

Overview of the new programme Horizon Europe



What is Horizon Europe?



Structure

International "top-down" projects



Funding & tender opportunities portal

What is Horizon Europe



- European Union's **Framework Programme for Research and Innovation 2021-2027**
- successor of Horizon 2020
- budget ca. € 95.5 billion (whole duration)
- formal adoption ongoing – to be finished ca. in April
- centrally managed programme
 - competition on European level
 - managed from Brussels
- EU member states + associated countries (to be negotiated)

About Horizon Europe on website of Faculty of Science CUNI

<https://www.natur.cuni.cz/eng/project-management-department/funding-opportunities/horizon-europe>

About Horizon Europe by European Commission

https://ec.europa.eu/info/horizon-europe_en

Information campaign in Czech on Horizon Europe by National Contact Points

8/3/2021 – 11/3/2021, separate blocks for individual programme parts

<https://www.h2020.cz/cs/obecne-akce/zapojte-se-do-programu-horizont-evropa>

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Structure of Horizon Europe



Pillar 1

Excellent Science

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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

Joint Research Centre

Pillar 3

Innovative Europe

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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



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ERC

- “high-risk, high-gain” research
- excellent individual researchers & their ideas
- any research field (“bottom-up”)
- special status – run by scientists for scientists

Info event on ERC at Faculty of Science ca. in April 2021 – follow our news

<https://www.natur.cuni.cz/fakulta/oddeleni-projektoveho-rizeni/grantova-agenda/grantova-agenda-new/#aktuality>

or subscribe to our newsletter

<https://www.natur.cuni.cz/fakulta/oddeleni-projektoveho-rizeni/grantova-agenda/newsletter-gi>

About ERC on website of Faculty of Science CUNI

<https://www.natur.cuni.cz/eng/project-management-department/funding-opportunities/erc>

ERC official website

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

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Research Infrastructures

MSCA

- goal: “nurture” researchers by **international mobility**
- any research field (“bottom-up”)
- good also for team leaders hosting supported researchers

MSCA official website

https://ec.europa.eu/research/mariecurieactions/msca-actions_en

Widening Participation and Strengthening the European Research Area

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tem

- goal: develop European research infrastructures
- research infrastructure = tools & services offered to research community (e.g. a transmission electron microscope or a herbarium)
- for those running a research infrastructure & involved in international collaboration

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Global Challenges and
European Industrial
Competitiveness

Goal:

“boosting key technologies and solutions
underpinning EU policies & Sustainable
Development Goals”

Clusters

- **1 Health**
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Global
Europe
Comp

possibly relevant:

- environmental and social health determinants
- cancer
- infectious diseases
- personalised medicine

• 1 Health

Clusters

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possibly relevant:

- cultural heritage
- migration

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possibly relevant:

- disaster-resilient societies

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possibly relevant:

- advanced materials
- space, including Earth observation

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See following presentation
by National Contact Point

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Missions

- ambitious, measurable goals relevant for European citizens
- implemented within Pillar 2 clusters
- mechanism to be piloted



Adaptation to climate change, including societal transformation



Conquering cancer



Soil health and food



Climate neutral and smart cities



Healthy oceans, seas, coastal and inland waters

About Missions by European Commission
https://ec.europa.eu/info/horizon-europe-next-research-and-innovation-framework-programme/missions-horizon-europe_en

See following presentations

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Partnerships

- European Commission
+ private and/or public stakeholders
in certain areas
- stakeholders
 - influence, where money goes
 - must contribute their money
- rationalisation in Horizon Europe
– only ca. 50 partnerships
(from ca. 100 partnerships
in Horizon 2020)

About Partnerships by European Commission

https://ec.europa.eu/info/horizon-europe-next-research-and-innovation-framework-programme/european-partnerships-horizon-europe_en

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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

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Research Infrastructures

- stimulate market-creating breakthroughs
- for innovative companies or researchers in strong cooperation with them

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Pillar 2 Global Challenges and European Industrial Competitiveness

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- goal: **increase research performance of “widening countries” (incl. Czechia)**
- must be **coordinated** by institution from **widening country**
- any research field
- often not “research costs”; funds mobility, training, personal costs...

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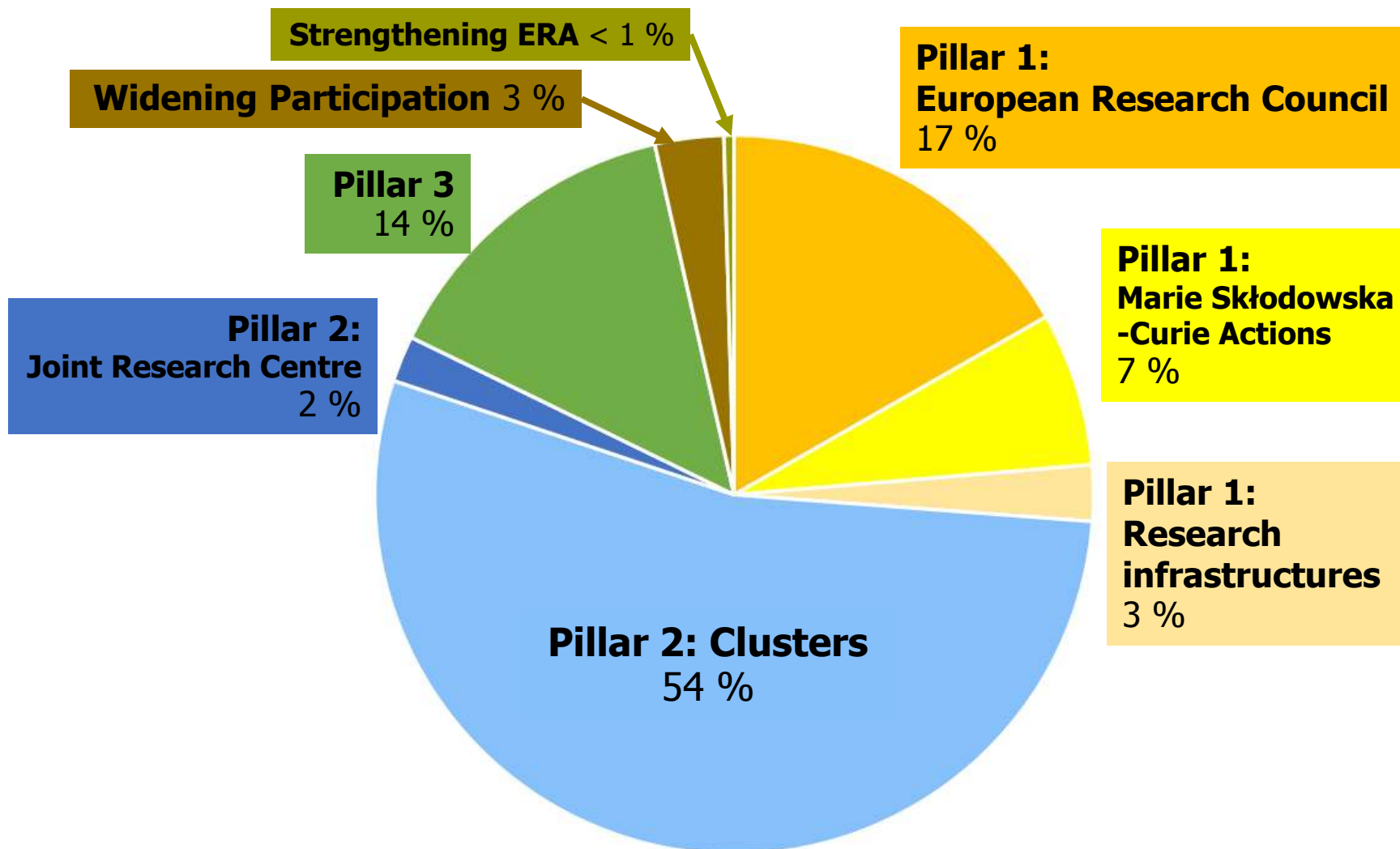
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Widening p

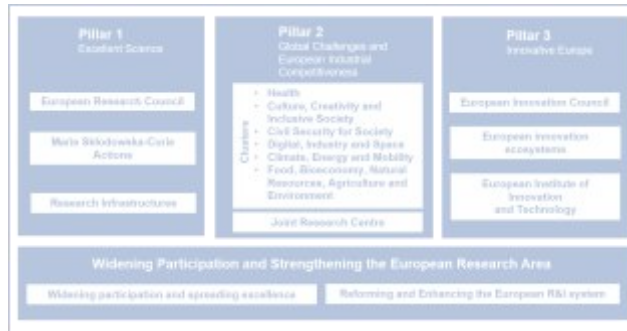
- for researchers “with outreach”
- e.g.:
Citizen science
Gender equality within science

Reforming and Enhancing the European R&I system

Budget distribution (€ 95.5 billion for whole duration)



What is Horizon Europe?



Structure

International "top-down" projects



Funding & tender opportunities portal



International “top-down” projects

- **given topic** – task to be solved
 - scope, expected impacts
 - deadline, type of project
- topics to be funded
 - published in **Work Programme**
 - Work Programme 2021–2022
ca. in April (drafts unofficially known)
- types of projects:
 - **Research and innovation action (RIA)** – applied research
 - **Innovation action (IA)** – bringing promising concept closer to market
 - **Coordination and support action (CSA)** – e.g. map existing knowledge
build a platform
- funding rate: 100% (70% for-profit entities in IA)
- a consortium applies – the best partners for the job
often **1 or 2 funded projects per topic**

E.g.:

*Health risks related to exposure
to electromagnetic fields (Cluster 1)*

*Manufacturing technologies
for biobased materials (Cluster 4)*

Science|Business: Horizon Europe draft work programmes leak online <https://sciencebusiness.net/framework-programmes/news/horizon-europe-draft-work-programmes-leak-online>

International “top-down” projects

- **consortium**

- formal minimum

RIA, IA: 3 partners from 3 countries

CSA: 1 entity

- reality: 10-20 partners (even 40)
depends on **scope of the topic**

- **complementary partners**

- researchers
 - users of results: industry, hospitals, farmers...
 - (support: communication, ethics...)
 - (topic requirements: SMEs, non-European partners...)
- requires experienced coordinator
being partner – not too difficult



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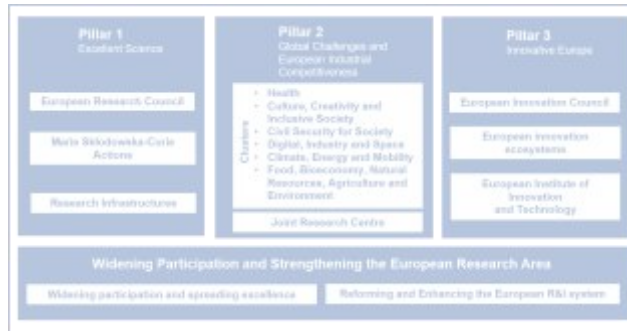
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Funding & tender opportunities Single Electronic Data Interchange Area (SEDIA)



SEARCH FUNDING & TENDERS ▾

HOW TO PARTICIPATE ▾

PROJECTS & RESULTS

WORK AS AN EXPERT

SUPPORT ▾

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

- all legal documents, e.g. Work Programme
- individual topics
 - all info (scope, expected results, type of project, deadline, updates...)
 - **application submission**
- sign grant agreement
- manage your project (submit reports, consult project officer...)
- identification
 - person: **EU login** (e-mail address, name, surname)
 - institution: **PIC code**
all information about institution in the system

When Faculty of Science
is applicant

PIC 999923434

("UNIVERZITA KARLOVA")



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

Profile

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

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



1) Student

Zaměstnanec



O fakultě Uchazeči Studium Věda a výzkum Veřejnost a média Absolventi Kontakty

Formuláře Informační zdroje Harmonogram (kalendář studia) Grantová agenda Informační technologie

Biologie Chemie Geografie

Thank you for your attention

Navigace

Informace pro zaměstnance

Události



Funding opportunities

(internally also in English – click here & switch to English version)



News of Foreign Administration

(in Czech, often with links to more information in English)

2)