in general.
- <https://ec.europa.eu/eusurvey/runner/COMM-2019-OP-0029-Lot2-020-C-RTD2>

Horizon Europe, Europlanet and Space

- In the pillars there are opportunities for developing projects with a space interest.
- I will highlight a few some of which **Europlanet** as an entity (Research Infrastructure) and community **MUST apply to**.

Horizon Europe –Space

- *No separate space entity.*
- Cluster 4: Digital, Industry and **Space**
- *Vision behind the proposed investments under Cluster 4 is that of Europe shaping competitive and trusted technologies for a European industry with global leadership in key areas, enabling production and consumption to respect the boundaries of our planet, and maximising the benefits for all parts of society in the variety of social, economic and territorial contexts in Europe.*
- *This will build a competitive, digital, low-carbon and circular industry, ensure sustainable supply of raw materials, develop advanced materials and provide the basis for advances and innovation in global challenges to society.*

Horizon Europe –Space

- **DESTINATION** – OPEN STRATEGIC AUTONOMY IN DEVELOPING, DEPLOYING AND USING GLOBAL SPACE-BASED INFRASTRUCTURES, SERVICES, APPLICATIONS AND DATA
- Focus on space platforms for viewing and communications. reinforcing the EU's independent capacity to access space, securing the autonomy of supply for critical technologies and equipment, and fostering the EU's space sector competitiveness.

Horizon Europe –Space

- 1 Foster competitiveness of space systems
- 2 Reinforce EU capacity to access to space
- 3 Evolution of Space and ground infrastructures for Galileo/EGNOS
- 4 Evolution of services: Copernicus
- 5 Development of applications for Galileo, EGNOS and Copernicus
- 6 Innovative space capabilities: SSA, GOVSATCOM, Quantum
- 7 Space entrepreneurship ecosystems (incl. New Space and start-ups) and skills
- 8 Targeted and strategic actions supporting the EU space sector.

Horizon Europe –Space

- So not much for us? Focus - satellite communication, navigation and Earth observation sectors. Galileo, EGNOS and Copernicus
- But use of small satellites, Data tools and Space Situational Awareness (SSA) (e.g. space junk and hazards) are of interest to members. Quantum technologies for space gravimetry

Horizon Europe –Space

CALL - STRATEGIC AUTONOMY IN DEVELOPING, DEPLOYING AND USING GLOBAL SPACE-BASED INFRASTRUCTURES, SERVICES, APPLICATIONS AND DATA 2022

- **HORIZON-CL4-2022-SPACE-01-62: Space Weather effect on Earth**

New modelling including ab-initio simulations to understand fundamental Sun-Earth physical mechanisms and their sensitivity to parameter change for improved forecasting skills, and forecasting techniques capable of improving the restitution quality and extending the time horizon of a future space weather forecasting capability to several days.

☐ Proposals should address the development of modelling capabilities and/or the delivery of prototype services able to interpret a broad range of observations of the Sun's corona and magnetic field, of the Sun-Earth interplanetary space and of the Earth magneto/iono/thermo-sphere coupling relying on existing observation capacities

Horizon Europe –Space

HORIZON-CL4-2022-SPACE-01-72: Education and skills for the EU space sector. ONE WE SHOULD AS COMMUNITY INPUT TO & BE REPRESENTED IN.

- A structured overview of the educational offer in the EU, including continuing education for the EU space sector.
- Identification of the needs for education and skills in the EU space sector and of potential new educational knowledge answering emerging and future needs.
- Assessment of the adequacy between curricula and sector needs;
- Actions for the promotion of space jobs and career in Bachelor and Master courses
- Creation of educational material for jobs related to Earth observation and Positioning Navigation and Timing, in particular downstream.
- In relation to the expected impact, these outcomes will contribute to foster the EU space sector competitiveness by enhancing the adequacy between the needs of the sector and the qualification of the workforce and reinforce EU capacity to develop products and services with a higher level of autonomy

Horizon Europe –Space

HORIZON-CL4-2022-SPACE-01-81: Space technologies for European non-dependence and competitiveness = for launch and data retrieval

HORIZON-CL4-2022-SPACE-01-82: Space science and exploration technologies replaces space data in H2020

Our Main call 8 million 1 to 1.5 million each = 5 to 6 proposals

- Enable breakthroughs in technologies and scientific instrumentation for **space science and exploration** missions including those described in the Global Exploration Roadmap from the International Space Exploration Coordination Group (ISECG). (**Why not ESA/Europe led**)
- Validation of **novel space/planetary robotic technologies and instrumentation through analogue tests.**
- Increased **collaboration** of scientific, engineering and industrial **teams both within and outside Europe across different domains.**
- To **strengthen European scientific excellence** and support the development of leading edge scientific and technologic research in Europe



Horizon Europe –Space

HORIZON-CL4-2022-SPACE-01-82: Space science and exploration technologies

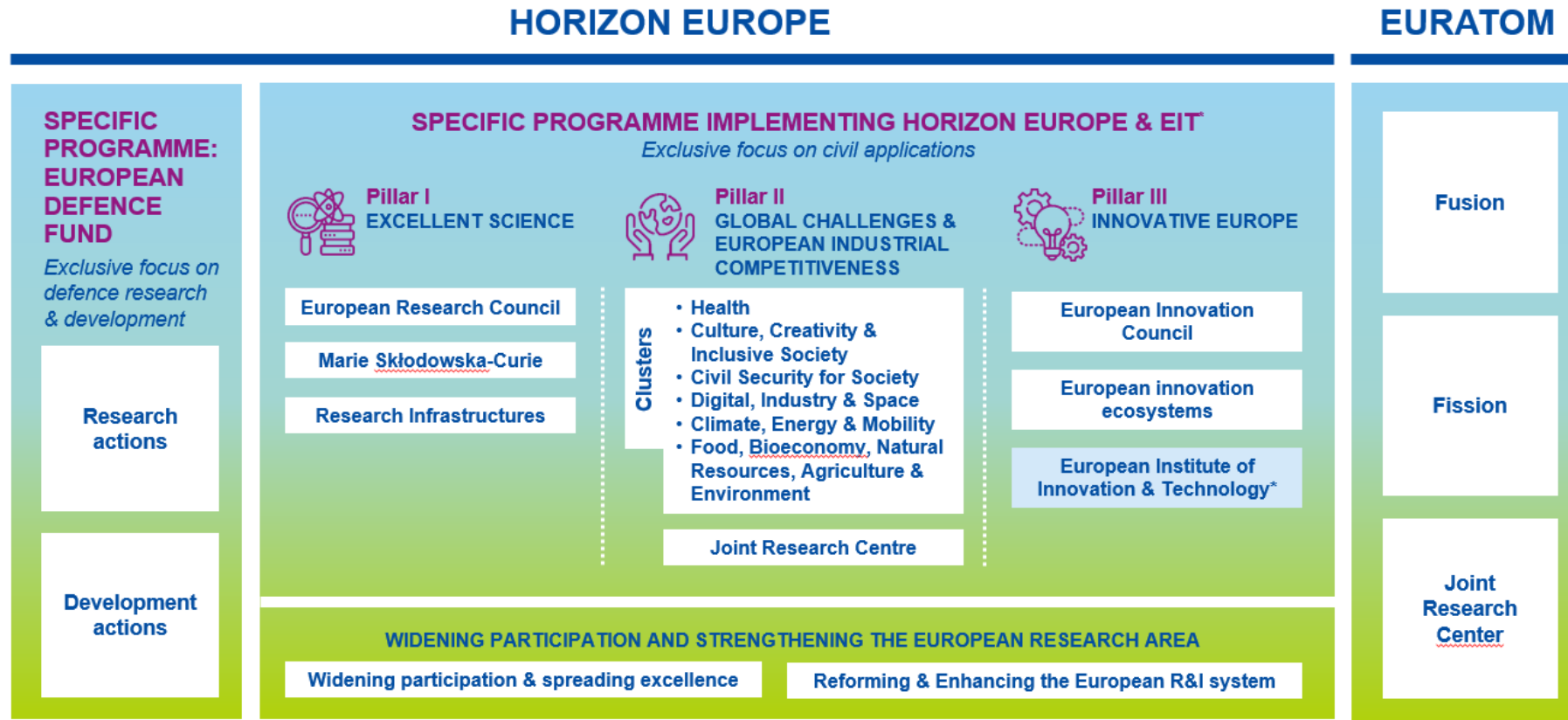
Scope: The development of innovative instrumentation (payload) and technologies enabling space science and exploration missions requires timely technology development associated with future space science and exploration missions, including robotic exploration technologies, early stage scientific instrumentation and component technologies for space resources utilisation and space observatories. The development of new and innovative approaches, such as instruments for Cubesats and other small space platforms, including planetary entry probe, or the use of Commercial off-the-shelf (COTS) components is encouraged as long as it contributes to the implementation of space science and exploration missions with significant scientific outputs.

Advances are expected in support to on-site activities such as innovative measurement techniques, increased sensitivity, increased robustness, faster and more accurate data processing or in-situ sample and data analysis.

The proposed activities should target primarily European and European-led space science and exploration missions or international missions where the participation of European partners provides demonstrated added value in technological development and scientific output So Juice, Envision, Comet Interceptor, Ariel

Horizon Europe –Space

Other Calls - Primarily under Pillar 1



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Horizon Europe –Space

Other Calls - Primarily under Pillar 1

ERC – Personal Fellowships – subject of another webinar note we do not have many compared to astronomy community !

Marie Skłodowska-Curie Actions

Research Infrastructures

Horizon Europe –Space

Research Infrastructures

No Calls for RI in 2021-22 as ‘space has Europlanet and chETEC in astrophysics’ so look to 2023-24 call but expect to be different style and probably joint (astrocluster) aka Astronomy EOSC

Europlanet 2024 RI has to show its worth and form alliances. Key meeting **ERIM** in 2023 to show what we have done and work with others

Horizon Europe – Infrastructures

- HORIZON-INFRA-2021-DEV-01-03: Transition to digital/remote research infrastructure service provision: lessons learnt, needs and best practices **Good to engage in this if we can !**

Expected Outcome: Project results are expected to contribute to all the following expected outcomes:

- increased resilience of research infrastructures during crisis;
- reduced ecological footprint of research infrastructure activities;
- wider access to research infrastructures and enlargement of their user base;

Horizon Europe – Infrastructures

- HORIZON-INFRA-2021-DEV-01-03: Transition to digital/remote research infrastructure service provision: lessons learnt, needs and best practices **Good to engage in this if we can !**

Scope: The provision of digital and remote research infrastructure services has proved its effectiveness during the COVID-19 emergency/lockdown. Such an approach would also contribute to a sustainable and effective ecosystem of research infrastructures, and, more in general, to a more sustainable society.

Building on the resilience strategies and approaches developed during the COVID-19 emergency by research infrastructures in Europe, proposals under this topic should adopt a broad approach, covering a wide range of different research infrastructures in many fields and address the following aspects:

- investigate good practices, strategies and lessons learned as well as needs, risks and threats and further technological developments necessary to support the transition to digital/remote research infrastructure service provision;
- identify solutions, technologies and software enabling secure remote control of instrumentation and measurement as well as strategies for providing support to remote users;
- develop guidelines to foster the transition to a digital/remote provision of research infrastructure services.

Horizon Europe – Infrastructures

- [HORIZON-INFRA-2022-DEV-01-01: Research infrastructure concept development](#)
- **Expected Outcome:** Projects are expected to contribute to all the following expected outcomes:
 - sound science cases for new research infrastructures, including expected scientific breakthrough, gap analysis and feasibility/design studies to support planning and decision making at the national level (e.g. funding bodies, governments) and at European level (e.g. ESFRI); [?](#)
 - a better alignment of the development of the research infrastructure landscape with the advancement of excellent science and frontier research;
 - new services and access opportunities available to the research community, allowing to better tackle scientific and societal challenges

Horizon Europe – Infrastructures

- HORIZON-INFRA-2022-DEV-01-01: Research infrastructure concept development

This topic aims at supporting the development of new concepts for the next generation of research infrastructures of European interest, single/multi sited, distributed or virtual, that none or few countries might individually be able to afford. All fields of research can be considered.

In this respect, proposals should address all following aspects:

- demonstrate relevance in relation to ERA, including to the existing landscape, and the advancement with respect to the state-of-art of the new infrastructure;
- highlight the research challenges the new research infrastructures will make possible to address, including at global level;
- indicate the gaps in the research infrastructure landscape the new infrastructure will cover and the synergies with existing infrastructures at European and global level, including those co-financed from other EU instruments (e.g.: Cohesion policy);
- indicate, when relevant, the potential impact of the new research infrastructure at regional level.

Horizon Europe – Infrastructures

- [HORIZON-INFRA-2022-DEV-01-01: Research infrastructure concept development](#)

Proposals should also provide evidence that the project will effectively:

- ☐ identify technologies and develop research infrastructure architecture (e.g. single site or distributed, ...); ☐ identify scientific user communities (and their related needs) that will benefit from access to RI services, including scientific data and instrumentation, and develop the planning of research services to users;
- ☐ identify governance options and strategic approaches for institutional/stakeholders' commitment and engagement;
- ☐ develop initial financial plans for the RI construction (or major upgrades) and operation as well as preliminary ideas for long-term sustainability, including synergies with other funds and programmes (e.g.: ERDF);
- ☐ develop plans for an efficient data curation and preservation and for the provision of access to data collected or produced by the future infrastructure, in line with the FAIR principles.

Proposals considering just a new component of a research infrastructure are not in scope of this topic.

When relevant, environmental (including climate-related) impacts as well as the optimisation of resource and energy use should be integrated in the concept development of new research infrastructures. In this topic the integration of the gender dimension (sex and gender analysis) in research and innovation content is not a mandatory requirement..

Horizon Europe – Infrastructures

HORIZON-INFRA-2021-SERV-01-07: Research infrastructures services advancing frontier knowledge we are one of these Topics 2021 Geosphere, including geo-hazards and geo-resources; Biosphere: terrestrial biodiversity and ecosystems, including Arctic and forest; Particle and nuclear physics.

Expected Outcome: Project results are expected to contribute to all the following expected outcomes:

- wider, simplified, and more efficient access to the best research infrastructures available to researchers to conduct curiosity-driven research, irrespective of location;
- breakthrough and leading-edge research enabled by advanced research infrastructure services made available to a wider user community;
- improved and harmonised RI services and broader use of RI resources across Europe deriving from the exploitation of synergies and complementarities;
- a new generation of researchers trained to optimally exploit all the essential tools for their research;
- cross-disciplinary fertilisations and a wider sharing of information, knowledge and technologies across scientific fields fostered by closer interactions between researchers active in and around research infrastructures
- better management, including implementing FAIR data principle, of the continuous flow of data collected or produced by research infrastructures.
- **Space calls 2023-24?**

Horizon Europe – Research Infrastructures

But..open call now

HORIZON-INFRA-2021-TECH-01-01: Interdisciplinary digital twins for modelling and simulating complex phenomena at the service of research infrastructure communities.

Actions should develop digital twins that provide advanced modelling, simulation and prediction capabilities to RIs and their research communities through a convergent use of advanced digital technologies such as high performance computing, software, AI methods and big data analytics.

Horizon Europe – Research Infrastructures

2022 calls.

HORIZON-INFRA-2022-TECH-01-01: R&D for the next generation of scientific instrumentation, tools and methods).

Research and development of new scientific instrumentation, tools and methods for research infrastructures taking into due account resource efficiency (e.g. energy consumption) and environmental (including climate-related) impacts;

- their technology validation and prototyping;
- training of RI staff for the operation and use of these new solutions;
- the innovative potential for industrial exploitation of the solutions and/or for the benefits
- of the society.

Consortia must be built around a leading core of at least 3 world-class research infrastructures, being ESFRI infrastructures, European Research Infrastructures Consortia (ERICs) and/or other world-class research infrastructures of European interest 102 and can include a wider set of RIs. Other technological partners, including industry and SMEs, should also be involved, thus promoting innovation and knowledge sharing through co-development of new technical solutions for research infrastructures.

Note Topics send to ESA

HORIZON-CL4-SSA-SWENEO - Space Weather and Near Earth Objects

- **Space weather** - Research and innovation activities under this area will be delegated to ESA and will deal with “development of certain technology elements for promising precursor services” and “exploratory space weather payloads studies”. They shall be complementary to Space Weather services developed through the Space Situational Awareness component of the EU Space Programme.
- **Near Earth Objects** - Research and innovation activities under this area will be delegated to ESA and will study “precursor services / European hot-redundant Minor Planet Centre backup” and “Increase networking of MS assets”.
- Indicative budget for this action: EUR 4.00 million from the 2022 budget

Horizon Europe –Space

Marie Skłodowska-Curie Actions

Doctoral Training Networks – (old ITNs) we are told this is good to have linked to RI. **Where are planetary science community DNs?**

Submit November 16 2021

Academic only 10 ESRs

Academic-Industry 15 ESRs 50% in industry partner 50% academic

Horizon Europe – Mobility

Marie Skłodowska-Curie Actions Call - MSCA Staff Exchanges 2021 – closing date March 2022 *Mobility through secondments*

For staff members

- ☐ Increased set of research and transferable skills and competences, leading to improved employability and career prospects within and outside academia;
- ☐ More knowledge and innovative ideas converted into products, processes and services;
- ☐ More entrepreneurial mind-sets, testing new and innovative ideas;
- ☐ Increased international exposure leading to extended networks and opportunities;
- ☐ Enhanced networking and communication capacities with scientific peers, as well as with the general public that will increase and broaden the research and innovation impact.

For participating organisations

- ☐ Innovative ways of cooperation and transfer of knowledge between sectors and disciplines;
- ☐ Strengthened and broader international, interdisciplinary and inter-sectoral collaborative networks;
- ☐ Boosted R&I capacity.

Horizon Europe – Mobility

Marie Skłodowska-Curie Actions MSCA Co-funding of regional, national and international programmes:
complementary funding for doctoral or postdoctoral programmes

HORIZON-MSCA-2021-COFUND-01-01 Deadline: 10 Feb 2022

Does any institution/ nation wish to create a centre of mass in planetary (space) Science

For supported doctoral candidates or postdoctoral researchers

- ☐ Deeper and more diverse set of research-related and transferable skills and competences;
- ☐ Improved employability and career prospects both within academia and beyond;
- ☐ New mind-sets and approaches to R&I work forged through interdisciplinary and inter-sectoral experience;
- ☐ Enhanced networking and communication capacities with scientific peers, as well as with the general public that will increase and broaden the research and innovation impact.

For participating organisations

- ☐ Enhanced quality and sustainability of research training;
- ☐ Increased global attractiveness, visibility and reputation of the participating organisation(s);
- ☐ Stronger R&I capacity and output among participating organisations;
- ☐ Increased contribution of the participating organisations to the local, regional and/or national socio-economic ecosystems;
- ☐ Regular feedback of research results into teaching and education at participating organisations.

Horizon Europe – Citizens

Marie Skłodowska-Curie Actions MSCA and Citizens 2022 Deadline: 07 Oct 2021

HORIZON-MSCA-2022-CITIZENS-01-01: European Researchers' Night 2022-2023

There may be calls relevant under Science and Society programme as well

Horizon Europe – Widening participation

Widening participation and strengthening the European Research Area is core Horizon Europe objective.

- **HORIZON-WIDERA-2022-ACCESS-01-01-two-stage: Teaming for Excellence** complementary funding from a national (or regional or European or private source) is required. **05 Oct 2021 (First Stage), 08 Sep 2022 (Second Stage)**
- **HORIZON-WIDERA-2021-ACCESS-03-01 Twinning for Excellence 18 Jan 2022**
- Twinning aims to enhance networking activities between the research institutions of the Widening countries and top-class research institutions from two different Member States or Associated Countries. **Aim is to raise the research profile of the institution from the Widening country as well as the research profile of its staff including a special focus on strengthening the research management and administrative skills of the coordination institution from the Widening country.**
- **(note specific call Call - Twinning Western Balkans HORIZON-WIDERA-2021-ACCESS-02-01 05 Oct 2021** The coordinator must be a legal entity established in one of the following countries: Republic of Albania, Montenegro, Bosnia and Herzegovina, Montenegro, Republic of North Macedonia, and Republic of Serbia. At least 70% of the budget for research activities must be allocated to the coordinator from the above stated eligible countries)

Horizon Europe – Widening participation

Widening participation. Call - Excellence Hubs

HORIZON-WIDERA-2022-ACCESS-04-01: Excellence Hubs 15 March 2022

Excellent and sustainable place based innovation ecosystems in Widening countries and beyond in relevant domains of cutting-edge science and innovation

- Projects should be established around the following core components:
- ☐ Cross-border joint R&I strategy aligned with regional smart specialisation strategies and/or European policy priorities such as the green and digital transition
- ☐ R&I project consolidating academia business linkages and providing evidence for strategy building and investment
- ☐ Action and investment plans for implementation of the strategy
- ☐ Conceptual design and pre-planning for pilots and demonstrators (if applicable) in line with the strategy
- ☐ Accompanying measures e.g. to raise visibility, citizen engagement, technology transfer, entrepreneurship training, staff exchange, mutual learning etc.

Horizon Europe – Widening participation

Widening participation.

Call - European Excellence Initiative (EEI): 04 Nov 2021

HORIZON-WIDERA-2021-ACCESS-05-01: Capacity building to strengthen networks of higher education institutions and cooperation with surrounding ecosystems

- Enhance the scientific and technological capacity of the linked institutions with a principal focus on the entities from the Widening Country/-ies;
- Help raise the excellence profile of the HEI from the Widening country as well as the excellence profile of its staff;
- Strengthen considerably the networks towards realising integrated cooperation between the participating entities in the research and innovation dimension, in synergy with the entities' education and training dimensions
- **Again extra focus and call on western Balkans**

Horizon Europe – Widening participation

Widening participation. Hop On Facility

HORIZON-WIDERA-2022-ACCESS-07-01 Legal entities established in Widening countries may join already selected actions, subject to the agreement of the respective consortium and provided that legal entities from such countries are not yet participating in it. The proposal must be submitted by the co-ordinator of a consortium funded under **Pillar 2 of Horizon Europe** so not RIs

ERA Chairs - 15 Mar 2022

ERA Fellows - 12 Oct 2021

Horizon Europe – Widening participation

ERA Chairs - 15 Mar 2022 leaders appointed in Widening participation countries

ERA Fellows - 12 Oct 2021

For supported ERA Fellows:

- ☐ Increased set of research and transferable skills and competences, leading to improved employability and career prospects of fellows within academia and beyond;
- ☐ New mind-sets and approaches to R&I work forged through interdisciplinary, inter-sectoral and international experience;
- ☐ Enhanced networking and communication capacities with scientific peers, as well as with the general public, that will increase and broaden the research and innovation impact;

For participating organisations in the Widening Countries:

- ☐ Increased alignment of working conditions for researchers in accordance with the principles set out in the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers;
- ☐ Enhanced quality and sustainability of research training and supervision;
- ☐ Increased global attractiveness, visibility and reputation of the participating organisation(s);
- ☐ Stronger R&I capacity and output among participating organisations; better transfer of knowledge;
- ☐ Regular feedback of research results into teaching and education at participating organisations.

For Widening countries:

- ☐ Increased attractiveness for researchers to entities in widening countries, by providing competitive grants and spreading attractive working and employment practices; More postdoctoral researchers attracted to widening countries.

Horizon Europe – Widening participation

HORIZON-WIDERA-2021-ERA-01-61: Supporting and giving recognition to citizen science in the European Research Area **amateur astronomers ?**

Expected Outcome: Projects are expected to contribute to the following expected outcomes:

- ☐ Significant number of experimental citizen science initiatives kick-started;
- ☐ Significant number of citizen science initiatives supported to become sustainable;
- ☐ Significant number of newcomers to the Framework Programme and a significant number of citizens involved in co-producing scientific knowledge;
- ☐ Increased recognition of excellent citizen science initiatives throughout the European Research Area;
- ☐ Improved evidence base for making policy on citizen science.

Horizon Europe – Widening participation

HORIZON-WIDERA-2021-ERA-01-61: Supporting and giving recognition to citizen science in the European Research Area **amateur astronomers ?**

These targeted outcomes in turn contribute to medium and long-term impacts:

- ☐ Increased engagement of citizens with science and researchers with citizens;
- ☐ Increased public trust in science;
- ☐ Increased alignment of strategic research with society needs, expectations and values;
- ☐ Better understanding among citizens of the process of building scientific knowledge through experimentation;
- ☐ Increased capacity in the EU R&I system to conduct open science and to set it as a modus operandi of modern science;
- ☐ A more open and inclusive research and innovation system.

Horizon Europe – Widening participation

HORIZON-WIDERA-2021-ERA-01-61: Supporting and giving recognition to citizen science in the European Research Area **amateur astronomers ?**

In order to help remedy these weaknesses in the European research and innovation system, this action will launch two calls for proposals through financial support to third parties:

- **Kick-starting:** This will kick-start and provide support services to at least 100 citizen science activities that are at the conceptual or pilot stage and which show promise in terms of innovative theme or approach, collecting and analysing data, or generating other important benefits.
- **Sustaining:** This will support at least 25 on-going or recent citizen science activities to find ways to sustain their activities; these will have shown their worth in terms of innovative theme or approach, collecting and analysing data, generating other important benefits, or have particular potential to scale up across member states or the ERA.

EC guidelines to writing a fundable proposal

- Finally a few take home messages.
- EU funding is different and comes with different 'rules' it is not 'just the Science'.
- Get a EU experienced Mentor to help you

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

Policy and horizontal considerations

Updated slide
(June 2021)



Open Science across the programme



Gender dimension in R&I content



Pathway to impact



Measures to maximise impact



Artificial intelligence

These aspects must normally be considered in all Horizon Europe calls (unless explicitly mentioned in the topic description).

Specific calls may include other aspects to take into account.

Future webinars focused on these specific aspects will come soon.



Evaluation (award) criteria

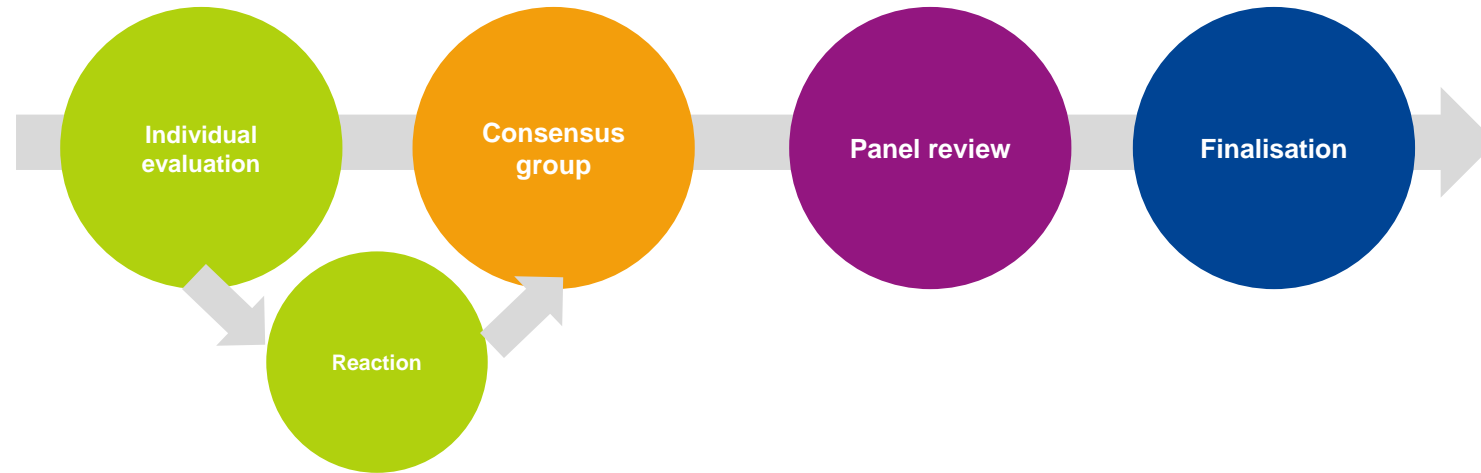
Same criteria as in H2020

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.

Piloting new processes based on lessons learnt



Right-to-react (Rebuttal)

This is new Just had one four ‘experts commenting on each part of the proposal to set questions as described in the call

- Objective is to by experts at an early stage, and provide more detailed feedback to applicants.
- Applicants will send their reactions to draft experts comments
- Experts will take applicants’ reaction into account before finalising their final assessment.
- increase transparency, to correct any factual or major misunderstandings

Link between policy priorities and project results

Strategic Planning and Programming

(EC)
STRATEGIC PLAN

WORK PROGRAMME

EU POLICY PRIORITIES	Overall priorities of the European Union (Green Deal, Fit for the Digital Age,...)
KEY STRATEGIC ORIENTATIONS	Set of strategic objectives within the EC policy priorities where R&I investments are expected to make a difference
IMPACT AREAS	Group of expected impacts highlighting the most important transformation to be fostered through R&I
EXPECTED IMPACTS = DESTINATIONS	Wider long term effects on society (including the environment), the economy and science, enabled by the outcomes of R&I investments (long term). It refers to the specific contribution of the project to the work programme expected impacts described in the destination. Impacts generally occur some time after the end of the project.
EXPECTED OUTCOMES = TOPICS	The expected effects, over the medium term, of projects supported under a given topic. The results of a project should contribute to these outcomes, fostered in particular by the dissemination and exploitation measures. This may include the uptake, diffusion, deployment, and/or use of the project's results by direct target groups. Outcomes generally occur during or shortly after the end of the project.
PROJECT RESULTS	What is generated during the project implementation. This may include, for example, know-how, innovative solutions, algorithms, proof of feasibility, new business models, policy recommendations, guidelines, prototypes, demonstrators, databases and datasets, trained researchers, new infrastructures, networks, etc. Most project results (inventions, scientific works, etc.) are 'Intellectual Property', which may, if appropriate, be protected by formal 'Intellectual Property Rights'

PROJECT PROPOSALS

Application process (researchers)

Horizon Europe - What is in it for me?

- Answers
- Potentially a lot !

Questions – please feel free to send to
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