

2024 – 2025



EVROPSKA NOČ RAZISKOVALCEV



TRANSFORM
4EUROPE

FACTUMEVENT



»Financira Evropska unija. Za izražena stališča in mnenja odgovarja samo avtor (ali avtorji) in ne odražajo nujno stališč Evropske unije ali Evropske izvajalske agencije za raziskave. Niti Evropska unija niti Evropska izvajalska agencija za raziskave ne moreta biti odgovorna zanje.«

MSCA DOCTORAL NETWORKS CALL 2024

dr. Stojan Sorčan,
MVZI

PRAVNO OBVESTILO:

Na vseh dogodkih projekta oooZnanost! poteka snemanje in fotografiranje za namen promocije in poročanja o dogodkih. Če vstopite na lokacijo (spletnega) dogodka, boste lahko posneti in fotografirani. Z vstopom na to lokacijo, dajete dovoljenje organizatorjem in Evropski komisiji, da vas lahko snemajo, fotografirajo, zvočno snemajo in uporabijo vaše posnetke po lastni presoji. Obiskovalci zato ne boste uveljavljali nobene odgovornosti proti organizatorjem in Evropski komisiji v zvezi z zgoraj navedenim.

V kolikor se z zgoraj navedenim ne strinjate, vljudno prosimo, da s tem seznanite organizatorje na: ern@um.si. E-sporočilu obvezno priložite visokokakovostni sken fotografije z osebnega dokumenta, da vas lahko organizator izloči iz vseh posnetkov in fotografij skupaj z navedbo, na kateri lokaciji in katerega dne bi lahko bili posneti s strani organizatorjev. Pooblaščen oseba za varstvo podatkov Univerze v Mariboru je izr. prof. dr. Miha Dvojmoč (dpo@um.si).



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA VISOKO ŠOLSTVO,
ZNANOST IN INOVACIJE

MSCA DOCTORAL NETWORKS CALL 2024



Stojan Sorčan, MVZI
NCP MSCA

Ljubljana, 28. maj 2024

● MREŽA
NACIONALNIH
KONTAKTNIH TOČK
Obzorje Evropa



Main goals of the programme:

Maximise its impact and deliver on the **EU's strategic priorities**, such as the recovery, green and digital transitions, and tackles global challenges to improve the quality of our daily lives.

Enhance access to excellence for researchers across Europe to foster participation and collaboration.

Foster the EU's industrial competitiveness and its innovation performance, notably supporting market-creating innovation via the European Innovation Council and the European Institute of Innovation and Technology.

Strengthen EU science and technology by increasing **investment in highly skilled people and cutting-edge research**



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

** Non-nuclear activities of JRC

Introduction

The European Union needs a strong, resilient, flexible and creative human resource base, with the right combination of skills to match the future needs of the labour market, to innovate and to convert knowledge and ideas into products and services for economic and social benefit.



The Excellent Science pillar aims to increase the EU's global scientific competitiveness by reinforcing and extending the excellence of the Union's science base.

European Research Council

- Frontier research by the best researchers and their teams

Marie Skłodowska-Curie Actions

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

Research Infrastructures

- Integrated and interconnected world-class research infrastructures



Postdoctoral Fellowship

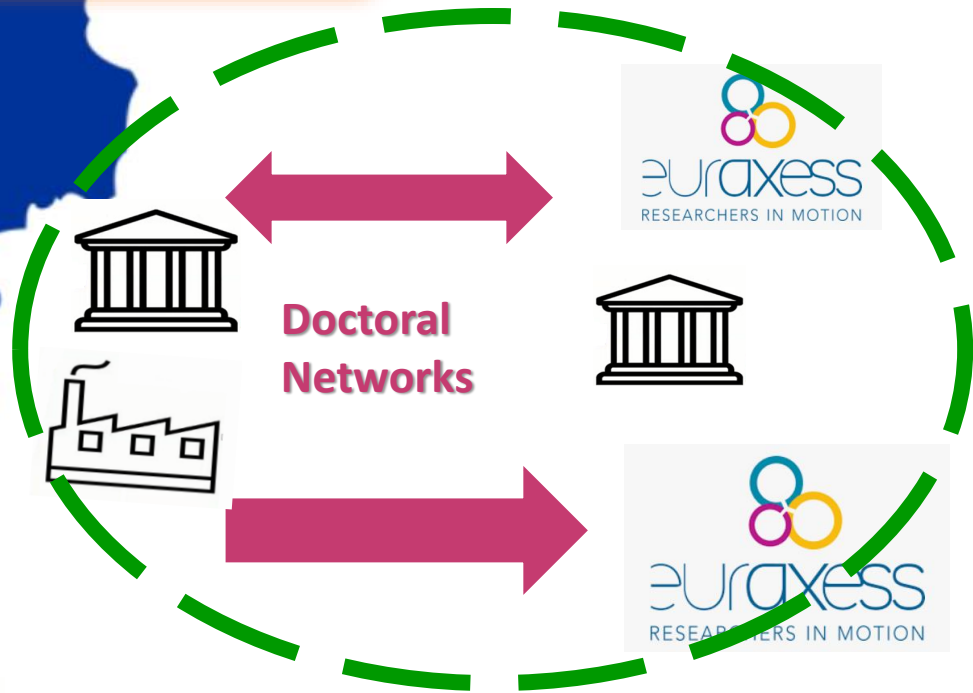
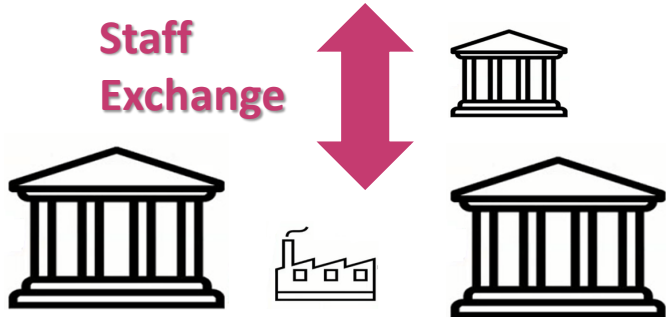
- Recruited researchers can be of any nationality and must comply with the following **mobility rule**: they must not have resided or carried out their main activity (work, studies, etc.) in the country of the recruiting beneficiary for more than 12 months in the 36 months immediately before their recruitment date.



COFUND



© Aivazovsky / WikiCommons

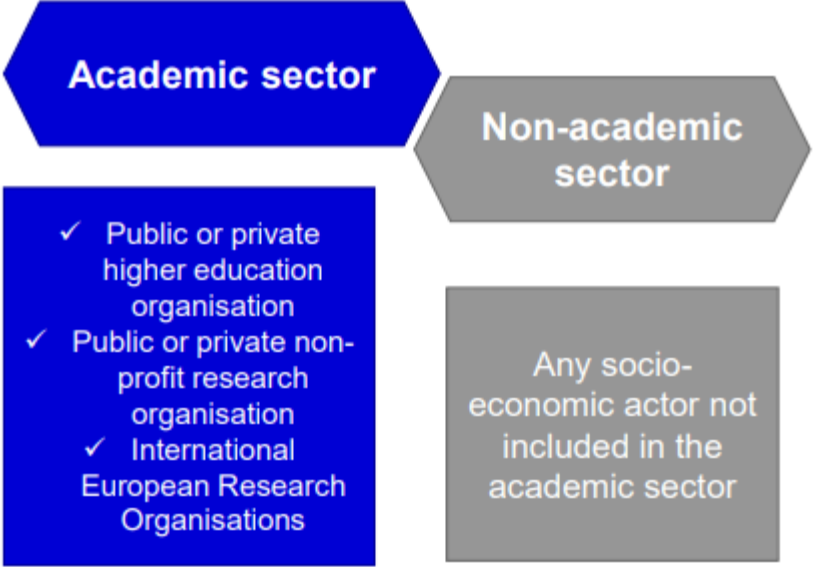


3i Dimension of MSCA

INTERNATIONAL mobility rule
...” must not have resided or carried out their main activity (work, studies, etc.) in the country of the recruiting beneficiary for more than 12 months in the 36 months immediately before referent date.”

INTERSECTORAL mobility
via secondments, non-academic placement and industrial doctorates

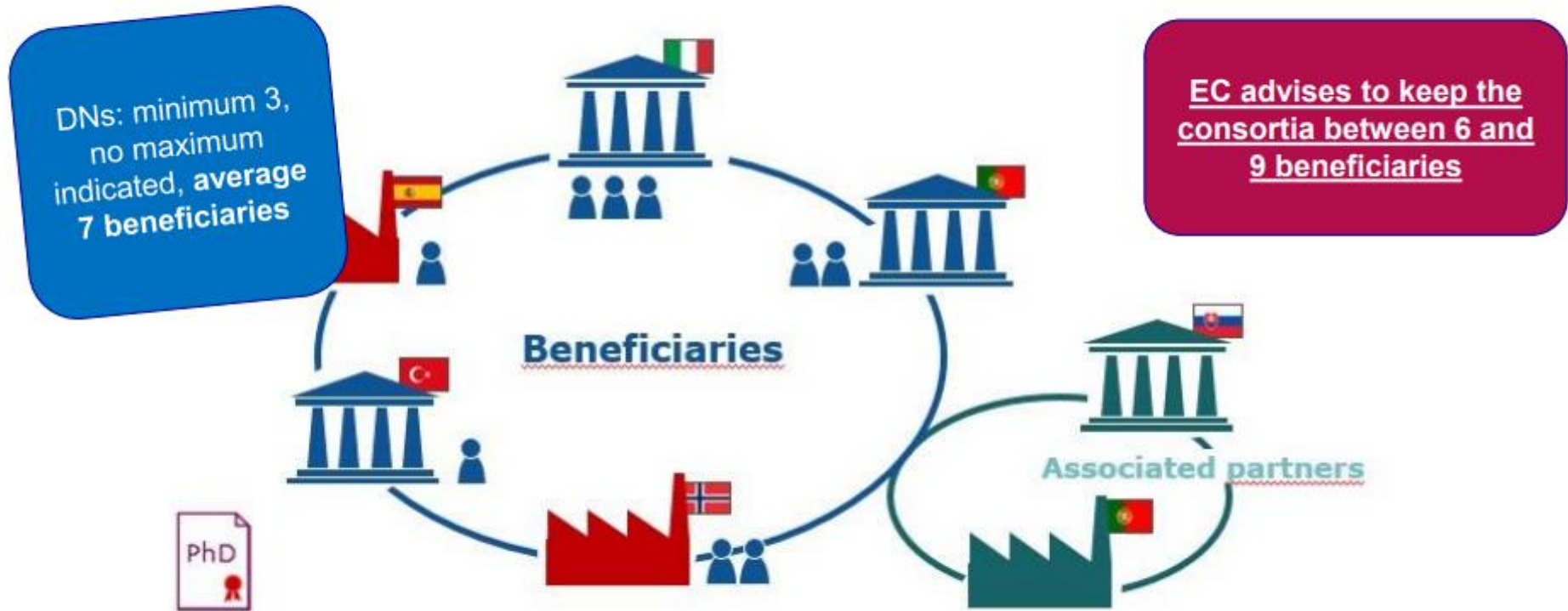
INTERDISCIPLINARY projects
8 evaluation panels
(LIFE, CHE, PHY, MAT, ENG, ECO, SOC, ENV)



Aim is to develop transferable skills (e.g. innovation, entrepreneurship) leading to improved **employability and career prospects within and outside academia**

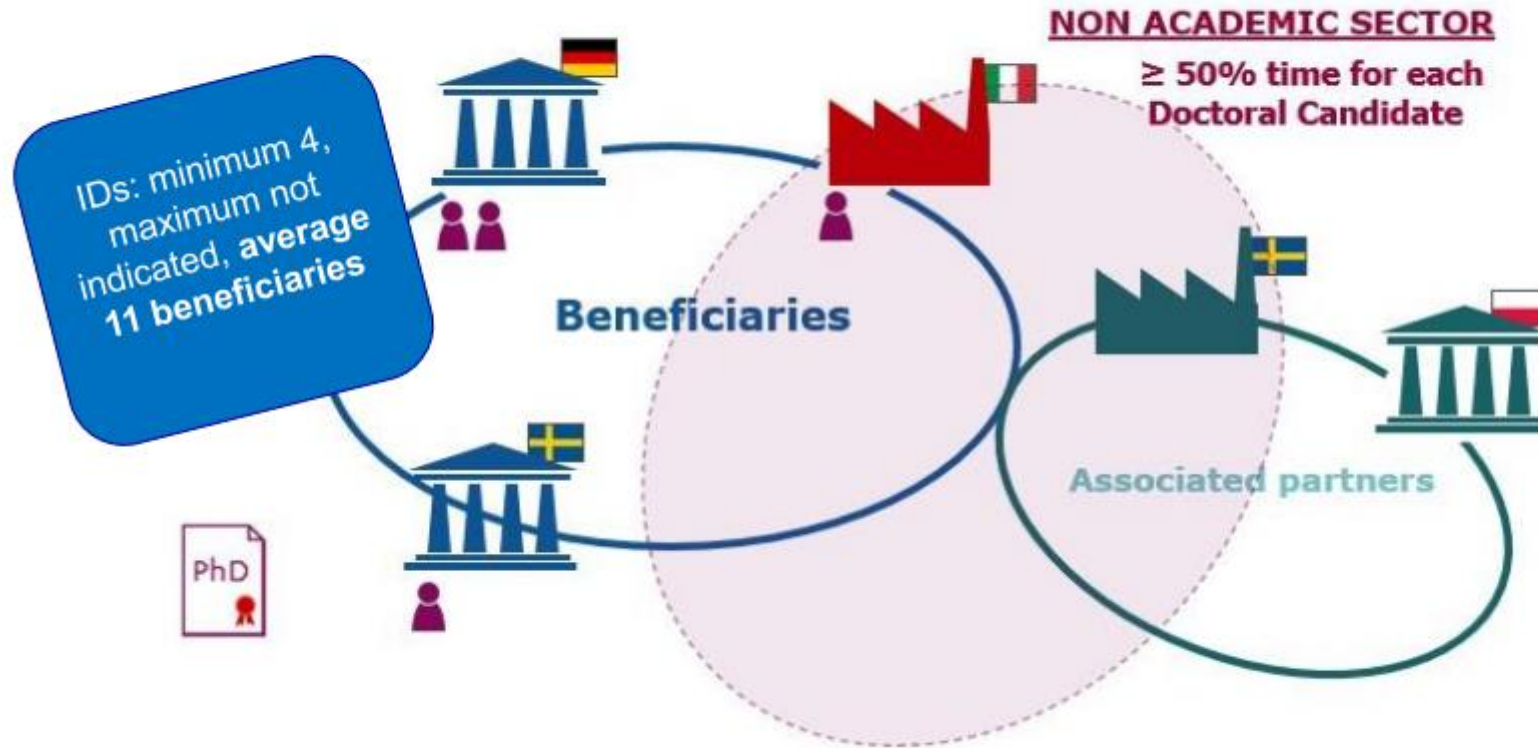
Doctoral Network – example consortium

MSCA-NET



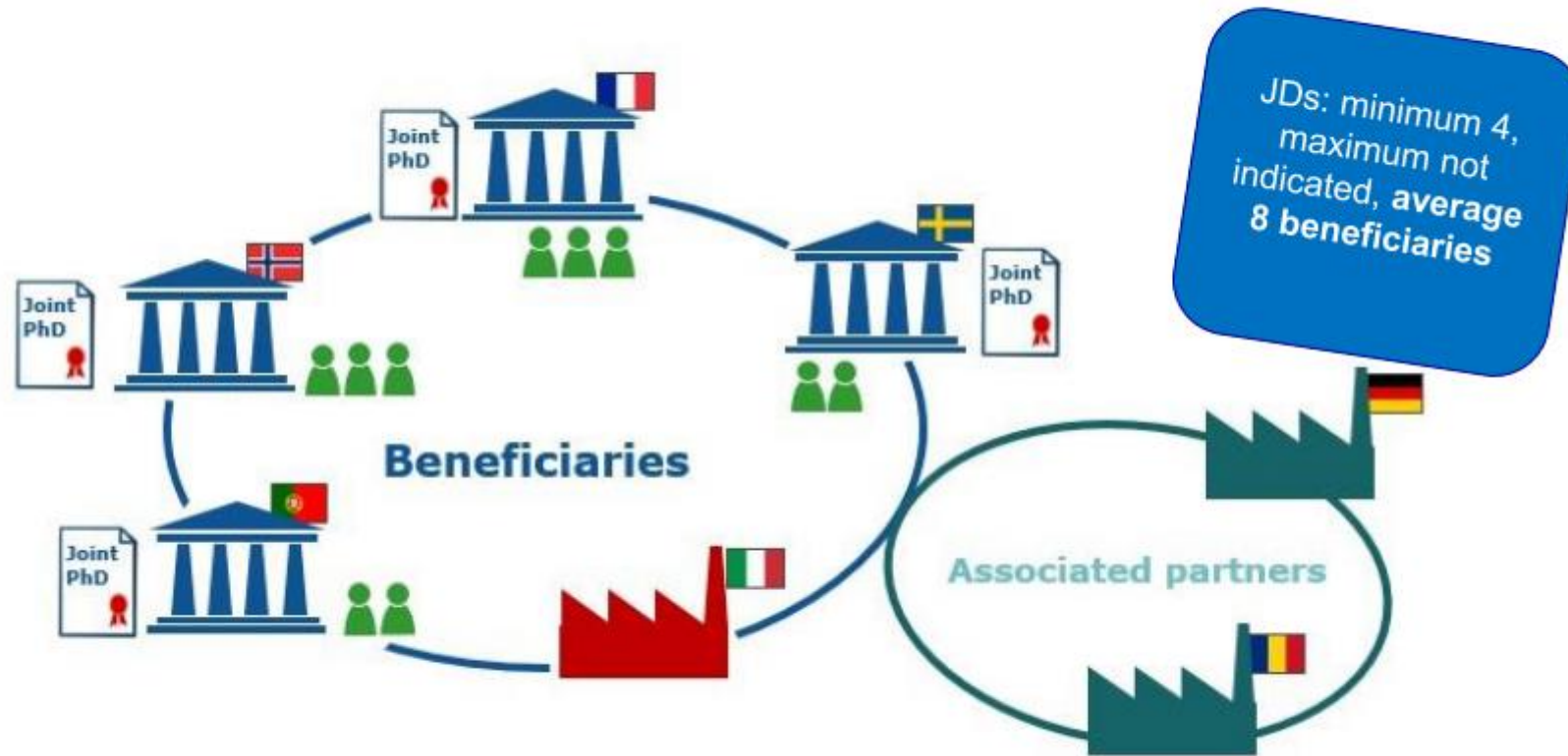
Industrial Doctorate – example consortium

MSCA-NET



Joint Doctorate – example consortium

MSCA-NET



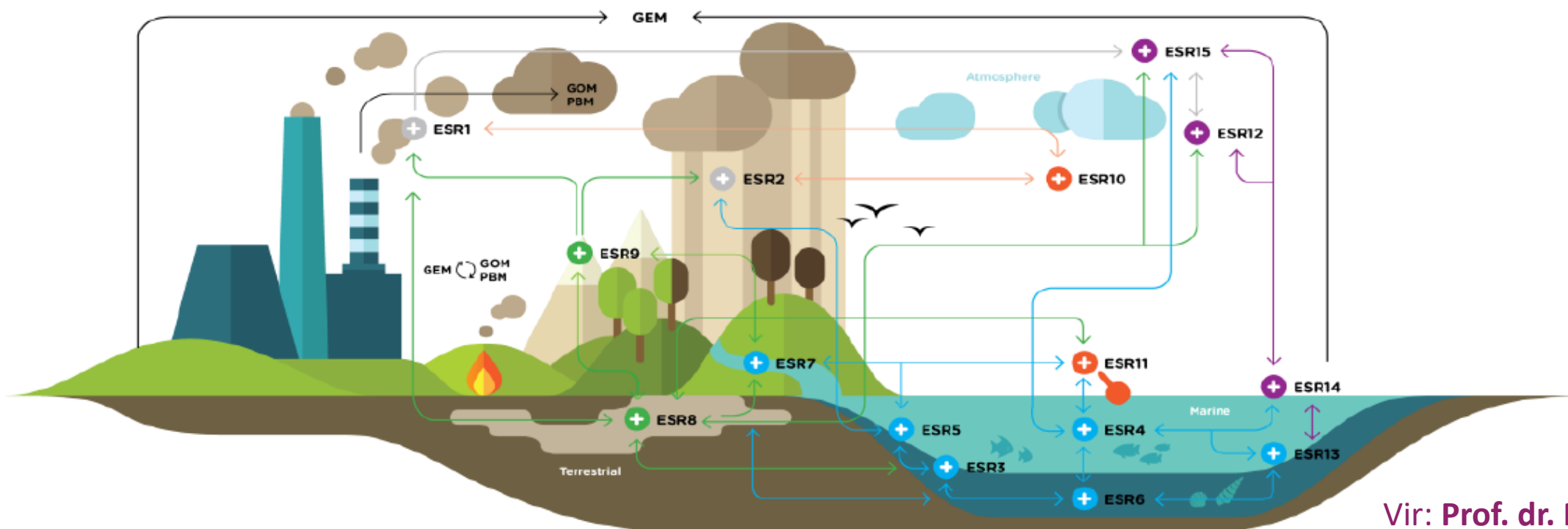
15 Early Stage Researchers

Global biogeochemical Hg Cycle

www.gmos-train.eu

The overall objectives are:

- 1) to provide urgently needed training in Hg science within the context of the UNEP Minamata Convention
- 2) to fill key knowledge gaps in biogeochemical Hg cycling linking anthropogenic emissions and Hg in marine food webs



Legend 1

- WP1 (ESRs 1-2) Atmospheric processes
- WP2 (ESRs 3-7) Marine processes
- WP3 (ESRs 8-9) Terrestrial-land-water systems
- WP4 (ESRs 10-11) Traceability & sensors
- WP5 (ESRs 12-13) & WP6 (ESRs 14-15) Modeling

Legend 2

- ESR1 Oxidants and RM
- ESR2 Kinetics/deposition/re-emission
- ESR3 C/H/Hg compound specific analyses
- ESR4 Ocean speciation/cruises
- ESR5 Coastal dynamics Methylation/demethylation
- ESR6 Lower food web
- ESR7 Land water interactions
- ESR8 Permafrost
- ESR9 Terrestrial/canopy
- ESR10 Traceability/comparability
- ESR11 Sensors
- ESR12 Regional models
- ESR13 Ecosystem model
- ESR14 Ocean/atmosphere exchanges
- ESR15 Global models

Vir: Prof. dr. Milena Horvat, IJS, MIZŠ Info day, 3.5.21

ViroiDoc na prvi pogled

Viroidi in viroidom podobne RNA

Nalezljive enojne krožne molekule RNA

Premalo raziskani, razširjeni in hitro razvijajoči

Grožnja pridelkom in svetovni prehranski varnosti

Viroidne bolezni vplivajo na pridelek in kakovost zelenjave, sadnega drevja, hmelja, konoplje, vinske trte, kokosovih in oljnih palm ter povzročajo škodo v milijonih EUR.

Mednarodna trgovina in globalno segrevanje vplivajo na dinamiko patogenov (pojavnost, razširjenost gostiteljev, resnost bolezni)

Usposabljanje ViroiDoc

Strokovno znanje molekularne biologije, genetike in genomike, NGS in bioinformatike, integracije omike, fenotipizacije, tehnologij senzorjev in CRISPR/Cas

Usposobljenost za programiranje, strojno učenje, statistiko, vizualizacijo in upravljanje podatkov, komuniciranje o odprti znanosti, vodenje projektov, pridobivanje projektov in štipendij

Osnove pravic intelektualne lastnine in podjetništva

Ambicija ViroiDoc

- 1 Odpravljanje vrzeli v znanju (molekularna patogeneza, interakcije z dejavniki gostitelja, transport)
- 2 Izdelava ocen tveganja

- 3 Razvoj rešitev za terensko diagnostiko na podlagi CRISPR/Cas in senzorjev ter slikanje viroidov v živo
- 4 Zagotavljanje ukrepov proti viroidom: tarče za razvoj odpornosti, spodbujevalci rastlinske imunosti, biopesticidi na osnovi RNA, protiviroidni terapevtiki

Vpliv

Spodbujanje kariere na področju raziskav, razvoja tehnologij in storitev v kmetijskih sistemih, biomedicini in biotehnologiji

Odlično okolje na področju raziskav in inovacij v EU ter trajnostno sodelovanje

Ozaveščanje javnosti o tveganjih in priložnostih povezanih z viroidi in viroidom podobnimi RNA

Priporočila za politiko varnosti hrane, strategije za obvladovanje bolezni

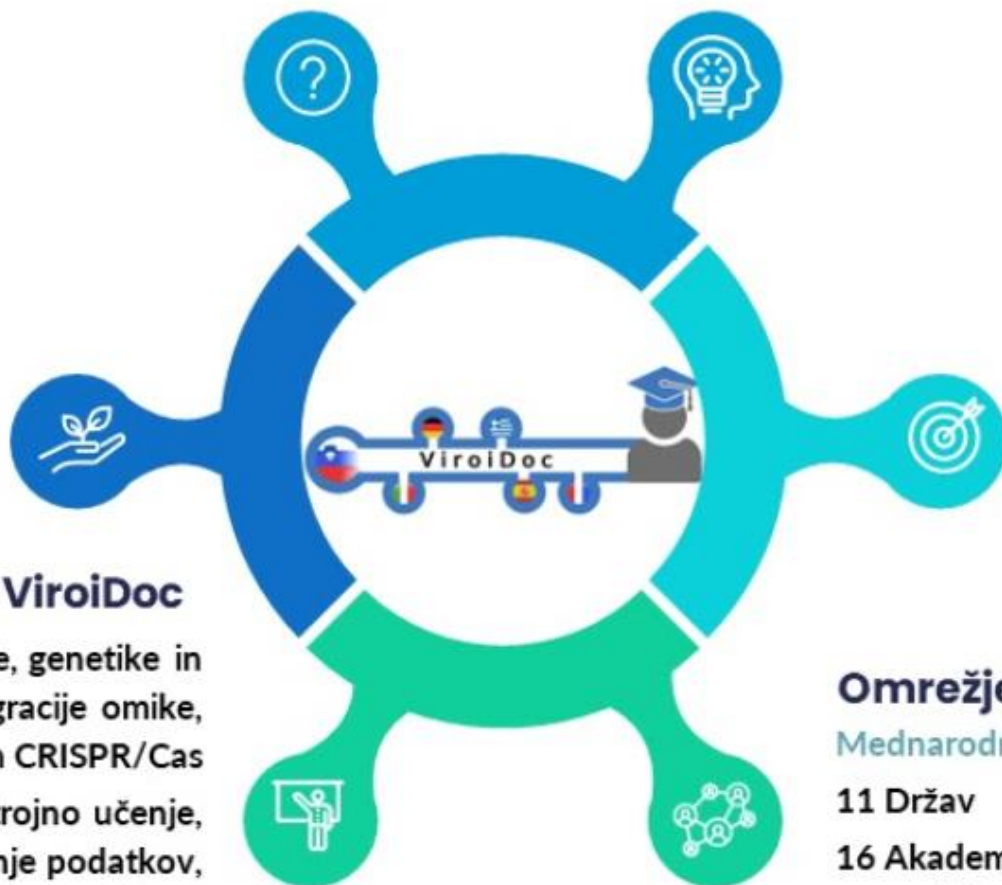
Omrežje

Mednarodno, interdisciplinarno in medsektorsko

11 Držav

16 Akademskih ustanov – Znanstveno in tehnološko usposabljanje

6 Industrijskih partnerjev – Usposabljanje za prenosljive spretnosti, mehke veščine in raziskovalne napotitve



MSCA KEY FEATURES

MSCA-NET



Supporting researchers' training, skills and career development (all stages of career)

Excellent doctoral programmes, postdoctoral fellowships and collaborative projects are **open to researchers from all over the world.**



Excellent research in all domains(bottom-up)

The MSCA promote effective **supervision and adequate mentoring** and career guidance.



Attractive working and employment conditions

Promoting **Open science and responsible research and innovation.**



International, intersectoral and interdisciplinary mobility and cooperation

Contribution to the European Green Deal by bottom-up and frontier/applied research and providing MSCA Green Charter recommendations.



Strong collaboration with industry and SMEs

Reinforced synergies within Horizon Europe and between programmes: **Erasmus+, ERC, EIT, COST, EIC, Research Infrastructures, ...**



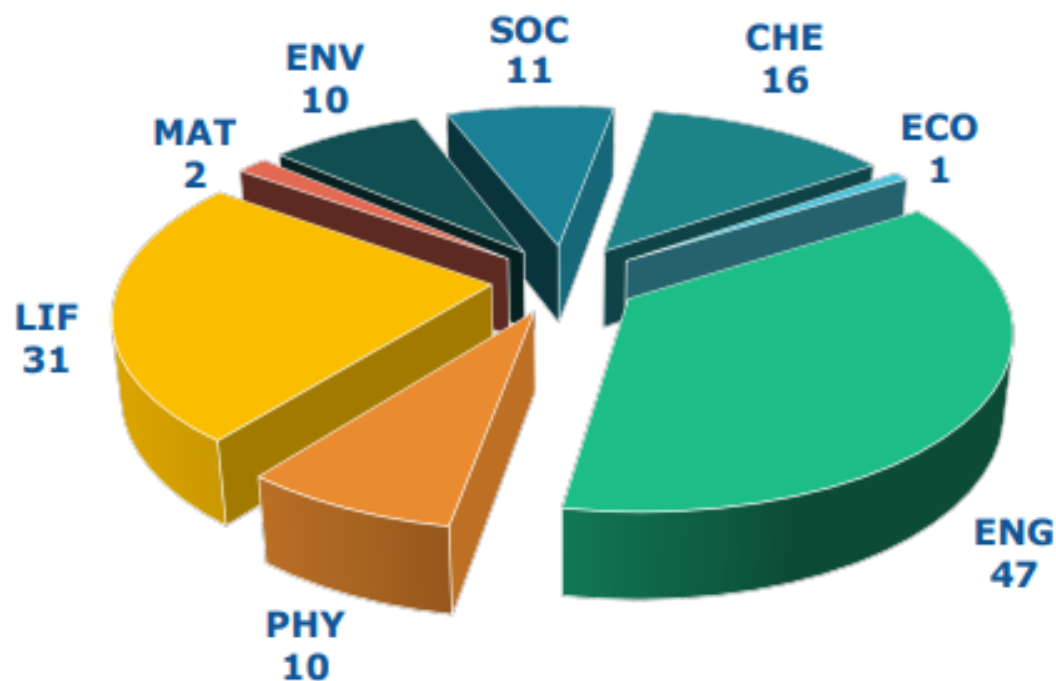
Structuring impact on organisations through excellent doctoral and postdoctoral programmes

Synergies between funding instruments: **European Regional Development Fund (ERDF); European Social Fund (ESF+)**

DN 2023 call

Success rates per panel/ mode

128 Main list proposals



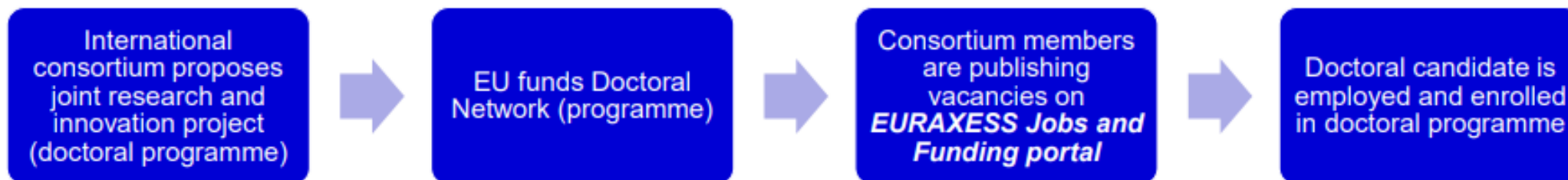
| Panel | DN | DN-ID | DN-JD | Total |
|---------------------|--------------|--------------|-------------|--------------|
| CHE | 14 | 1 | 1 | 16 |
| ECO | 1 | 0 | 0 | 1 |
| ENG | 42 | 3 | 2 | 47 |
| ENV | 10 | 0 | 0 | 10 |
| LIF | 27 | 3 | 1 | 31 |
| MAT | 2 | 0 | 0 | 2 |
| PHY | 8 | 0 | 2 | 10 |
| SOC | 9 | 1 | 1 | 11 |
| Total | 113 | 8 | 7 | 128 |
| Success Rate | 12.3% | 12.3% | 8.9% | 12.1% |

| CHE | ECO | ENG | ENV | LIF | MAT | PHY | SOC | Total |
|-------|------|-------|-------|-------|-------|-------|-------|-------|
| 11.8% | 5.6% | 12.2% | 12.2% | 12.1% | 15.4% | 12.3% | 12.2% | 12.1% |

Consortium research and innovation project setting up doctoral programmes, including

- **Industrial Doctorates:** Training in academia and industry (50% in the non-academic sector), joint supervision
- **Joint Doctorates:** Joint collaborations leading to a joint/multiple doctoral degree, joint selection and supervision; pre-agreement for joint degrees required

| | |
|----------|--|
| Aim | <ul style="list-style-type: none">✓ Respond to well-identified needs in various R&I areas (bottom-up),✓ Expose the researchers to the academic and non-academic sectors, and offer training in research related, as well as competences relevant for innovation and long-term employability |
| Focus | <ul style="list-style-type: none">✓ Research and transferable skills, (intersectoral secondments),✓ Career development plan and supervision,✓ Internationalisation / attractiveness of organisations/ doctoral programmes |
| Duration | <p>Programme: max. 48 months, 60 months for Joint Doctorates Fellowship: between 3 and 36 months, 48 months for Joint Doctorates</p> |



The following budget categories apply:

| MSCA Doctoral Networks | Contributions for recruited researchers | | | | | Institutional unit contributions | |
|---------------------------------------|--|---------------------------|---|--|--|---|---|
| | per person-month | | | | | per person-month | |
| | Living allowance | Mobility allowance | Family allowance (if applicable) | Long-term leave allowance (if applicable) | Special needs allowance (if applicable) | Research, training and networking contribution | Management and indirect contribution |
| | EUR 4010 | EUR 710 | EUR 660 | EUR 4720 x % covered by the beneficiary | requested unit ¹²⁵ x (1/number of months) | EUR 1600 | EUR 1200 |

How to apply?

If you are a supervisor in an organisation



build a consortium with other academic and non-academic partners and submit a proposal to the EC.

If you are a PhD student



search for a position published by a successful DN project and apply to the host organisation directly.



Doctoral Networks

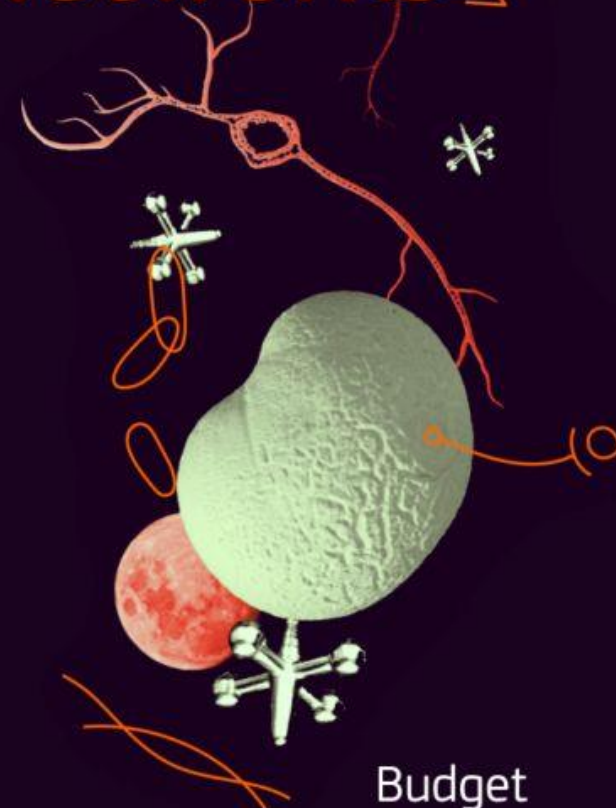
CALL 2024

Opening:

29 • 05 2024

Deadline:

27 • 11 • 2024



Budget

€608.6 million

MSCA

Marie Skłodowska-Curie **Actions**

Developing talents, advancing research



Supported researchers of **any nationality** must be **doctoral candidates** (not already in possession of a doctoral degree at the date of recruitment).

Mobility rule: must not have resided or carried out main activity in the country of the recruiting beneficiary for more than **12 months in the 36 months** immediately before their recruitment date.

Researchers **must be enrolled in a doctoral programme**, in at least 1 EU Member State/Associated Country (at least 2 for Joint Doctorates).

Recruitment Process

- Advertise and publish vacancies internationally
- Beneficiaries must publish vacancies on the **EURAXESS Jobs and Funding portal**
- Follow an open, transparent, impartial equitable and merit-based recruitment procedure



Recruitments have to be in accordance with the European Charter and Code of Conduct for the Recruitment of Researchers.

MSCA-NET

The screenshot shows the EURAXESS website interface. At the top, there is a navigation bar with 'Home', 'Jobs and Funding', 'Career Development', 'Partnering', 'Information and Assistance', 'National Portals', and 'Worldwide'. Below this, there is a search bar with the text 'Search for jobs (114)'. The search filters are set to 'Keywords: EUROPEAN RESEARCH PROGRAMME HE / MSCA', 'Country: Select', 'European Research Programme: HE / MSCA', 'Researcher Profile: Select', 'Research Field: Select', and 'Sector: Select'. The search results show a job listing for 'POLITECNICO DI MILANO' with the title 'Doctoral Candidate (m/f/d) in the MSCA Doctoral Network TRACES on the topic "Multi-physics simulation of mechanical de-icing of aircraft"'. The listing includes details such as 'Application Deadline: 07/03/2023 - 23:59 (Europe/Rome)', 'European Research Programme: HE / MSCA', 'Researcher Profile: First Stage Researcher (RT)', and 'Research Field: Engineering + Aerospace engineering, Engineering + Mechanical engineering'. The date '12 FEB' and 'ITALY' are displayed in a blue box at the bottom of the listing.

Search Jobs and Opportunities

Take advantage of EURAXESS and find your job, funding or hosting opportunity. Browse through thousands of vacancies and fellowships from Europe and around the world.

Filter by

Offer Type

Country

Research Field

Researcher Profile

Sector

Funding Programme

Search results (2)

Showing results 1 to 2

Hide Filters

HOSTING
AUSTRIA
STATUS OPEN

Austrian Academy of Sciences, The Human Resource Department | Posted on: 5 June 2024

MARIE SKLODOWSKA CURIE FELLOWSHIP PROGRAMME - CALL FOR THE EXPRESSION OF INTEREST

MARIE SKLODOWSKA CURIE FELLOWSHIP PROGRAMME - CALL FOR THE EXPRESSION OF INTEREST The OeAW invites post-doctoral researchers who are eligible for an application under the open call of the Marie Skłodowska Curie Postdoctoral Fellowships (MSCA-PF) and who intend to find a supervisor at the OeAW to...

Funding Programme: HE / MSCA

Deadline: 21 June 2024

Website: <http://www.oeaw.ac.at>

[Share](#)

JOB
AUSTRIA
EXPIRES SOON

Medical University of Vienna | Posted on: 26 March 2024

MSCA-DN eRaDicate - Development of a highly innovative label-free & deep-learning based analysis method: Histoplasmonic Tissue Cytometry

The Marie Skłodowska Curie Doctoral Network: "Innovative Ligands for Nuclear Receptors to Eradicate Cancer Relapse", (eRaDicate) funded by the European Community is recruiting 11 young researchers. Research project: Development of a highly innovative label-free & deep-learning based analysis method...

Department: Research & Development

Work Locations: Number of offers: 1, Austria, TissueGnostics GmbH, Vienna, 1020, Taborstraße 10

Research Field: Computer science » Programming
Computer science » Other

Researcher Profile: First Stage Researcher (R1)

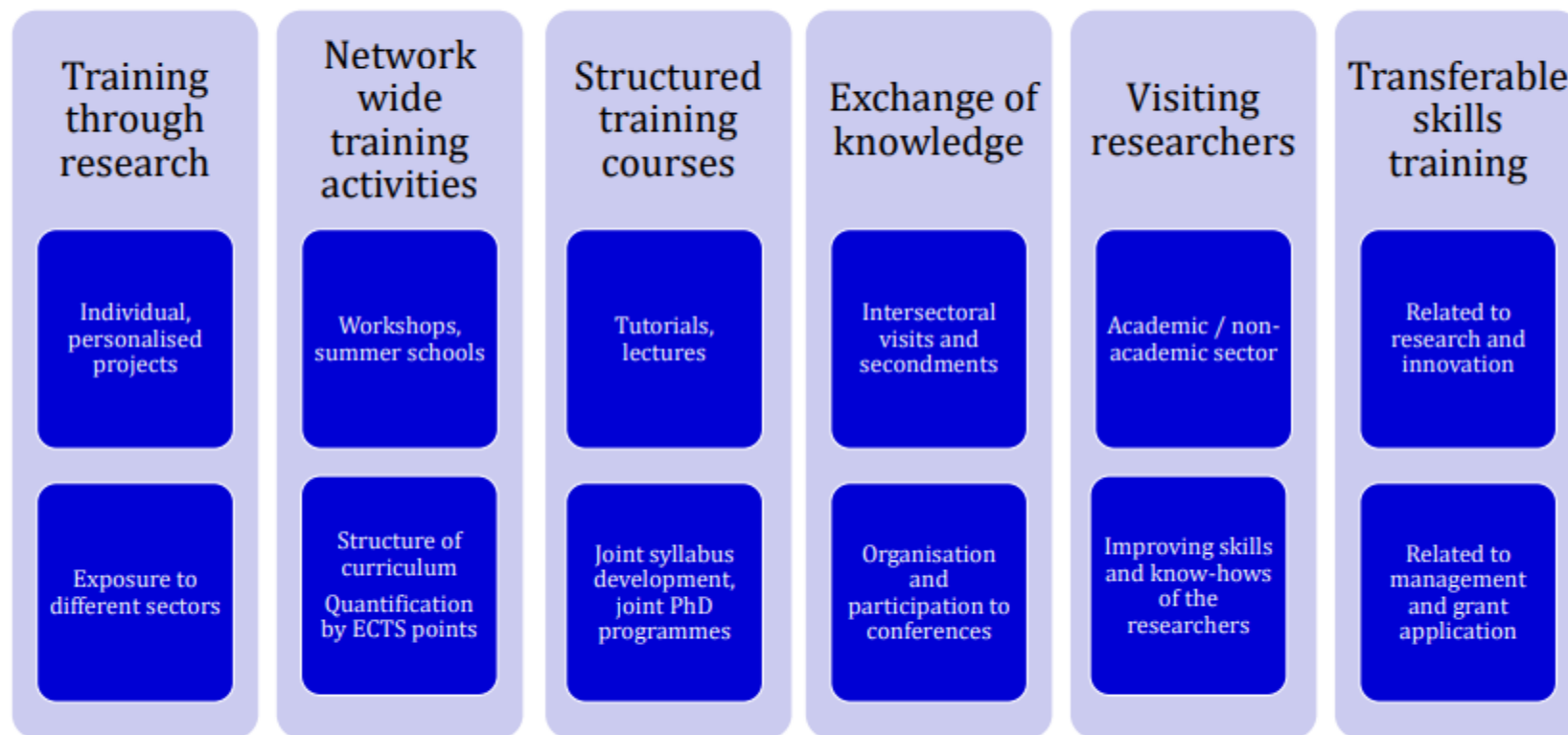
Funding Programme: HE / MSCA

Application Deadline: 15 Jun 2024 - 23:59 (Europe/Vienna)

[Share](#)

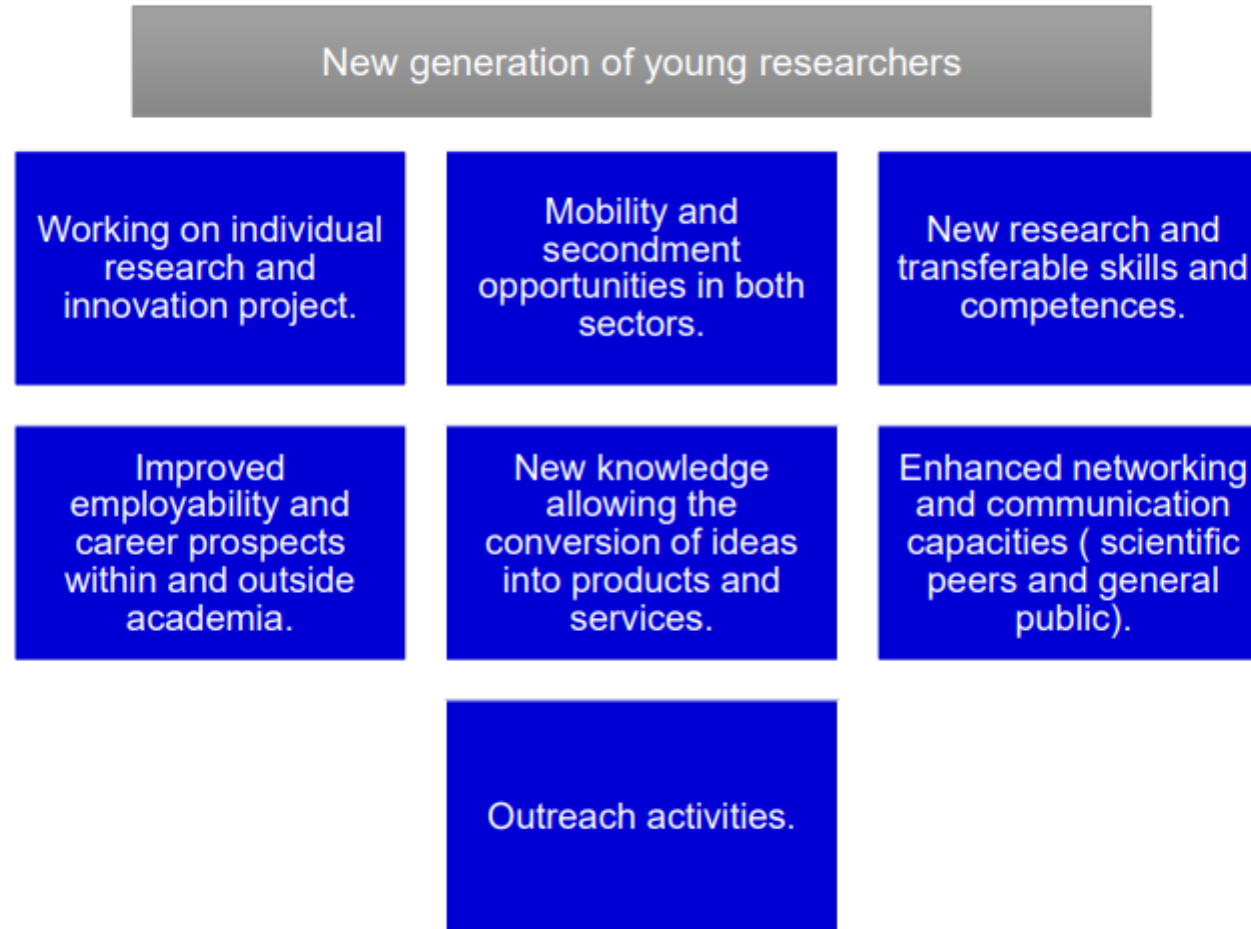
Typical activities of Doctoral Networks

MSCA-NET



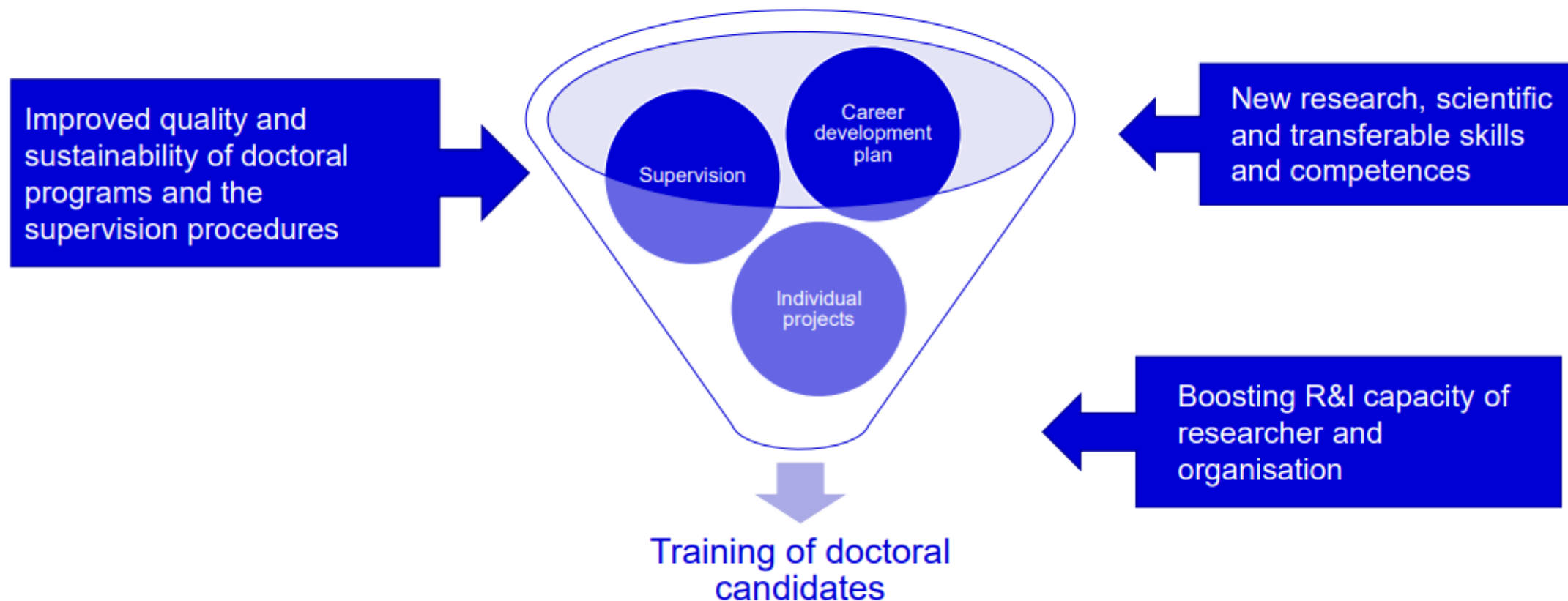
Based on the Innovative Doctoral Training principles

Expected Outcome of Doctoral Networks for doctoral candidates





MSCA SUPERVISION IN DOCTORAL NETWORKS



MSCA Guidelines on Supervision

- ✓ The Marie Skłodowska-Curie Actions (MSCA) are the European Union's flagship programme for the mobility and training of researchers, as well as the development of doctoral programmes, with a **strong structuring effect on participating institutions**.
- ✓ The MSCA promote effective supervision.
- ✓ MSCA Guidelines on Supervision constitute a **set of recommendations** to be adopted on a best-effort basis by participants in the programme – both individuals and institutions – in order to help institutions and supervisors in guiding MSCA researchers.

Role of the supervisor

General principles in the Charter and Code and integration of the researcher

Research support

Career development (regular review of the CDP)

Monitoring and wellbeing of the researcher

Communication and conflict resolution

Role of the researcher

General principles set in Charter and Code

Research

Wellbeing

Communication and conflict resolution

Role of the organisation

General principles and integration of the researchers

Raise awareness of the Codes of Ethics and Research Integrity in the institution

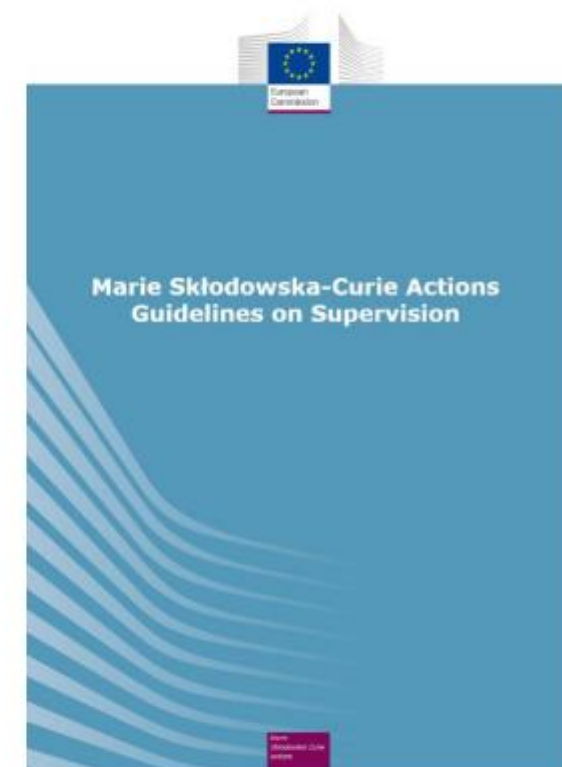
Research support

Career development

Mentoring and wellbeing of the researcher

Supervision management and conflict resolution

Training and professional development for supervisors



<https://op.europa.eu/en/publication-detail/-/publication/bb02d56e-9b3c-11eb-b85c-01aa75ed71a1/language-en>



- The objective of the CDP is to empower MSCA researchers with the skills to expand their career opportunities within and beyond the academic sector
- It is compiled by the researcher and the supervisor(s)
- Project deliverables in the first 6 months of project implementation (to be revised during implementation)

MSCA PERSONAL CAREER DEVELOPMENT PLAN TEMPLATE 2016

Career Development Plan-Year 1 (Draft)

Name of fellow:
Department:
Name of Supervisor:
Date:

BRIEF OVERVIEW OF RESEARCH PROJECT AND MAJOR ACCOMPLISHMENTS EXPECTED (half page should be sufficient):

LONG-TERM CAREER OBJECTIVES (over 5 years):

1. Goals:
2. What further research activity or other training is needed to attain these goals?

SHORT-TERM OBJECTIVES (1-2 years):

1. Research results
 - Anticipated publications:
 - Anticipated conference, workshop attendance, courses, and /or seminar presentations:
2. Research Skills and techniques:
 - Training in specific new areas, or technical expertise etc:
3. Research management:
 - Fellowship or other funding applications planned (indicate name of award if known; include fellowships with entire funding periods, grants written/applied for/received, professional society presentation awards or travel awards, etc.)
4. Communication skills:
5. Other professional training (course work, teaching activity):
6. Anticipated networking opportunities:
7. Other activities (community, etc) with professional relevance:

Date & Signature of fellow

Date & Signature of supervisor

Career Development Plan-Final year (Draft)

BRIEF OVERVIEW OF PROGRESS, ACHIEVEMENT AND PERFORMANCE (half page should be sufficient):

LONG-TERM CAREER OBJECTIVES (over 5 years):

If relevant, mention any adjustments to your long-term career objectives as a result of the training received.

SHORT-TERM OBJECTIVES ACHIEVED DURING THE TRAINING PERIOD:

1. Research results
 - Publications (incl. in press):
 - Conference, workshop attendance, courses, and /or seminar presentations:
2. Research Skills and techniques acquired:
 - Training in specific new areas, or technical expertise etc:
3. Research management:
 - Fellowship or other funding applications achieved (indicate name of award if known; include fellowships with entire funding periods, grants written/applied for/received, professional society presentation awards or travel awards, etc.)
4. Communication skills:
5. Other professional training (course work, teaching activity):
6. Anticipated networking opportunities
7. Other activities (community, etc) with professional relevance:

Date & Signature of fellow

Date & Signature of supervisor

What does it offer to the researchers?

- lets you **explore your career possibilities**, and **set goals** to follow the career path that fits you best
- involves **proactive planning and implementation** of all the necessary **action steps** towards your **career goals**. These steps can evolve as you develop skills, change interests, or reconsider your career objectives.
- provides **resources and tools** every step of the way
- 4 basic steps in the process of making career decisions:
 - self-assessment
 - career opportunities
 - developing skills
 - action plan

Goal: to create a personal career development plan



Final conclusions

- ✓ **Enhanced Collaboration:** Synergies and networking promote collaboration among diverse research projects, leveraging complementary expertise and resources.
- ✓ **Resource Optimization:** Joint efforts reduce duplication, making efficient use of funding and infrastructure.
- ✓ **Knowledge Exchange:** Networking facilitates the sharing of insights and data, leading to a more comprehensive understanding of the research topic.
- ✓ **Innovation and Interdisciplinary Insights:** Interactions across projects foster innovation and provide a broader perspective on complex issues.
- ✓ **Increased Impact:** Combined efforts have the potential to yield more significant outcomes and broader dissemination of research findings.



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA VISOKO ŠOLSTVO,
ZNANOST IN INOVACIJE

Hvala lepa za vašo pozornost!

stojan.sorcan@gov.si

[Najnovejše informacije za javnost, NCP MSCA v Obzorju Evropa](#)

