



TECHNOLOGY
CENTRE PRAGUE

EIC PATHFINDER CHALLENGES CALL 2024

EIC Pathfinder Challenge on EU Space
infrastructure, 17.5. 2024



EIC UNDER HORIZON EUROPE

SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT*

Exclusive focus on civil applications



Pillar I EXCELLENT SCIENCE

European Research Council

Marie Skłodowska-Curie

Research Infrastructures



Pillar II GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

Clusters

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

Joint Research Centre



Pillar III INNOVATIVE EUROPE

European Innovation Council

European Innovation Ecosystems

European Institute of Innovation & Technology*

WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation & spreading excellence

Reforming & Enhancing the European R&I system



EIC MAIN INSTRUMENTS

PATHFINDER – from early stages of a technology to a proof of concept (TRL 1 – 3/4)

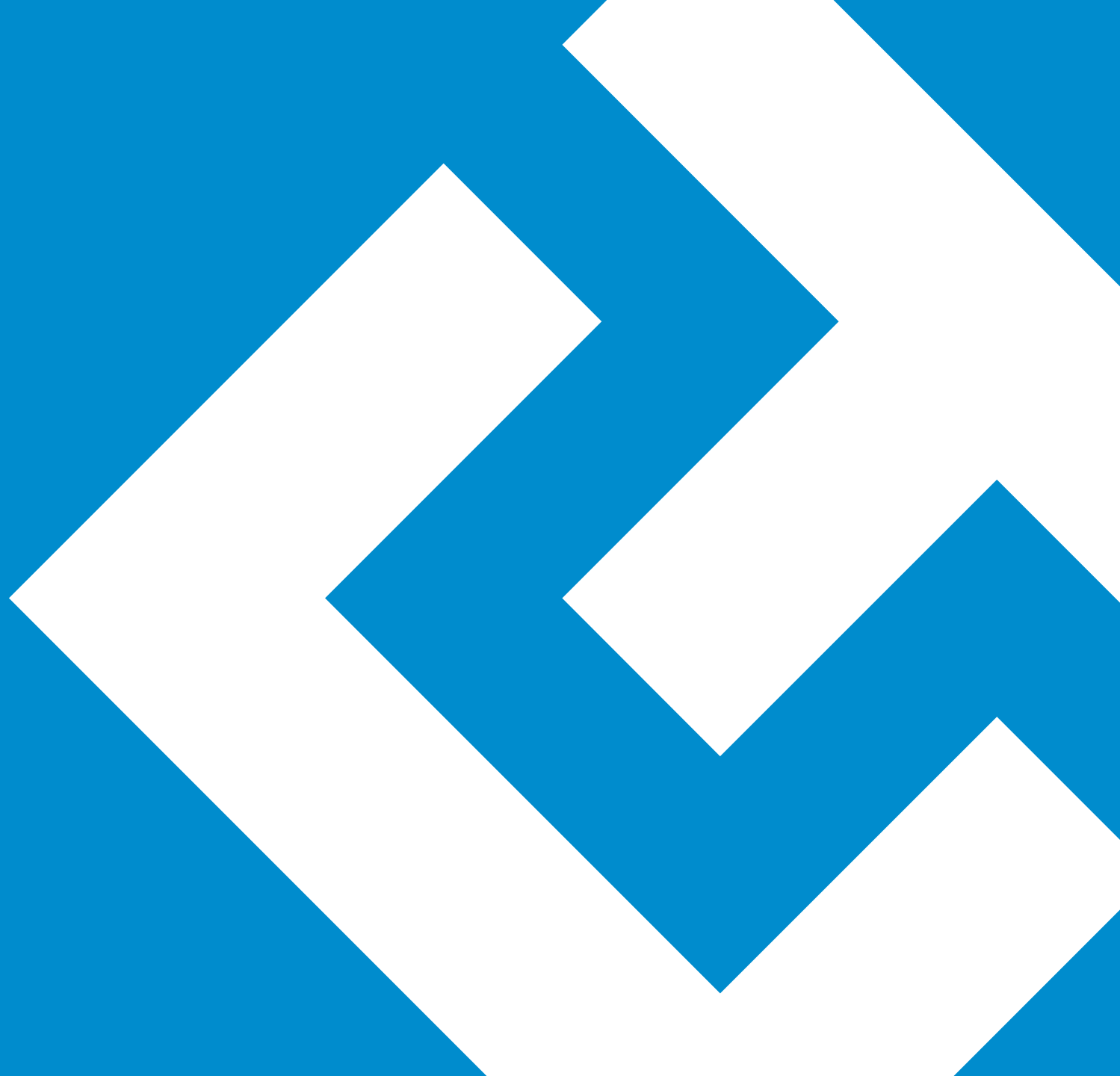
TRANSITION – from a proof of concept to a pre-commercial stage (TRL 3/4 – 5/6)

ACCELERATOR – from a pre-commercial stage to the market uptake and scale-up (TRL 5 – 9)



- EIC calls are mostly **Open** („bottom-up“)
- Specific thematic calls are called **Challenges**

EIC PATHFINDER



WHAT DOES EIC PATHFINDER SUPPORT



- Research of **new directions** in science and technology
- **High-risk approach** with the aim to bring **breakthrough technological solutions** and create **market opportunities**
- **Interdisciplinary projects** combining different perspectives in order to open up new technological pathways
- Projects with a high potential to have a **positive effect on the society and economy**

WHAT PROJECTS ARE NOT SUPPORTED

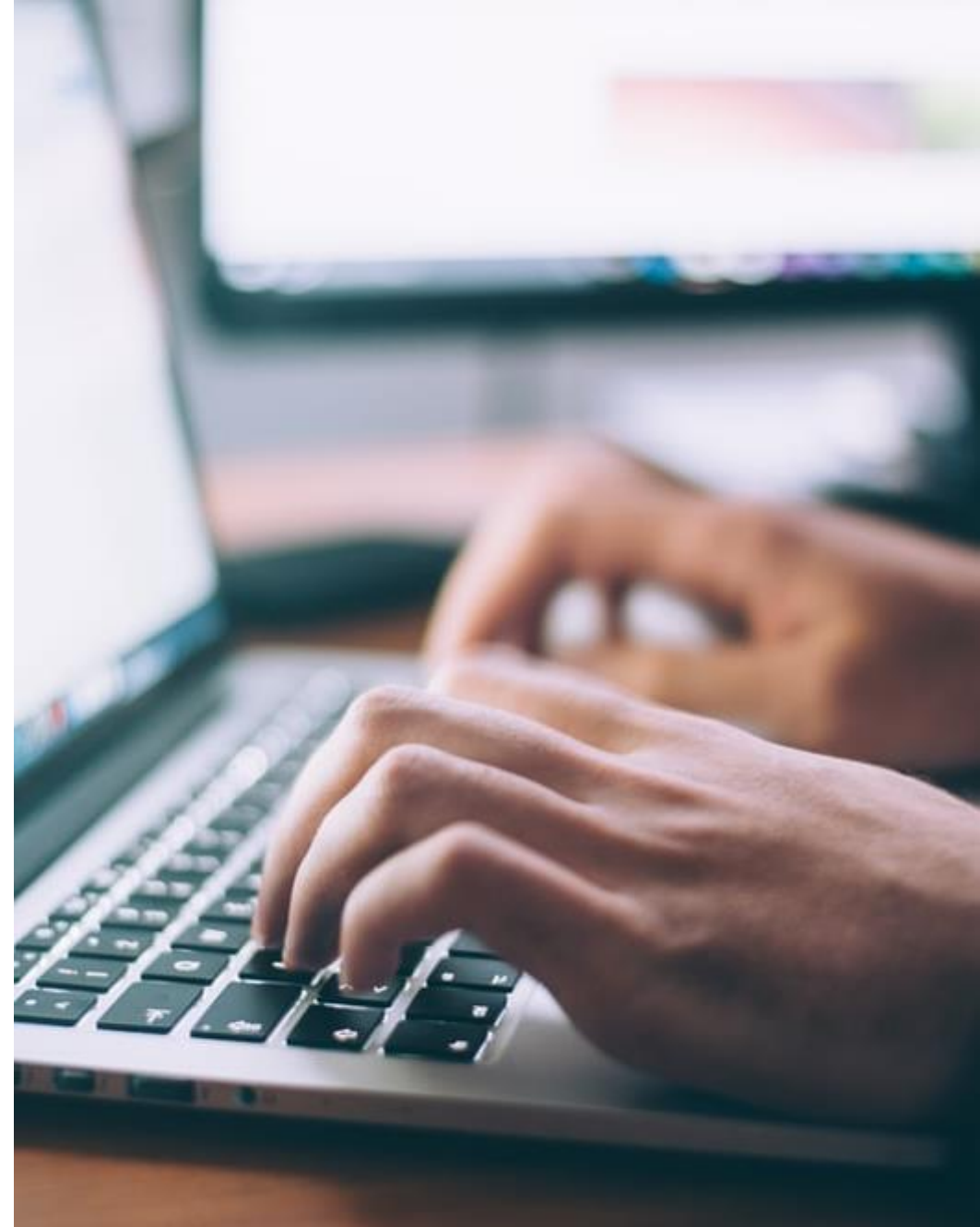


- Projects focused purely on pushing boundaries of a scientific field with no potential/ambition to develop a new technology/innovation

- Projects focused on an incremental development or development of already known methods/principles

WHAT IS EXPECTED?

- **Expected output**
 - **Proof of principle** that the main ideas of the envisioned future technology are feasible
- **Important aspect of project proposals**
 - Top-level **scientific publications**
 - Adequate formal protection of the generated **Intellectual Property**
 - Assessment of relevant aspects related to **regulation, certification, and standardization**
 - Empowerment of excellent **early career researchers** or promising **high-tech SMEs**
 - **Gender balance** among the WP leaders

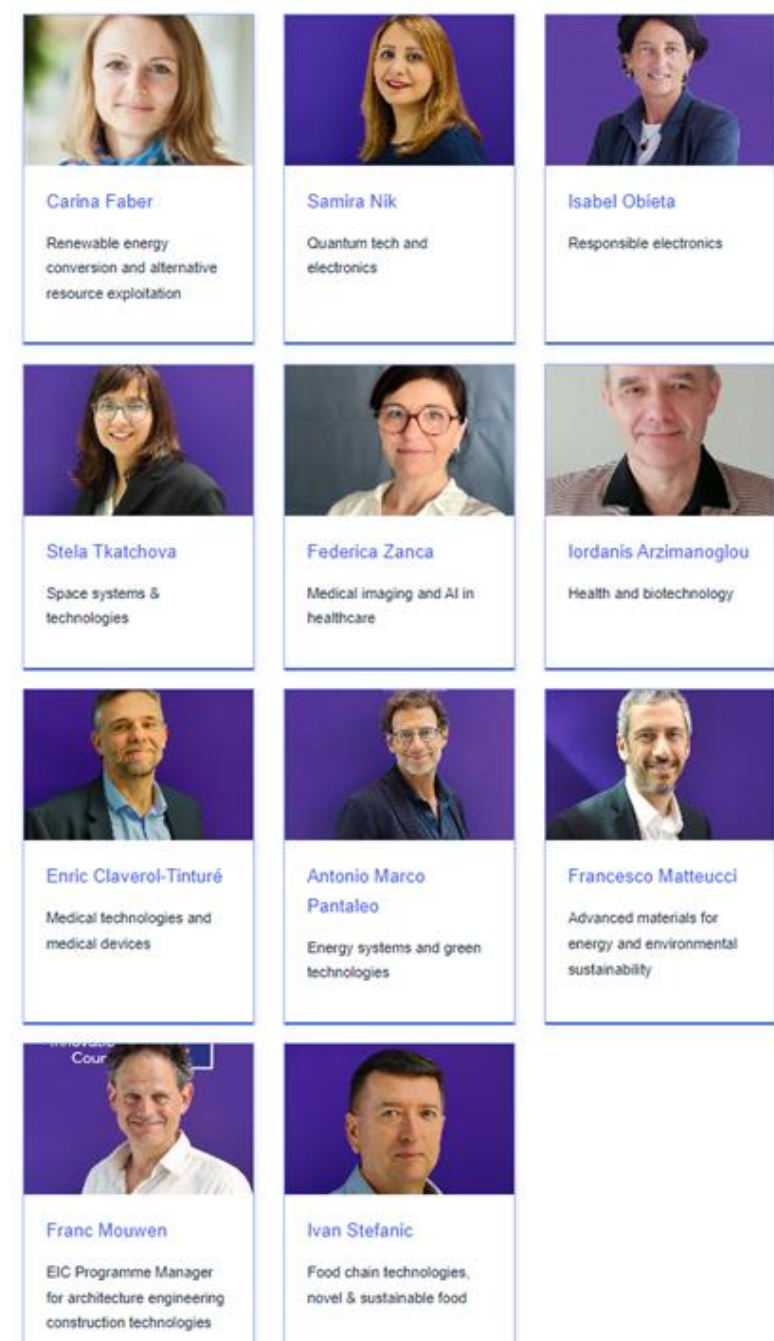


WHY CHALLENGES?

- The objective of EIC Pathfinder is to speed up development of new technologies that will reinforce the **EU strategic autonomy and global competitiveness**
- Challenges help to **direct efforts** into selected strategic areas
- The areas are defined based on **industry needs**, the **EU strategies** and an analysis of **funded Horizon projects**
- **EIC Programme Managers** play an important role in Challenges design and execution

EIC PROGRAMME MANAGERS

- Experts in strategic areas with **academic as well as business** backgrounds
- **Identify potential challenges** for emerging technologies and disruptive innovations
- They take part in the project selection process and **steer selected projects portfolios** towards the Challenge objectives
- https://eic.ec.europa.eu/eic-communities/eic-programme-managers_en



EIC PATHFINDER CHALLENGES 2024

- Solar-to-X devices for the decentralized prosumption of renewable fuels, chemicals and materials as climate change mitigation pathway
- Towards cement and concrete as a carbon sink
- Nature inspired alternatives for food packaging and films for agriculture
- Nanoelectronics for energy-efficient smart edge devices
- **Strengthening the sustainability and resilience of EU space infrastructure**



EIC PATHFINDER CHALLENGES CALL 2024

- Planned opening: **June 20, 2024**
- **Deadline:** October 16, 2024
- EU contribution up to **EUR 4 million** (lump sum)
 - The overall call budget is EUR 120 mio
- **RIA** (100 % eligible costs)
- **Individual or Collaborative research:**
 - Single legal entity (companies larger than SMEs are not allowed to apply as a single entity)
 - A consortium of 2 partners from 2 different MS/AC
 - A consortium of at least 3 partners from 3 different MS/AC (standard HE rules)

EVALUATION CRITERIA

EXCELLENCE	IMPACT	IMPLEMENTATION
Threshold 4/5, weight 60 %	Threshold 3,5/5, weight 20 %	3/5, weight 20 %
Objectives and relevance to the Challenge	Potential Impact	Work plan
Novelty	Innovation potential	Allocation of resources
Plausibility of the methodology	Communication and Dissemination	Quality of the applicant/consortium

PORTFOLIO CONSIDERATIONS

- Projects in a portfolio are supposed to be **complementary**
- **Interaction among projects** is expected



Enhanced impact

- **Challenge Guide** = key document for the applicants
 - It specifies the aspects to be taken into account when establishing a project portfolio

WHAT ARE PATHFINDER BENEFICIARIES ELIGIBLE FOR

- **EIC Booster grant**
 - Additional grant of up to EUR 150K to undertake complementary activities to explore potential pathways to commercialisation or for portfolio activities
- **EIC Transition** scheme
- **Fast Track** to the EIC Accelerator
- **Next Generation Innovation Talents** scheme
- **Business Acceleration Services**

SUPPORT TO APPLICANTS FROM THE WIDERA INTERNATIONAL NETWORK

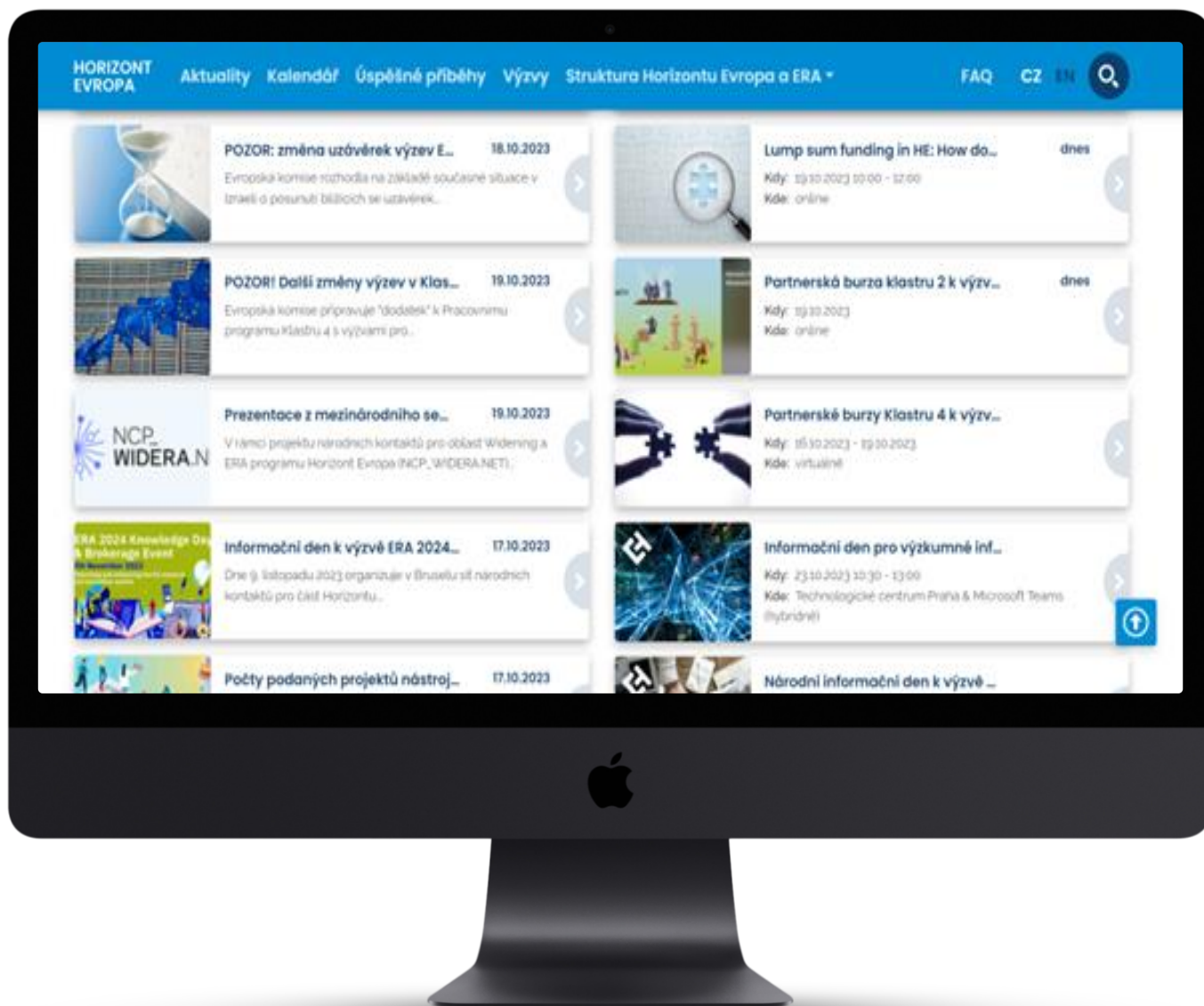
- Free expert pre-check of the proposal
- For proposals with a coordinator or a WP leader from a widening country
- <https://www.ncpwideranet.eu/wideraexperts/>

SOME FAQs

- **What is the expected duration of a Pathfinder project?**
 - There is no pre-defined duration, the projects typically last between 36 and 60 months
- **Is there any expected/recommended size of a consortium, does the size correlate with chances to succeed?**
 - No, the success depends on the quality of the proposal and ability of the applicant to implement the project
- **Is it obligatory to include industry partners into the consortium?**
 - No, it is not obligatory. It may however be beneficial for the future commercialization activities or be taken into account during the evaluation
- **[Note: read the Challenge Guide for Challenge specific details](#)**

EIC TEMPLATES AND GUIDANCE

- **Proposal forms and evaluation forms:**
 - Funding & Tenders Opportunities portal: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents>
- **EIC Work programme 2024** (general rules and evaluation criteria):
 - <https://eic.ec.europa.eu/system/files/2023-12/EIC-workprogramme-2024.pdf>
- **Challenge guides:** guidance and background for the common understanding, participation rules and obligations for the EIC beneficiaries that are involved in the Challenge Portfolio
 - Funding & Tenders Opportunities portal (for each Challenge separately)
- EIC FAQ: https://eic.ec.europa.eu/eic-frequently-asked-questions_en



MORE INFORMATION

- <https://www.horizontevropa.cz/cs>
- <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>
- <https://eic.ec.europa.eu/>



THANK YOU!

Michaela Vlková

National Contact Point EIC

+420 601 343 640

vlkovam@tc.cz

www.tc.cz