

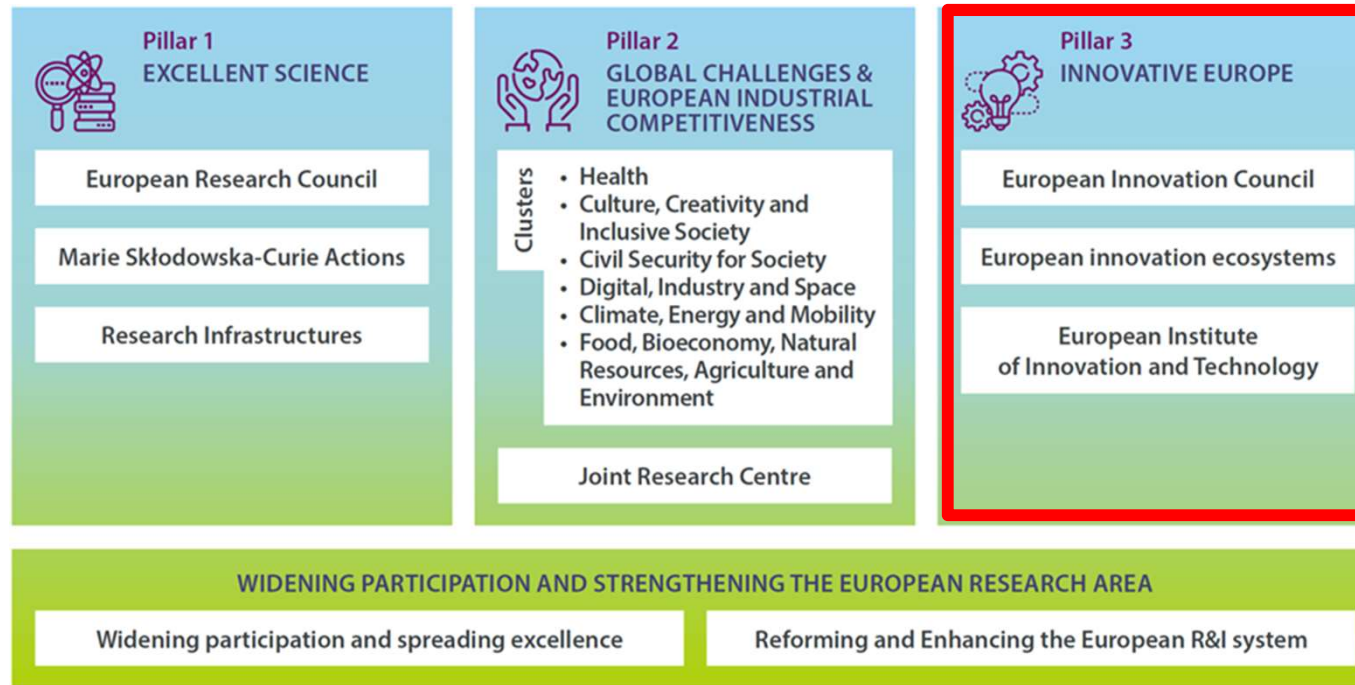


Oportunidades para la innovación en Horizon Europe: los instrumentos del European Innovation Council **Pathfinder y Transition to Innovation**

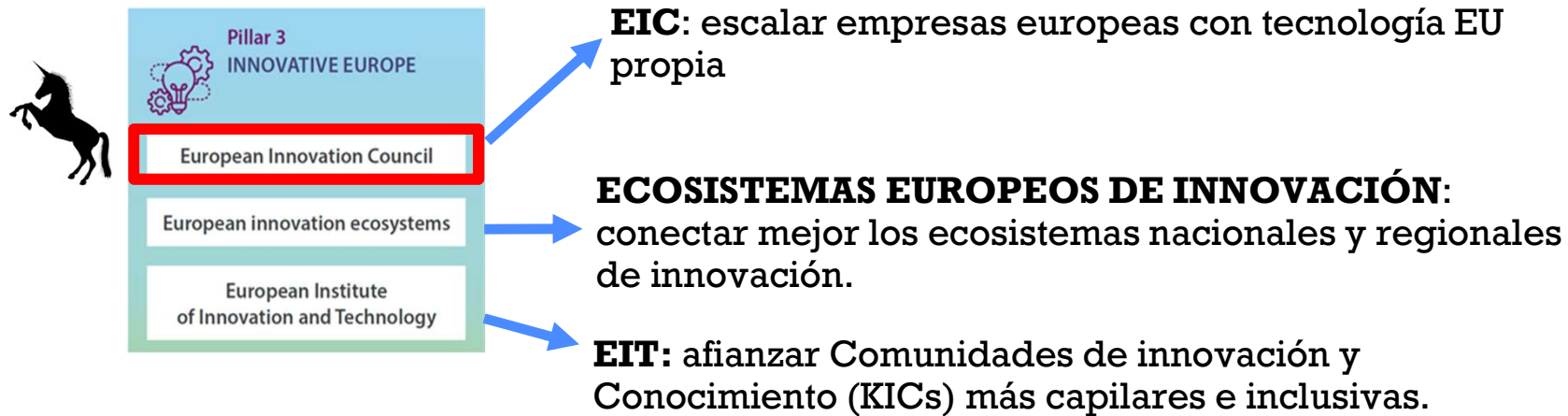
Patricia Benito
Oficina de Proyectos Internacionales

*Taller AIR4US
6 Octubre 2022*

PILAR 3 EUROPA INNOVADORA

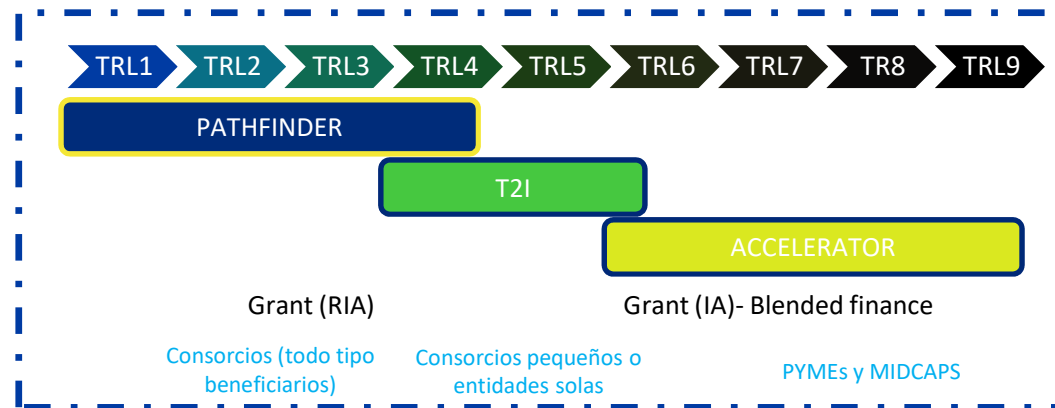


PILAR 3 EUROPA INNOVADORA

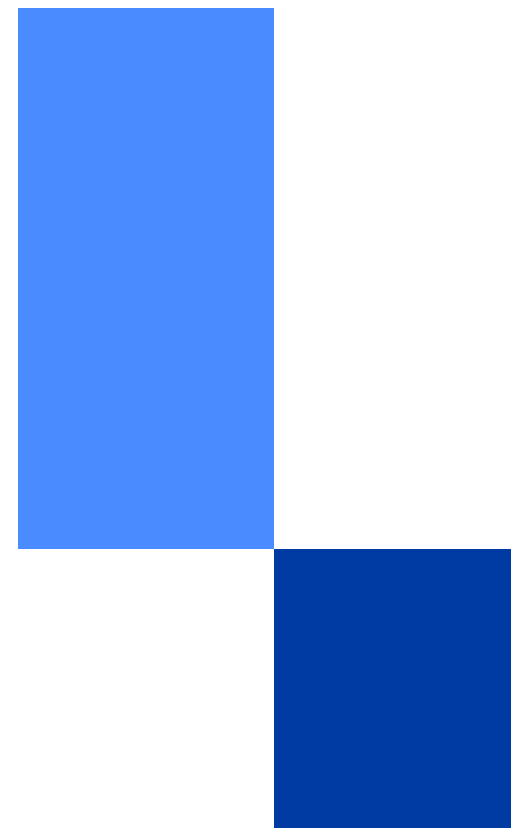


EUROPEAN INNOVATION COUNCIL - EIC

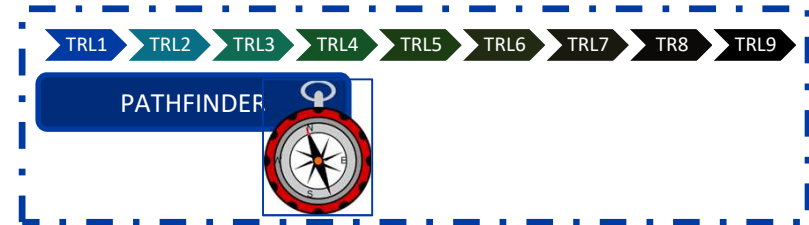
- Piloto del EIC 2018-2020.
- **Objetivo:** Apoyar el desarrollo de tecnologías disruptivas y que permitan consolidar a los agentes europeos como referencia internacional en los mercados futuros.
- Varios programas o instrumentos:
 - ❑ **Pathfinder** (sucesor de FET OPEN y Proactive, TRL 1-4).
 - ❑ **Transition to Innovation** (desarrollo resultados FET y PoC del ERC previos, TRL 4 - 6).
 - ❑ **Accelerator** (sucesor del SME Instrument, para pymes/mid caps, > TRL 6).



EIC Pathfinder



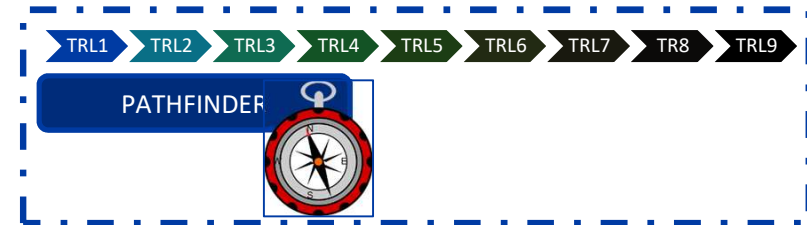
EIC Pathfinder



¿Qué financia?

- Investigación interdisciplinar de vanguardia para desarrollo científico-técnico inicial de alto riesgo/alto impacto y revolucionario.
- TRL de destino 3-4.
- "Gatekeepers"
 - Visión radical a largo plazo,
 - Breakthrough tecnológico,
 - Investigación high-risk/high-gain con objetivos realistas.
- Consorcios científico-técnicos (al menos 3 entidades de 3 MS/AC).

EIC Pathfinder



¿Cómo?

- Un solo deadline, “one step submission”
- Envío propuestas científico-técnicas (tres secciones)
 - OPEN: 17 páginas
 - CHALLENGE: 25 páginas
- Varias modalidades (open, challenge)
- Financiación de hasta 3-4M€/proyecto (según modalidad)

Servicios y financiación adicional

- Servicios de coaching y mentoring para participantes para impulsar comercialización (Business Acceleration Services).
- Portafolio de proyectos gestionado por Programme Managers.
- Posibilidad 50k adicional para fomentar la innovación y comercialización.
- Esquema Fast Track hacia Accelerator

EIC Pathfinder

Guías disponibles

	OPEN	CHALLENGE
Duración	Hasta 3 años	Hasta 4 años
Enfoque	Sin prioridad temática	Soluciones científico-técnicas disruptivas en 6 áreas o retos concretas: 1. Carbon dioxide and nitrogen management and valorisation 2. Mid-long term, systems-integrated energy storage 3. Cardiogenomics 4. Towards the Healthcare Continuum: technologies to support a radical shift from episodic to continuous healthcare 5. DNA-based digital data storage 6. Alternative Quantum Information Processing, Communication, and Sensing
Consortio	Consortio	Posibilidad de participar en consorcio (incluso 2 entidades) o de manera individual (excepto mid-caps y grandes empresas).
TRL	3-4	4-5 (específica para cada reto)
Financiación	hasta 3M€ /proyecto	hasta 4M€ /proyecto
Fechas cierres en 2022	4 Mayo	19 Octubre



EIC Pathfinder Challenges



Pathfinder Challenge II.2.2; Mid-long term, systems-integrated energy storage

Scope:

- To increase energy systems flexibility, sectors coupling, demand response and smart interoperability solutions through non **critical raw material-based** systems and life-cycle driven technologies in order to develop low cost and competitive solutions. #high round-trip efficiency #high energy density

Specific objectives:

- PoC or lab-scale validated innovative mid to long term storage ranging from large to mid scale, excluding micro scale. #computational modelling and optimisation #chemical and thermochemical technologies #integration #multi-vector energy grids #innovative concepts for H2 storage/compression

Expected outcomes and impacts:

- Optimisation European energy storage
- High penetration of intermittent renewable technologies
- multidisciplinary and cross-sectorial approaches are particularly welcome



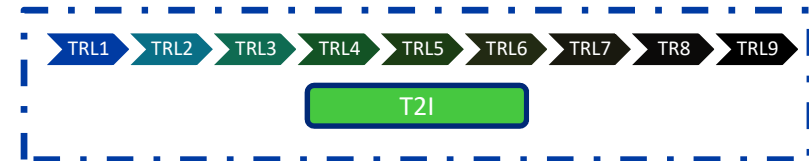
¿Encaja mi idea en Pathfinder?

- ❑ Idea de tecnología futura novedosa, que no se hayan intentado antes. Diferenciarse del resto!
- ❑ Idea disruptiva, que desplace lo existente, NO para mejorar lo que ya existe!
- ❑ Ideas fundacionales y transformativas que sustenten el desarrollo tecnológico.
- ❑ Colaboración interdisciplinaria y con distintos tipos de socios.
- ❑ Visión a largo plazo es clave pero también una idea realista de cómo llegar donde queremos.
- ❑ Investigación de riesgo, pero que también con un gran potencial de tener efectos positivos transformativos a nivel tecnológico, comercial y en la sociedad.
- ❑ Importante: Tener en cuenta la protección de los resultados y su futura explotación!!!

EIC Transition to Innovation

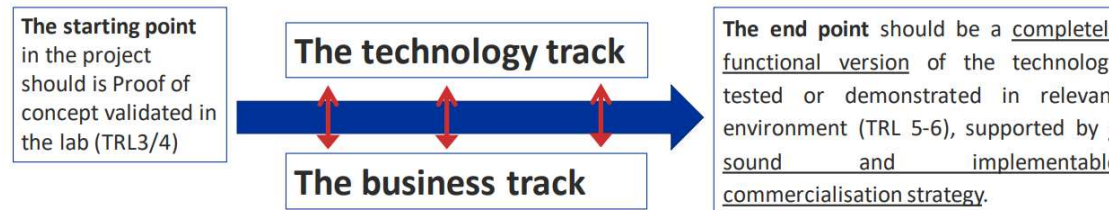


EIC T2I

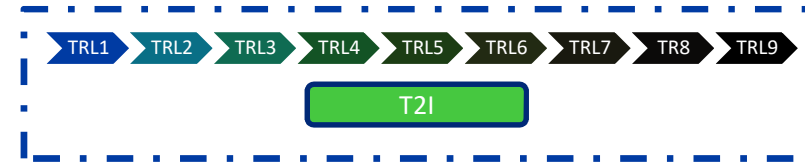


¿Qué financiación?

- Elegibilidad limitada: **Ideas y resultados de proyectos Pathfinder/FET o ERC PoC.**
- Proyectos con consorcios pequeños (máximo 5 socios) o para aun solo beneficiario.
- TRL de destino 5-6.



EIC T2I



¿Cómo?

- Financiación de hasta 2.5M€/proyecto
- Propuesta de 20 páginas (secciones 1-3 de la parte B).
- Dos modalidades (open, challenge)
- En su modalidad Transition Challenge, explorar soluciones en 3 áreas concretas:
 - Process and system integration of clean energy technologies
 - RNA-based therapies and diagnostics for complex or rare genetic diseases
 - Green digital devices for the future
- Entrevista en la evaluación.

Multiple cut-off:
4 Mayo
28 septiembre

Servicios y financiación adicional

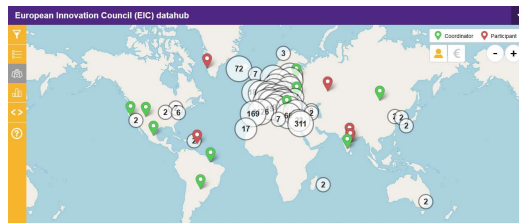
- Acceso a Business Acceleration Services.
- Posible 50k adicional para fomentar la innovación y comercialización.

Recursos



Recursos

- ❑ Pagina el EIC: <https://eic.ec.europa.eu/>
- ❑ Enlaces a las convocatorias: https://eic.ec.europa.eu/eic-funding-opportunities/calls-proposals_en?f%5B0%5D=oe_call_proposals_status%3Aupcoming&f%5B1%5D=programmes_programmes_eic%3A3
- ❑ Programa de trabajo 2022 del EIC: <https://eic.ec.europa.eu/system/files/2022-06/EIC-work-programme-2022-06-09.pdf>
- ❑ Guías retos Pathfinder 2022: https://eic.ec.europa.eu/eic-funding-opportunities/eic-pathfinder/eic-pathfinder-challenges-2022_en
- ❑ Infoday del 22 de febrero 2022: https://eic.ec.europa.eu/events/european-innovation-council-online-info-day-22-february-2022-2022-02-22_en
- ❑ Database de proyectos EIC: <https://eic.easme-web.eu/>



Muchas gracias!



POLITÉCNICA



INTERNATIONAL PROJECTS
OFFICE R&D / UPM

UNIVERSIDAD POLITÉCNICA DE MADRID

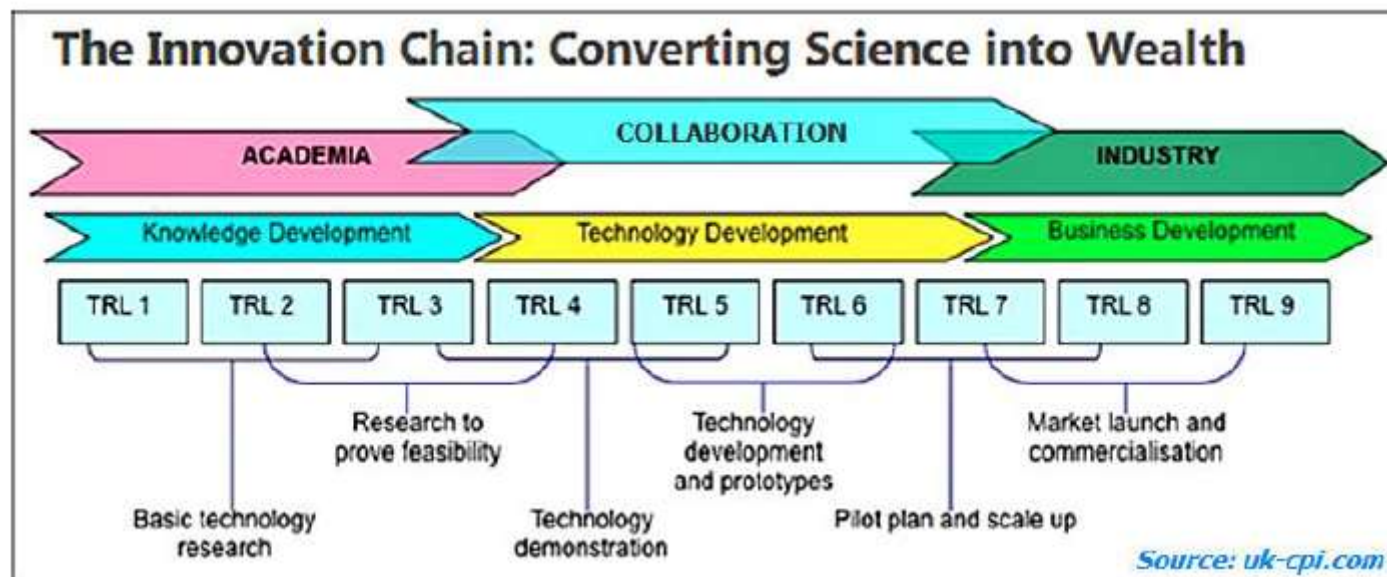
International Research Office

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TRL



Criteria de evaluación Pathfinder Open

Compliance with Gatekeepers!!	Contribution to WP impacts	
Excellence*	Impact*	Implementation
<p>Long-term vision: How convincing is the vision of a radically new technology towards which the project would contribute in the long term?</p> <p>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?</p> <p>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, appropriate consideration of the gender dimension in research content, and the quality of open science practices?</p> <p>Interdisciplinarity: How relevant is the interdisciplinary approach from traditionally distant disciplines for achieving the proposed breakthrough?</p>	<p>Long-term impact: How significant are the potential transformative positive effects that the envisioned new technology would have to our economy, environment and society?</p> <p>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?</p> <p>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?</p>	<p>Quality of the consortium: To what extent do the consortium members have all the necessary high quality expertise for performing the project tasks?</p> <p>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?</p> <p>Allocation of resources: How appropriate and effective is the allocation of resources (person-months and equipment) to tasks and consortium members?</p>
Threshold: 4/5 P. 60%	Threshold: 3.5/5 P. 20%	Threshold: 3/5 P. 20%

Criteria de evaluación Pathfinder Challenge

Excellence	Impact	Implementation
<p>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?</p> <p>Novelty: To what extent is the proposed work ambitious and goes beyond the state-of-the-art?</p> <p>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?</p>	<p>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?</p> <p>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?</p> <p>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?</p>	<p>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?</p> <p>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?</p> <p>Allocation of resources: How appropriate and effective is the allocation of resources (person-months and equipment) to tasks and consortium members?</p>
Threshold: 4/5 P. 60%	Threshold: 3.5/5 P. 20%	Threshold 3/5 P: 20%

Resultados Pathfinder y T2I



Resultados Pathfinder open 2021

European Innovation Council Pathfinder Open

Submitted proposals | Deadline 4 May 2022



Resultados Pathfinder challenges 2021

European Innovation Council Pathfinder Challenges

Successful proposals | Deadline 27 October 2021



403

PROPOSALS EVALUATED



39

PROJECTS CHOSEN



€145 million

TOTAL EU CONTRIBUTION



€3.7 million

AVERAGE EU GRANT



27

COUNTRIES



214

PARTICIPANTS

50.5% HIGHER EDUCATION,
25.2% PRIVATE ORGANISATIONS,
20.1% RESEARCH ORGANISATIONS,
3.7% OTHER
0.5% PUBLIC BODIES

European
Innovation
Council

