

C3

Scientific excellence

KI. 14:00-14:45

Presenters

Isabel Dellacasa Lindberg, MSCA, VR

Anethe Mansén, ERC, VR

Ekaterina Osipova, Research Infrastructures, VR

Julia Hellström Levasseur, Research Infrastructures, Vinnova

Vetenskaplig Spetskompetens i Horisont Europa, ERC, MSCA och Forskningsinfrastrukturer

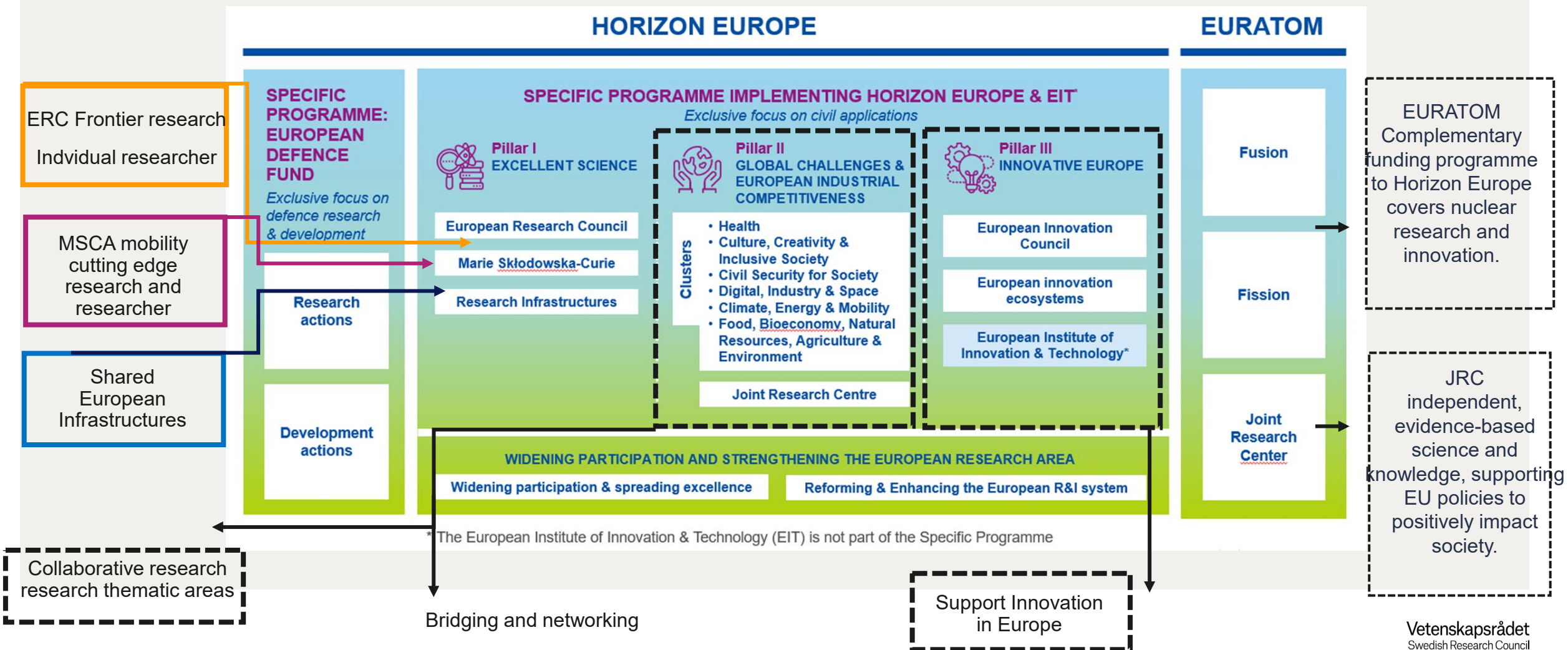
Session C.3 2025-03-27

Anethe Mansén
NCP - ERC

Isabel Dellacasa Lindberg
NCP - MSCA

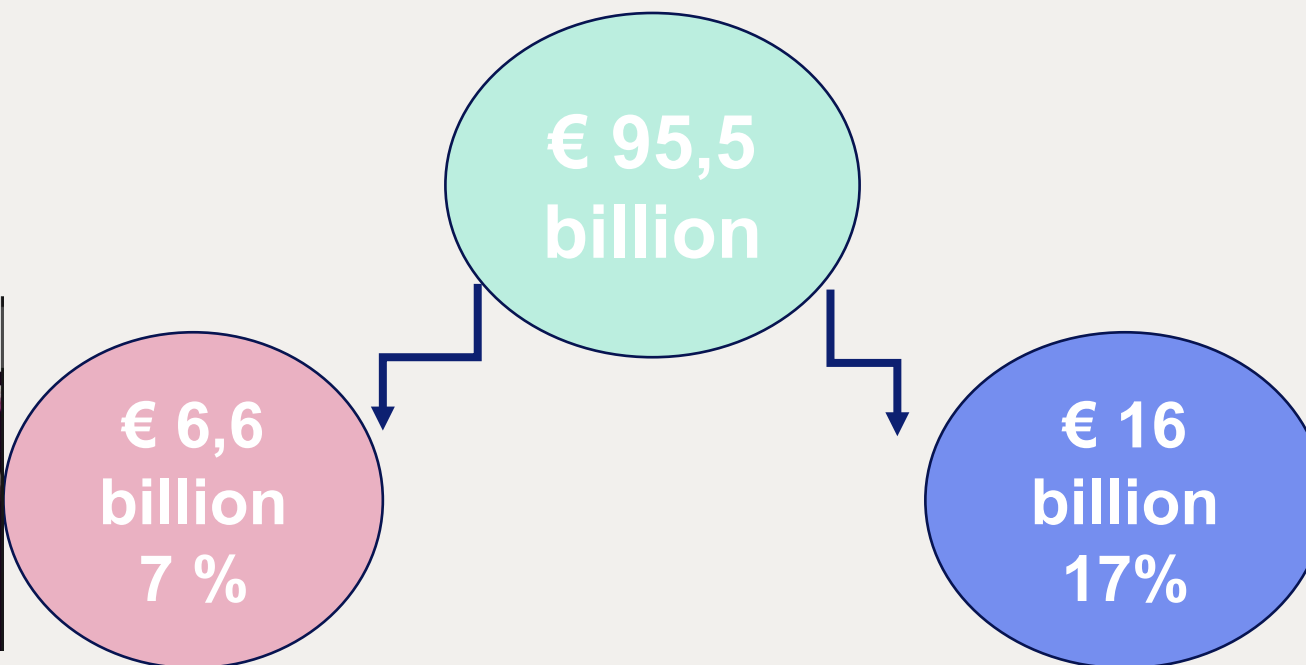
Ekaterina Osipova
NCP- Forskningsinfrastrukturer

Horizon Europe – frame work program for research & innovation





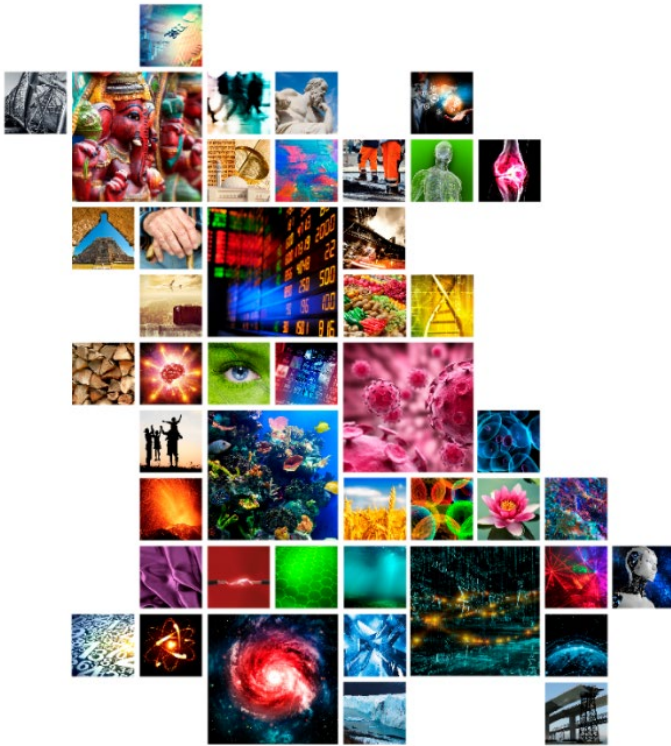
Talented researchers



Top researchers



ERC basics



European Research Council

Established by the European Commission

INDIVIDUAL RESEARCHERS
FROM ALL OVER THE WORLD
**LONG TERM
GRANTS**
TO PIONEERING PROJECTS
IN ANY FIELD OF FRONTIER RESEARCH



Life Sciences



Physical Sciences and Engineering



Social Sciences and Humanities



European Research Council
Established by the European Commission



National Contact Points for ERC

I share information about funding opportunities and support Swedish applicants



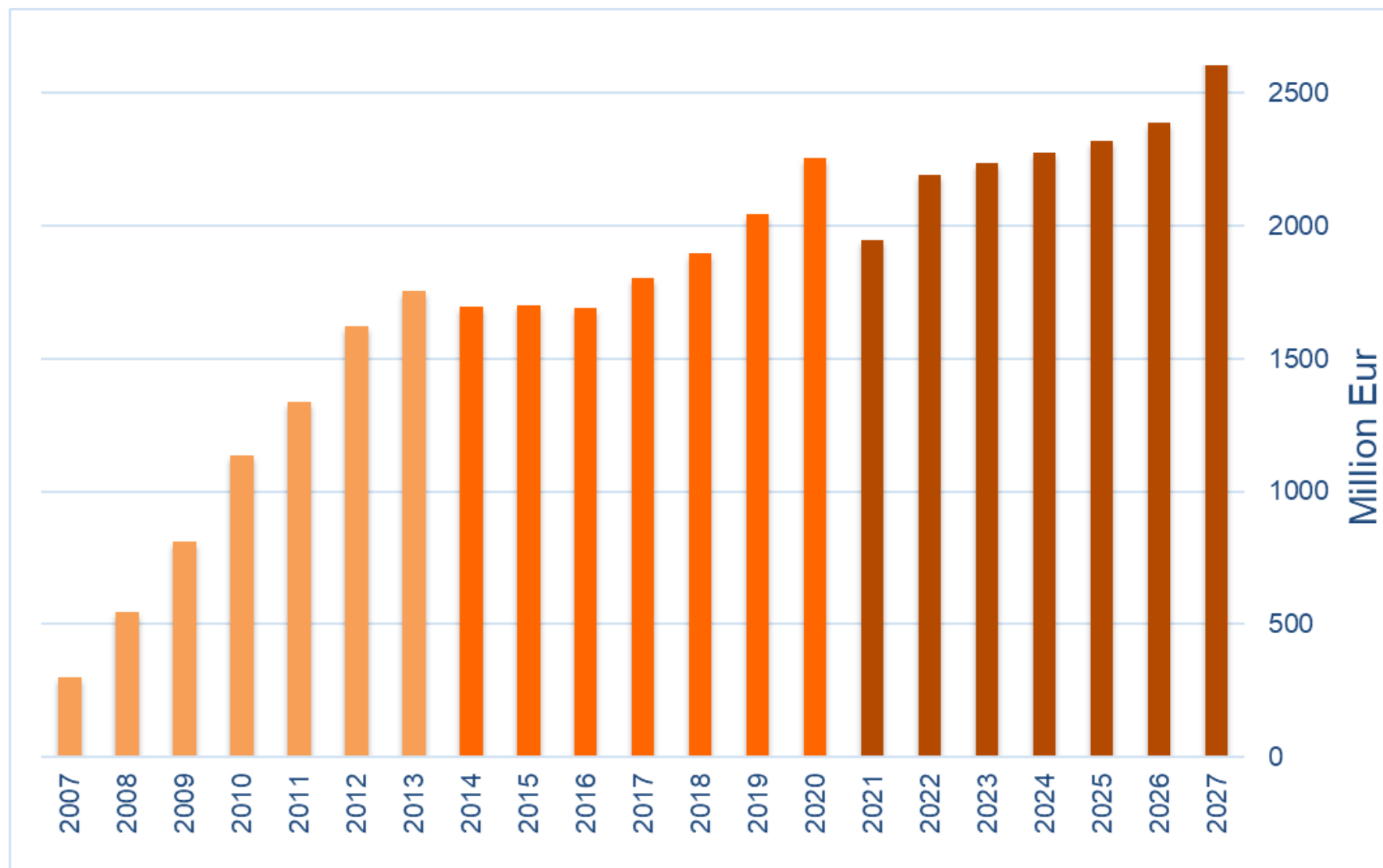
Anethe Mansen- primary NCP at the Swedish Research Council Anethe.Mansen@vr.se

ERC budget 2007 – 2027: EUR 36.5 billion

FP7: €7.5 billion

H2020: €13 billion

HE: €16 billion



Why to apply for ERC grant?

ERC offers independence, recognition & visibility to:

- work on a research topic of own choice
- gain financial autonomy for five years
- negotiate the best conditions of work with the host institution
- attract excellent team members and collaborators from anywhere in the world
- move with the grant to any place in Europe if desired (“portability of grants”)
- win additional funding

ERC grant schemes



Starting Grants

starters (2-7 years after PhD) up to € 1.5 Million
for 5 years



Consolidator Grants

Consolidators (7-12 years after PhD) up to € 2 Million
for 5 years



Advanced Grants

track-record of significant research achievements
up to € 2.5 Million
for 5 years



Synergy Grants

2 – 4 Principal Investigators up to € 10.0 Million for 6
years
1 PI can be based outside EU/Associated
Countries



Proof-of-Concept

bridging gap between research - earliest stage of marketable innovation
lump sum €150,000 for ERC grant holders

Excellence

is the sole evaluation criterion

Excellence of the Research Project

- Ground-breaking nature
- Ambition
- Feasibility of the research project

Excellence of the Principal Investigator

- Intellectual capacity
- Creativity
- Commitment

2024-2025 Calendar

ERC calls	Call Opening	Submission Deadline
Starting Grants ERC-2025-StG	10 July 2024	15 October 2024
Consolidator Grants ERC-2025-CoG	26 September 2024	14 January 2025
Advanced Grants ERC-2025-AdG	22 May 2025	28 August 2025
Synergy Grants ERC-2025-SyG	11 July 2024	6 November 2024
Proof of Concept ERC-2025-PoC	13 November 2024	13 March 2025 (deadline 1) 18 September 2025 (deadline 2)

ERC in figures



Over **14,000**
top researchers funded since
the ERC creation in 2007



Over **100,000**
researchers and other professionals
employed in ERC research teams



Over **2,400**
patents and other IPR applications
generated by ERC funding



Over **400**
start-ups identified as founded
or co-founded by ERC grantees



Over **220,000**
articles from ERC projects published
in scientific journals



Over **950** research institutions hosting
ERC grantees – universities, public or
private research centres in the EU or
Associated Countries



93
nationalities of
grant holders



14 Nobel Prizes, **6** Fields Medals, **11** Wolf Prizes
and other prizes awarded to ERC grantees

ERC in figures



Over **14,000**
top researchers funded since
the ERC creation in 2007



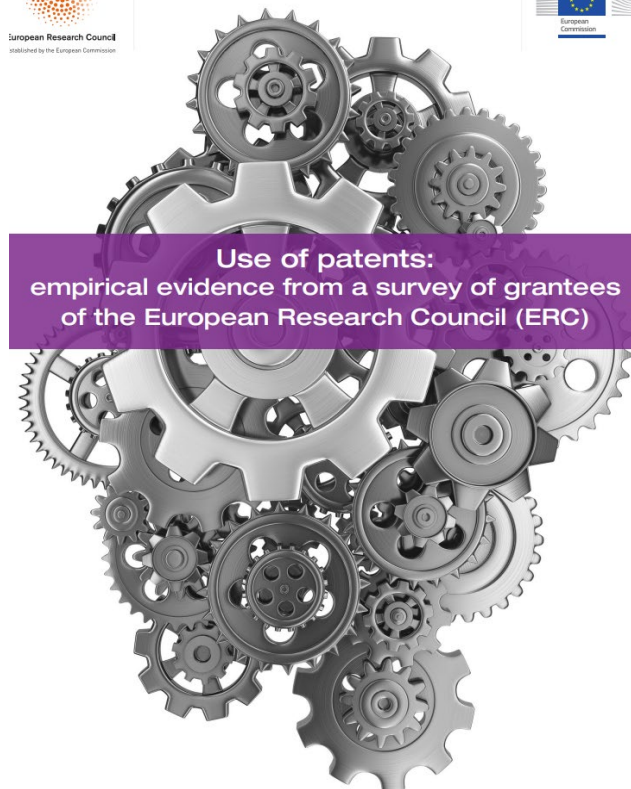
Over **100,000**
researchers and other professionals
employed in ERC research teams



Over **2,400**
patents and other IPR applications
generated by ERC funding



Over **400**
start-ups identified as founded
or co-founded by ERC grantees



Use of patents:
empirical evidence from a survey of grantees
of the European Research Council (ERC)

2024

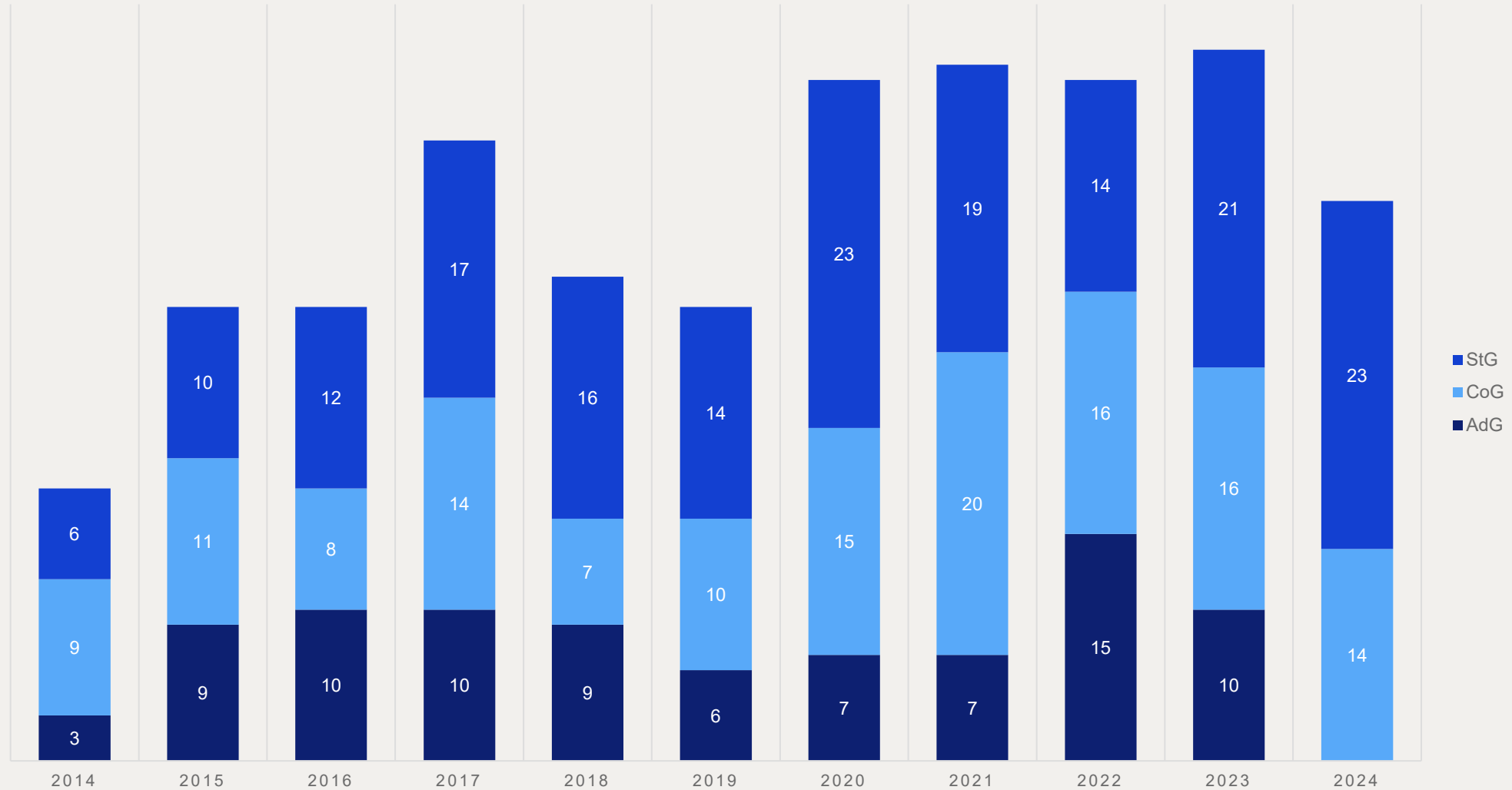
Table 3: Uses of patents: share of total patent applications

	Used directly	Willing to direct use	Sold patents	Willing to sell	Licensed	Willing to license	Start-up founded	Willing to found start-up	*Used
ERC sample	22.36%	33.33%	5.08%	17.37%	33.47%	22.03%	26.27%	14.83%	44.30%
InnoS&T PRI	29.61%	45.58%	9.93%	15.56%	23.40%	21.50%	14.42%	10.38%	**(46%)
InnoS&T Firms	53.33%	23.50%	4.99%	4.45%	6.55%	6.75%	3.23%	1.94%	**(58%)

*Used patents = if the patent has been used in any of the four possible ways in the table (used directly, sold, licensed, start-up).

**Our estimate

SE BEVILJADE ERC BIDRAG 2014-2023



ERC stöd från VR

ERC Information webinars on open calls

ERC StG, CoG and AdG – interview preparations

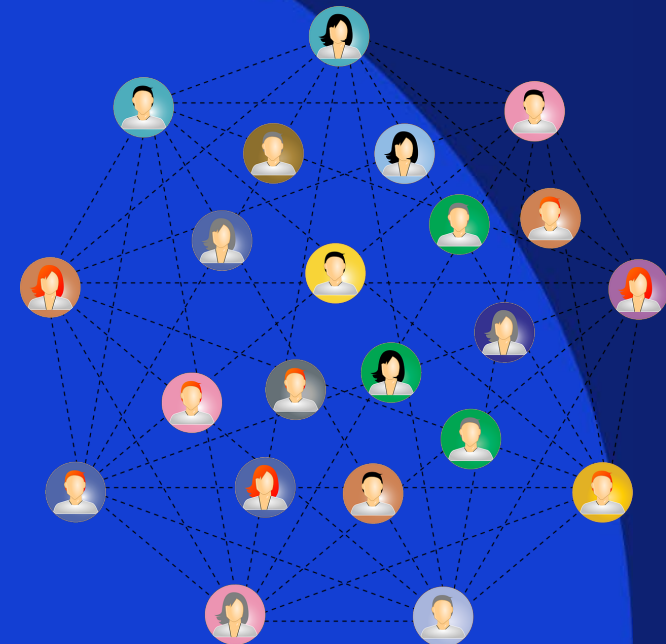
- Communication training
- Experiences from grant awardees
- Experiences from panel members
- Communication one-to-one coach

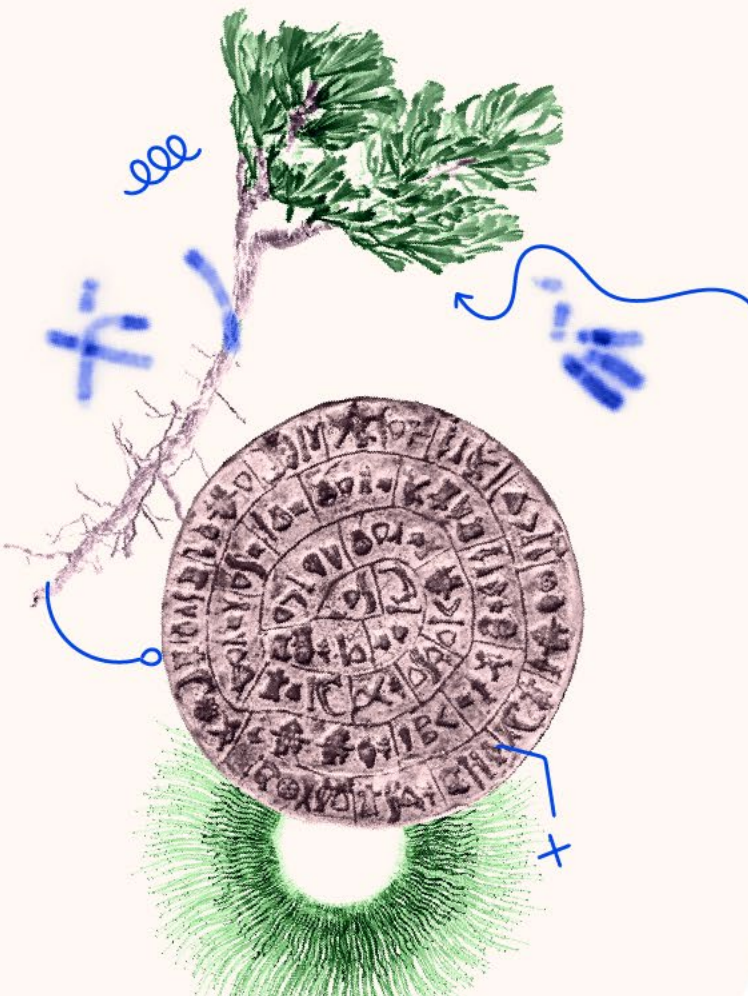
ERC StG, CoG, AdG– Extra Funding

- Candidates with A on reserve list

ERC Reception

- Ceremony for ERC awardees





Marie Skłodowska Curie Actions - launched 1996

Under Horizon 2020 (2014-2020), the MSCA:

Funded **1080 doctoral programmes**, of which 156 industrial doctoral programmes and 76 joint doctorates

Involved **4 700 companies**, of which **2 200 SMEs**

Involved **37% of researchers** from non-EU countries and around **1300 organisations** from non-EU and non-associated countries

Since 1996
budget
14 billion €
researchers
140 000
(39 000 PhDs)

Horizon Europe (2021-2027)

budget
6.6 billion €
researchers
65 000
(25 000 PhDs)

Under Horizon Europe, the MSCA will:

Strengthen organisations

The MSCA support excellent doctoral and postdoctoral programmes and collaborative projects worldwide, promoting structuring impact on organisations

Foster research and innovation beyond academia

The MSCA boost ties between academia and other non-academic organisations with various incentives, increasing fellows' exposure to other sectors

Build international links

The MSCA are key in attracting talent to Europe, building international, strategic partnerships, and promoting global research mobility and science cooperation

Marie Skłodowska-Curie Actions

18



Over the last 27 years the Marie Skłodowska-Curie Actions have funded thousands of researchers, of which **18** became Nobel Laureates. Today, we celebrate the great contribution of the MSCA in fostering excellence and a thriving scientific community.

Celebrating the 156th anniversary of Marie Skłodowska-Curie's birth...
ec.europa.eu/news/celebrating-156th-anniversary-marie-skłodowska-curie-birth...

[Marie Skłodowska-Curie actions 2021-2027 - Publications Office of the EU \(europa.eu\)](https://publications-office.europa.eu/marie-skłodowska-curie-actions)

National Contact Points for MSCA

We share information about funding opportunities and support Swedish applicants pre- and post award



Isabel Dellacasa Lindberg primary NCP at the
Swedish Research Council
Isabel.Dellacasa.Lindberg@vr.se



Erik Litborn– secondary NCP Vinnova
erik.litborn@vinnova.se

The MSCA have **5** main actions

Doctoral Networks

implement doctoral programmes (including joint doctorates and industrial doctorates) **by international partnerships** of organisations from different sectors. They train highly-skilled doctoral candidates, stimulate their creativity, enhance their innovation capacities and boost their employability in the long-term.

Postdoctoral Fellowships

support researchers' careers and foster excellence in research and innovation. Researchers holding a PhD can carry out their research activities, acquire new skills and develop their careers abroad, whilst developing competences in non-academic sectors and working within interdisciplinary teams.

Staff Exchanges

encourage short-term international and inter-sectoral exchanges of research and innovation staff through sustainable, collaborative projects in Europe and beyond. By doing so, they enhance knowledge and skills transfer and increase organisations' research and innovation capacities.

MSCA and Citizens

brings research and researchers closer to children, families and the public at large through the European Researchers' Night - the annual research communication and promotion event taking place at the end of September across EU Member States and Horizon Europe Associated Countries.

COFUND

co-finances regional, national and international doctoral and postdoctoral programmes for researchers' training and career development. The COFUND action spreads MSCA's best practices by setting high standards and excellent working conditions, and boosts training and international, interdisciplinary and inter-sectoral mobility.

Talents!



European
Commission

Objectives of the MSCA

[About MSCA - Marie Skłodowska-Curie Actions](#)

Excellence

- The MSCA support excellent researchers. They also foster excellence in research and innovation collaborations, knowledge transfer, methodologies and content, as well as in training, supervision and career guidance.

Mobility

- The MSCA support the mobility of researchers between countries, sectors and disciplines to acquire new knowledge, skills and competences.

Bottom-up and open to the world

- The MSCA are open to all domains of research and innovation and encourage international cooperation to set-up strategic collaborations.


Objectives of the MSCA

[About MSCA - Marie Skłodowska-Curie Actions](#)

Excellent recruitment, working conditions and inclusiveness

- The MSCA promote the principles of the [European Charter for Researchers](#), a set of principles underpinning the development of attractive research careers to support excellence in research and innovation across Europe. It outlines and specifies the roles, responsibilities and entitlements of

Effective supervision and career guidance

- The MSCA promote effective supervision and adequate mentoring and career guidance. This contributes to creating a supportive environment for the researchers to work. [The Guidelines for MSCA Supervision](#)  provide recommendations in this regard.

What does the MSCA funding cover?

For the researcher's salary

- a living allowance
- a mobility allowance
- if applicable; family, long-term leave and special need allowance

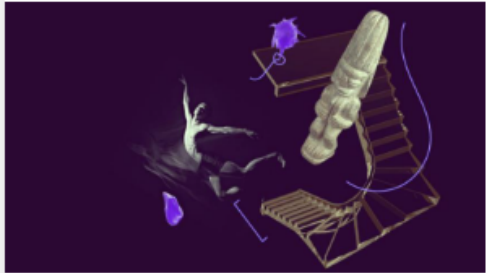
For the researcher's training

- research, training and network activities
- management and indirect costs

← Contribution rarely cover actual cost
- co-funding necessary

MSCA-Staff
Exchanges only
top-up salary

MSCA call dates 2025



Staff Exchanges call schedule

- The call for this action is now **closed**.
- Next call will open on **27 March 2025**.

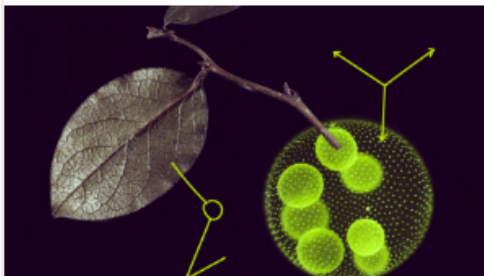
[Staff Exchanges quick application guide](#) →



COFUND call schedule

- The call for this action is now **open**.
- The call will close on **24 June 2025**.

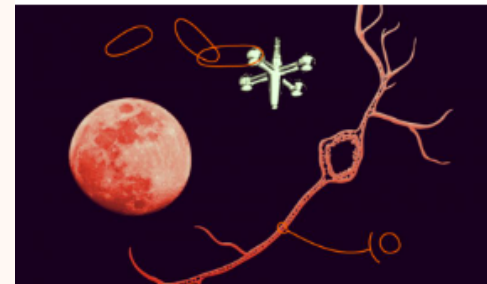
[Check quick application guide](#) →



Postdoctoral Fellowship call schedule

- The call for this action is **closed**.
- The next call will open on **8 May 2025**.

[Check the results for MSCA Postdoctoral Fellowship](#)

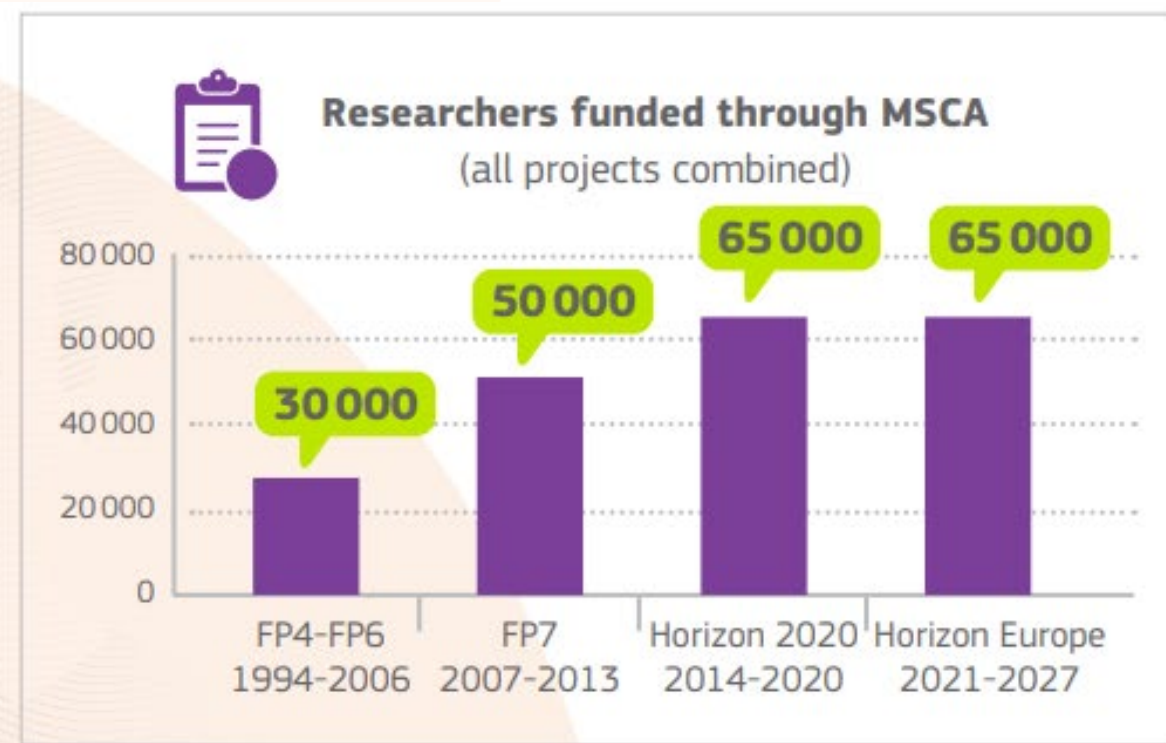
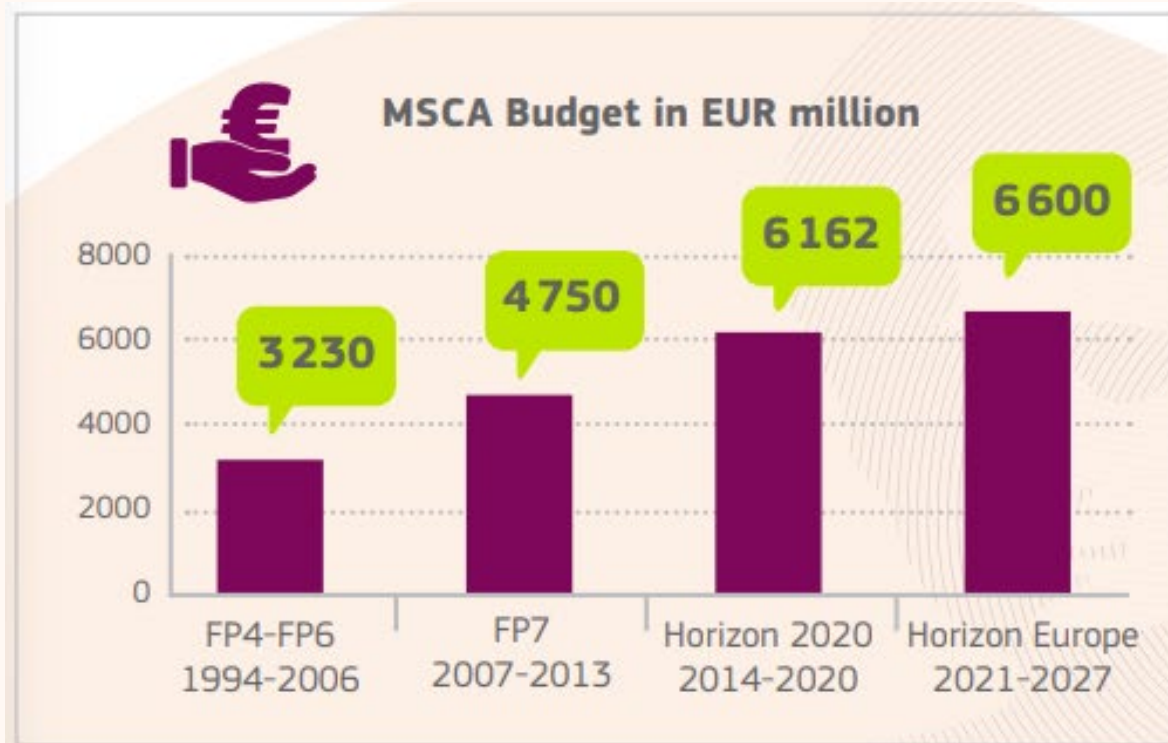


Doctoral Networks call schedule

- The call for this action is **closed**.
- The next call will open on **28 May 2025**.

[Check the results for MSCA Doctoral Network](#)

MSCA in numbers: funding and participants





Work programme 2023-2025

The update of the main Horizon Europe Work Programme 2023-2025 was adopted by the Commission on 17 April 2024, with the official reference C(2024) 2371.

8 scientific panels

✓ bottom up & open to all domains



EN

Horizon Europe

Work Programme 2023-2025

2. Marie Skłodowska-Curie Actions

(European Commission Decision C(2024) 2371 of 17 April 2024)

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2023-2024/wp-2-msca-actions_horizon-2023-2024_en.pdf

MSCA stöd från VR

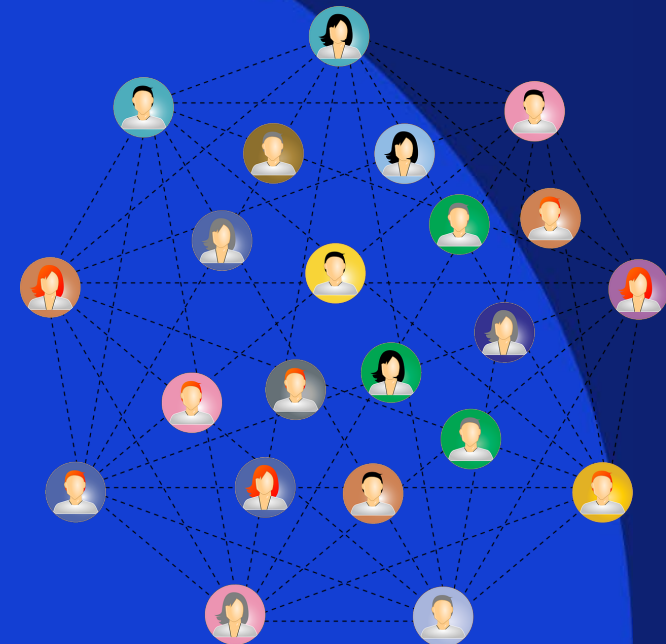


MSCA Information webinars organised by Swedish host organisations grants office, NCP:s invited

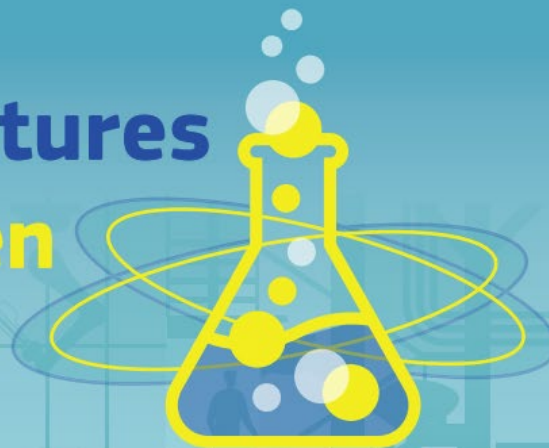
Train the Trainers for grants office, advance or beginners

MSCA Post Doctoral European Fellowship

- Candidates with Seal of Excellence that applied with a Swedish host organisation approved as administrating organisation by VR



Research infrastructures make science happen



When scientists **share knowledge and resources**
their results improve people's lives.

BIG RESULTS

National Contact Points for Research Infrastructures

We share information about funding opportunities and support Swedish applicants



Ekaterina Osipova - primary NCP at the Swedish Research Council ekaterina.osipova@vr.se



Julia Hellström – secondary NCP Vinnova julia.hellstrom@vinnova.se

Overall objective

Empower Europe through an integrated ecosystem of world-class and accessible national and pan-European RIs, which help covering the continuum of needs from fundamental knowledge creation to technology deployment and support the implementation of Open Science policies as well as European technology leadership

Work programme 2025

- EC plan pre-publication early April
- Adoption of the works programme April 2025
- First calls May 2025, close in September
- 19 calls are planned through 4 destinations
- Budget ~400 M Euro

Four destinations (thematic areas)

!DRAFT!

INFRADEV - Consolidation and evolution of the European Research Infrastructure landscape

INFRAEOSC - Enabling an operational, open and FAIR EOSC ecosystem

INFRATECH - Next generation of scientific instrumentation, tools, methods, and advanced digital solutions of research infrastructures and foster innovation and co-creation with industry

INFRASERV - Research infrastructures services to support health research, accelerate the green transition and the digital transformation, and advance frontier knowledge

Project examples INFRA-DEV

- **ESSnuSBplus**

The project examines technical requirements and explores the possibility of constructing facilities for neutrino research.

- **RITIFI**

The project will develop a new innovative model to improve access to research and technology infrastructure.



Project example INFRA-EOSC

Skills for the European Open Science Commons (SKILLS4EOSC)

The project aims to unify the existing training landscape into a common and trusted pan-European ecosystem of CCs on OS and data, to accelerate the upskilling of European researchers and data professionals in the field of FAIR and Open Data, intensive-data science, and scientific data management.



Project example INFRA-SERV

Recyclable materials development at analytical research infrastructures: RE-MADE @ ARI

The project will coordinate access to several dozen European analytical research infrastructures to spark a shift to the circular economy, which is needed to address the decrease in finite resources.



Project example INFRA-TECH

**New science in Radio Astronomy:
applying cutting-edge technology
to enhance the entire data chain,
from receiver to final output**

The project will enhance European major research infrastructures in radio astronomy by developing common building blocks for technological solutions beyond state-of-the-art.



We encourage you/ your researchers to apply!

The program aims to develop research infrastructure as well as related solutions and services, but the calls are open to a broad range of actors from various research fields, where expertise from multiple disciplines is sought to contribute to the development and functionality of the infrastructure.