



Europa Media Trainings

Horizon Europe: A practical insight Part I.

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May 2021

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Your
partner in
EU funding
went fully
ONLINE



What we do

- **Develop and manage research and innovation projects under the EU programmes since 2000.**
- **Design and deliver practice-driven training programmes since 2004.**



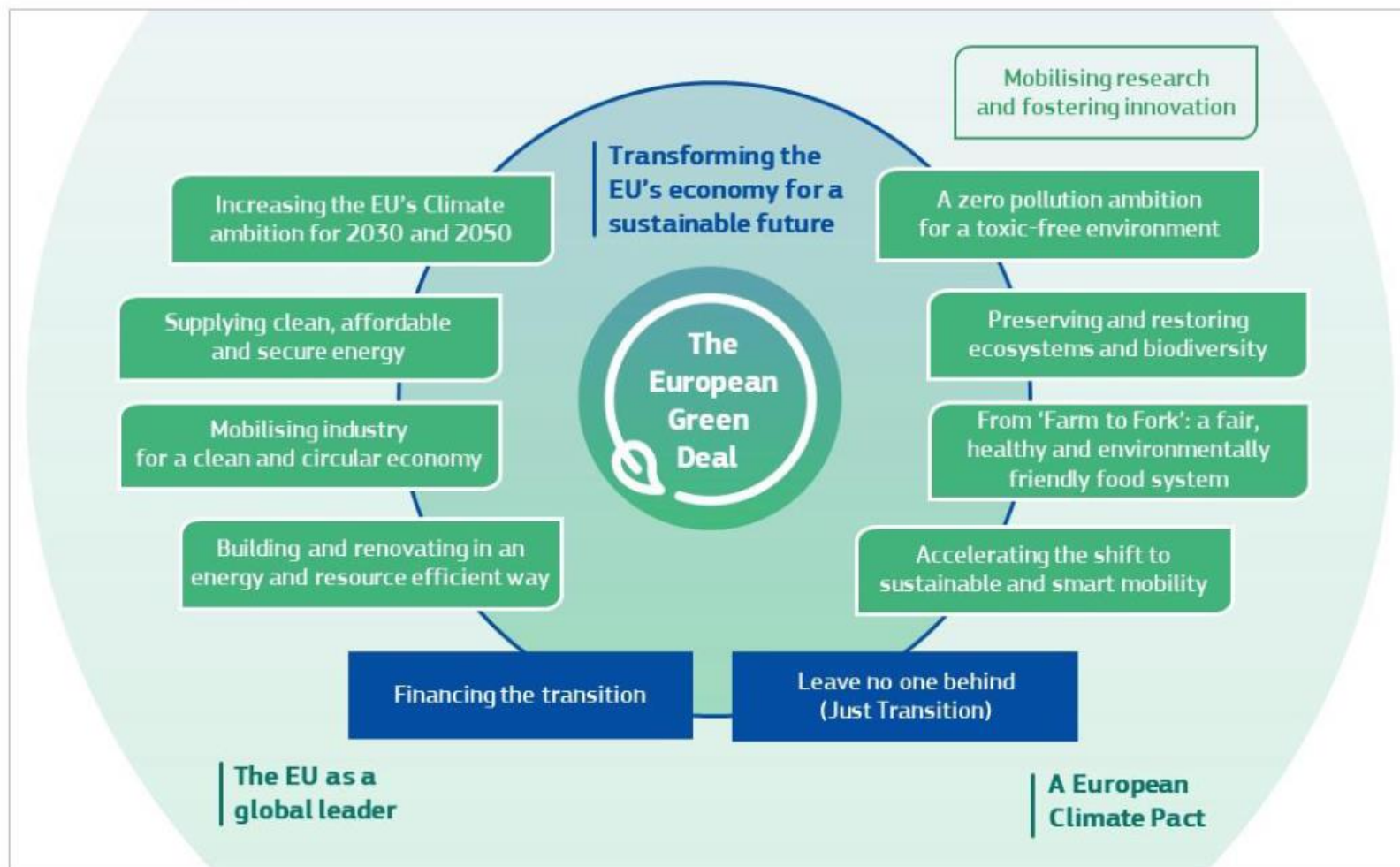
Chapter 1

EU budget 2021-2027

		MFF	NGEU	TOTAL
1.	Single Market, Innovation and Digital	149.5	11.5	161.0
2.	Cohesion, Resilience and Values	426.7	776.5	1203.2
3.	Natural Resources and Environment	401.0	18.9	419.9
4.	Migration and Border Management	25.7	-	25.7
5.	Security and Defence	14.9	-	14.9
6.	Neighbourhood and the World	110.6	-	110.6
7.	European Public Administration	82.5	-	82.5
	TOTAL	1210.9	806.9	2017.8
	TOTAL expressed in 2018 prices	1074.3	750.0	1824.3

EU projects are about EU policies

Example: Green Deal



- 35% of the budget of Horizon Europe
- 60% of the CEF2 budget
- LIFE
- Digital Europe Programme
- Requirements in Recovery Plans of the Member States
 - Recovery and Resilience Facility
 - Cohesion Fund
 - EFRD
- 40% of CAP sources
- Just Transition Fund
- InvestEU

European Education Area by 2025

https://ec.europa.eu/education/sites/education/files/document-library-docs/eea-factsheet-sept2020_en.pdf

Digital Education Action Plan 2021-2027

https://ec.europa.eu/education/education-in-the-eu/digital-education-action-plan_en



1



Quality in education and training

- Boost basic and transversal skills
- More mobility and cooperation opportunities
- Support lifelong acquisition of language competences
- Develop a European perspective in education



2



Inclusion and gender equality

- Pathways to School Success
- 50 centres of excellence for VET
- European Approach to micro-credentials
- Gender-sensitive teaching



3



Green and digital transitions

- Education for Climate Coalition
- Greening of education infrastructure
- Council Recommendation on education for environmental sustainability
- Digital Education Action Plan



4



Teachers and trainers

- 25 Erasmus Teacher Academies
- European guidance for national career frameworks
- European Innovative Teaching Award



5



Higher education

- European Universities full roll-out
- Development of a European Degree
- Legal statute for alliances of universities
- Erasmus+ Mobile App



6



Geopolitical dimension

- Team Europe approach
- Strengthen cooperation with strategic global partners
- Expand international dimension of Erasmus+

European Research and Innovation Area

ERA - 3 objectives

- 1. Prioritise investments and reforms in research and innovation** towards the green and digital transition, to support Europe's recovery and increase competitiveness.
- 2. Improve access to excellent facilities and infrastructures** for researchers across the EU.
- 3. Transfer results to the economy** to boost business investments and market uptake of research output, as well as foster EU competitiveness and leadership in the global technological setting.

EIA - 4 areas

- **Market**, with the aim to accelerate connectedness between global StartupCities, led by top startups and SMEs. The actions under this priority relate to engaging market innovation, address climate change and health innovation, and driving the demand of training courses for global-EU startups and SMEs.
- **Young**, where StartupVillages will engage young entrepreneurs and innovators from rural and urban areas, in synergy with Erasmus+ programme. This priority is set to drive inclusive growth with young entrepreneurs and innovators, especially from rural and remote areas, as well as intensify the cooperation and exchange between rural and urban areas via Erasmus+.
- **Women**, with the aim to accelerate the support of venture capital for women entrepreneurs and innovators. With less optimistic numbers and only 5% of the leadership positions in tech sectors lead by women, this priority is set to drive change by bringing more women leadership in local ecosystems and also more venture capital support for women entrepreneurs and innovators. It is not enough to bring women to build startups but to keep them going and growing in their careers.
- **Talent**, to drive new workforce and employment, as well as productivity and competitiveness, via reskilling and upskilling entrepreneurs and innovators. This will be reflected in the Next Generation EU.

Chapter 2

Horizon Europe Budget

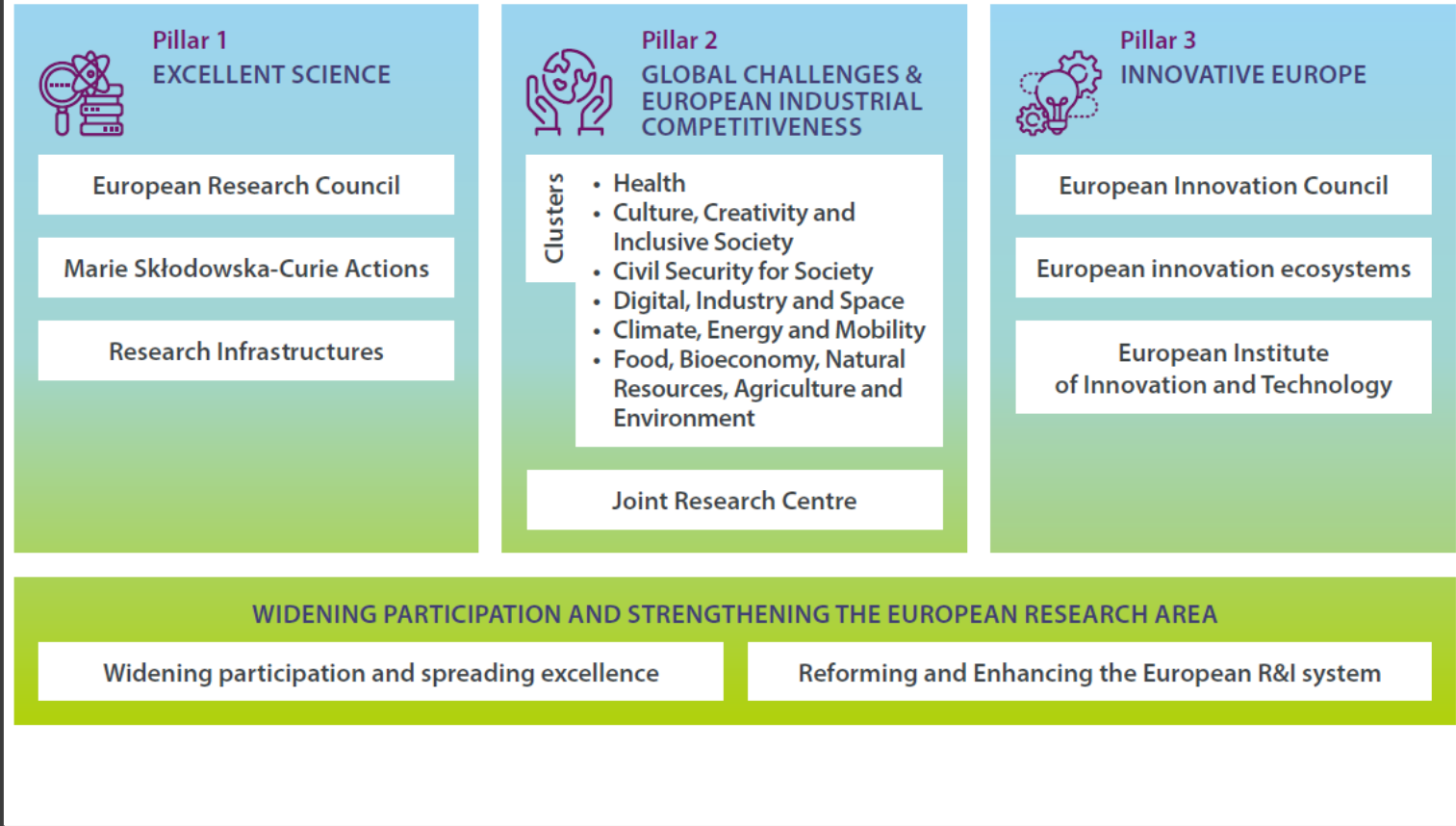
- Additional EUR 2,65 billion is proposed for research within the new European Defence Fund

million EUR in current prices

	Base MFF budget	Addition from margins and competition fines	Addition through decommitments	Addition from NGEU	TOTAL
Pillar I Excellent and Open science					
of which	27% € 23.192	43% € 1.713	0% € -	0% € -	26% € 24.906
European Research Council (ERC)	17% € 14.956	29% € 1.142	0%	0%	17% € 16.099
Marie Skłodowska-Curie actions	7% € 6.087	8% € 314	0%	0%	7% € 6.401
Research infrastructures	3% € 2.148	6% € 257	0%	0%	3% € 2.405
Pillar II 'Global Challenges and European Industrial Competitiveness' of which	55% € 47.465	43% € 1.713	100% € 564	75% € 4.059	56% € 53.801
1. Health	8% € 6.609	0% € -	0%	25% € 1.353	8% € 7.962
2a. Inclusive and Creative Society	1% € 1.253	23% € 914	20% € 113	0%	2% € 2.280
2b. Secure Society	2% € 1.538	9% € 343	0%	0%	2% € 1.881
3. Digital, Industry and Space	16% € 13.619	6% € 228	60% € 338	25% € 1.353	16% € 15.539
4. Climate energy and mobility	16% € 13.524	6% € 228	20% € 113	25% € 1.353	16% € 15.218
5. Food, Natural Resources and Agriculture	10% € 8.953	0% € -	0%	0%	9% € 8.953
6. Non-nuclear direct actions of the JRC	2% € 1.970	0% € -	0%	0%	2% € 1.970
Pillar III Innovative Europe	14% € 11.706	9% € 359	0% € -	25% € 1.353	14% € 13.418
1. European Innovation Council	10% € 8.383	0% € -	0%	25% € 1.353	10% € 9.736
European Innovation Ecosystem	1% € 447	2% € 80	0%	0%	1% € 527
EIT	3% € 2.876	7% € 279	0%	0%	3% € 3.155
IV Strengthening the European research Area	4% € 3.180	5% € 212	0% € -	0% € -	4% € 3.392
Spreading excellence and widening	3% € 2.822	3% € 132	0%	0%	3% € 2.954
Reforming and enhancing European (Union) R&I System	0% € 358	2% € 80	0%	0%	0% € 438
TOTAL	100% € 85.543	100% € 3.998	100% € 564	100% € 5.412	100% € 95.517

https://sciencebusiness.net/sites/default/files/inline-files/Final%20budget%20breakdown%20Horizon%20Europe_0.pdf

Horizon Europe Pillars



to strengthen the EU's scientific and technological bases and the European Research Area (ERA)



to boost Europe's innovation capacity, competitiveness and jobs



to deliver on citizens' priorities and sustain our socio-economic model and values

Multiannual Strategic Plan

Point of reference for R&I in all related programmes across the EU budget and non-funding instruments

- **Consistency** and synergy between work programmes, EU and national priorities; other programmes, policies
- HE objectives, **focus on impact**, coherence of 3 pillars
- **Less fragmentation** of efforts, duplication and funding overlaps
- **Link research** and other actions for further policy support
- **Balanced**, broad, systemic, cross-disciplinary, cross-sectoral and cross-policy **approach to R&I**
- **Early involvement and consultations with** various stakeholders
- From Plan for 2021-2024 to Work Programme 2021-2022 → calls



2021-2024 priorities

Key strategic orientations

Climate challenges will receive at least 35% of the funding Europe will hopefully lead a **Transition to sustainability**

- A. Promoting an open strategic autonomy by leading the development of key digital, enabling and emerging technologies, sectors and value chains (5)
- B. Restoring Europe's ecosystems and biodiversity, and managing sustainably natural resources (4)
- C. Making Europe the first digitally enabled circular, climate-neutral and sustainable economy (4)
- D. Creating a more resilient, inclusive and democratic European society (6)



Clusters Contribution to SDGs



Health: SDG 3 - Good Health and Well-Being for People;
SDG13 - Climate Action



Culture, creativity and inclusive society: SDG 1 - No Poverty; SDG 3 - Good Health and Well-Being for People; SDG 4 - Quality Education; SDG 5 - Gender Equality; SDG 8; SDG 9; SDG 10; SDG; SDG 16



Civil Security for Society: SDG 16 - Peace, Justice and Strong Institutions



Digital, Industry and Space: SDG 8 - Decent Work and Economic Growth; SDG 9 - Industry, Innovation and Infrastructure; SDG 12 - Responsible Consumption and Production; SDG-13 Climate Action



Climate, Energy and Mobility: SDG 6 - Clean water and sanitation; SDG 7 - Affordable and Clean Energy; SDG 9 - Industry, Innovation and Infrastructure; SDG 11 - Sustainable Cities and Communities; SDG 12; SDG 13



Food, Bioeconomy, Natural Resources, Agriculture and Environment: SDG 2 - Zero Hunger; SDG 3 - Good Health and Well-Being; SDG 6 - Clean Water and Sanitation; SDG 8 - Decent Work and Economic Growth; SDG 9; SDG 11; SDG 12; SDG 13; SDG 14; SDG 15

- Relating EU's research and innovation better to society and citizen's needs with strong visibility to impact
- Portfolio of actions across disciplines intended to achieve a **bold, inspirational and measurable goal** within a set timeframe, with impact for society and policymaking as well as relevance for a significant part of the European population and wide range of European citizens
 - Specific missions will be programmed within the Global Challenges and European Industrial Competitiveness pillar



R&I MISSIONS

5 MISSION AREAS:

- Adaptation to Climate Change, including Societal Transformation
- Cancer
- Healthy Oceans, Seas, Coastal and Inland Waters
- Climate-neutral and Smart Cities
- Soil Health and Food

Chapter 3

Horizon Europe - The horizontal pillar

What's new in Horizon Europe?

Reforming and enhancing the European R&I system

Broad lines:

- Strengthening the evidence base for research and innovation policy
- Foresight activities, to anticipate emerging needs and trends
- Support for policy makers, funding bodies, research performing organisations (including universities) or advisory groups working on ERA (**CSAs**)
- Support to national research and innovation policy reform (**PSF**)

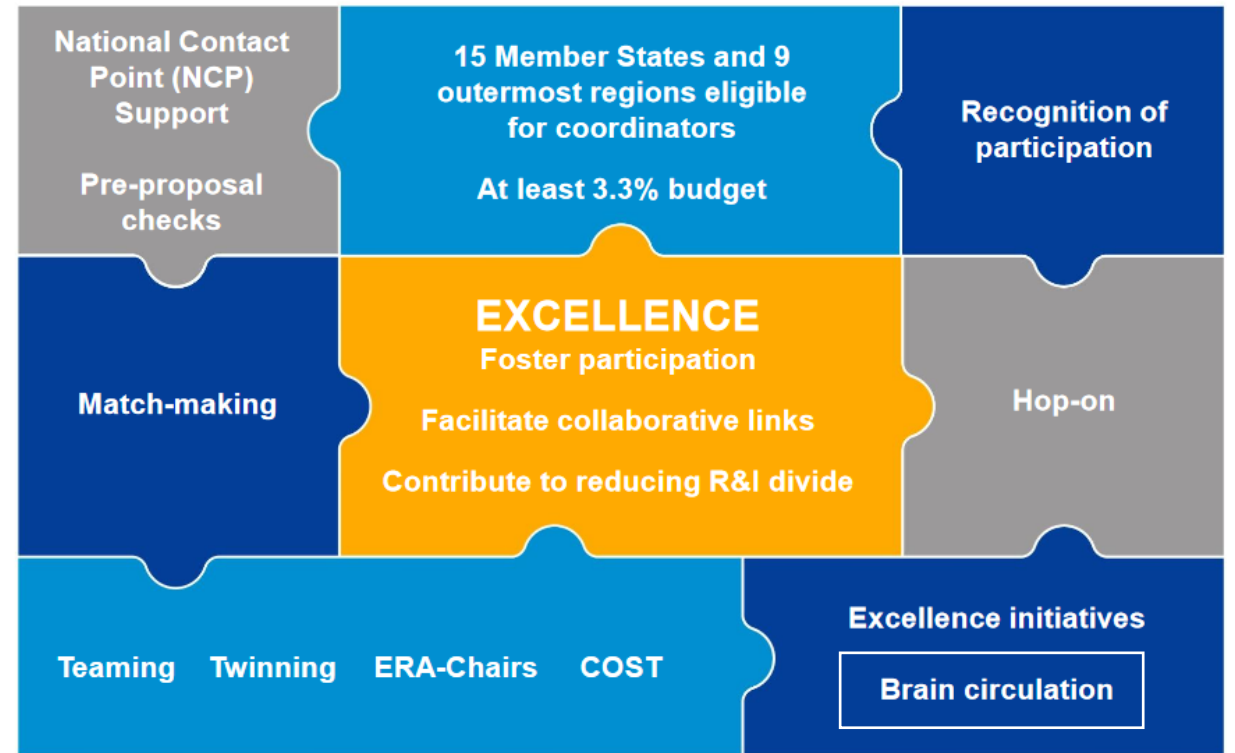
- Accelerating the transition towards **open science**
- Providing researchers with **attractive career** environments, skills and competences
- **Citizen science**, supporting all types of formal, non-formal and informal science education
- Supporting and monitoring **gender equality**
- **Ethics** and Integrity
- Supporting **international cooperation**

Horizontal pillar

Widening participation and strengthening the ERA

Excellence Hubs:

- €3-5 million
- complement the science-oriented schemes Teaming, Twinning, ERA Chairs and the university alliances by a dedicated innovation component.
- help to bridge the innovation
- translating R&I results into the economy
- aim at boosting the resilience and competitiveness of our economies and societies
- partnerships of place-based innovation ecosystems
- elaborate joint R&I strategies that must be aligned with RIS3 and/or European strategies (e.g. Green Deal, Digital transition)
- underpinned by concrete actions plans and an investment strategy



→ Horizon Europe budget for Widening participation €2,82 bn

Horizon Europe - Pillar 1

PILLAR 1: EXCELLENT SCIENCE

Pillar 1

EXCELLENT SCIENCE:

reinforcing and extending the excellence of the Union's science base

European Research Council

- Frontier research by the best researchers and their teams

€ 16 bn

Marie Skłodowska-Curie Actions

- Equipping researches with new knowledge and skills through mobility and training

€ 6,6 bn

Research Infrastructures

- Integrated and inter-connected world-class research infrastructures

€ 2,4 bn

- Building on the success of the European Research Council, the Marie Skłodowska-Curie Actions and the Research Infrastructures, the pillar adds more resources for projects with higher impacts.
- The projects are selected through a "bottom-up" approach, are defined and driven by researchers and networks and are evaluated on the sole criterion of excellence.
- The goal is to nurture innovation and entrepreneurship in education across Europe to provide the skills and competences needed to make Europe more competitive on a global scale.

European Research Council - Frontier Science

How does it support researchers?

- Long-term funding to support researchers
- **Starting researchers with excellent ideas** to make the transition to independence
- **New ways of working in the scientific world** & facilitate commercial and social innovation potential of funded research;
- **Sharing experience and best practices** with regional and national research funding agencies
- **Raising the visibility of ERC programmes - (global profile)**

Funding:

- **Starting Grant:** up to €1.5 million. Duration: up to 5 years. 2-7 years of experience since completion of PhD.
- **Consolidator Grant:** up to €2 million. Duration: up to 5 years. 7-12 years of experience since completion of PhD.
- **Advanced Grant:** up to €2.5 million. Duration: up to 5 years. An excellent scientific track record of recognized achievements in the last 10 years.
- **Synergy Grant:** 2-4 researchers (one can be based outside Europe). Up to a maximum of €10 million for a period of 6 years. (not in 2021, only from 2022)
- *Proof-of-Concept* - funding scheme under revision

ERC website: <https://erc.europa.eu/>



Marie Skłodowska Curie Action

How does it support researchers?

- **Mobility** experiences for researchers anywhere in the world to develop their skills & career in both the academic and non-academic sector.
- **Training programmes to equip researchers with a diversity of skills** relevant to current and future global challenges. (research competences and transferable skills)
- **Training programmes to foster excellence and spread best practices** across institutions and research and innovation systems;
- **Cooperation, production and diffusion of knowledge** within the EU and with third countries.
- **Training programmes** supported through complementary public or private funding sources at regional, national or EU level. (EIT, Erasmus, ESF - seal of excellence)
- **Promoting Public Outreach**



Research Infrastructures (Part 1)

A new life-cycle of pan-European research infrastructures

What is new in those research infrastructures?

- Their preparatory and implementation phase,
- Their early-phase operation in complementarity with other funding sources
- The consolidation and optimisation of the whole ecosystem

HOW?

- By monitoring the ESFRI (European Strategy Forum for Research Infrastructures) landmarks
- Facilitating service agreements, evolutions, mergers or decommissioning of pan-European research infrastructures



Research Infrastructures (Part 2)

A new life-cycle of pan-European research infrastructures

What does the European Open Science Cloud (EOSC) include?

- **Scalability and sustainability** of the access channel;
- **Effective federation** of European, national, regional and institutional resources;
- **Data inter-operability** and compliance with the FAIR principles;
- a wide **user base**.

The pan-European research and education network which underpins **EOSC** and **EDI** enables the delivery of **HPC/data services** in a **cloud based environment** which can hold an extreme large data sets and computational processes.



Thank
you

for your attention

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