



Overview of Horizon Europe

EU Framework Programme for research and innovation

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Charles University, Faculty of Science,
Project Management Department

8 February 2023



FACULTY OF SCIENCE
Charles University

What is Horizon Europe



Horizon Europe structure & opportunities



erc

European Research Council (ERC)

Marie Skłodowska-Curie Actions (MSCA)

Projects by consortia on given topics

Partnerships

Widening participation

Become an evaluator



In 48 minutes, I promise.



Take-home message



Any question about Horizon Europe?

Ask the Project Management Department

pre-award support: **Klára Sobotíková**, klara.sobotikova@natur.cuni.cz

- **answer questions**
- give **consultations**
- give **presentations** for your research group or department

Horizon Europe on Faculty website

<https://www.natur.cuni.cz/eng/development-division/funding-opportunities/horizon-europe>

open/forthcoming funding opportunities

including internal deadlines

in Czech: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/grantova-agenda-new/#aktuality>

in English: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-opportunities#news>

subscribe to newsletter issued twice a month

Grantové informace – Funding Opportunities

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/newsletter-gi>; en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/newsletter-fo>



What is Horizon Europe



Horizon Europe structure & opportunities



erc European Research Council (ERC)

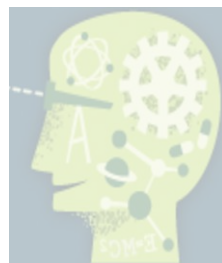
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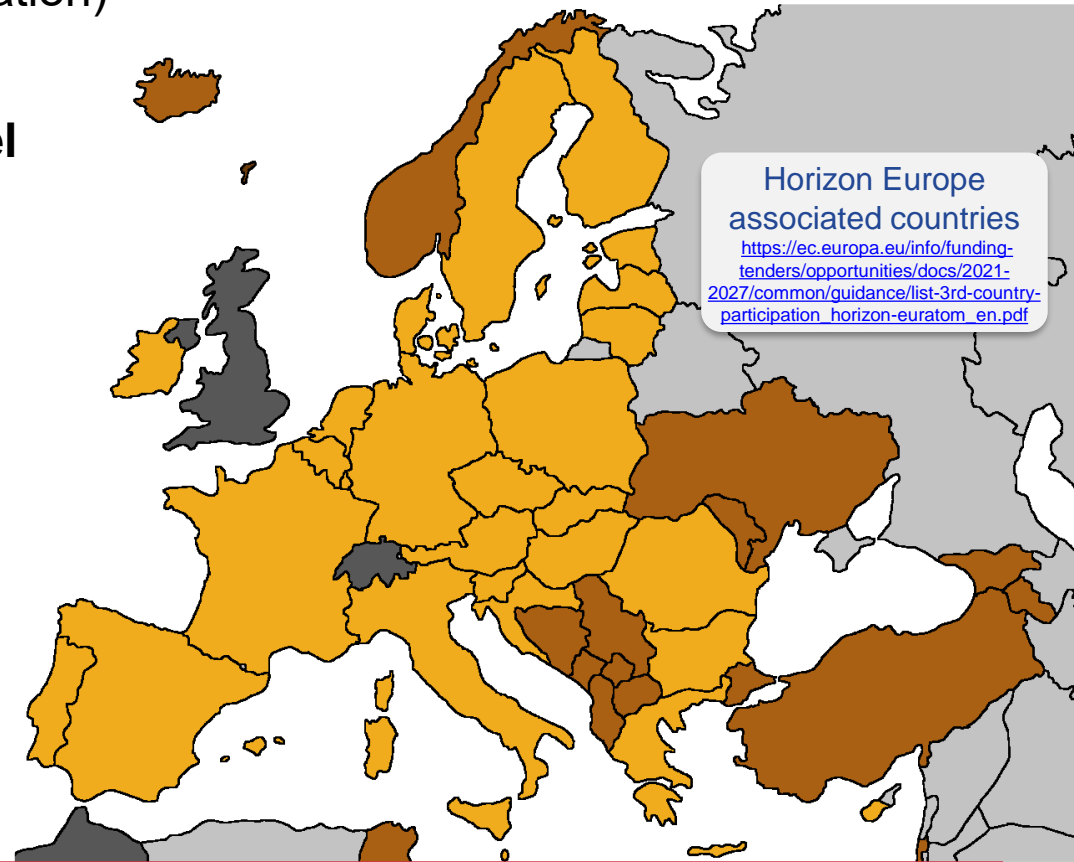
Become an evaluator



What is Horizon Europe

- European Union
**Framework Programme
for Research and Innovation 2021–2027**
- budget ca. € 95.5 billion (whole duration)
- centrally managed programme
 - **competition on European level**
 - managed from Brussels
- **EU member states**
+ **associated countries**
= **Horizon countries**

Horizon Europe
by Czech National Contact Points
<https://www.horizontevropa.cz/cs>



What is Horizon Europe

Pillar 1

Excellent Science

European Research Council

Marie Skłodowska-Curie
Actions

Research Infrastructures

Pillar 2

Global Challenges and
European Industrial
Competitiveness

Clusters

- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment

Partnerships

Missions

Joint Research Centre

Pillar 3

Innovative Europe

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European innovation
ecosystems

European Institute of
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Widening Participation and Strengthening the European Research Area

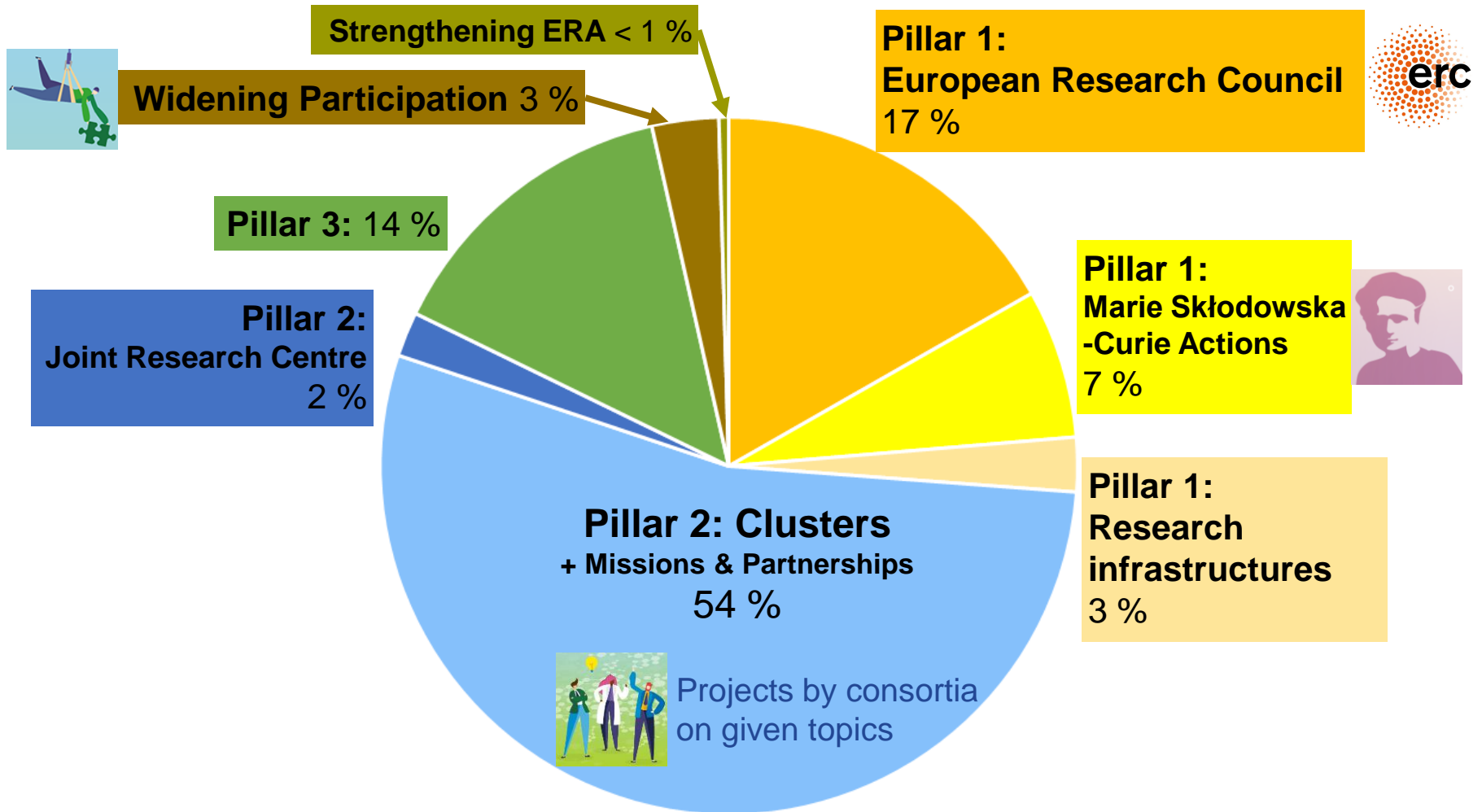
Widening participation and spreading excellence

Reforming and Enhancing the European R&I system



What is Horizon Europe

Budget distribution (€ 95.5 billion for whole duration)



Horizon Europe structure



“bottom-up” principle
any research topic supported



“top-down” principle
topics pre-defined by the programme

Excellent Science

Pillar 2

Global Challenges and
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Widening Participation and Strengthening the European Research Area

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European Research Council (ERC)

- mission: *Support investigator-driven frontier research across all fields, on the basis of scientific excellence*
- special status: run by scientists for scientists
- excellence of **proposed research** & the **Principal Investigator (PI)**
- **bottom-up** principle: any research field, no predetermined priorities 
- research idea
 - **high-risk, high-gain**: potential of significant breakthrough
 - **not continuation** of previous work (but preliminary results welcome)
- host institution in a Horizon country, PI of any nationality
- budget: personal costs of PI & team, equipment, consumables, dissemination, travel..., overheads

ERC on Faculty website

<https://www.natur.cuni.cz/eng/development-division/funding-opportunities/erc>

ERC official website

<https://erc.europa.eu/homepage>

Info by Czech National Contact Points

<https://www.horizontevropa.cz/cs/struktura-programu-he/excelentni-veda/evropska-rada-pro-vyzkum>



European Research Council (ERC)

ERC Starting Grants

- up to **€ 1.5 (+1) million** for 5 years
- PI:
 - **2–7 years** after PhD
 - potential for **independence**

Deadline
each year mid-October

ERC Consolidator Grants

- up to **€ 2 (+1) million** for 5 years
- PI:
 - **7–12 years** after PhD
 - experience as leader of a (small) **research team**

Deadline
each year early February

ERC Advanced Grants

- up to **€ 2.5 (+1) million** for 5 years
- PI: **established leader** in the field

Deadline
each year late May

next deadline
23 May 2023

Internal guidelines:

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/granty/erc-advanced-2023>; en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-news/erc-advanced-2023>



ERC Synergy Grants

- up to **€ 10 (+4) million** for 6 years
- 2–4 PIs, each competitive for Starting/Consolidator/Advanced
 - different countries (1 PI can work outside Europe) or same corridor
 - different fields
- potential for breakthroughs **impossible** if each PI worked **alone**

Deadline
each year mid-November

ERC Proof of Concept Grants

- only for ERC grantees (Starting/Consolidator/Advanced/Synergy)
- verify **innovation potential** of a result of the ERC project

Deadline
3-times a year



ERC Starting Grants

- up to **€ 1.5 (+1) million** for 5 years
- **2–7 years** after PhD

ERC Consolidator Grants

- up to **€ 2 (+1) million** for 5 years
- **7–12 years** after PhD

ERC Advanced Grants

- up to **€ 2.5 (+1) million** for 5 years
- **established leader** in the field

ERC Synergy Grants

- up to **€ 10 (+4) million** for 6 years
- 2–4 PIs, each competitive for Starting/Consolidator/Advanced

For what & whom?

- (potential) research team leaders
- **exceptional** results for their career stage
- **international** experience and/or name
- start/consolidate own research team
- embark on a new topic
- long-term funding
- flexibility & independence



European Research Council (ERC)

Support for applicants & internal rules

- **system of support**
 - Faculty level – detailed info, individual consultations, comment proposals...
 - National Contact Point – workshops...
start more than **1 year before deadline**
- University rules (Rector's Directive No. 37/2020)
complete draft sent to rectorate **1 month before deadline**

ERC support for applicants & recommended timeline

<https://www.natur.cuni.cz/eng/development-division/funding-opportunities/erc/erc-timetable>

Consider applying in 1–2 years? Let us know now!

klara.sobotikova@natur.cuni.cz

ERC CZ

- programme by the Czech Ministry of Education, Youth and Sports (MŠMT)
- supports ERC proposals – well evaluated but not funded by ERC
 - **“A” but not funded:** whole 5 years funded by ERC CZ
 - **(?) “B” in Step 2:** 2 years funded by ERC CZ
- PI must re-apply for ERC in 2 years

*Wait for the experience
of an ERC CZ grantee.*



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Marie Skłodowska-Curie Actions (MSCA)

- goal: “nurture” researchers by international mobility
- **bottom-up** principle: any research field  research “in service of” participant’s career prospects
- **mobility rule**: supported researchers must **go abroad** to work on MSCA project (usually: in last 3 years max. 1 year in country where they work on project)
- beneficial & prestigious also for **host institutions & supervisors**
- **inter-sectoral mobility**
 - “academic sector” – universities & research institutes
 - “non-academic sector” – anything else (enterprises, hospitals, museums, national parks, NGOs, public authorities...)
- **funding by unit costs**
fixed amount per person-month spent on project

MSCA official website

<https://marie-skłodowska-curie-actions.ec.europa.eu/>

Info by Czech
National Contact Points

<https://www.horizontevropa.cz/cs/struktura-programu-he/excelentni-veda/akce-marie-skłodowska-curie>



Marie Skłodowska-Curie Actions (MSCA)

Postdoctoral Fellowships (MSCA-PF)

- individual postdoctoral project with international mobility
- **fellow**: PhD holder, up to 8 years full-time in research after PhD
- European Fellowship
 - **2 years**
 - host institution (beneficiary): Horizon country
 - **fellow**: mobility rule (in country of host institution), any nationality
- Global Fellowship
 - **2 years in non-Horizon** country + **1 year reintegration** in Horizon country (beneficiary)
 - **fellow**: nationality or long-term resident of Horizon country
mobility rule (in country of outgoing phase)
- prepare application in **close cooperation** with **host institution(s) & supervisor(s)**
- **unit costs**: personnel costs of fellow
research, training, networking (postdoctoral research project)
management & overheads

Deadline
each year mid-September

next deadline
13 Sep 2023

MSCA-PF: detailed introduction

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/msca-if>; en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/msca-if>

For what & whom?

(future) postdocs: prestigious grant to do research abroad, or to return from abroad

research team leaders: get a postdoc (with funding) from abroad



Marie Skłodowska-Curie Actions (MSCA)

Postdoctoral Fellowships (MSCA-PF)

- **system of support**

- Faculty level – consultations, comment proposals (non-scientific parts)
- National Contact Point – workshops

Contact us for assistance as soon as possible: klara.sobotikova@natur.cuni.cz

- University rule (Rector's Directive No. 21/2021): when Charles University is beneficiary by **1 August** notify rectorate, **2 weeks** before deadline send full draft

Deadline

each year mid-September

next deadline
13 Sep 2023

Funding of unsuccessful proposals

- **ERA Fellowships** (Horizon Europe, part Widening)

- Host Institution in “Widening country” (e.g. Czechia)
- best **European Fellowships** under funding cut-off
- automatic re-submission, same rules

- (probably) **Programme Johannes Amos Comenius**

- Host Institution (or reintegration institution) in Czechia
- both **European & Global Fellowships**
- at least 70 % in evaluation
- slightly stricter rules

Overview of Horizon Europe

Ludmila Součková (ludmila.souckova@natur.cuni.cz)



Marie Skłodowska-Curie Actions (MSCA)

Doctoral Networks (MSCA-DN)

- international network of research teams
 - work on a joint research topic & **train doctoral students**
- **consortium typically**
ca. 7 beneficiaries (1–2 doctoral students each)
+ some associated partners – **non-academic sector** (host secondments)
- **beneficiaries:** institutions in Horizon countries
- **doctoral students:** not PhD holders (when recruited)
mobility rule (in country of recruitment), any nationality
- project duration **4 years**, doctoral students employed for **3 years**
- **unit costs:** personnel costs of doctoral students
research, training, networking (doctoral research projects, summer schools)
management & overheads

Deadline
each year November

next deadline
28 Nov 2023

basic info

<https://marie-skłodowska-curie-actions.ec.europa.eu/actions/doctoral-networks>

10 min video

https://youtu.be/W_PfjTaqkVw

For what & whom?

research team leaders: strengthen research cooperation
get a doctoral student (with funding) from abroad

(future) doctoral students: go on prestigious doctoral position abroad

open PhD positions on Euraxess: <https://euraxess.ec.europa.eu/jobs/search>



Marie Skłodowska-Curie Actions (MSCA)

Staff Exchanges (MSCA-SE)

- international network of research teams – work on a joint research topic & **exchange staff** (doctoral students, researchers, research support staff) by **secondments**
- **international secondments**
 - **Horizon** country vs. **non-Horizon** country or **inter-sectoral** (academic vs. non-academic sector), up to 30% can be just inter-disciplinary
 - **1–12 months** per staff member
- **recommended consortium:** ca. 6–10 entities
- max. budget: 360 person-months
- project duration **4 years**
- **unit costs:** travel expenses (not personnel costs)
research, training, networking (research during secondments, meetings)
management & overheads

basic info

<https://marie-sklodowska-curie-actions.ec.europa.eu/actions/staff-exchanges>

For what & whom?

research teams

- strengthen cooperation with partners outside Europe &/or outside academia

Deadline
each year February/March

It's probably too late

next deadline: **8 March 2023**

Faculty news:

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/granty/msca-se-2022-reminder>; en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-news/msca-se-2022-reminder>

following deadline
28 Feb 2024



Marie Skłodowska-Curie Actions (MSCA)

MSCA COFUND

- co-funding national/regional programmes that fund **PhD or postdoctoral positions**
- applicants for positions (fellows): mobility rule (in country of employment)
conditions of particular programme (e.g. research field)

For what & whom?

(future) PhD or postdocs: get prestigious position abroad

open PhD and postdoc positions on Euraxess: <https://euraxess.ec.europa.eu/jobs/search>



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Horizon Europe structure

“top-down” principle
topics pre-defined by the programme

Pillar 1 Excellent Science

European Research Council

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Research Infrastructures

Pillar 2 Global Challenges and European Industrial Competitiveness

- Clusters
- Health
 - Culture, Creativity and Inclusive Society
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Partnerships

Missions

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“Top-down” projects by international consortia

- project topic = **specific challenge to be solved**
 - defined by Work Programme: currently 2023–**2024** (or 2023)
 - **scope, expected outputs**, type of project, deadline
 - funded ca. 1–5 projects per topic

**Deadlines
all over the place**

Research and innovation action (RIA)

- applied research
- funding rate 100%

Innovation action (IA)

- bring a promising concept closer to market
- funding rate 70% (100% non-profit entities)

Coordination and support action (CSA)

- “not research”
- e.g. map existing knowledge, build a platform
- funding rate 100%

- **budget:** personnel costs, travel, dissemination, overheads...
RIA, IA also: research consumables, equipment(?)

practice

- ca. 8–25 partners
- **multidisciplinary**
- complementarity
 - researchers
 - **users of results:** industry, hospitals, farmers...
 - topic requirements: small enterprises, non-European partners...

Overview of current calls

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/granty/he-wp-2023-open>; en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-news/he-wp-2023-open>

“Top-down” projects on Faculty website

<https://www.natur.cuni.cz/eng/development-division/funding-opportunities/horizon-europe/he-introduction/#consortia>



“Top-down” projects by international consortia

project topic = **specific challenge to be solved**

**Deadlines
all over the place**

Research and innovation action (RIA)

- applied research

Innovation action (IA)

- bring a promising concept closer to market

Coordination and support action (CSA)

- “not research”
- e.g. map existing knowledge, build a platform

For what & whom?

research teams

- results used others – towards practical use
- interested in
- interdisciplinary (& international) collaboration
 - contacts outside “comfort zone”
 - research funding
 - e.g. more impactful publications

practice

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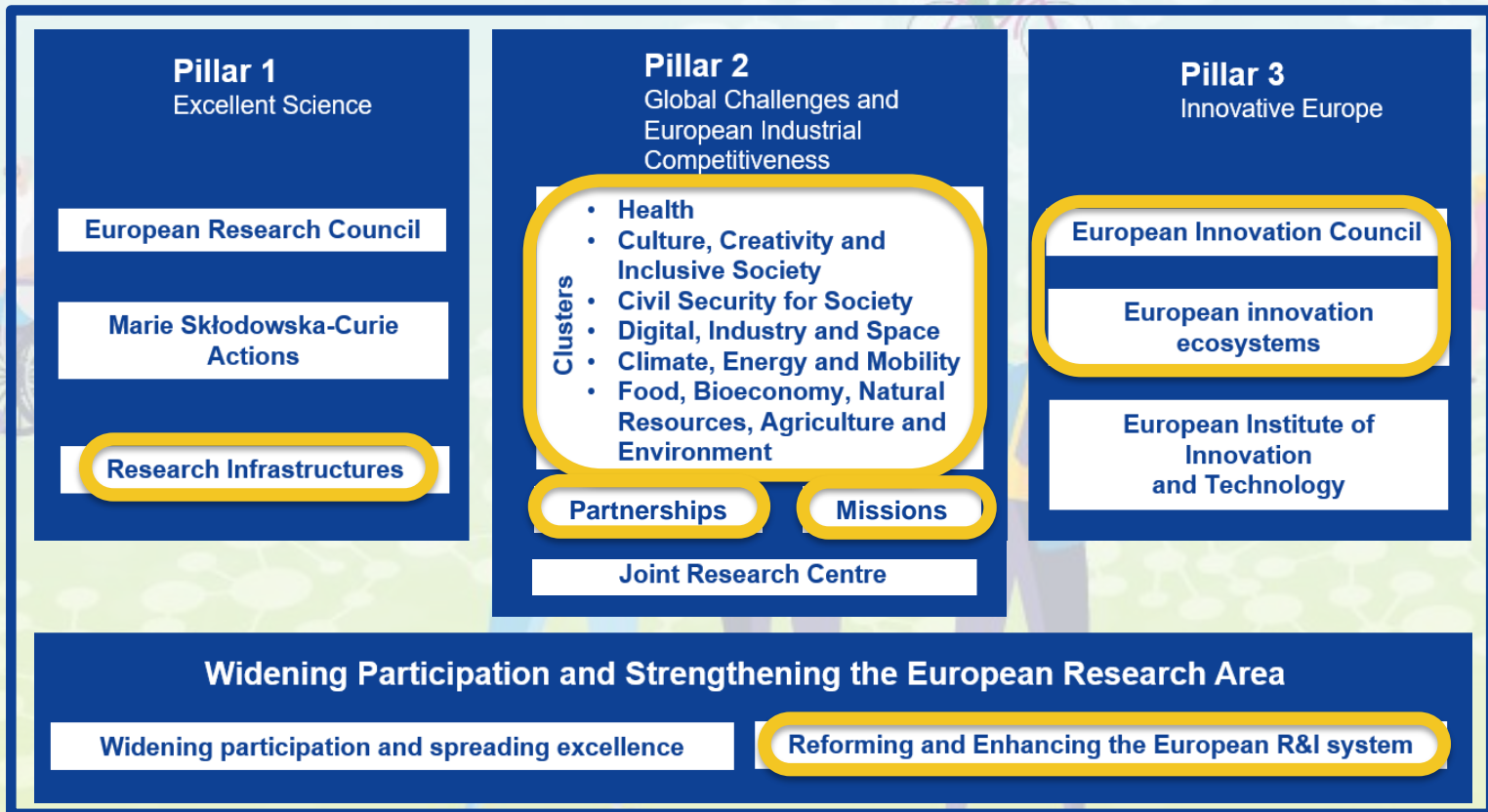
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“Top-down” projects by international consortia

how to find a topic?



“Top-down” projects by international consortia

how to find a topic?

- get an idea **which part funds what**

Overview of current calls

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I'll explain in a moment.

Contact us for assistance:

klara.sobotikova@natur.cuni.cz

information we need:

- what research you do
- where / **for whom** it can be useful
- in English!
- bullet points – keep it short
- **understandable outside your field**

We guess-choose some topics for you...

- **read the topic: Expected outcomes & Scope**
Is it really for you?
- look for a **consortium & coordinator**



“Top-down” projects by international consortia

how to find a consortium & coordinator?

- formulate you offer:
expertise & contribution to **Expected Outcomes**
- **be proactive**
 - **existing personal network**
 - brokerages, platforms (Crowdhelix)
 - projects

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klara.sobotikova@natur.cuni.cz

network, network, network

- research collaborations, conferences...
- activities by Horizon projects or partnerships
- participate in CSA, MSCA-DN, MSCA-SE
- join a **COST Action** (bottom-up international networks on a research & innovation topic)

what are COST Actions

<https://www.cost.eu/cost-actions/what-are-cost-actions/>

About COST on Faculty website

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/cost/>
en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/cost>

practice

- ca. 8–25 partners
- **multidisciplinary**
- complementarity
 - researchers
 - **users of results:** industry, hospitals, farmers...
 - topic requirements: small enterprises, non-European partners...

(successful) participation even in a not funded strong proposal

- show yourself as useful & **reliable** partner
- leads to **further project participations**

*Wait for the experience
of a successful applicant.*



“Top-down” projects by international consortia

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“Top-down” projects by international consortia

Research Infrastructures

- infrastructure = equipment, knowledge-based resources, IT tools... made available to **research community**
e.g.: geothermal borehole, herbarium, online database...
- projects should **improve services** offered
- **who?**
researchers involved in **running a research infrastructure**

2023–2024
ca. 30 topics

for example...

HORIZON-INFRA-2023-EOSC-01-02: **Development of community-based approaches for ensuring and improving the quality of scientific software and code**,
RIA, deadline 9. 3. 2023

HORIZON-INFRA-2024-DEV-01-02: **Strengthen the bilateral cooperation on research infrastructures with Africa**, CSA, deadline 12. 3. 2024

2023–2024 topics in a Faculty news

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/granty/he-infra-2023>; en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-news/he-infra-2023>

Info by Czech National Contact Points

<https://www.horizontevropa.cz/cs/struktura-programu-he/excelentni-veda/vyzkumne-infrastruktury>



“Top-down” projects: Clusters

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Structured by **challenges**
not research fields
may find “your” topics
in several clusters

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“Top-down” projects: Clusters

Cluster 1: Health

- **who?**

researchers whose results can be applied in **health or healthcare** (biologists, chemists, geographers)

2023–2024
ca. 44 topics

for example...

HORIZON-HLTH-2023-DISEASE-03-04: **Pandemic preparedness and response: Broad spectrum anti-viral therapeutics for infectious diseases with epidemic potential**, RIA, deadline 13. 4. 2023

HORIZON-HLTH-2024-CARE-04-04-two-stage: **Access to health and care services for people in vulnerable situations**, RIA, deadline 19. 9. 2023

2023–2024 topics in a Faculty news

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/granty/he-cl1-2023>; en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-news/he-cl1-2023>

Info by Czech National Contact Points

<https://www.horizontevropa.cz/cs/struktura-programu-he/globalni-vyzvy-konkurenceschopnost/klastr-1-zdravi>



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Widening participation and spreading excellence

Reforming and Enhancing the European R&I system



“Top-down” projects: Clusters

Cluster 2: Culture, Creativity and Inclusive society

2023–2024
ca. 56 topics

- **who?**

researchers close to **social sciences – geographers**
but also STEM education, transversal skills of researchers

for example...

HORIZON-CL2-2023-TRANSFORMATIONS-01-04: **Bridging the migration research to policy gap**, CSA, deadline 14. 3. 2023

HORIZON-CL2-2023-TRANSFORMATIONS-01-06: **Mapping of longitudinal data and assessment of inequalities in education, training and learning achievements**, RIA, deadline 14. 3. 2023

2023–2024 topics in a Faculty news

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/granty/he-cl2-2023>; en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-news/he-cl2-2023>

Info by Czech National Contact Points

<https://www.horizontevropa.cz/cs/struktura-programu-he/globalni-vyzvy-konkurenceschopnost/klastr-2-kultura-kreativita-inkluzivni-spolecnost>



“Top-down” projects: Clusters

Pillar 1 Excellent Science

✓ European Research Council

✓ Marie Skłodowska-Curie
Actions

✓ Research Infrastructures

Pillar 2 Global Challenges and European Industrial Competitiveness

- Clusters
- 1 Health
 - 2 Culture, Creativity and Inclusive Society
 - 3 Civil Security for Society
 - 4 Digital, Industry and Space
 - 5 Climate, Energy and Mobility
 - 6 Food, Bioeconomy, Natural Resources, Agriculture and Environment

Partnerships

Missions

Joint Research Centre

Pillar 3 Innovative Europe

European Innovation Council

European innovation
ecosystems

European Institute of
Innovation
and Technology

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“Top-down” projects: Clusters

Cluster 3: Civil security for society

2023–2024
ca. 42 topics

- **who?**

researchers whose results can be useful in **security or disaster resilience**

chemists (drug analysis, biological toxins detection...)

geographers (Earth observation – disaster prediction)

geologists (geological disasters)

biologists (health literacy – how vaccines work)

for example...

HORIZON-CL3-2023-DRS-01-01: Improving social and societal preparedness for disaster response and health emergencies, RIA, deadline 23. 11. 2023

HORIZON-CL3-2024-DRS-01-02: Harmonised / Standard protocols for the implementation of alert and impact forecasting systems as well as transnational emergency management in the areas of high-impact weather / climatic and geological disasters, IA, deadline 20. 11. 2024

2023–2024 topics in a Faculty news

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/granty/he-cl3-2023>; en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-news/he-cl3-2023>

Info by Czech National Contact Points

<https://www.horizontevropa.cz/cs/struktura-programu-he/globalni-vyzvy-konkurenceschopnost/klastr-3-civilni-bezpecnost-spolecnost>



“Top-down” projects: Clusters

Pillar 1 Excellent Science

✓ European Research Council

✓ Marie Skłodowska-Curie
Actions

✓ Research Infrastructures

Pillar 2 Global Challenges and European Industrial Competitiveness

- Clusters
- 1 Health
 - 2 Culture, Creativity and Inclusive Society
 - 3 Civil Security for Society
 - 4 Digital, Industry and Space
 - 5 Climate, Energy and mobility
 - 6 Food, Bioeconomy, Natural Resources, Agriculture and Environment

Partnerships

Missions

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“Top-down” projects: Clusters

Cluster 4: Digital, Industry and Space

2023–2024
ca. 132 topics

- **who?**

chemists (advanced materials, nano materials, computational design of chemicals)

geographers (Earth observation)

geologists (raw materials)

even **biologists** (bio-based materials)

for example...

HORIZON-CL4-2023-RESILIENCE-01-06: **Earth Observation platform, products and services for raw materials**, IA, deadline 20. 4. 2023

HORIZON-CL4-2024-RESILIENCE-01-36: **Advanced biomaterials for the Health Care**, IA, deadline 7. 2. 2024

2023–2024 topics in a Faculty news

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/granty/he-cl4-2023>; en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-news/he-cl4-2023>

Info by Czech National Contact Points

<https://www.horizontevropa.cz/cs/struktura-programu-he/globalni-vyzvy-konkurenceschopnost/klastr-4-digitalizace-prumysl-vesmir>



“Top-down” projects: Clusters

Pillar 1 Excellent Science

✓ European Research Council

✓ Marie Skłodowska-Curie
Actions

✓ Research Infrastructures

Pillar 2 Global Challenges and European Industrial Competitiveness

- Clusters
- 1 Health
 - 2 Culture, Creativity and Inclusive Society
 - 3 Civil Security for Society
 - 4 Digital, Industry and Space
 - 5 Climate, Energy and Mobility
 - 6 Food, Bioeconomy, Natural Resources, Agriculture and Environment

Partnerships

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“Top-down” projects: Clusters

Cluster 5: Climate, Energy and Mobility

- who?

geographers (Earth observation, regional development, transport)

biologists (climate-ecosystem interactions, biotechnologies)

geologists (raw materials, geothermal resources)

chemists (materials for advanced batteries, biofuels)

2023–2024
ca. 204 topics

for example...

HORIZON-CL5-2023-D3-02-07: **Development of next generation advanced biofuel technologies**, RIA, deadline 5. 9. 2023

HORIZON-CL5-2024-D1-01-03: **Paleoclimate science for a better understanding of the short- to long-term evolution of the Earth system**, RIA, deadline 5. 3. 2024

2023–2024 topics in a Faculty news

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/granty/he-cl5-2023>; en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-news/he-cl5-2023>

Info by Czech National Contact Points

<https://www.horizontevropa.cz/cs/struktura-programu-he/globalni-vyzvy-konkurenceschopnost/klastr-5-klima-energetika-doprava>



“Top-down” projects: Clusters

Pillar 1 Excellent Science

✓ European Research Council

✓ Marie Skłodowska-Curie
Actions

✓ Research Infrastructures

Pillar 2 Global Challenges and European Industrial Competitiveness

- Clusters
- 1 Health
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Partnerships

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“Top-down” projects: Clusters

2023–2024
ca. 190 topics

Cluster 6:

Food, Bioeconomy, Natural Resources, Agriculture and Environment

- who?

biologist & ecologists (any relation to agriculture / forestry / food production)

geographers (Earth observation, rural development, land use)

hydrologists (water management)

chemists (chemical analysis, sensors)

for example...

HORIZON-CL6-2023-BIODIV-01-1: **Better understanding of routes of exposure and toxicological and ecological impacts of chemical pollution on terrestrial biodiversity**, RIA, deadline 28. 3. 2023

HORIZON-CL6-2024-CLIMATE-01-4: **Land use change and local / regional climate**, RIA, deadline 22. 2. 2024

2023–2024 topics in a Faculty news

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/granty/he-cl6-2023>; en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-news/he-cl6-2023>

Info by Czech National Contact Points

<https://www.horizontevropa.cz/cs/struktura-programu-he/globalni-vyzvy-konkurenceschopnost/klastr-6-potraviny-bioekonomika-prirodni-zdroje-zemedelstvi-zivotni-prostredi>



“Top-down” projects: Missions

Pillar 1 Excellent Science

✓ European Research Council

✓ Marie Skłodowska-Curie
Actions

✓ Research Infrastructures

Pillar 2 Global Challenges and European Industrial Competitiveness

✓
Clusters

- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment

Partnerships

Missions

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Reforming and Enhancing the European R&I system



“Top-down” projects: Missions

2023
32 topics



Adaptation
to climate
change



Cancer



Ocean,
seas
& waters



Climate
neutral &
smart cities



Soil
health
and food

- ambitious, **measurable goals** relevant for European citizens
- Work Programme each year (currently 2023)
- not just funding projects
 - coordinate stakeholders, organise platforms, events
- **who?**
 - **biologists** (cancer research, biodiversity in waters, soil research, climate resilience of agriculture...)
 - **geographers** (urban mobility, land use management, cancer prevention...)
 - **geologists** (landscape water retention, soil research...)
 - even **chemists** (chemical analysis of soil)

2023 topics in a Faculty news

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/granty/he-missions-2023>;
en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-news/he-missions-2023>

Info by Czech National Contact Points

<https://www.horizontevropa.cz/cs/struktura-programu-he/mise>



“Top-down” projects: European R&I system

Pillar 1 Excellent Science

✓ European Research Council

✓ Marie Skłodowska-Curie
Actions

✓ Research Infrastructures

Pillar 2 Global Challenges and European Industrial Competitiveness

✓
Clusters

- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment

Partnerships

Missions ✓

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Widening Participation and Strengthening the European Research Area

Widening participation and spreading excellence

Reforming and Enhancing the European R&I system



“Top-down” projects: European R&I system

Reforming and enhancing the European Research and Innovation system

2023–2024
ca. 24 topics

- only Coordination and support actions (CSA) in 2023–2024
- **who?** researchers active in e.g.:
citizen science, research ethics, research management, science education, gender equality in research...

for example...

HORIZON-WIDERA-2023-ERA-01-08: **Laying the groundwork towards Europe-wide citizen science campaigns, CSA, deadline 9. 3. 2023**

2023–2024 topics in a Faculty news

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/granty/he-era-2023>; en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-news/he-era-2023>

Info by Czech National Contact Points

<https://www.horizontevropa.cz/cs/struktura-programu-he/rozsirovani-ucasti-posilovani-era/reforma-zlepseni-evropskeho-systemu-vyzkumu-inovaci>



“Top-down” projects

Pillar 1 Excellent Science

✓ European Research Council

✓ Marie Skłodowska-Curie
Actions

✓ Research Infrastructures

Pillar 2 Global Challenges and European Industrial Competitiveness

✓
Clusters

- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment

Partnerships

Missions ✓

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Widening Participation and Strengthening the European Research Area

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Reforming and Enhancing the European R&I system ✓



European Innovation Council

- Work Programme each year (currently 2023)
- **EIC Pathfinder**
 - develop **breakthrough technologies** (incl. early stage research)
 - Research and Innovation action (RIA) projects
- **EIC Pathfinder Open** 
 - any research topic, but with vision of a **game changing technology**

Deadline
each year spring(?)

next deadline **7 March 2023**

It's probably too late

Faculty news: cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/granty/pathfinder-open-2023>;
en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-news/pathfinder-open-2023>

- **EIC Pathfinder Challenges** 
 - topics given each year (5 topics in 2023, e.g. precision nutrition)

Deadline
each year October(?)

Next deadline
18 Oct 2023

EIC Pathfinder website

https://eic.ec.europa.eu/eic-funding-opportunities/eic-pathfinder_en

Info by Czech National Contact Points

<https://www.horizontevropa.cz/cs/struktura-programu-he/innovativni-evropa/evropska-rada-pro-inovace/informace>



What is Horizon Europe



Horizon Europe structure & opportunities



erc European Research Council (ERC)

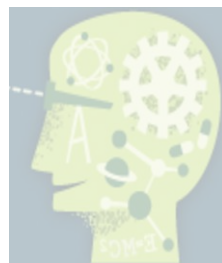
Marie Skłodowska-Curie Actions (MSCA)

Projects by consortia on given topics

Partnerships

Widening participation

Become an evaluator



Partnerships

Pillar 1

Excellent Science



European Research Council



Marie Skłodowska-Curie
Actions



Research Infrastructures

Pillar 2

Global Challenges and
European Industrial
Competitiveness



Clusters

- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment

Partnerships

Missions



Joint Research Centre

Pillar 3

Innovative Europe



European Innovation Council

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ecosystems

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Innovation
and Technology

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Reforming and Enhancing the European R&I system



Partnerships

- European Commission + **private and/or public stakeholders** in certain areas
- stakeholders: influence, where money goes, **but** must contribute their money

3 types of partnerships: Co-programmed European Partnerships
 Institutionalised European Partnerships
 Co-funded European Partnerships

Info by Czech National Contact Points
<https://www.horizontevropa.cz/en/programme-structure/european-partnerships>

PILLAR II - Global challenges & European industrial competitiveness

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture, ...
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth
Transformation of health systems	High Performance Computing	Single European Sky ATM Research 3	Climate Neutral, Sustainable & Productive Blue Economy
Chemicals risk assessment	European Metrology (Art. 185)	Europe's Rail	Water4All
ERA for Health	AI-Data-Robotics	Connected and Automated Mobility (CCAM)	Animal Health & Welfare*
Rare diseases*	Photonics	Batteries	Accelerating Farming Systems Transitions*
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Agriculture of Data*
Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Safe & Sustainable Food System*
Pandemic Preparedness* <i>Co-funded or co-programmed</i>	Processes4Planet	Built4People	
	Global competitive space systems**	Clean Energy Transition	
		Driving Urban Transitions	

PILLAR III - Innovative Europe

EIT	SUPPORT TO INNOVATION ECOSYSTEMS
InnoEnergy	Innovative SMEs
Climate	
Digital	
Food	
Health	
Raw Materials	
Manufacturing	
Urban Mobility	
Cultural and Creative Industries	

■ Institutionalised Partnerships (Art 185/7)
■ Institutionalised partnerships / EIT KICs
■ Co-Programmed
■ Co-Funded
 * Calls with opening dates in 2023-24
 ** Calls with opening dates not before 2022

CROSS-PILLARS II AND III

European Open Science Cloud

https://www.horizontevropa.cz/files_public/elfinder/832/Partnerships%20HE.jpg



Partnerships

Co-programmed European Partnerships

- influence topics formulation
(Clusters 4 & 5; European Open Science Cloud)

EOSC
<https://eosc-portal.eu/>

For what & whom?

- not funding
- follow activities
- network
- learn topics sooner

Institutionalised European Partnerships

- launch their own calls – like “regular” Horizon Europe calls (RIA, IA, CSA)
- more application oriented
- topics usually announced **once a year**
- e.g.:

IHI
<https://www.ih.europa.eu/>

- Innovative Health Initiative (IHI)
- EU-Africa Global Health (EDCTP3)
- Circular Bio-based Europe
Joint Undertaking (CBE JU)

CBE JU
<https://www.cbe.europa.eu/>

For what & whom?

- research funding
- cooperation:
international & with industry
- follow activities
- network

follow the Faculty funding opportunities

cs: <https://edit.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/grantova-agenda-new/#aktuality>; en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-opportunities#news>



Partnerships

Co-funded European Partnerships

- partnership of **national funding bodies** (e.g. grant agencies, ministries)
 - support research in a certain area 
 - additional money from Horizon Europe
- **calls**
 - ca. **once a year** (slightly different topic each time)
 - proposals by international consortia
 - researchers can participate **only if their country is involved** (& gives money)
 - international evaluation
 - successful proposal – each partner funded by their national funding body
- partnership (& calls) often **continue** after Horizon (Framework Programme) support has ended
 - **Joint Programming Initiatives**

For what & whom?

- research funding
- smaller consortia (4–7 partners)
- “underrepresented countries” (Czechia) participation encouraged
- **springboard** to Horizon projects



Partnerships

Co-funded European Partnerships

with Czech participation

- **TA ČR** – lower funding rate (e.g. 85 %)

e.g.:

Water4All

<https://www.water4all-partnership.eu/>

Biodiversa

<https://www.biodiversa.eu/>

M-ERA.NET (material research)

<https://m-era.net/>

- **MŠMT** – 100% funding rate
(Joint Programming Initiatives)

e.g.:

JPND

(neurodegenerative disease)

<https://www.neurodegenerationresearch.eu/>

CONCERT-Japan

(cooperation with Japan, various topics)

<http://www.concert-japan.eu/>

follow the Faculty funding opportunities

cs: <https://edit.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/grantova-agenda-new/#aktuality>;
en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-opportunities#news>

For what & whom?

- international cooperation, towards application
- smaller consortia (4–7 partners)
- “underrepresented countries” (Czechia)
participation encouraged
- **springboard** to Horizon projects



What is Horizon Europe



Horizon Europe structure & opportunities



erc European Research Council (ERC)

Marie Skłodowska-Curie Actions (MSCA)

Projects by consortia on given topics

Partnerships

Widening participation

Become an evaluator



Widening

Pillar 1

Excellent Science



European Research Council



Marie Skłodowska-Curie
Actions



Research Infrastructures

Pillar 2

Global Challenges and
European Industrial
Competitiveness



Clusters

- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
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Partnerships

Missions



Joint Research Centre

Pillar 3

Innovative Europe



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Widening Participation and Strengthening the European Research Area


Widening participation and spreading excellence

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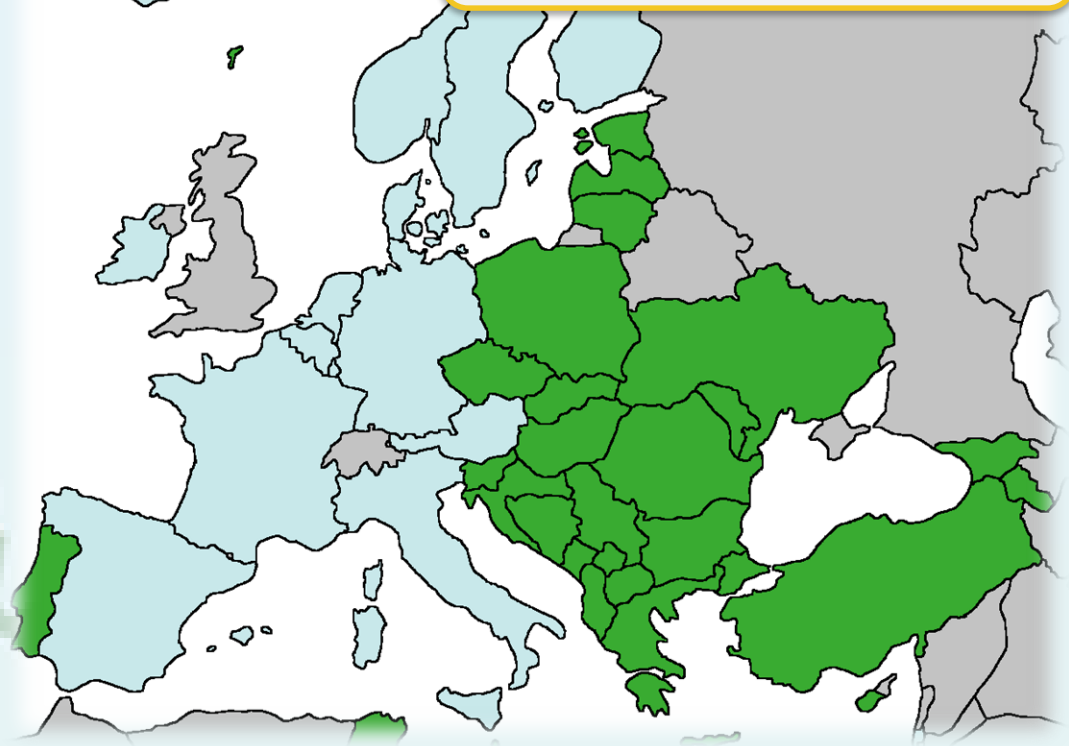


Widening

Widening participation and spreading excellence


- increase research performance of “widening countries” – incl. **Czechia**
- any research field 
- (just examples follow
– tools on institutional reforms not included)

Info by Czech
National Contact Points
(including list of widening countries)
<https://www.horizontevropa.cz/cs/struktura-programu-he/rozsirovani-ucasti-posilovani-era/rozsirovani-ucasti-sireni-excelence>



Widening

Widening participation and spreading excellence

- **increase research performance** of “widening countries” – incl. **Czechia**
- any research field 
- (just examples follow
– tools on institutional reforms not included)

Info by Czech
National Contact Points
(including list of widening countries)
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ERA Fellowships


linked with Marie Skłodowska-Curie Postdoctoral Fellowships (MSCA-PF)

See slide 19.

Hop-on facility

- an **approved RIA project**
 - Pillar 2 Clusters or EIC Pathfinder
 - no partner from widening country yet
- a **new partner** from widening country **can join**
- RIA coordinator applies
- new task by new partner

For what & whom?

- a research team fitting the RIA call & project 
- research funding
- establish cooperation

Deadline each year(?)
September(?)

next deadline **28 Sep 2023**
Faculty news

cs: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/granty/he-hopon-2023>;
en: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-news/he-hopon-2023>

eligible RIA projects

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/horizon/hop-on>



ERA Chairs

- bring a **high-profile researcher “ERA Chair”** to host institution in widening country (single applicant)
 - known at proposal stage
 - **establishes a research group**
 - attracts further funding
- improve research management practices (e.g. by trainings)
- 5 years, EUR 1.5–2.5 million
- budget: personnel costs ERA Chair + team members, recruitment travel, dissemination, management...
research costs up to 10%
- **support of & close cooperation with Faculty & section crucial**
our plan: individual assessment of project ideas
ca. 1–3 proposals with professional support
start writing ca. October/November 2023

Deadline **every 2 years (?)**

next deadline **7 Mar 2024**
There will be **internal guidelines**

For what & whom?

department

- want a new team (& research field) established
 - in touch with a potential ERA Chair abroad
- ca. 3 months writing by ERA Chair & head of department

call webpage

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-widera-2023-talents-01-01>



Widening

Twinning

- raise research profile (in chosen field) of **coordinating institution in widening country** by strong cooperation with **top-class** research institutions
- min.: coordinator + 2 excellent partners
practice: coordinator + 2–4 excellent partners
- 3 years, EUR 0.8–1.5 million
- budget: personnel costs, **travel, training** dissemination, management...
research costs up to 30 %
- many possibilities:
research stays (doctoral students, postdocs)
visits (group leaders), guest lectures, co-supervision, training schools, conferences, ...
- strengthen research management and administration of coordinator
- **support of & close cooperation with Faculty & section crucial**
our plan: individual assessment of project ideas
ca. 1–3 proposals with professional support
start writing in May

Deadline **every 2 years (???)**

next deadline **28 Sep 2023**
There will be **internal guidelines**

For what & whom?

- several **research teams** in neighboring fields (1 or more departments)
- boost collaboration with 2–4 top research institutions
 - links established (& working well)
 - via research stays, visits, trainings...
ca. 3 months writing by leading researcher

successful Twinning
at our Faculty
MiCoBion

<https://www.biocev.eu/en/about/projects/micobion.2>

call webpage

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-widera-2023-access-02-01>



Horizon Europe structure

Pillar 1 Excellent Science

✓ European Research Council

✓ Marie Skłodowska-Curie
Actions

✓ Research Infrastructures

Pillar 2 Global Challenges and European Industrial Competitiveness

- ✓
- Clusters
- Health
 - Culture, Creativity and Inclusive Society
 - Civil Security for Society
 - Digital, Industry and Space
 - Climate, Energy and Mobility
 - Food, Bioeconomy, Natural Resources, Agriculture and Environment

✓ Partnerships

Missions ✓

Joint Research Centre

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✓ European Innovation Council

European innovation
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Widening Participation and Strengthening the European Research Area

✓ Widening participation and spreading excellence

Reforming and Enhancing the European R&I system ✓



What is Horizon Europe



Horizon Europe structure & opportunities



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Projects by consortia on given topics

Partnerships

Widening participation

Become an evaluator



Become an evaluator



Funding & tender opportunities Single Electronic Data Interchange Area (SEDIA)



SEARCH FUNDING & TENDERS ▾

HOW TO PARTICIPATE ▾

PROJECTS & RESULTS

WORK AS AN EXPERT

SUPPORT ▾

- register into expert database
can be selected to evaluate proposals
- creating profile takes ca. 2 hours
 - education, expertise, languages...
 - mention experience outside academia
- **update** regularly
“your” topic about to close & you won’t apply?
put keywords in your expert profile
- **why become evaluator?**
 - learn how evaluation works
 - learn how good (and bad) proposals look like

Work as an expert

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/work-as-an-expert>

Profile

Personal data ✓	CV ✓
Expertise ✓	Current Employment ✓
Education ✓	Languages ✓
Data Protection Who can see my profile ✓	Publications ✓
Additional information ✓	

Let us know:

klara.sobotikova@natur.cuni.cz



FACULTY OF SCIENCE
Charles University

Overview of Horizon Europe

Ludmila Součková (ludmila.souckova@natur.cuni.cz)

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Take-home message

Any question about Horizon Europe?

Ask the Project Management Department pre-award support:

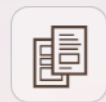
Klára Sobotíková, klara.sobotikova@natur.cuni.cz

- answer questions
- give **consultations**
- give **presentations** for your research group or department





Zaměstnanec



Formuláře



Informační zdroje



Harmonogram (kalendář studia)



Grantová agenda



Informační technologie

Aktuálně

Zde najdete seznam pouze těch aktuality, které informují o nyní **otevřených nebo připravovaných grantových výzvách**, o nadcházejících **seminářích a workshopech** s grantovou tematikou a podobně. (Seznam všech zveřejněných aktualit je na samostatné stránce: [archiv](#).) Aktuálnost seznamu udržujeme manuálně – některé aktuality zde mohou být zobrazeny několik dní po vypršení jejich „platnosti“.

Zaregistrujte se a dostávejte **dvakrát měsíčně** souhrn aktualit zveřejněných na této stránce.

Sort Date	Nadpis
20.01.2023	Biodiversa: mezinárodní projekty v oblasti biodiverzity a ekosystémů – plánovaná výzva
17.01.2023	Horizont Evropa, Rozšiřování účasti: výzva Hop On Facility 2023
17.01.2023	Marie Skłodowska-Curie Staff Exchanges (MSCA-SE) 2022: připomenutí
17.01.2023	GA ČR: soutěže plánované na rok 2023
12.01.2023	GA ČR: Výzva k podání návrhů slovinско-českých projektů

All open/forthcoming funding opportunities
 in Czech: <https://www.natur.cuni.cz/fakulta/odbor-rozvoje/grantova-agenda/grantova-agenda-new/#aktuality>
 in English: <https://www.natur.cuni.cz/eng/development-division/funding-opportunities/funding-opportunities#news>

Thank you for your attention

