APRE
Agenzia per la Promozione della Ricerca Europea

LO EUROPEAN INNOVATION COUNCIL:

LO STRUMENTO EIC PATHFINDER

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20 giugno 2023

*La presentazione è basata su materiale della Commissione Europea


HORIZON EUROPE
EURATOM
SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND
Exclusive focus on defence research & development
Research actions
Development actions
SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT*
Exclusive focus on civil applications
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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
Fusion
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* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme
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Pathfinder (TRL1-4)
- **For consortia**
- Early stage research on breakthrough technologies
- **Grants up to €3/4 million**

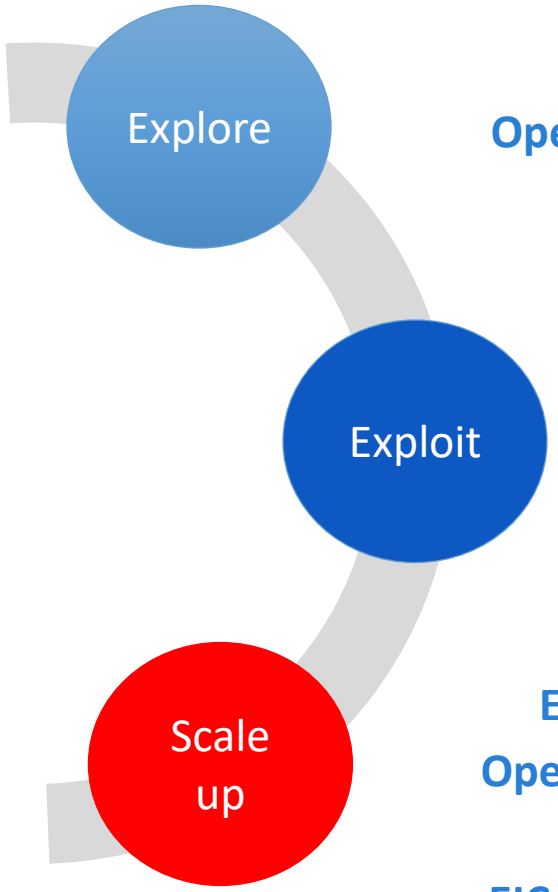
Transition (TRL 4-6)
- **For consortia and single entities**
- Technology maturation from proof of concept to validation
- Business & market readiness
- **Grants up to €2.5 million**

Accelerator (TRL 6-9)
- **For individual SMEs**
- Development & scale up of deep-tech/ disruptive innovations by startups/ SMEs
- Blended finance (**grants up to €2.5 million; equity investment up to €15 million or above**)

Relativamente ai tre strumenti di finanziamento dell'EIC, l'Italia presenta nel 2021/2022 dei buoni risultati sugli schemi Pathfinder e Transition mentre dobbiamo migliorare la performance sull' Accelerator.

1. Basic principle observed
2. Technology concept formulated
3. Experimental proof of concept
4. Technology validated in lab
5. Technology validated in relevant environment
6. Technology demonstrated in relevant environment
7. System prototype demonstration in operational env
8. System complete and qualified
9. Actual system proven in operational environment

Market uptake, deployment



EIC Pathfinder
Open and Challenges

EIC Transition
Open and Challenges

EIC Accelerator
Open and Challenges
Grant

EIC Accelerator
(Equity)

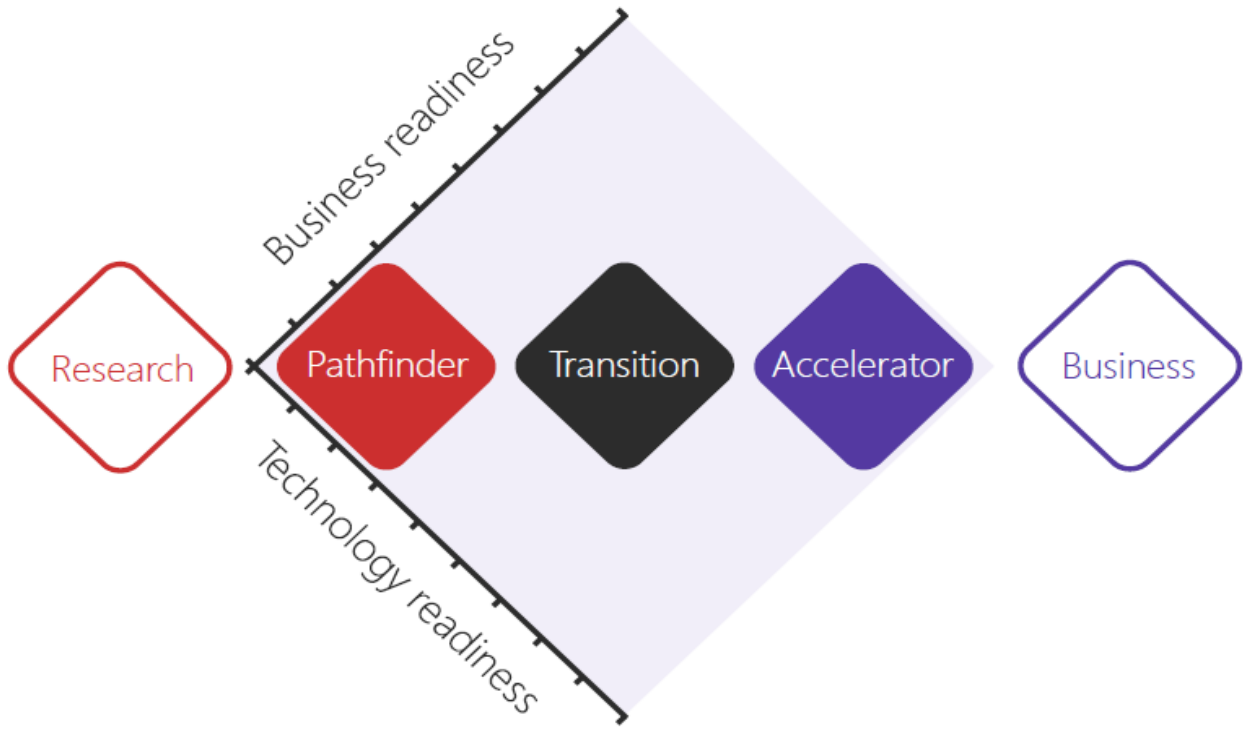
The EIC Instruments and the TRL

Da Pathfinder ad Accelerator – elementi comuni

- Focus su innovazioni **breakthrough e disruptive** , anche sociali, che hanno il potenziale per creare nuovi mercati;
- bandi principalmente **bottom-up,** aperti alle innovazioni provenienti da tutti i campi della scienza, della tecnologia e rivolti ad applicazioni in qualsiasi settore;
- Sono incoraggiate le innovazioni che riguardano **diversi settori scientifici, tecnologici** (ad es. combinando prodotti fisici e digitali);
- Focus **sugli innovatori,** semplificando le procedure e i requisiti amministrativi, facendo uso di interviste per aiutare a valutare le applicazioni e garantendo un rapido processo decisionale;
- Sostegno ad **innovazioni ad alto rischio** laddove i rischi, sia tecnologici/di mercato/normativi, non possono essere sostenuti dal mercato da solo o tramite strumenti finanziari (InvestEU)
- **Gestione proattiva** con milestones per valutare i progressi e la possibilità di riorientare i progetti laddove necessario

EIC stages the entrepreneurial journey as pathfinder, transition, accelerator with increasing readiness levels

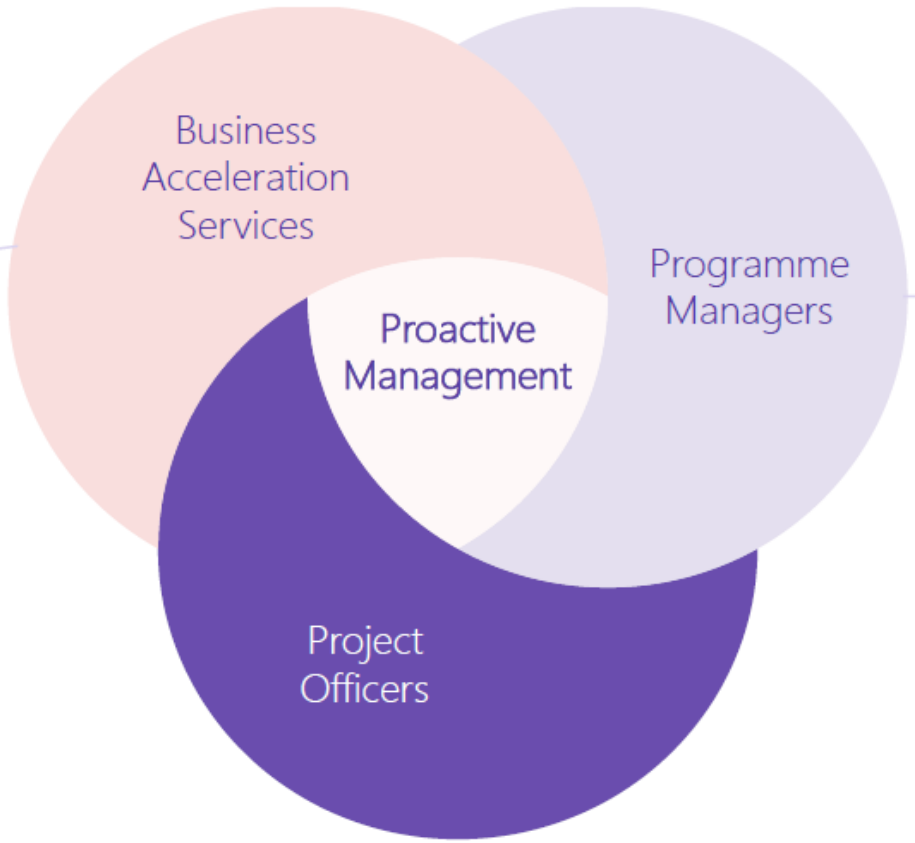
WHAT?



WHY?

With proactive management the EIC aims to maximize its support to success of the entrepreneurial journey

- Access to entrepreneurs
- Access to mentoring
- Access to ecosystems
- Access to partners, peers
- Access to trainings
- Access to workshops
- Access to expert advice
- Access to recruitment
- Access to industry



- Health, Biotech
- MedTech
- SpaceTech
- Quantum, electronics
- Greentech materials
- Greentech
- AEC
- Agri-food
- Responsible electronics
- Bio-fuels, E-fuels

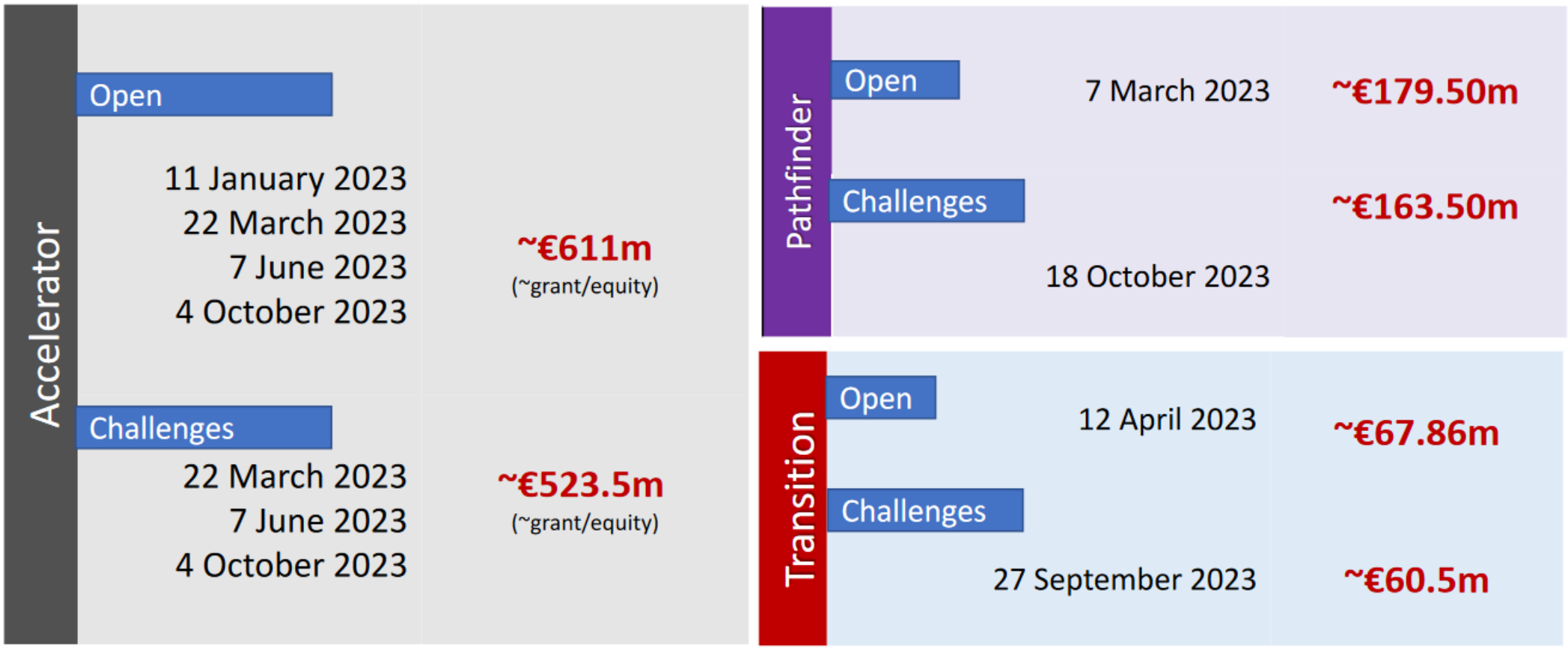
Challenges
Portfolios

Cut-off dates of the various calls

Cut-off dates:	Pathfinder	Transition	Accelerator
Open	7 March 2023	12 April 2023 27 September 2023	11 January 2023 22 March 2023 7 June 2023 4 October 2023
Challenge	18 October 2023	12 April 2023 27 September 2023	22 March 2023 7 June 2023 4 October 2023

EIC WP 2023 deadlines and budgets

European Innovation Council



APRE

Overview of EIC Challenges for 2023

European Innovation Council

€163 million for five Pathfinder Challenges

- Clean and efficient cooling
- Architecture, Engineering and Construction digitalisation for a novel triad of design, fabrication, and materials
- Precision nutrition
- Responsible electronics
- In-space solar energy harvesting for innovative space applications

€60.5 million for three Transition Challenges

- Full scale Micro-Nano-Bio devices for medical and medical research applications
- Environmental intelligence
- Chip-scale optical frequency combs

€523.5 million for eight Accelerator Challenges

- Novel biomarker-based assays to guide personalised cancer treatment
- Aerosol and surface decontamination for pandemic management
- Energy storage
- New European Bauhaus and Architecture, Engineering and Construction digitalisation for decarbonisatio
- Emerging semiconductor and
- Quantum technology components
- Novel technologies for resilient agriculture
- Customer-driven, innovative space technologies and services

RADICAL INNOVATION BREAKTHROUGHS

Radical Innovation Breakthroughs RIBRIs

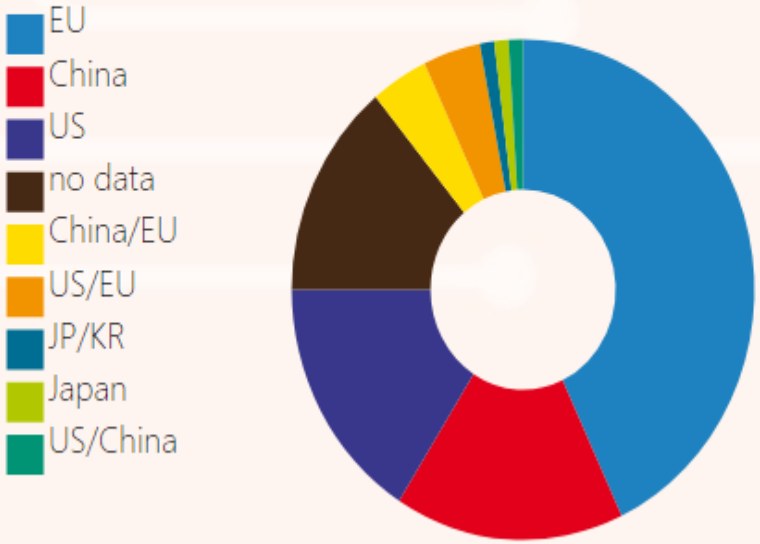
1. 2D Materials
2. 3D Printing of Food
3. 3D Printing of Glass
4. 3D Printing of Large Objects
5. 4D Printing
6. Access Economy
7. Airborne wind turbine
8. Alternative Currency
9. Aluminium-based energy
10. Antibiotic Susceptibility Testing
11. Artifical Intelligence
12. Artificial Photosynthesis
13. Artificial synapse/ brain
14. Asteroid mining
15. Augmented reality
16. Automated indoor farming
17. Basic Income
18. Biodegradable sensors
19. Bioelectronics
20. Bioinformatics
21. Bioluminescence
22. Bionics in medicine
23. Bioplastic
24. Bioprinting
25. Blockchain
26. Body 2,0 and the Quantified Self
27. Brain Function Mapping
28. Brain Machine Interface
29. Car-free City
30. Carbon Nanotubes
31. Carbon capture and sequestration
32. Chatbots
33. Collaborative innovation spaces
34. Computational Creativity
35. Computing memory
36. Control of gene expression
37. Desalination
38. Driverless
39. Drug delivery
40. Emotion recognition
41. Energy Harvesting
42. Epigenetic change technologies
43. Exoskeleton
44. Flexible electronics
45. Flying car
46. Gamification
47. Gene Therapy
48. Gene editing
49. Genomic vaccines
50. Geoengineering: changing landscapes
51. Graphene Transistors
52. Harvesting Methane Hydrate
53. High-precision clock
54. Holograms
55. Humanoids
56. Hydrogels
57. Hydrogen fuel
58. Hyperloop
59. Hyperspectral imaging
60. Lab-On-A-Chip
61. Life Caching
62. Local Food Circles
63. Marine and tidal power technologies
64. Metamaterials
65. Microbial fuel cells
66. Microbiome
67. Molecular recognition
68. Molten Salt Reactors
69. Nano-LEDs
70. Nanowires
71. Neuromorphic chip
72. Neuroscience of Creativity and Imagination
73. New Journalist Networks
74. Optoelectronics
75. Owning and Sharing Health Data
76. Plant communication
77. Plastic Eating
78. Precision farming
79. Quantum Computers
80. Quantum Cryptography
81. Read/Write Culture
82. Regenerative medicine
83. Reinventing Education
84. Reprogrammed human cells
85. Self-healing materials
86. Smart Tattoos
87. Smart windows
88. Soft robot
89. Speech Recognition
90. Spintronics
91. Splitting carbon dioxide
92. Swarm robotics
93. Targeting cell death pathways
94. Technologies for disaster preparedness
95. Thermoelectric paint
96. Touchless gesture recognition
97. Underwater living
98. Warfare drones
99. Wastewater nutrient recovery
100. Water Splitting

RADICAL INNOVATION BREAKTHROUGHS

https://ribri.isi-project.eu/

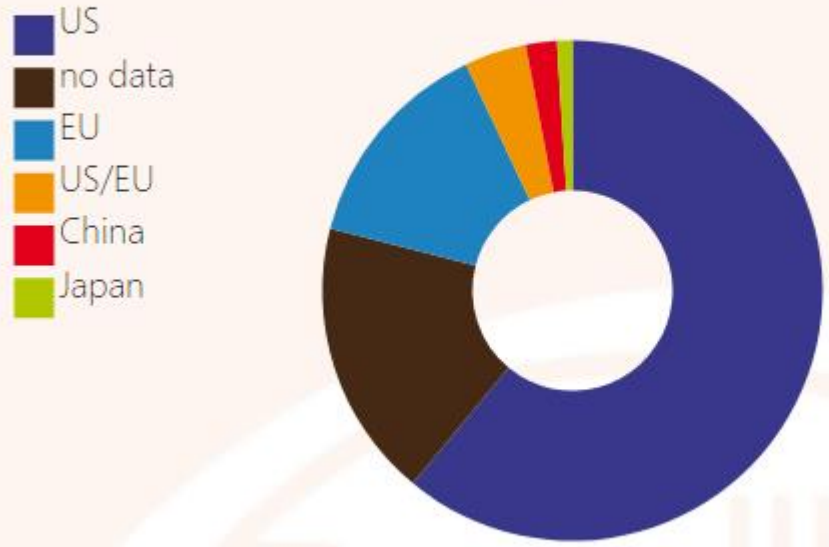
Leading in publications

Distribution of leadership positions in publications on RIBRI topics among countries/regions

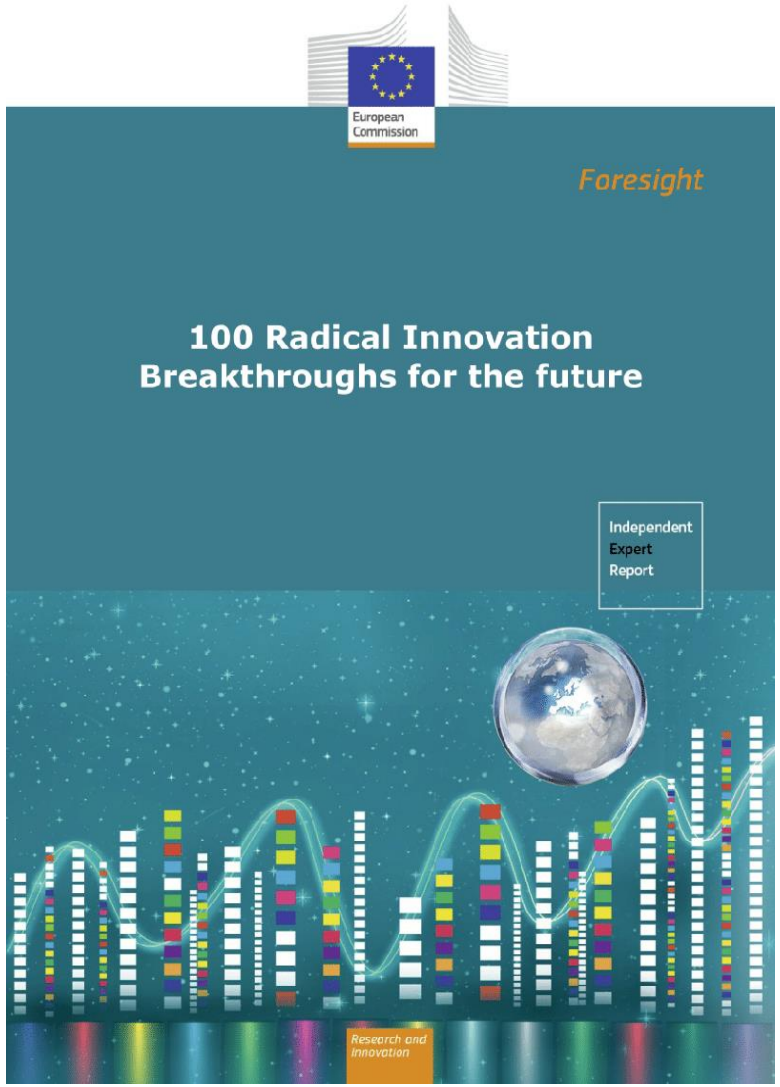


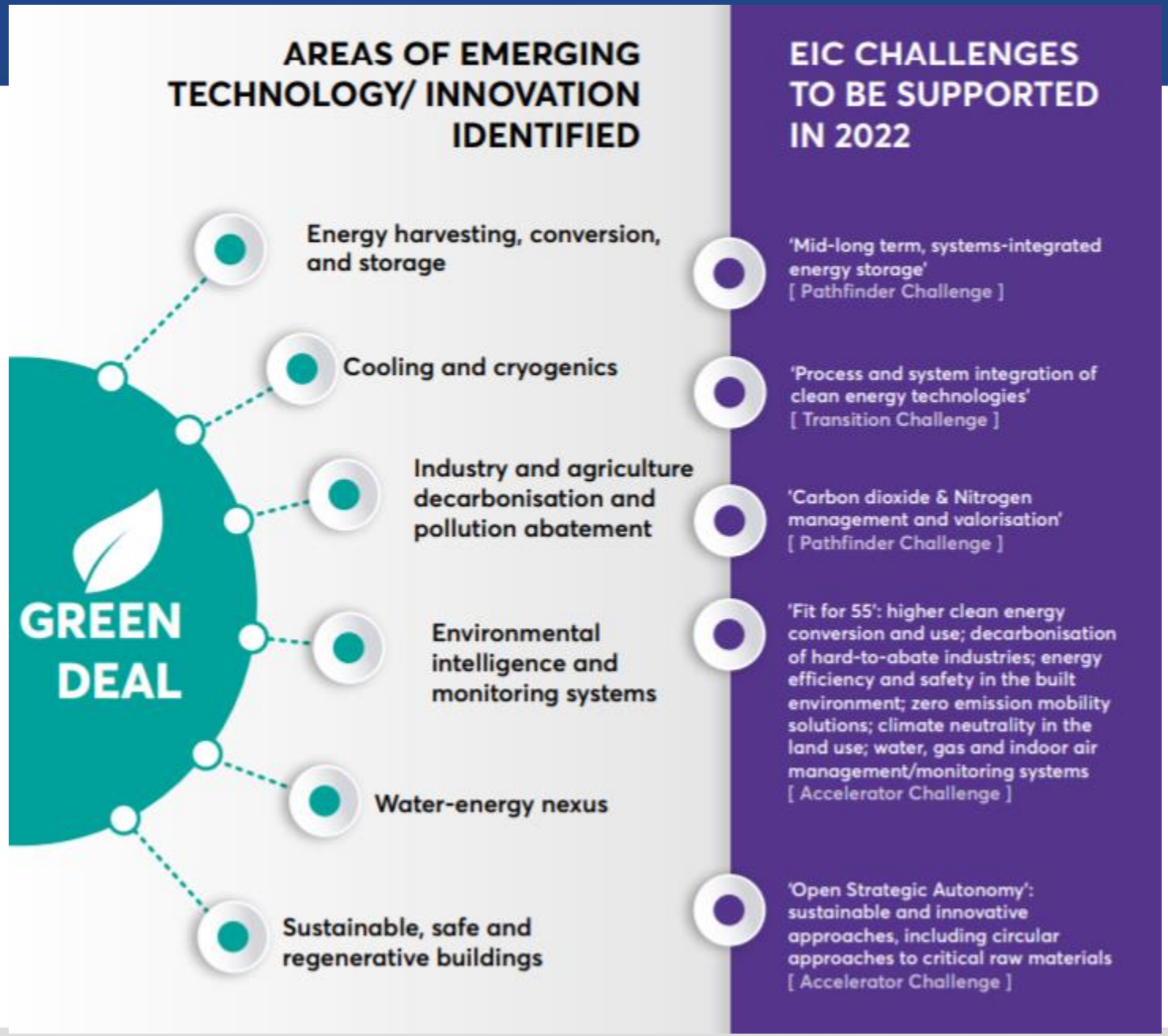
Leading in patents

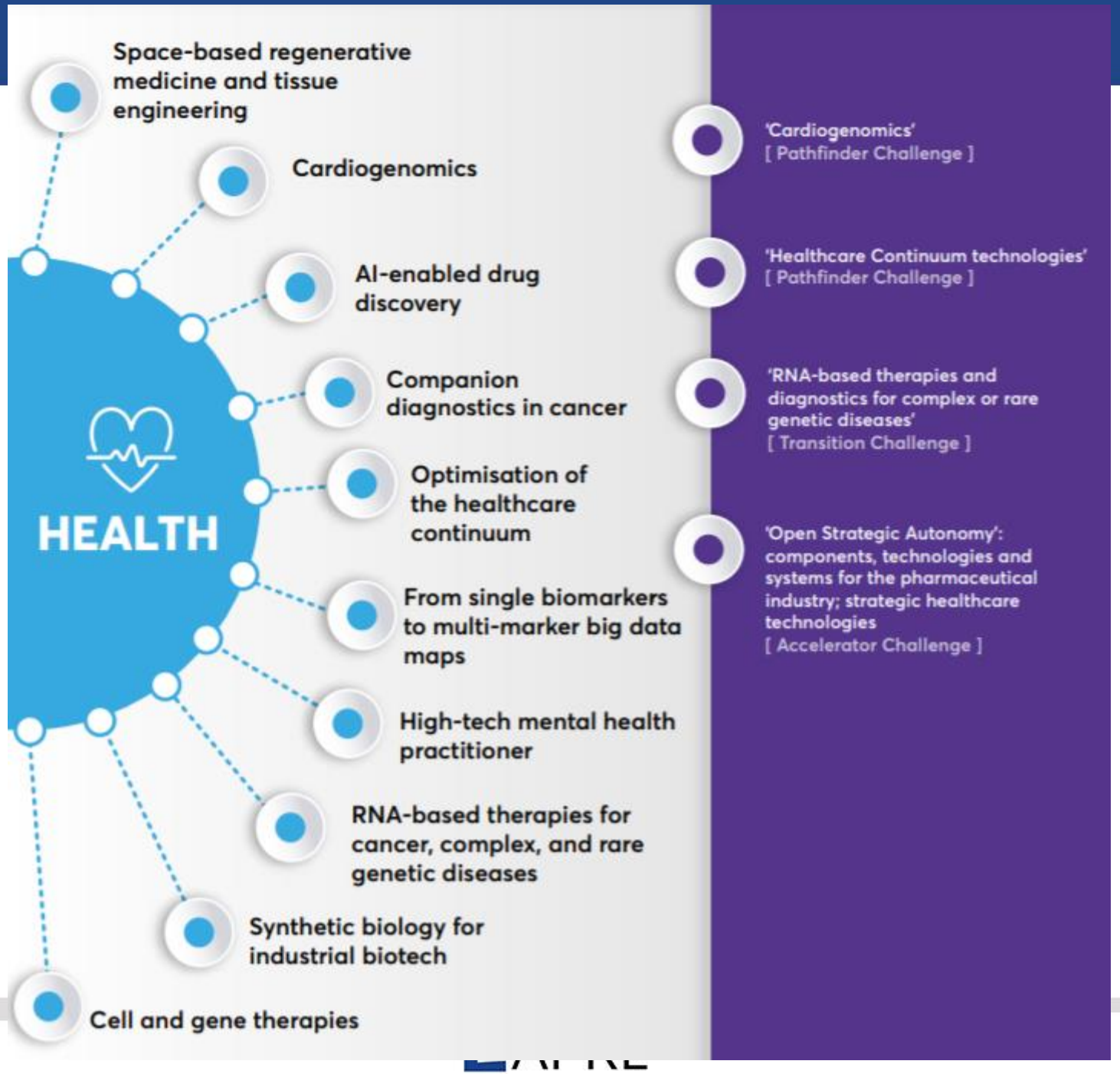
Distribution of leadership positions in patents on RIBRI topics among countries/regions

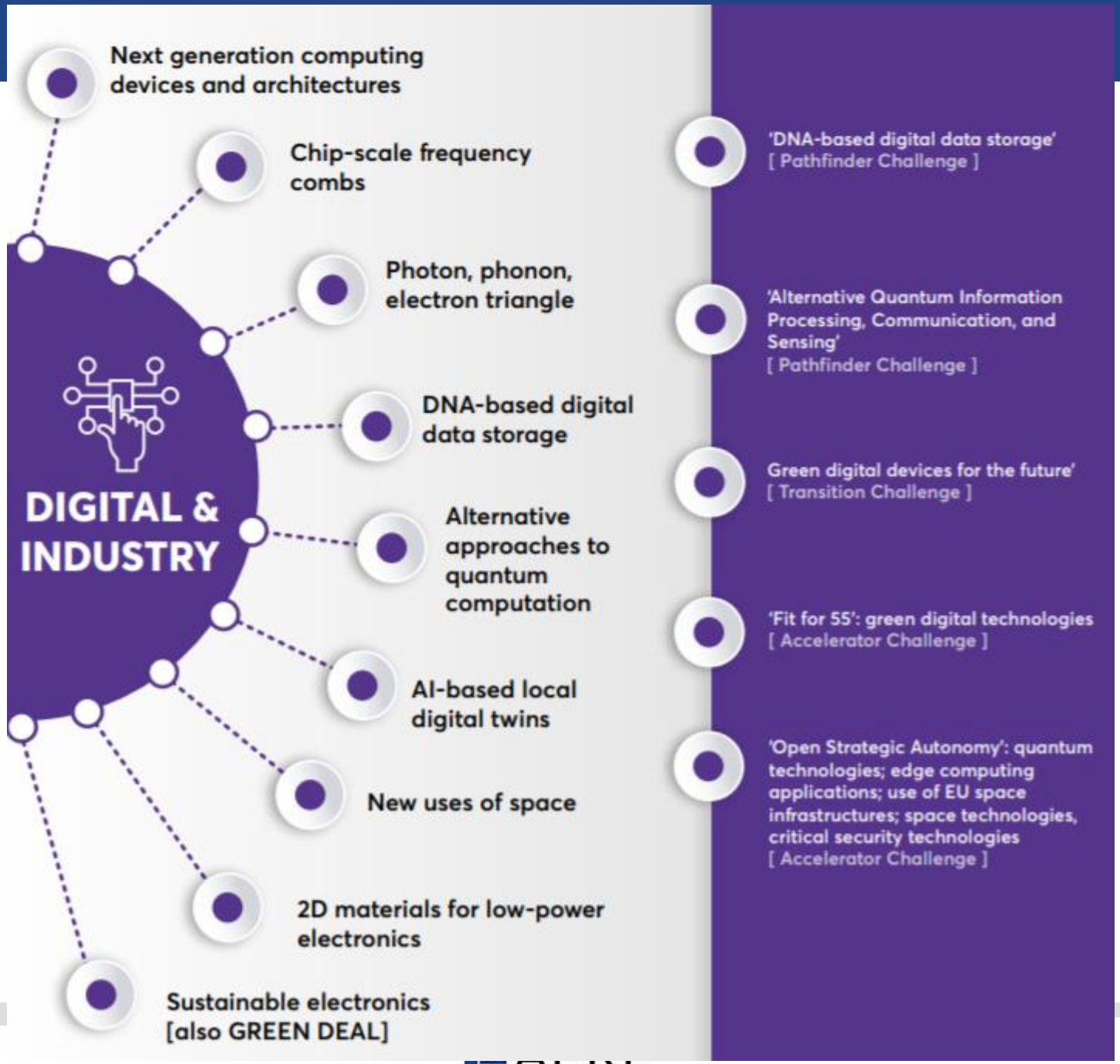


pubblicazioni di approfondimento



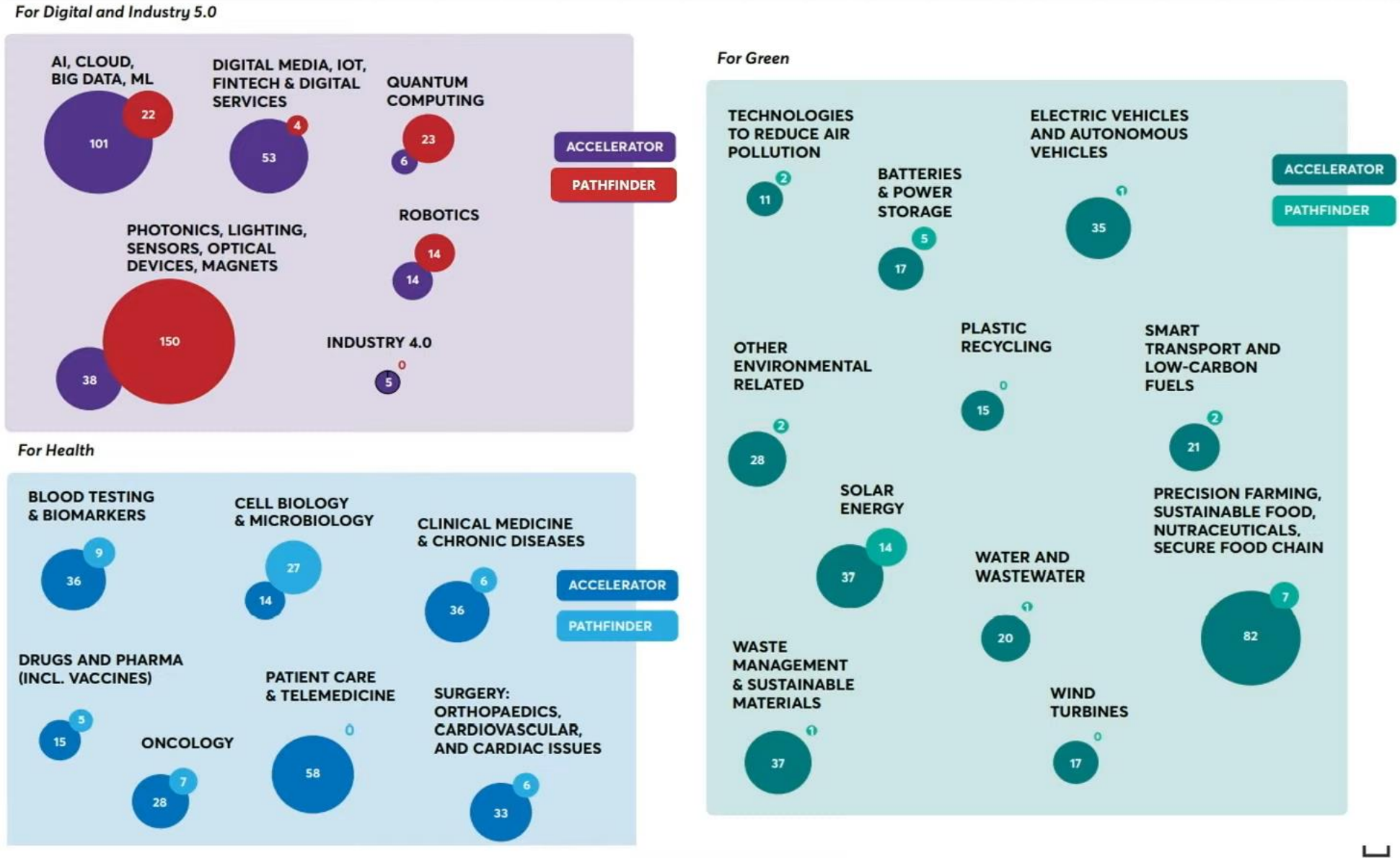

AREAS OF EMERGING TECHNOLOGY/ INNOVATION IDENTIFIED
EIC CHALLENGES TO BE SUPPORTED IN 2022
GREEN DEAL
Energy harvesting, conversion, and storage
Cooling and cryogenics
Industry and agriculture decarbonisation and pollution abatement
Environmental intelligence and monitoring systems
Water-energy nexus
Sustainable, safe and regenerative buildings
'Mid-long term, systems-integrated energy storage'
[Pathfinder Challenge]
'Process and system integration of clean energy technologies'
[Transition Challenge]
'Carbon dioxide & Nitrogen management and valorisation'
[Pathfinder Challenge]
'Fit for 55': higher clean energy conversion and use; decarbonisation of hard-to-abate industries; energy efficiency and safety in the built environment; zero emission mobility solutions; climate neutrality in the land use; water, gas and indoor air management/monitoring systems
[Accelerator Challenge]
'Open Strategic Autonomy': sustainable and innovative approaches, including circular approaches to critical raw materials
[Accelerator Challenge]


HEALTH
Space-based regenerative medicine and tissue engineering
Cardiogenomics
AI-enabled drug discovery
Companion diagnostics in cancer
Optimisation of the healthcare continuum
From single biomarkers to multi-marker big data maps
High-tech mental health practitioner
RNA-based therapies for cancer, complex, and rare genetic diseases
Synthetic biology for industrial biotech
Cell and gene therapies
'Cardiogenomics'
[Pathfinder Challenge]
'Healthcare Continuum technologies'
[Pathfinder Challenge]
'RNA-based therapies and diagnostics for complex or rare genetic diseases'
[Transition Challenge]
'Open Strategic Autonomy': components, technologies and systems for the pharmaceutical industry; strategic healthcare technologies
[Accelerator Challenge]


DIGITAL & INDUSTRY
Next generation computing devices and architectures
Chip-scale frequency combs
Photon, phonon, electron triangle
DNA-based digital data storage
Alternative approaches to quantum computation
AI-based local digital twins
New uses of space
2D materials for low-power electronics
Sustainable electronics [also GREEN DEAL]
'DNA-based digital data storage' [Pathfinder Challenge]
'Alternative Quantum Information Processing, Communication, and Sensing' [Pathfinder Challenge]
Green digital devices for the future' [Transition Challenge]
'Fit for 55': green digital technologies [Accelerator Challenge]
'Open Strategic Autonomy': quantum technologies; edge computing applications; use of EU space infrastructures; space technologies, critical security technologies [Accelerator Challenge]

Impacts of the pilot: EIC Pathfinder projects and Accelerator companies in all main fields of breakthrough technology

European Innovation Council



EIC PATHFINDER-OPEN & CHALLENGES

Funds research to develop the scientific basis to underpin breakthrough technologies

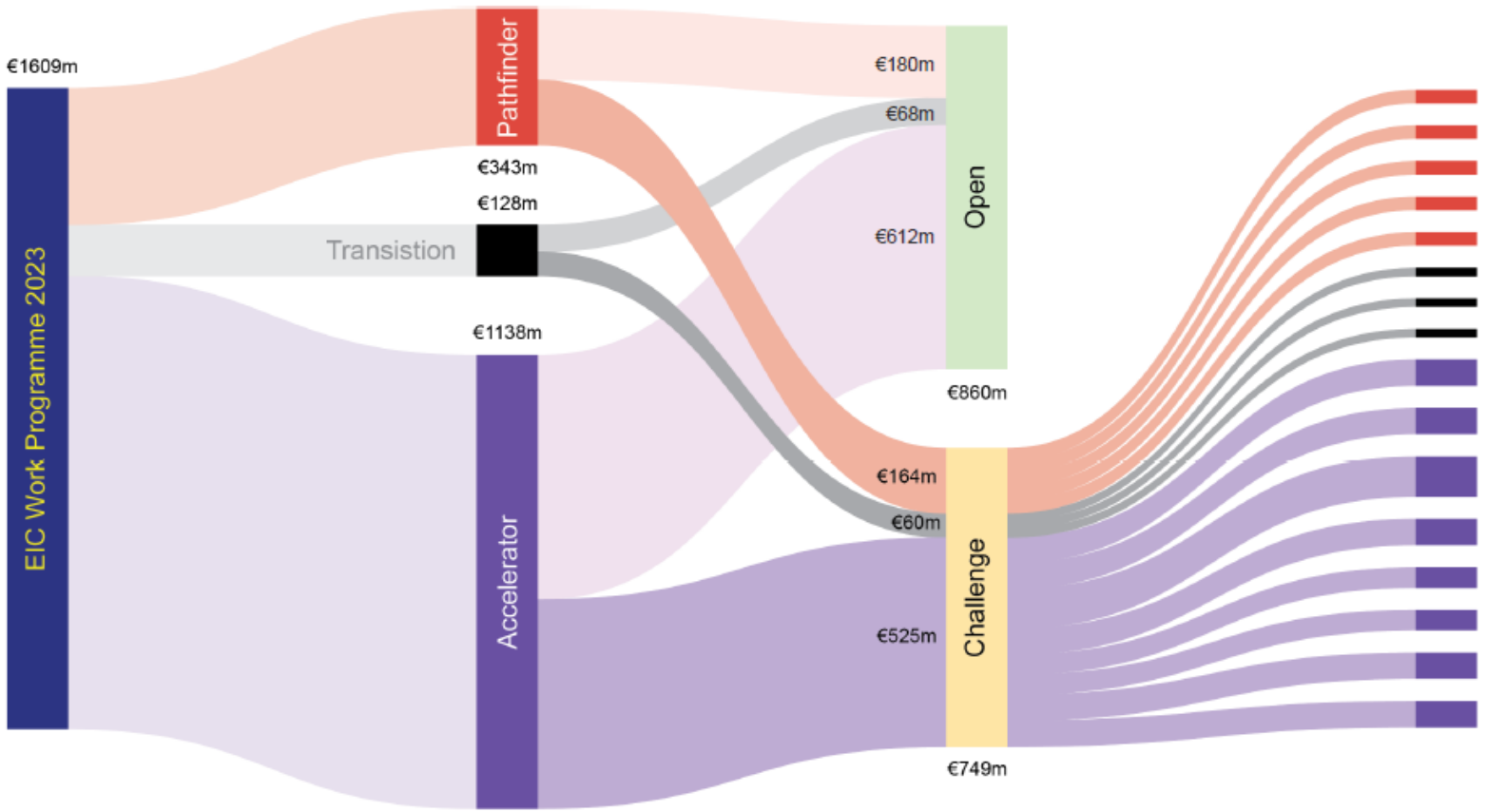
European Innovation Council

WP 2023 Pathfinder

EIC Pathfinder Open → to support projects in any field of science, technology or application without predefined thematic priorities ('bottom-up')

EIC Pathfinder Challenges → to support coherent portfolios of projects within predefined thematic areas with the aim to achieve specific objectives for each Challenge

In 2023 EIC allocates ~€1.6bn to Open and Challenge calls by its Pathfinder, Transition, Accelerator programs



€32.7m	P1	Clean efficient cooling
€32.7m	P2	Digitalized construction
€32.7m	P3	Precision nutrition
€32.7m	P4	Responsible electronics
€32.7m	P5	In-space solar energy harvesting
€20m	T1	Medical micro-nano-bio devices
€20m	T2	Environmental intelligence
€20m	T3	Chip-scale optical frequency combs
€65m	A1	Biomarker-guided cancer treatment
€65m	A2	Aerosol and surface decontamination
€100m	A3	Energy storage technologies
€65m	A4	Digitalized construction
€50m	A5	Fault-tolerant quantum computers
€50m	A6	Semiconductor chip design
€65m	A7	Technologies for resilient agriculture
€65m	A8	Space technologies and services

Pathfinder calls 2023 – Summary table

European Innovation Council

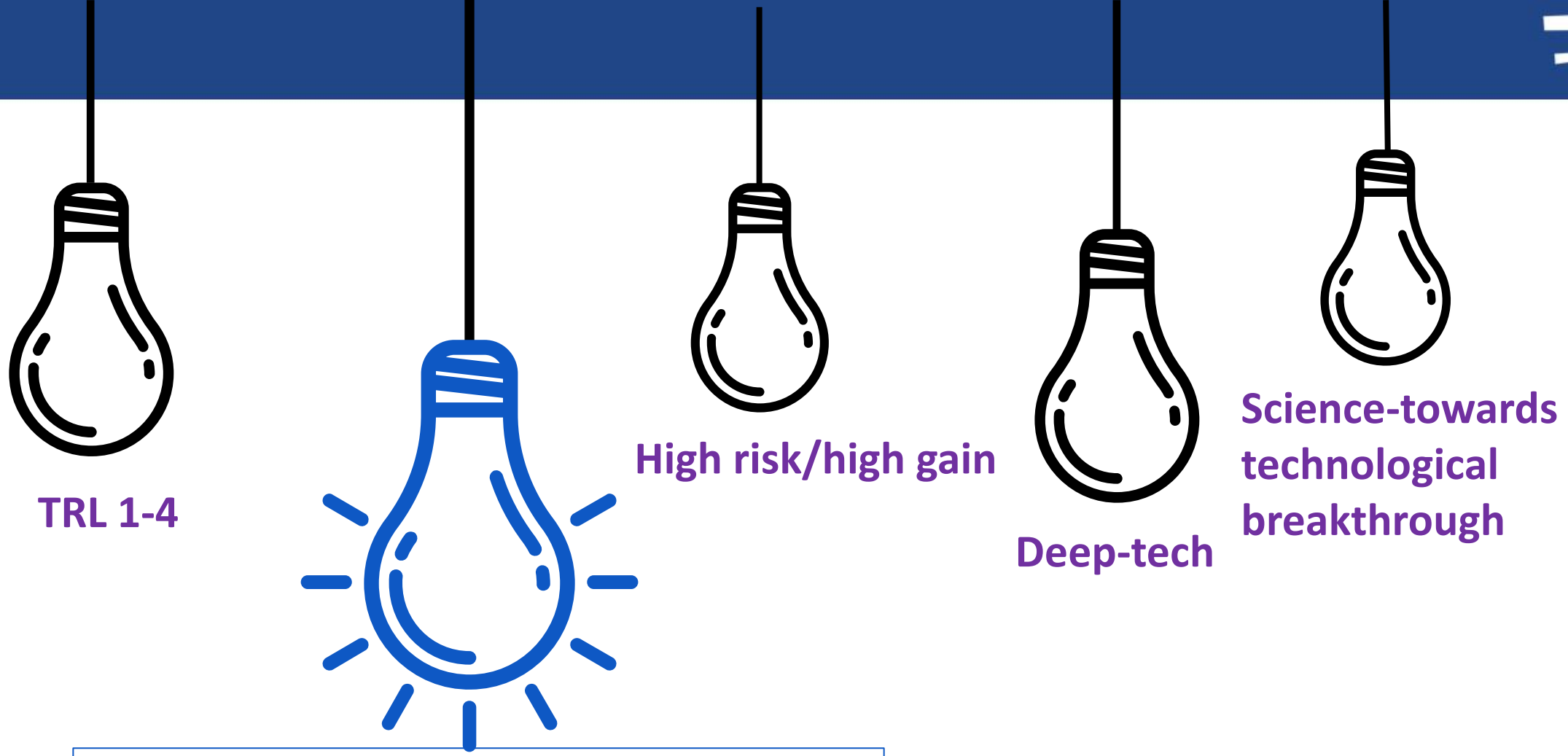
	Pathfinder Open	Pathfinder Challenges
Total budget	**€179.5 million**	**€163.5 million**
Proposals (indicative)	Up to €3 million	Up to €4 million
Funding rate	100% of eligible costs	100% of eligible costs
Opening	10 January 2023	20 June 2023
Deadline	**7 March 2023** at 17.00 CET	**18 October 2023** at 17.00 CET
Length of proposal	17-page proposal (part B)	25-page proposal (part B)
Applicants	**Consortia** min. 3 partners from 3 different Memer States /Associated Countries (of which at least 1 partner in a Member State)	**Consortia:** • If 2 partners: from different MS/AC, • Min 3 partners from 3 different MS/AC (of which at least 1 partner in a MS) **Single legal entities** in a MS/AC

APRE

EIC Pathfinder Open: Gatekeepers

European Innovation Council

- Collaborative, interdisciplinary research, meeting the following Gatekeepers:
- **convincing, long-term vision of a radically new technology** that has the potential to have a transformative positive effect to our economy and society;
- **concrete, novel and ambitious science-towards-technology breakthrough**, providing advancement towards the envisioned technology;
- **high-risk & high-gain research approach & methodology**, with concrete and plausible objectives.



TRL 1-4

High risk/high gain

Deep-tech

Science-towards technological breakthrough

Ambitious vision of radically new technology with the potential to create new market

If your path is incremental by nature or known Pathfinder is not your instrument

Expected output of EIC Pathfinder Open projects

European Innovation Council

- Expected output is the **proof of principle** that the **main ideas of the envisioned future technology are feasible**, thus validating its scientific and technological basis
- Project results should include **top-level scientific publications** in open access
- Projects are expected to take the necessary measures to **allow future uptake to take place**, for instance through an **adequate formal protection of the generated Intellectual Property (IP)**
- Projects are encouraged to involve and empower in their teams **key actors** that have the potential to **become future leaders** in their field such as excellent early-career researchers or promising high-tech SMEs, including start-ups
- Project are also encouraged to **empower female researchers** and to achieve gender balance among the work package leaders

- Proposals must be **submitted by the coordinator,** on behalf of a consortium including as beneficiaries at least three legal entities, independent from each other and each established in a different country as follows:

OPEN 2023

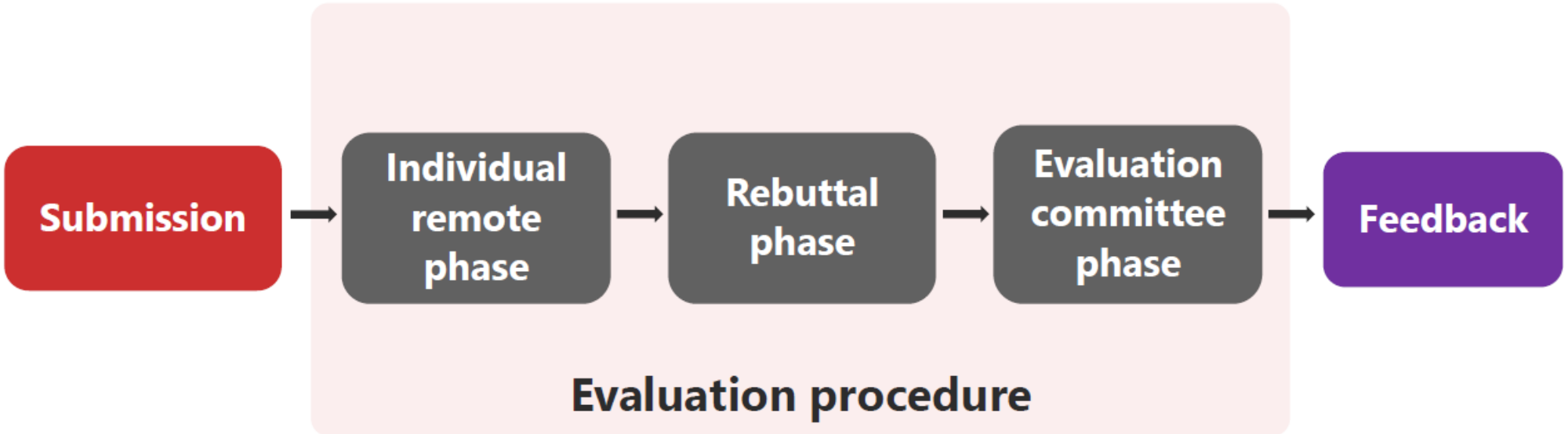
  - at least **1 legal entity established in a Member State**; and
  - at least **2other independent legal entities**, each established in different Member States or Associated Countries.

- The legal entities may be for example be universities, research organisations, SMEs, start-ups, industrial partners or natural persons.

- You will receive a grant for a **Research and Innovation Action** to cover the **eligible costs**, necessary for the implementation of your project.
- For this call, the EIC considers proposals with a requested EU contribution of **up to EUR 3 million** as appropriate. Nonetheless, this does not preclude you to request larger amounts, if properly justified.
- The funding rate of this grant will be 100% of the eligible costs.
- The total indicative budget for this call is EUR **179.5 million**. **OPEN 2023**
- Successful applicants will receive tailor-made access to a wide range of **Business Acceleration Services** and interactions with **EIC Programme Managers**

How does the EIC decide if your proposal will be funded?

European Innovation Council



Award criterion "Excellence"

Threshold **4/5**

Weight **60%**

European Innovation Council

- **Long-term vision:** How convincing is the vision , which the project would contribute in the long term?
- **Science-towards-technology breakthrough:** How concrete, novel and ambitious is the proposed science-towards-technology breakthrough with respect to the state-of-the-art? What advancement does it provide towards realising the envisioned technology?
- **Objectives:** How concrete and plausible are the proposed objectives? To what extent is the high-risk/high-gain research approach appropriate for achieving them? How sound is the proposed methodology, including the underlying concepts, models, assumptions, alternative directions and options, appropriate consideration of the gender dimension in research content, and the quality of open science practices?
- **Interdisciplinarity:** How relevant is the interdisciplinary approach from traditionally distant disciplines for achieving the proposed breakthrough?

NEW

Award criterion "Impact"

Threshold **3.5/5**

Weight **20%**

European Innovation Council

- **Long-term impact:** How significant are the potential transformative positive effects that the envisioned new technology would have to our economy, environment and society?
- **Innovation potential:** How adequate are the proposed measures for protection of results and any other exploitation measures to facilitate future translation of research results into innovations? How suitable are the proposed measures for involving and empowering key actors that have the potential to take the lead in translating research into innovations in the future?
- **Communication and Dissemination:** How suitable are the measures to maximise expected outcomes and impacts, including communication activities, for raising awareness about the project results' potential to establish new markets and/or address global challenges?

European Innovation Council

Award criterion "Quality and efficiency of the implementation"

Threshold **3/5**

Weight **20%**

- **Work plan:** How coherent and effective are the work plan (work packages, tasks, deliverables, milestones, time-line, etc.) and risk mitigation measures in order to achieve the project objectives?
- **Allocation of resources:** How appropriate and effective is the allocation of resources (comprising person-months and other cost items) to work packages and consortium members?
- **Quality of the consortium:** To what extent do the consortium members have all the necessary high quality expertise for performing the project tasks?

Rebuttal phase - “Right-to-react”

European Innovation Council

- Approximately 1.5-2.5 months after the call deadline, you will have the opportunity to **reply within 8 calendar days** (at 17h00 Brussels local time) with a strict page limit (**maximum two A4 pages**) to the evaluators’ comments;
- your **replies cannot be used to alter or add to the content** of the proposals, but must strictly focus on responding to potential misunderstandings or errors by the evaluators;
- the replies will be **made available to the evaluation committee**;
- the evaluation committee will **take into consideration** the comments from the rebuttal procedure, if any, in order to arrive at their final scores for the proposals that underwent this procedure.

Evaluation committee phase

Il panel di valutazione sarà composto da valutatori esperti differenti rispetto a quelli che hanno valutato le proposte a distanza;

il punteggio finale sarà deciso in base al punteggio remoto e il risultato del discussioni di consenso, tenendo conto delle osservazioni ricevute nella eventuale procedura di *rebuttal*

la discussione si concentrerà su proposte con pareri divergenti dei valutatori che una possibilità realistica di ottenere finanziamenti
I valutatori esperti che hanno valutato le proposte a distanza possono essere invitati alle discussioni di consenso , in particolare per le proposte dove ci sono pareri divergenti

Infine il panel di valutazione confermerà la ranking list.

Pathfinder Challenges for 2023

European Innovation Council

1. Clean and efficient cooling
2. Architecture, Engineering and Construction digitalisation for a novel triad of design, fabrication, and materials
3. Precision nutrition
4. Responsible electronics
5. In-space solar energy harvesting for innovative space applications

Pathfinder Challenges OBIETTIVI GENERALI

- Esplorare nuove direzioni all'avanguardia nella scienza e nella tecnologia
- Sconvolgere un mercato o creare nuove opportunità realizzando soluzioni tecnologiche innovative basate su ricerca e sviluppo ad alto rischio/alto guadagno
- Stabilire un portafoglio di progetti per ogni sfida che esplorano diverse prospettive, approcci concorrenti o aspetti complementari
- Guidati in modo proattivo dagli EIC Programme Manager

Expected project outcomes

European Innovation Council

- Expected outcomes defined in the respective Challenge
- Project results should include **top-level scientific publications** as well as an **adequate formal protection of the generated Intellectual Property**
- Projects are encouraged to involve and empower in their teams **key actors** that have the potential to **become future leaders** in their fields such as excellent early-career researchers or promising high-tech SMEs, including start-ups
- Project particularly encouraged to **empower female researchers** and to achieve gender balance among the work package leaders

Importante! Pathfinder Challenge Guides

- Obiettivi delle sfide
- Informazioni tecniche alla base degli obiettivi
- Considerazioni di portafoglio utilizzate per la selezione finale delle proposte da finanziare
- Le Challenge Guides sono pubblicate sul sito web dell'EIC

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

Pathfinder Challenge Guides

La Guida alla sfida è un documento di orientamento che accompagna un bando Pathfinder Challenge per fornire ulteriori informazioni su come le considerazioni sul portafoglio saranno prese in considerazione nella valutazione delle proposte per quel tema.

Integra l'Ambito, gli Obiettivi specifici e/o le Condizioni specifiche stabiliti nel Programma di lavoro EIC con una descrizione delle considerazioni sul portafoglio e delle modalità di costruzione del portafoglio.

Dopo la selezione delle proposte da finanziare nell'ambito della Challenge, il responsabile del programma collaborerà con i consorzi dei progetti selezionati per sviluppare una tabella di marcia comune con un piano strategico per Challenge.

Questa tabella di marcia/piano strategico integrerà le attività e le tappe dei singoli progetti in un insieme condiviso di obiettivi e attività tra i progetti

La tabella di marcia funge da base comune per il portafoglio di progetti e può influenzare l'attuazione dei progetti compresi eventuali aggiustamenti, riorientamenti o supporto aggiuntivo ai progetti

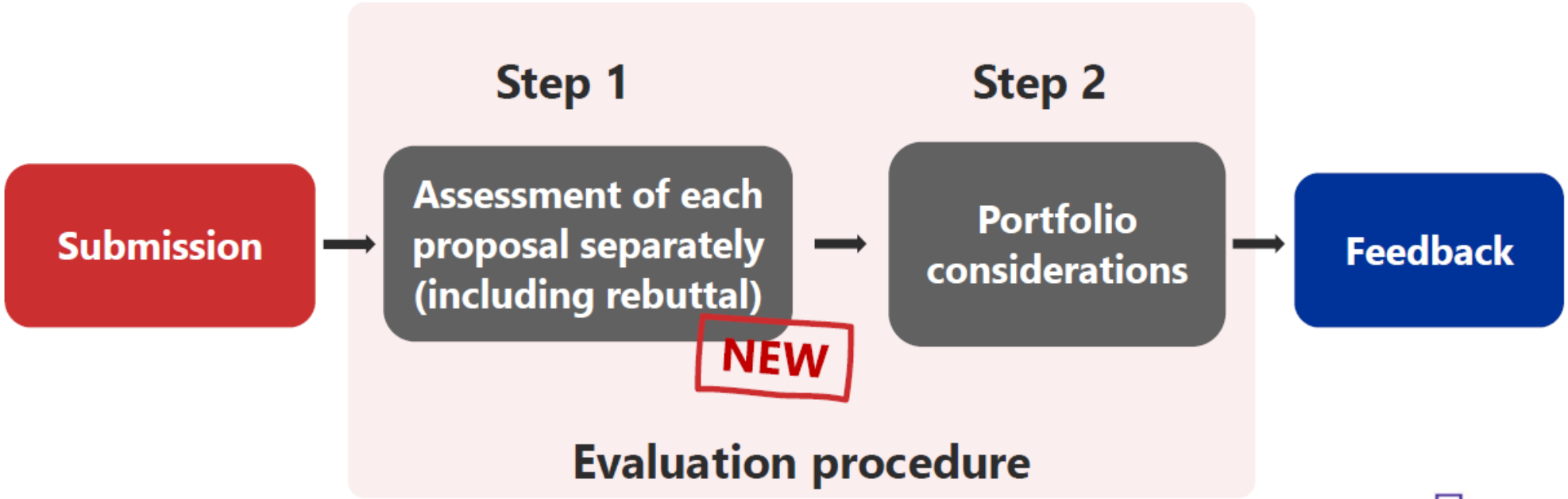
What support will you receive if your proposal is funded?

European Innovation Council

- A **grant** for a **Research and Innovation Action** to cover eligible costs
- EIC considers proposals with an EU contribution of **up to € 4 million** as appropriate (larger amounts possible, if duly justified)
- Funding rate **100% of the eligible costs.**
- Total indicative budget for this call: **€ 163.5 million** (expected to be allocated in approximately equal shares across the Challenges)
- Successful applicants will receive tailor-made access to a wide range of **Business Acceleration Services** and interactions with **EIC Programme Managers** and other actions in the portfolio of projects selected

How does the EIC decide if your proposal will be funded?

European Innovation Council



Rebuttal - "Right-to-react"

NEW

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- Approximately 1.5-2.5 months after the call deadline, you will have the opportunity to **reply within 8 calendar days** (at 17h00 Brussels local time) with a strict page limit (**maximum two A4 pages**) to the evaluators' comments;
- your **replies cannot be used to alter or add to the content** of the proposals, but must strictly focus on responding to potential misunderstandings or errors by the evaluators;
- the replies will be **made available to the evaluation committee**;
- the evaluation committee will **take into consideration** the comments from the rebuttal procedure, if any, in order to arrive at their final scores for the proposals that underwent this procedure.

Step 2: Portfolio considerations

NEW

European Innovation Council

- All proposals that meet the thresholds defined in the award criteria will be considered in step 2
- **Mapping of proposals in categories** stemming from overall goal and specific objectives of the Challenge (e.g., building blocks or subsystems, technical areas and/or competing technologies, platforms, applications areas, risk level and stage of technology readiness level, size)
- A **suitable portfolio of proposals** to be selected by evaluation committee by applying **portfolio considerations** in order to propose for funding a coherent set of projects to achieve expected outcomes and impacts of Challenge (in all cases the overall balance and composition of the portfolio will be taken into consideration)

Award criterion "Excellence"

Threshold **4/5**

Weight **60%**

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- **Objectives and relevance to the Challenge:** How clear are the project's objectives? How relevant are they in contributing to the overall goal and the specific objectives of the Challenge?
- **Novelty:** To what extent is the proposed work ambitious and goes beyond the state-of-the-art?
- **Plausibility of the methodology:** How sound is the proposed methodology, including the underlying concepts, models, assumptions, appropriate consideration of the gender dimension in research content, and the quality of open science practices?

Award criterion "Impact"

Threshold **3.5/5**

Weight **20%**

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- **Potential Impact:** How credible are the pathways to achieve the expected outcomes and impacts of the Challenge? To what extent would the successful completion of the project contribute to this?
- **Innovation potential:** How adequate are the proposed measures for protection of results and any other exploitation measures to facilitate future translation of research results into innovations with positive societal, economic or environmental impact? How suitable are the proposed measures for involving and empowering key actors that have the potential to take the lead in translating research into innovations in the future?
- **Communication and Dissemination:** How suitable are the proposed measures, including communication activities, to maximise expected outcomes and impacts for raising awareness about the project results' potential to establish new markets and/or address global challenges?

Award criterion "Quality and efficiency of the implementation"

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Threshold **3/5**

Weight **20%**

- **Work plan:** How coherent and effective are the work plan (work packages, tasks, deliverables, milestones, timeline, etc.) and risk mitigation measures in order to achieve the project objectives?

NEW

- **Allocation of resources:** How appropriate and effective is the allocation of resources (comprising person-months and other cost items) to work packages and consortium members?
- **Quality of the applicant/consortium (depends if mono or multi-beneficiaries):** To what extent do(es) the applicant/consortium members have all the necessary high quality expertise for performing the project tasks?

Structure of the Proposal

The proposal contains two parts:

- **Part A** of the proposal **is generated by the IT system. It is based on the information entered by the participants through the submission system in the Funding & Tenders Portal.** The participants can update the information in the submission system at any time before final submission.

- **Part B** of the proposal is the narrative part that includes three sections that each correspond to an evaluation criterion. Part B needs to be uploaded as a PDF document following the templates downloaded by the applicants in the submission system for the specific call or topic. The templates for a specific call may slightly differ from the example provided in this document.

The electronic submission system is an online wizard that guides you step-by-step through the preparation of your proposal. The submission process consists of 6 steps:

- Step 1: Logging in the Portal
- Step 2: Select the call, topic and type of action in the Portal
- Step 3: Create a draft proposal: Title, acronym, summary, main organisation and contact details
- Step 4: Manage your parties and contact details: add your partner organisations and contact details.
- Step 5: Edit and complete web forms for proposal part A and upload proposal part B
- Step 6: Submit the proposal

Proposal number:

Proposal acronym:

Type of Model Grant Agreement:

Table of contents

1. Excellence

Excellence – aspects to be taken into account.

– **Objectives and relevance to the Challenge**: How clear are the project's objectives? How relevant are they in contributing to the overall goal and the specific objectives of the Challenge?

2. Impact – aspects to be taken into account.

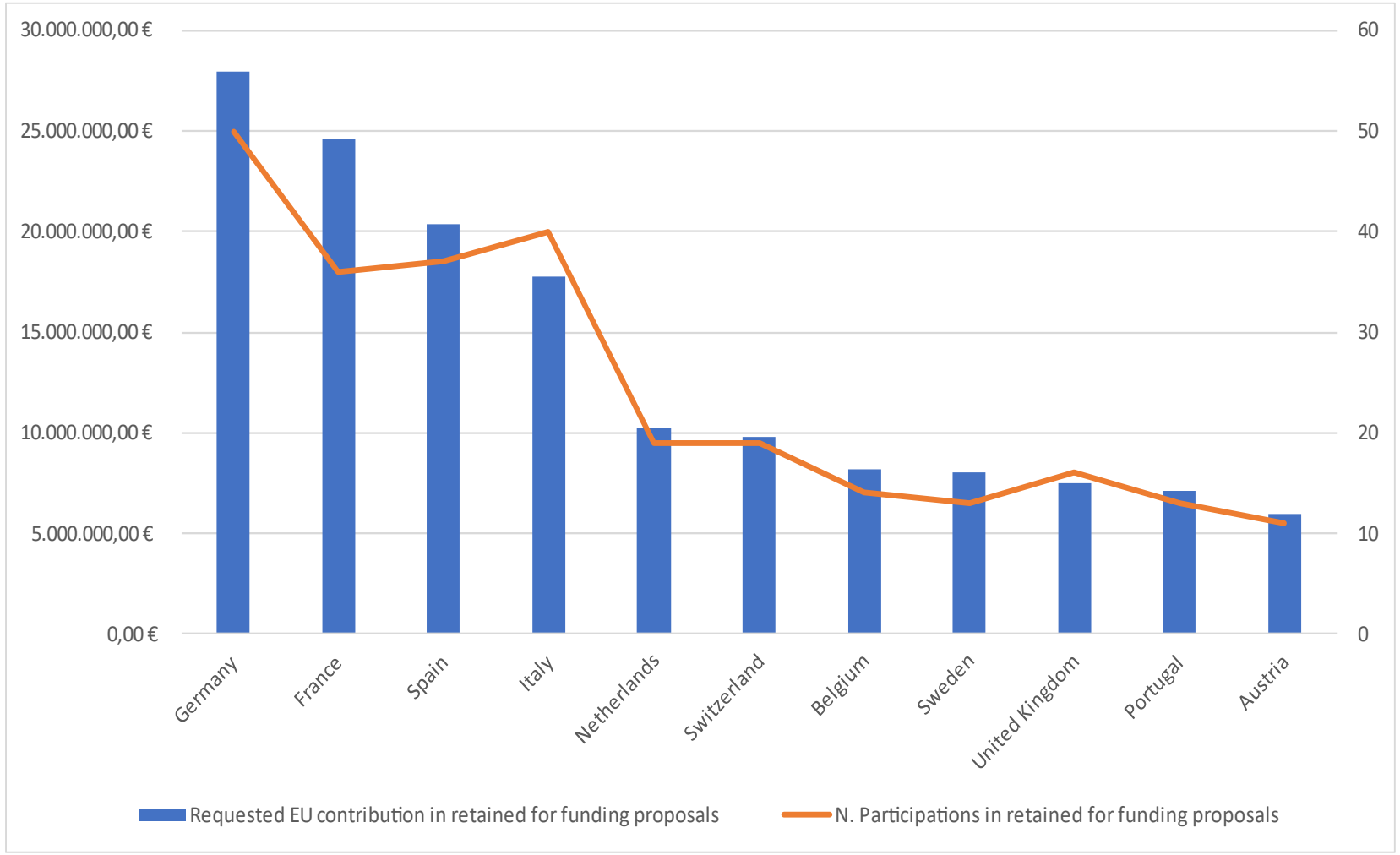
– **Potential Impact**: How credible are the pathways to achieve the expected outcomes and impacts of the Challenge? To what extent would the successful completion of the project contribute to this?

2.1. Potential impact

• Provide a **narrative** explaining how the project's results are expected to make a difference in terms of impact, beyond the immediate scope and duration of the project. The narrative should include the components below, tailored to your project.

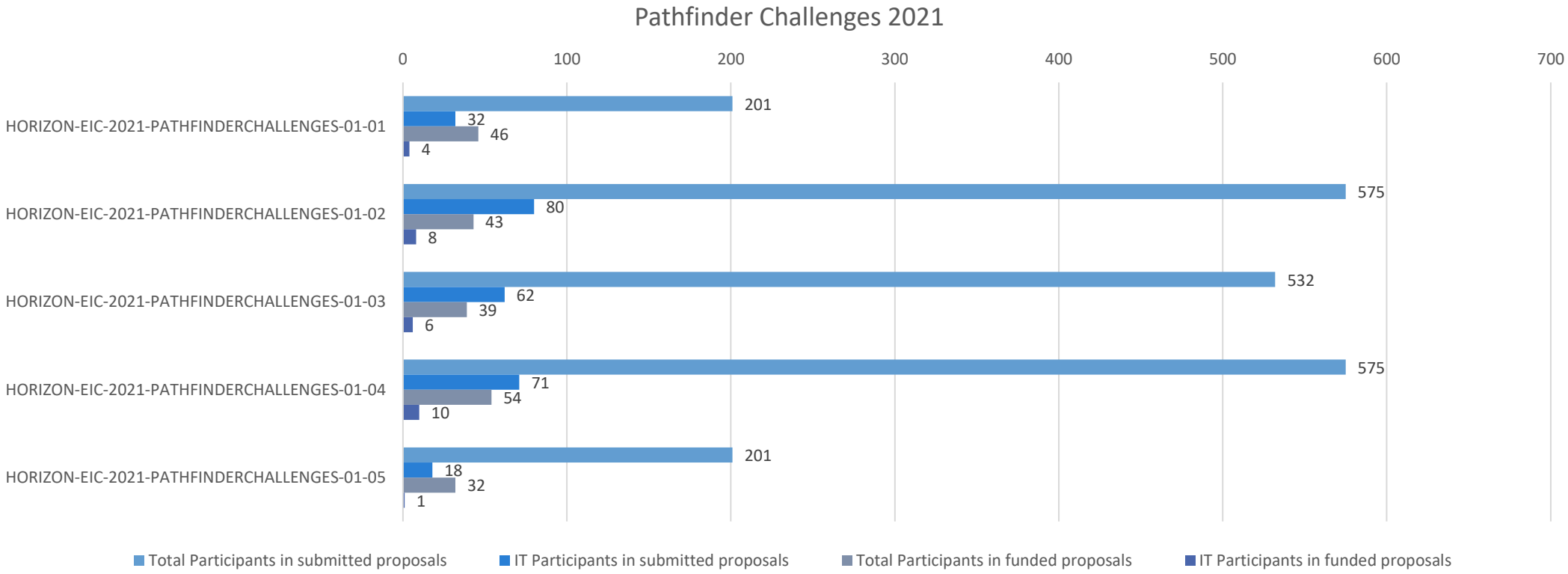
(a) Describe the unique contribution your project results would make towards (1) the **outcomes** specified for this Challenge, and (2) the **wider impacts**, in the longer term, **specified in the Challenge Guide**.

Pathfinder Open -2021



Country	Requested EU contribution in retained for funding proposals	N. Participations in retained for funding proposals
Germany	27.929.758,00 €	50
France	24.622.071,00 €	36
Spain	20.340.358,00 €	37
Italy	17.789.213,00 €	40
Netherlands	10.243.785,00 €	19
Switzerland	9.783.286,00 €	19
Belgium	8.191.494,00 €	14
Sweden	8.063.493,00 €	13
United Kingdom	7.505.316,00 €	16
Portugal	7.094.122,00 €	13
Austria	5.930.797,00 €	11
Norway	4.233.256,00 €	4
Ireland	3.438.668,00 €	6
Denmark	3.394.351,00 €	6
Finland	2.955.213,00 €	5
Hungary	2.786.425,00 €	5
Greece	2.092.936,00 €	5
Poland	1.963.310,00 €	5
Israel	1.932.290,00 €	5
Ukraine	819.000,00 €	2
Czech Republic	809.010,00 €	3
Luxembourg	657.275,00 €	2
Serbia	543.750,00 €	1
Turkey	380.000,00 €	1
Slovenia	353.230,00 €	1
Cyprus	308.383,00 €	1
Slovakia	264.000,00 €	1

Pathfinder Challenges 2021



01-01 Awareness Inside
01-02 Tools to measure & stimulate activity in brain tissue
01-03 Emerging Technologies in Cell & Gene Therapy
01-04 Engineered Living Materials
01-05 Novel routes to green hydrogen production

European Innovation Council Pathfinder Open

Successful proposals | Cut-off 4 May 2022

858
PROPOSALS EVALUATED

57
PROJECTS CHOSEN

183 million
TOTAL EU CONTRIBUTION

3.2 million
AVERAGE EU GRANT

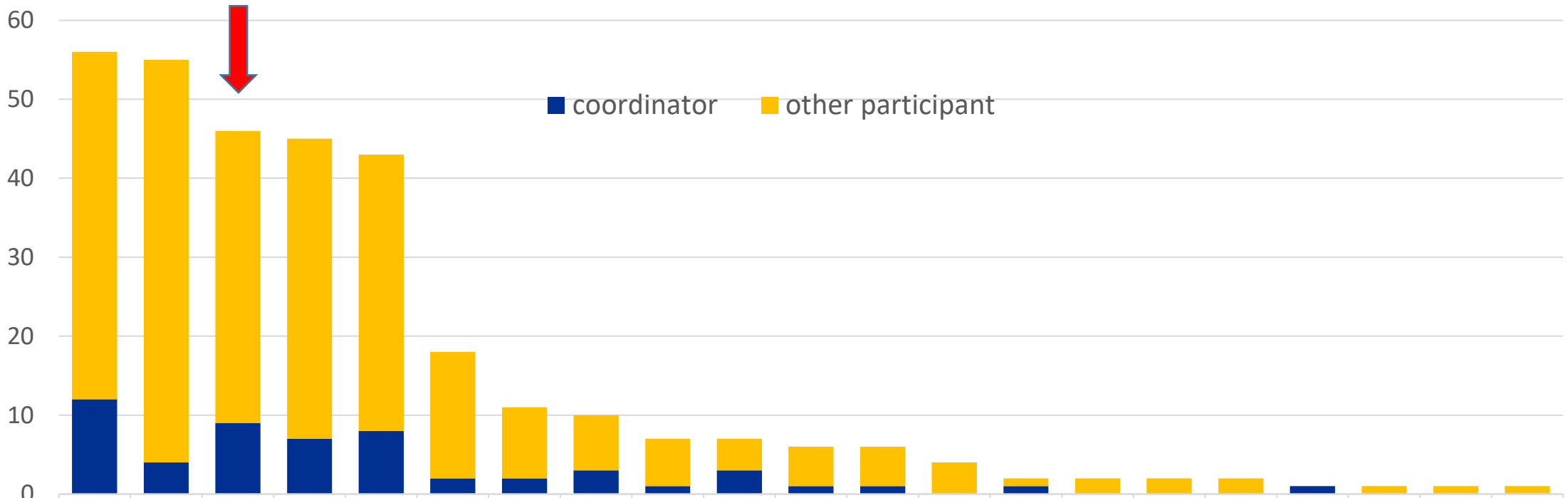
29
COUNTRIES

352
PARTICIPANTS

45% HIGHER EDUCATION,
26% RESEARCH ORGANISATIONS,
22% PRIVATE ORGANISATIONS,
8% OTHER

European Innovation Council

Pathfinder Open - Call Maggio 2022



	ES	DE	IT	FR	NL	BE	PT	SE	AT	FI	DK	IE	CZ	EL	HU	LU	PL	SI	CY	EE	HR
other participant	44	51	37	38	35	16	9	7	6	4	5	5	4	1	2	2	2	0	1	1	1
coordinator	12	4	9	7	8	2	2	3	1	3	1	1		1				1			

Latest statistics - 19 October 2022

436
proposals evaluated

44
projects chosen

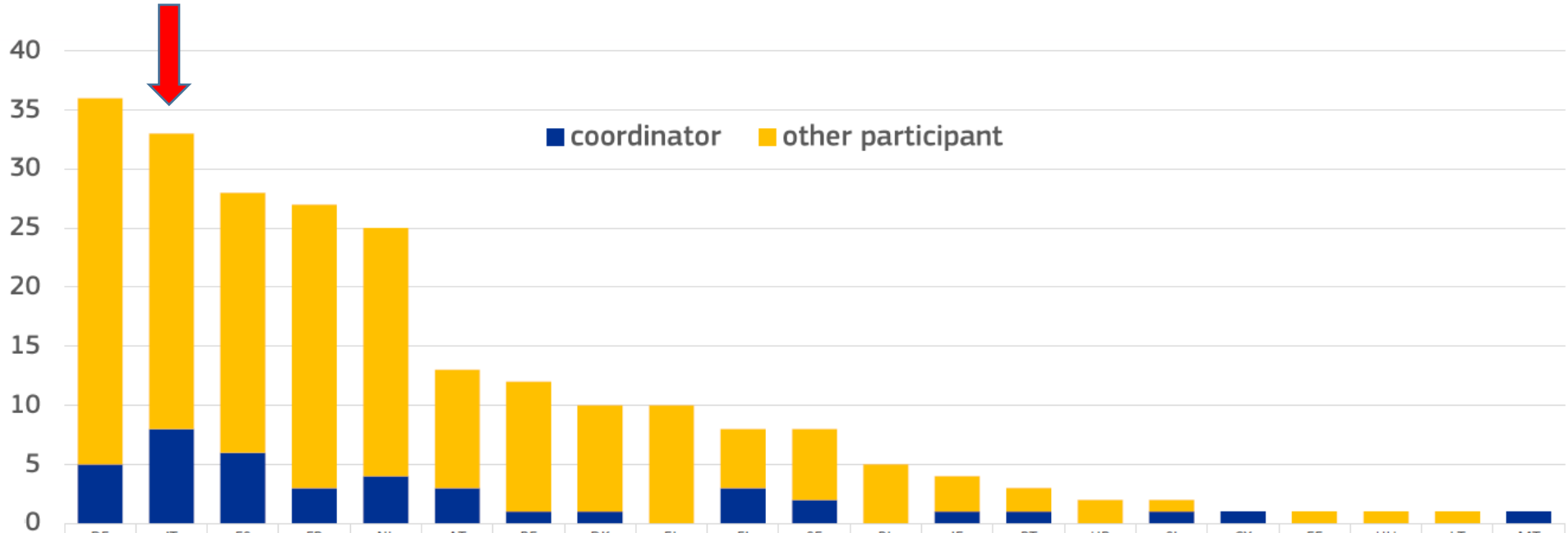
€167 million
total EU contribution

€3.8 million
average EU grant

29
countries

259
participants

Pathfinder Challenges - Call Ottobre 2022



	DE	IT	ES	FR	NL	AT	BE	DK	EL	FI	SE	PL	IE	PT	HR	SI	CY	EE	HU	LT	MT
other participant	31	25	22	24	21	10	11	9	10	5	6	5	3	2	2	1	0	1	1	1	0
coordinator	5	8	6	3	4	3	1	1	0	3	2	0	1	1	0	1	1	0	0	0	1

EU-27 countries: 89,2% of the participants (231)

*Including associated and affiliated partners

APRE

Fast track scheme for Pathfinder and Transition

- Submit an Accelerator proposal via the Fast-Track scheme:

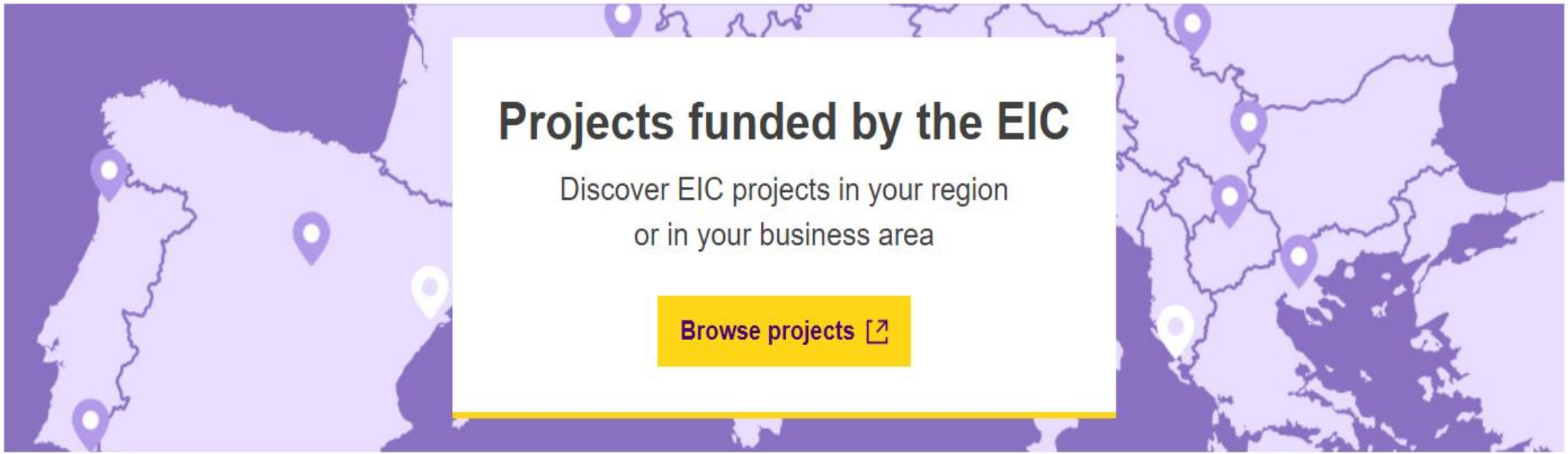
  - no direct short application (first stage) to Accelerator

  - Project review to determine innovation and market deployment potential and decide if project is suitable for Accelerator support

  - if successful, submit directly to full application

EUROPEAN INNOVATION COUNCIL WEBSITE

https://eic.ec.europa.eu/index_en



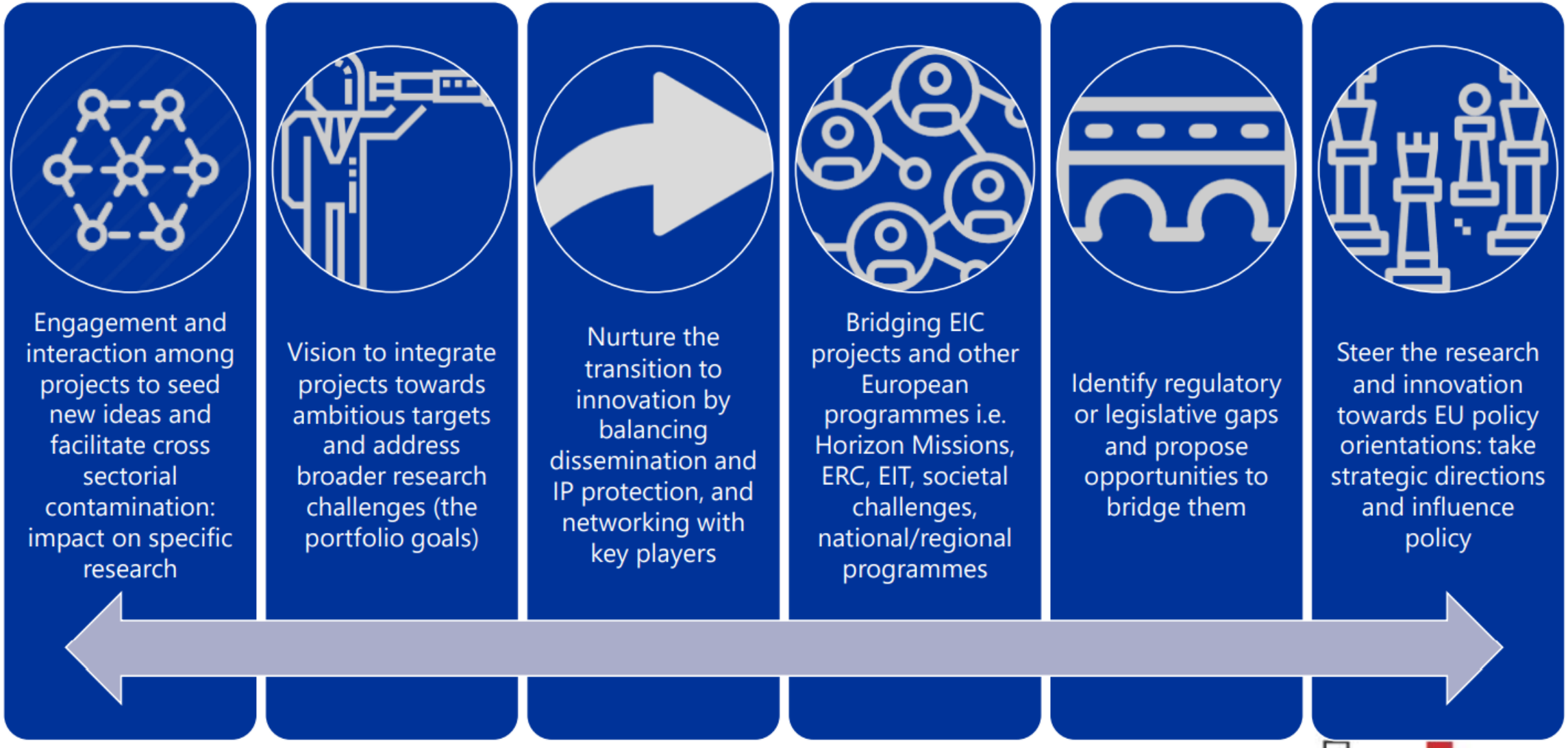
EIC team APRE

Valentina Fioroni
Horizon Europe EIC NCP

Renato Fa

Proactive Management: Impacts

European Innovation Council



*Where relevant, include how the project methodology complies with the '**do no significant harm**' principle as per Article 17 of Regulation (EU) No 2020/852 on the establishment of a framework to facilitate sustainable investment (i.e. the so-called 'EU Taxonomy Regulation'). This means that the methodology is designed in a way it is not significantly harming any of the six environmental objectives of the EU Taxonomy Regulation*