

European
Innovation
Council



Backing visionary entrepreneurs

The role of the EIC in nurturing Europe's innovators

Gerald Cultot

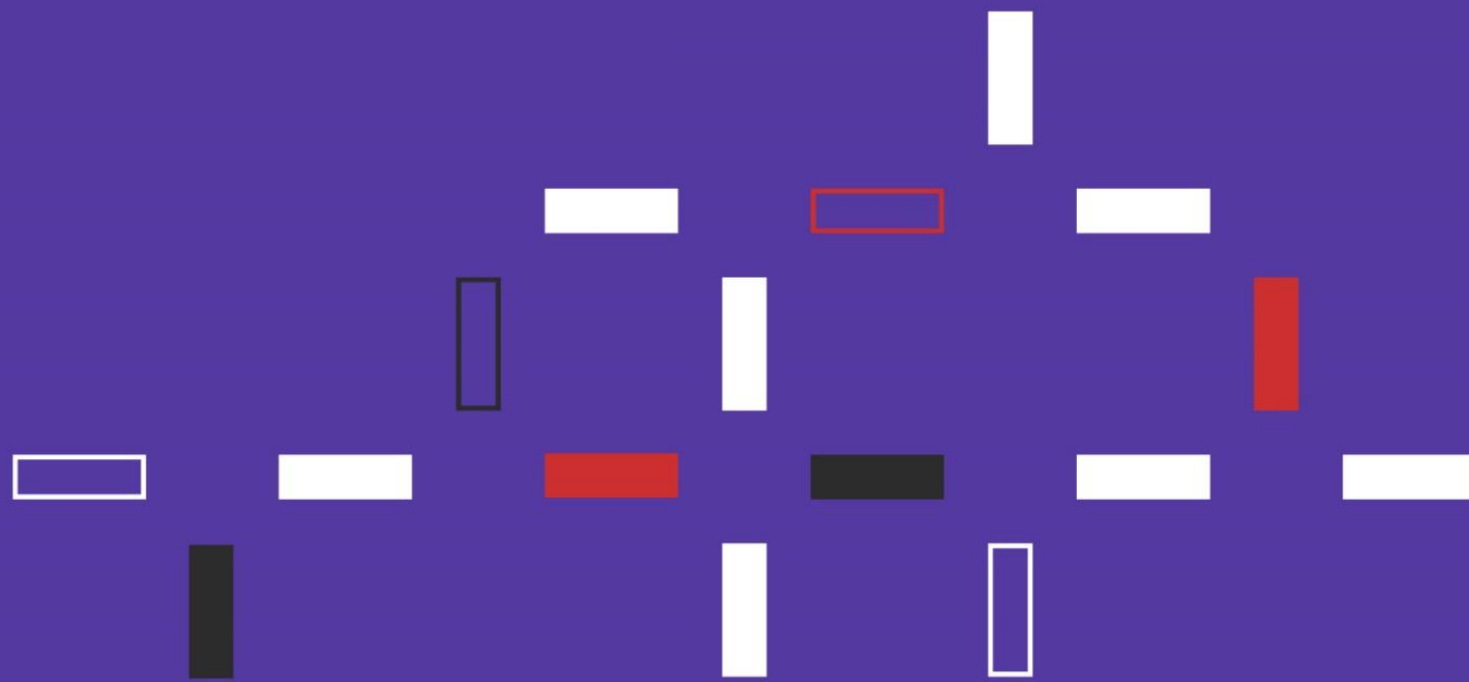
Head of Sector, EIC Pathfinder Open

*Presentation to Turkey in Horizon 2020
Phase II event, 15 April 2021*





The European Innovation Council – why?





What's holding back European innovation?

Innovation performance

- **Strong research performance not translated** into innovation
- **Lack of breakthrough/ disruptive innovations** that create new markets

Innovation funding

- Financing gaps (2 "valleys of death") in
- **Transition** from lab to enterprise
 - **Scaling up** for high-risk innovative start-ups

Innovation ecosystem

- Many national & local ecosystems, but **fragmented at European level**
- Need to **include all regions and all talent** (especially female)

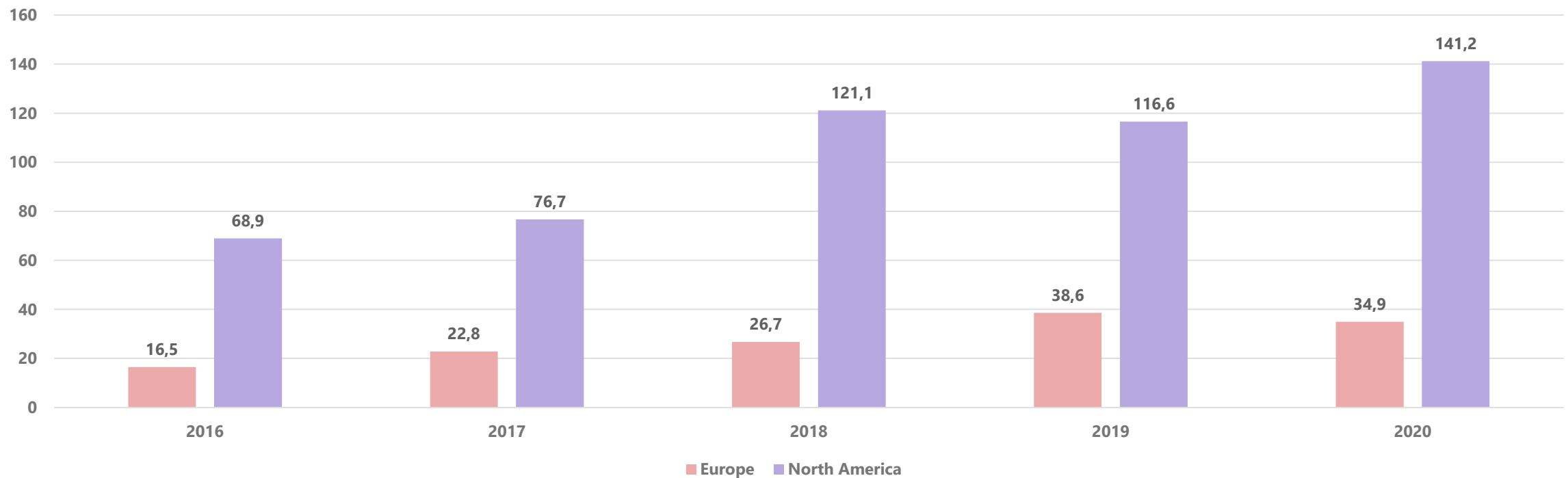




Funding gap for scaling up highly innovative startups and SMEs

US venture capital investments are 4-5 times higher than EU

Capital invested by year (B\$)

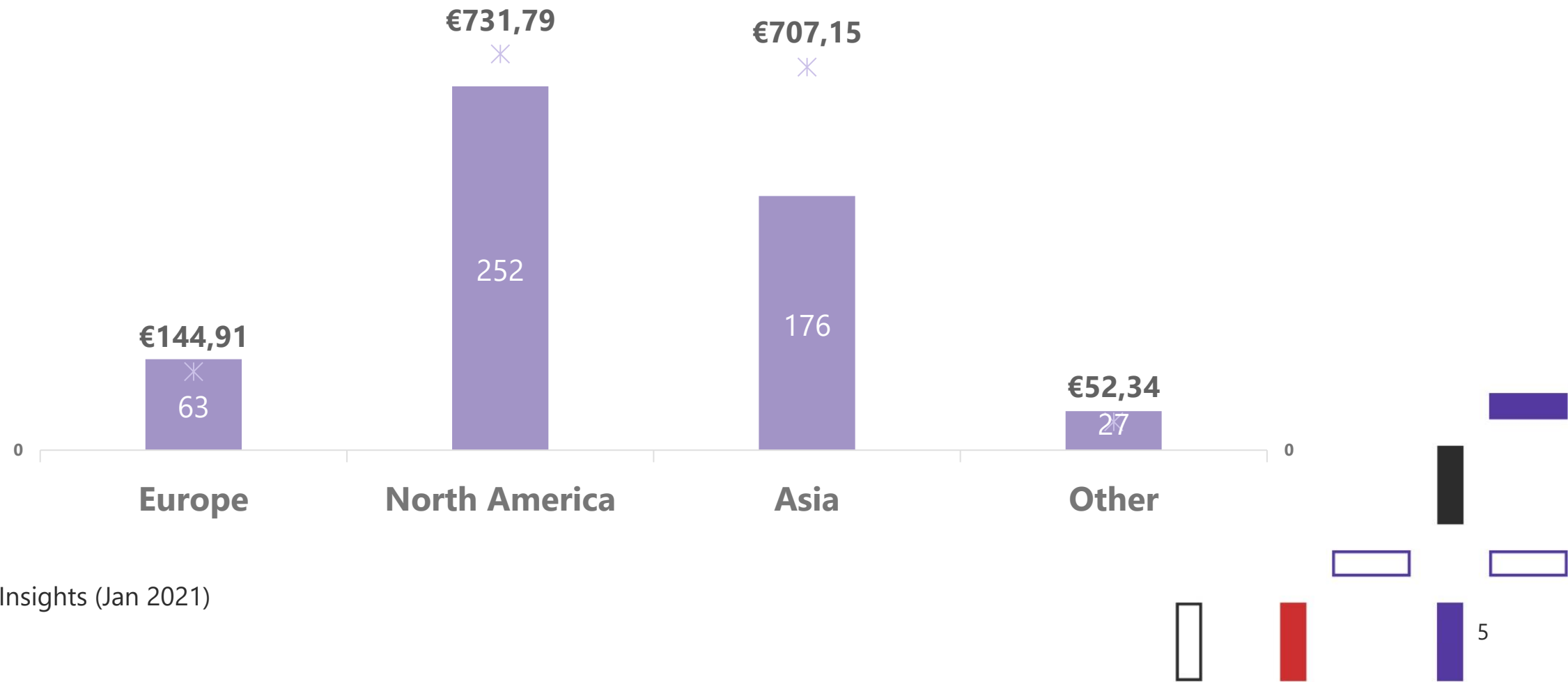


Source: [Invest Europe, Pitchbook]



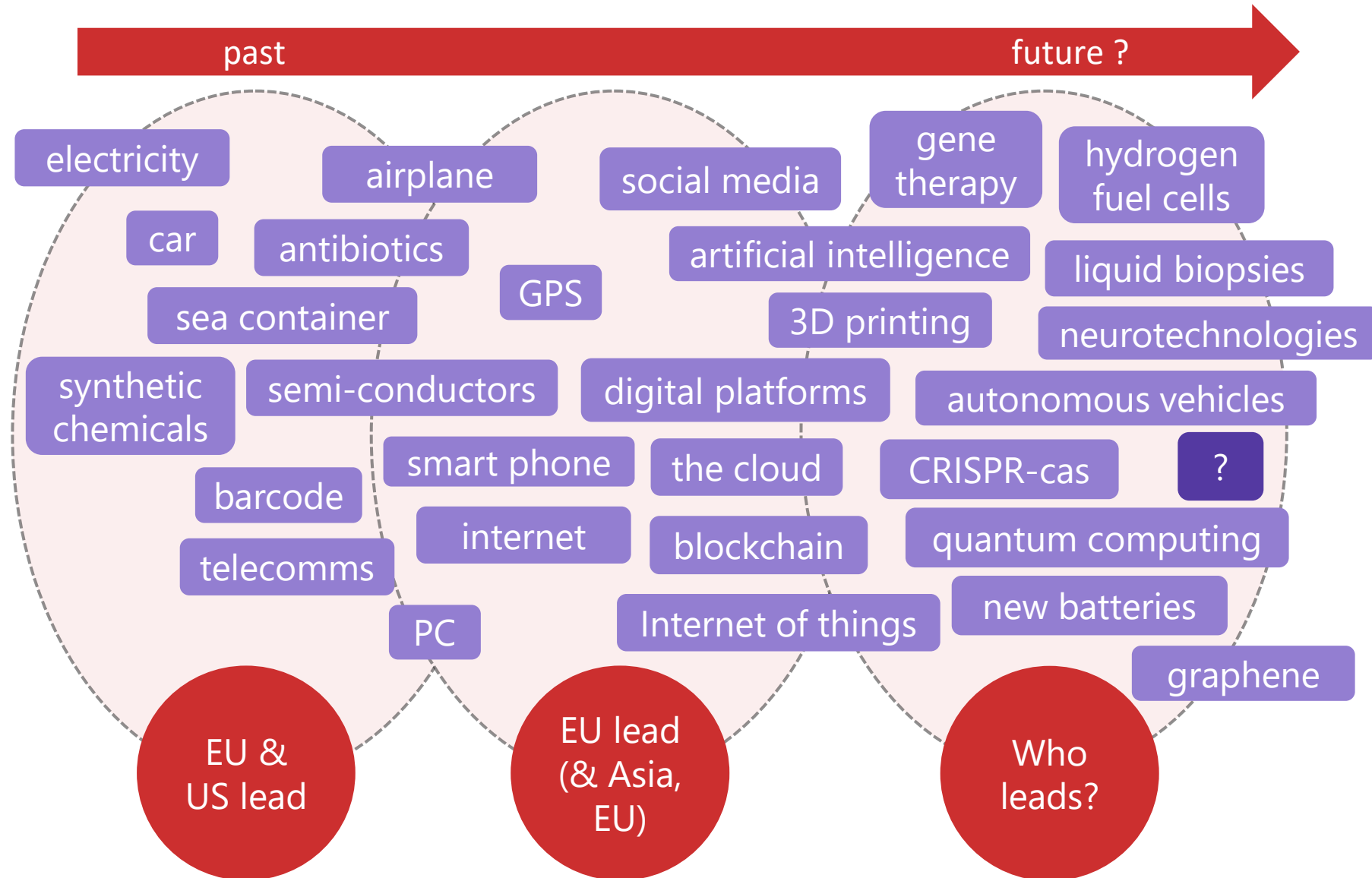
What is at stake: will Europe be home to future « unicorns »?

Number and market value of "unicorn" companies (valued at over €1 billion) by regions



Source: CB Insights (Jan 2021)

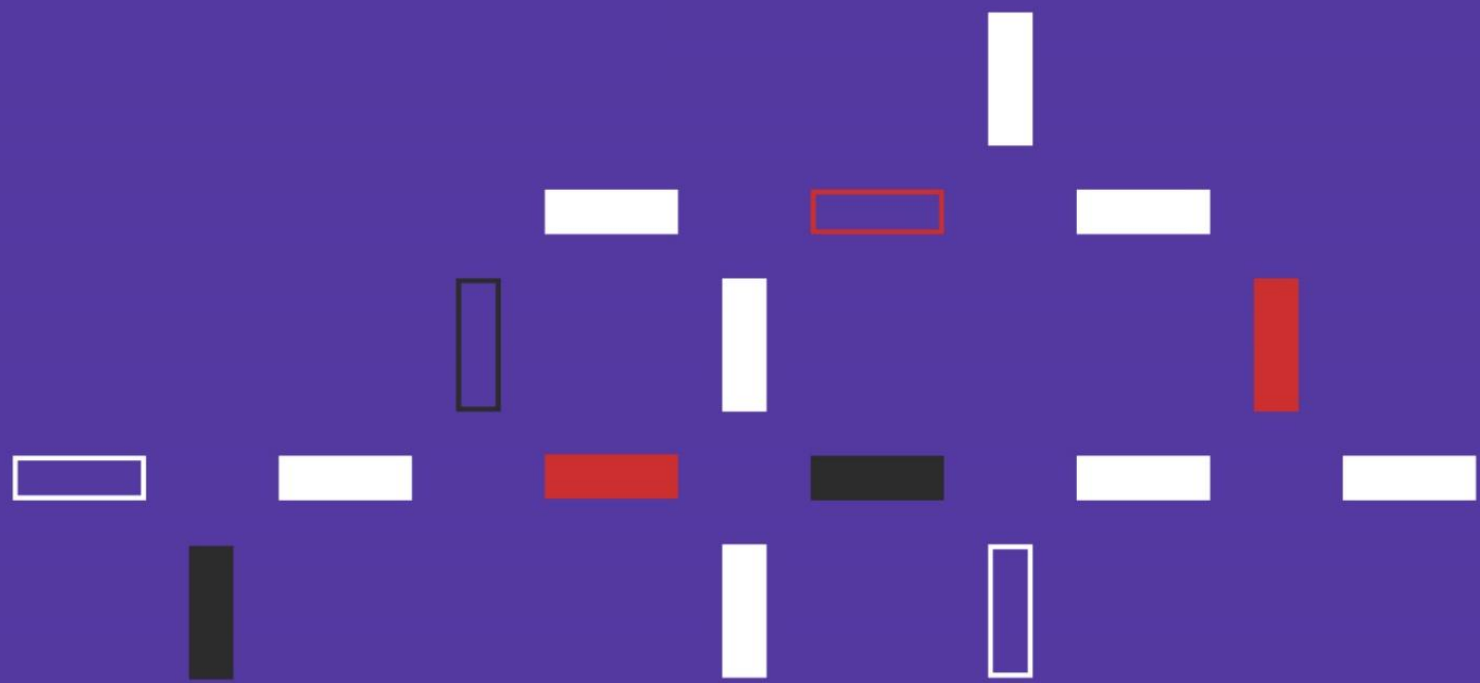
What is at stake: who will lead on the next wave of strategically important technologies?



Examples taken from WIPO, MIT, WEF, OECD, etc.



Experience from the EIC pilot phase (2018-2020)





EIC pilot phase (2018-20) under Horizon 2020 programme

- **Budget of €3.5 billion (2018-20)**, €1.55 billion in 2020
- Introduction of **EIC pilot blended finance** (2019), **and set up of EIC Fund** (2020)
- **Very high demand:** ~ 14000 applications from SMEs/ startups in 2020 with request for over €40 billion support;
- **Special support for:**
 - **COVID relevant innovations:** 36 Startups/SMEs awarded funding of over €160m in May;
 - **'Green Deal' innovations:** 64 startups/ SMEs awarded funding of over €300m in July;
 - **for women innovators:** at least 25% of start-ups/ SMEs invited to interview to have female CEO
- **First EIC programme managers** recruited



Impacts of EIC pilot Accelerator (including SME instrument)



Growing support to Startups & SMEs

- **5700** supported since 2014
- **293** supported in enhanced pilot (Oct 2019- Oct 2020)
- **159** awarded blended finance with ~€700 million equity
- Increase in startups with female CEOs



Crowding in other investors:

- **€5.3 billion** follow up investments to EIC supported companies
- EIC Fund investment decisions in over 50 companies
- **1 unicorn** - Cellink; value €1billion+
- **43 centaurs** - value €100million+



90% addressing Sustainable Development Goals

Main thematic in:

- 30% in **Green Deal**
- 30% in **Digital**
- 30% in **Health** (*including COVID solutions*)

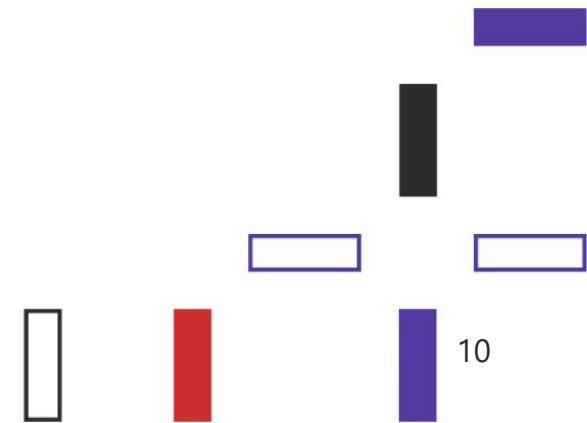


EIC pilot Pathfinder Portfolio (including FET Open & Proactive)

		Applications					Sum
		Health	Digital	Energy & Environment	Food & Agriculture	Manufacturing /Infrastructure	
Technologies	Biotech & bioengineering	95	3	3	5	4	110
	Engineering	0	6	3	0	11	20
	Data	7	23	2	0	1	33
	Materials	23	69	41	2	38	173
	Sum	125	101	49	7	54	336

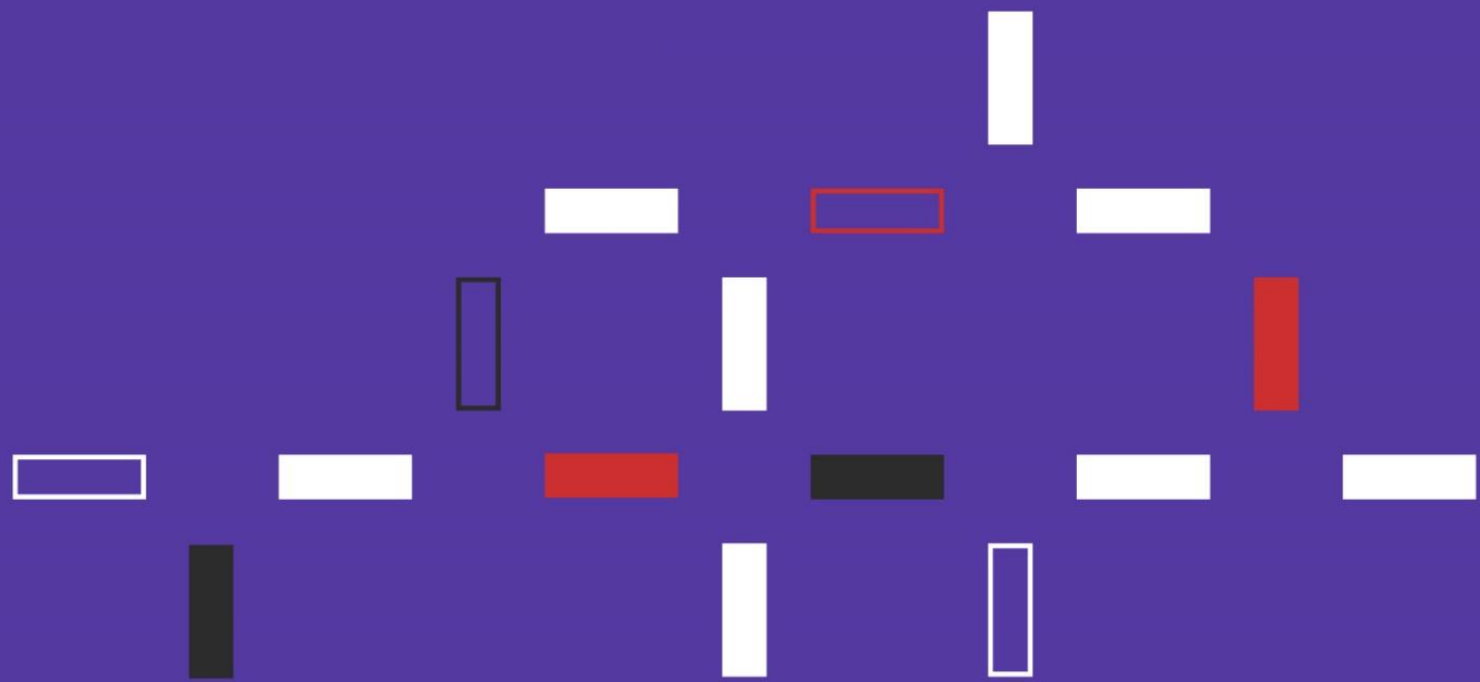
Proven impacts

- **590 innovations**, 451 addressing new and emerging markets
- **2662 Peer-Reviewed Scientific Publications**, 72% in high profile journals





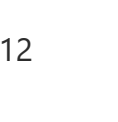
The new European Innovation Council





Europe's most ambitious innovation initiative

- **€10 billion** programme to identify, develop and scale up breakthrough technologies and disruptive innovations in Europe
- **Unique** in the world to combine research on emerging technologies with Accelerator for startups, SMEs and scaleups
- **EIC Fund** largest VC deep-tech investor in Europe (over €3 billion)
- **Innovator-centric** steered by Board of leading innovators
- **Pro-active approach** with flexible funding
- Enhances the **European innovation ecosystem**





Part of the Innovative Europe pillar of Horizon Europe

European Innovation Council

- Support to innovations with breakthrough and market creating potential

€10.1 billion

European innovation ecosystems

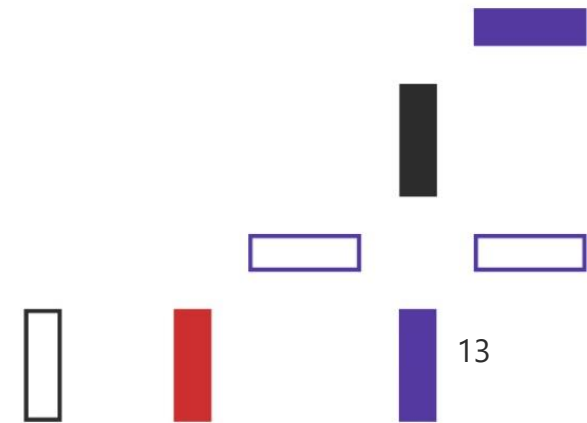
- Connecting with regional and national innovation actors

€520 million

European Institute of Innovation and Technology (EIT)

- Bringing key actors (research, education and business) together around a common goal for nurturing innovation

€2.9 billion





What is the EIC?

One stop shop for
breakthrough, deep-tech,
market-creating innovators

- Open to all innovators, in any field, at any time
- Complemented by targeted funding on strategic challenges
- Highly competitive for Europe's high potential innovators

Agile funding from idea to
investment

- Pathfinder for advanced research on emerging technologies
- Transition from lab to commercial setting
- Accelerator & EIC Fund to scale up innovations by start-ups & SMEs

Building ecosystems and
communities

- Access to Business Acceleration Services (coaches, mentors, corporates, investors & knowledge partners)
- EIC Programme Managers to develop visions for breakthroughs, manage portfolios, and connect to ecosystems
- Crowding in other investors (VC, corporates, etc.)



EIC Governance

- **EIC Board & President** to set strategy, advise on work programme & implementation
- **EIC and SME Executive Agency** (from 1 April) to manage EIC activities
- **EIC Fund** to manage equity investments in EIC supported companies
- **European Commission** to appoint Board, adopt Work Programme, monitor implementation





EIC main instruments and characteristics

Pathfinder

- **Early stage research** on breakthrough technologies
- Grants up to €3/4 million
- Successor of FET (Open & Proactive)

Transition

- **Technology maturation** from proof of concept to validation
- **Business & market readiness**
- Grants up to €2.5 million

Accelerator

- **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)
- Successor of SME instrument

- Mission to **identify, develop and deploy high risk innovations** of all kinds
- Focus on **breakthrough, market-creating, deep-tech**
- Steered by **EIC Board** of leading innovators (entrepreneurs, investors, researchers, ecosystem)
- **Business Acceleration Services** (coaches/ mentors, corporates, investors, ecosystem)
- **Pro-active management** (roadmaps, reviews, re-orientations, etc) with EIC Programme Managers
- **Follow up funding for results from Horizon** (ERC, EIT, collaborative) & national programmes



Proactive management

- **Project reviews** against milestones, with flexibility:
 - Milestones to be proposed in applications
 - Reviews to decide on whether to continue, reorient, suspend, stop
 - Reviews may also lead to amendments to future milestones
- **Projects allocated to Portfolios:**
 - Especially (but not only) for projects selected following Pathfinder Challenge calls
 - Overseen by EIC Programme Managers
 - Portfolio objectives and roadmap prepared by Programme Manager in consultation with projects/ beneficiaries
 - Portfolio activities supported (events, data sharing, etc) to strengthen overall portfolio and prepare transition to innovation



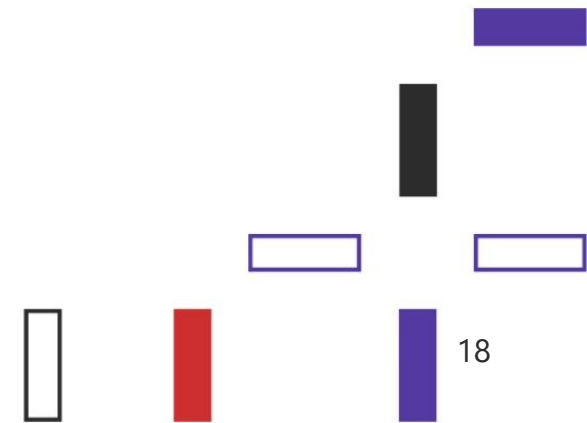


Portfolio approach

Challenge portfolio approach:

- a coherent set of projects exploring different perspectives, competing approaches or complementary aspects of the Challenge;
- multidisciplinary interactions and exchanges for synergies and serendipity;
- contributing to an overarching medium to long-term business goal and technology-based strategic plan, under the supervision of an **EIC Programme Manager**.

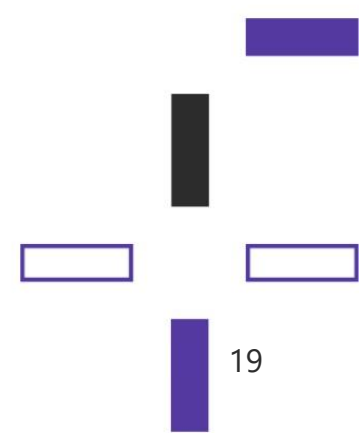
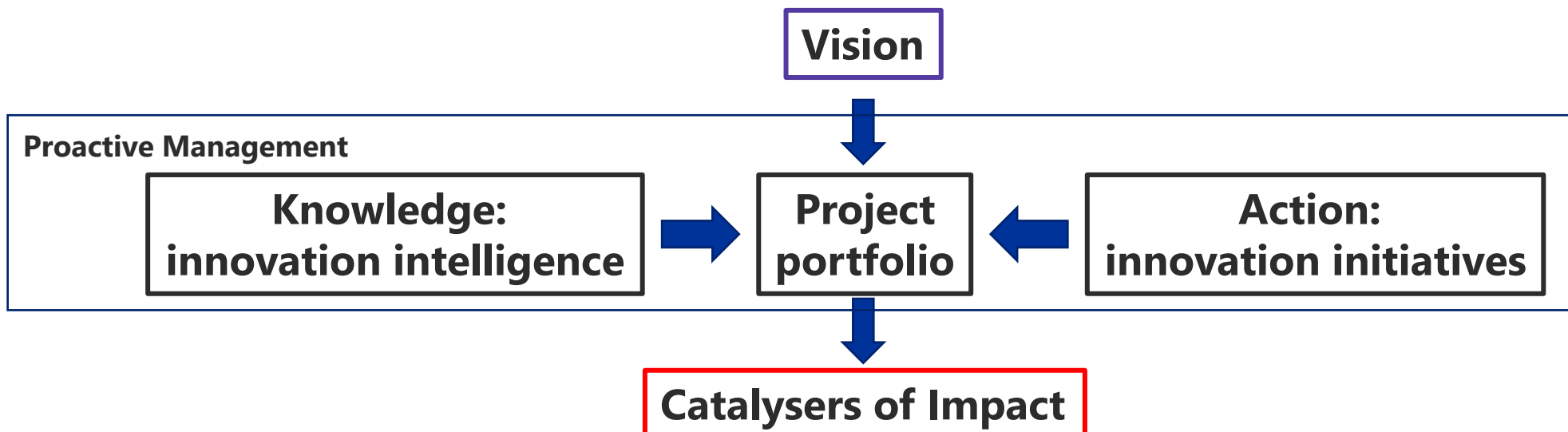
Projects will participate in relevant portfolio activities.





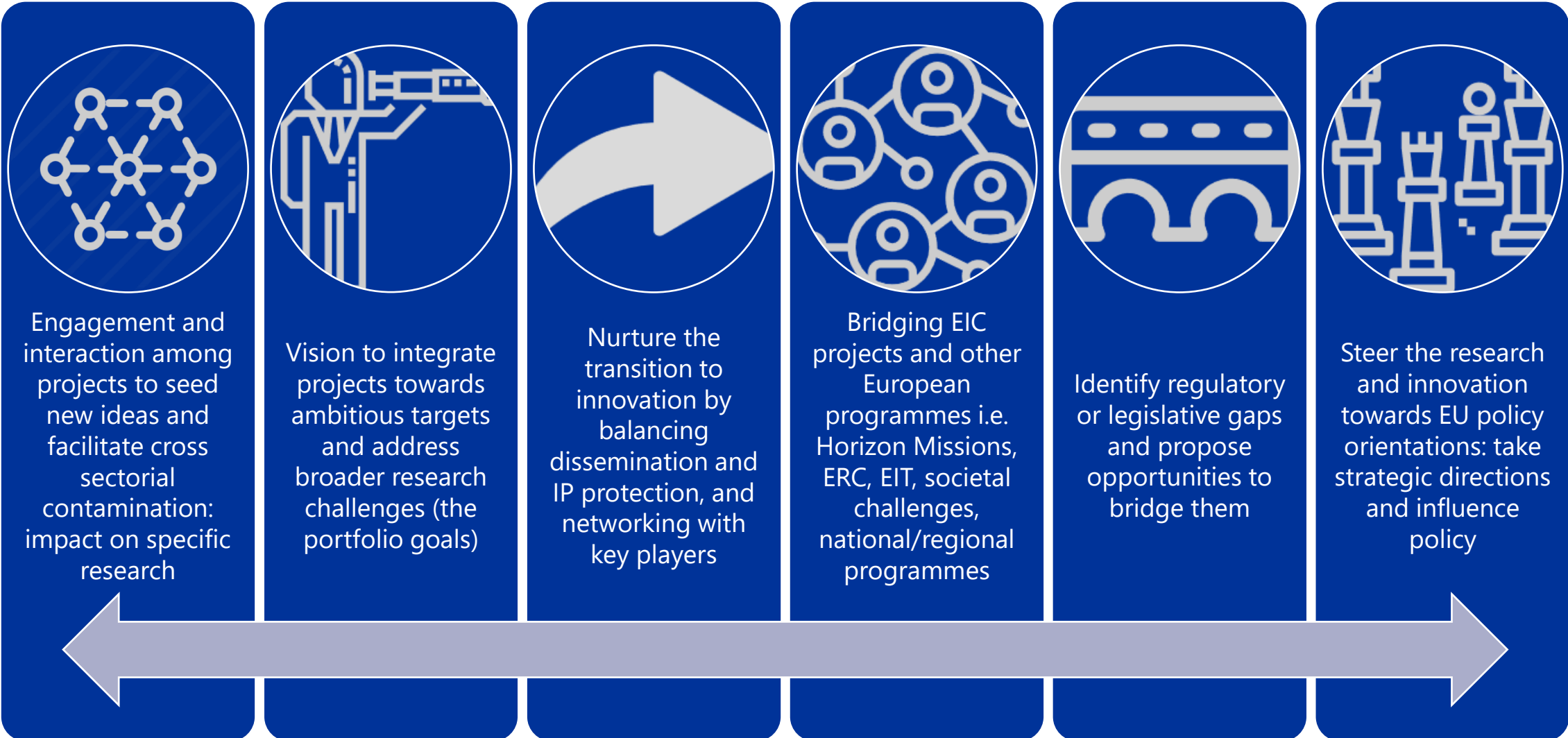
EIC Programme Managers

bringing together cutting-edge expertise and visionary drive to turn new technological breakthroughs into relevant and responsible innovations for Europe and for the world: ready to work with others, to accelerate where possible, to be patient where needed, to learn from mistakes and, ultimately, to share the success





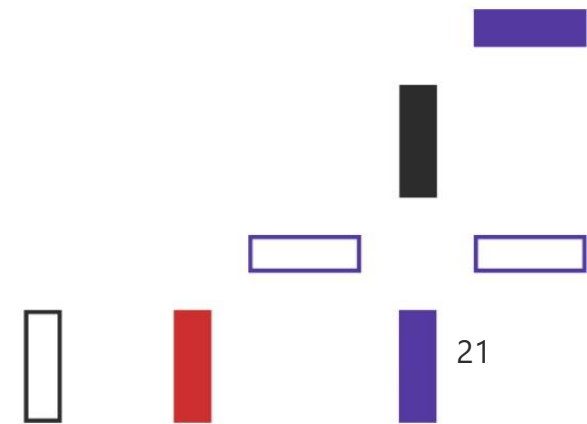
Proactive Management: Impacts





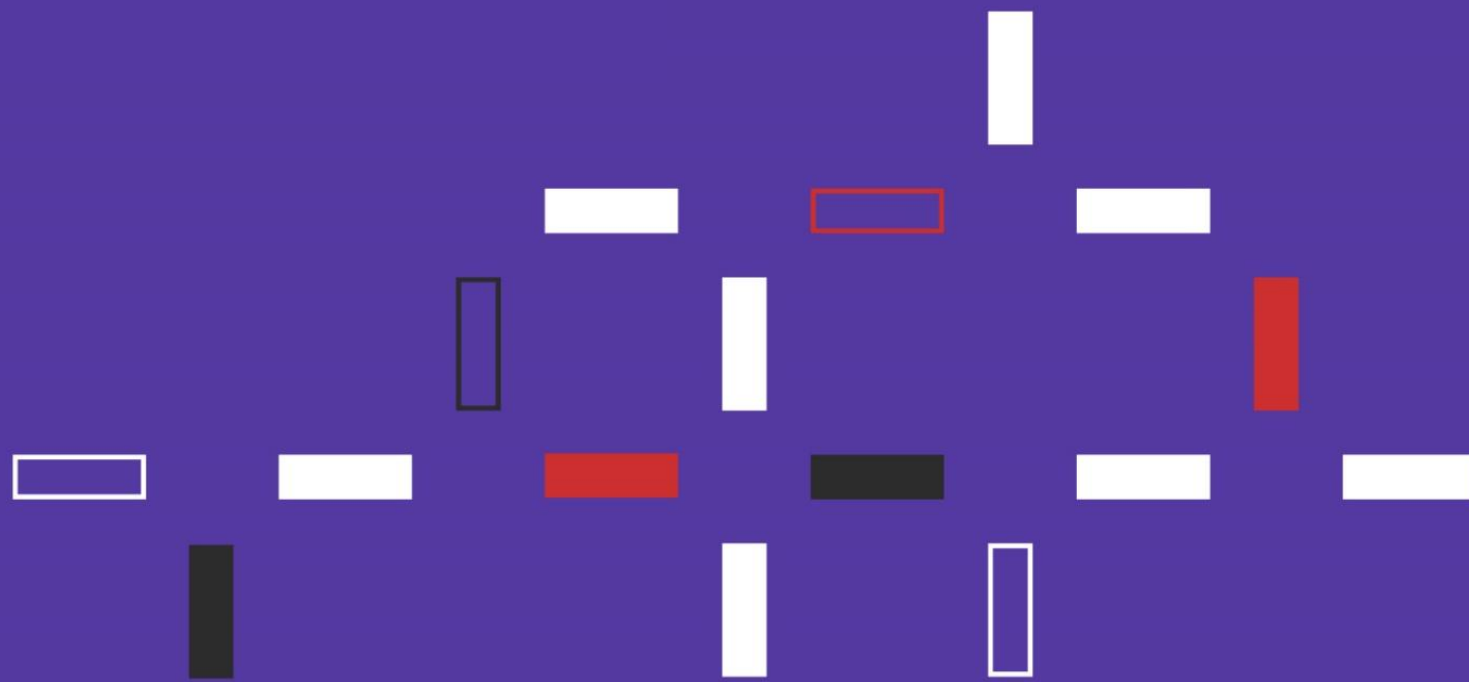
Other EIC activities

- **EIC Prizes:** Women Innovators; Capital of Innovation; Innovation Procurement; Social Innovation
- Pilot on **co-creating solutions with procurers**
- **Partnerships** with ERC & EIT (Fast track scheme), Member State programmes (Plug In pilot), Enterprise Europe Network, Startup Europe





Some statistics in H2020 - EIC Pathfinder pilot





Some statistics under the EIC Pathfinder Pilot

Submitted proposals

- Applicants from Turkey in 144 grant proposals out of 6882 submissions: **Presence rate: 2.1%**
- **184 participations** (27 as Coordinator and 157 as Partner)

Funded projects

- Turkey has taken part in 6 grants out of 549 funded: **Quote 1.1%**
- Total budget for Turkey amounts to **2.072 M Euro** out of the total of 1.501 B Euro (0.14%)

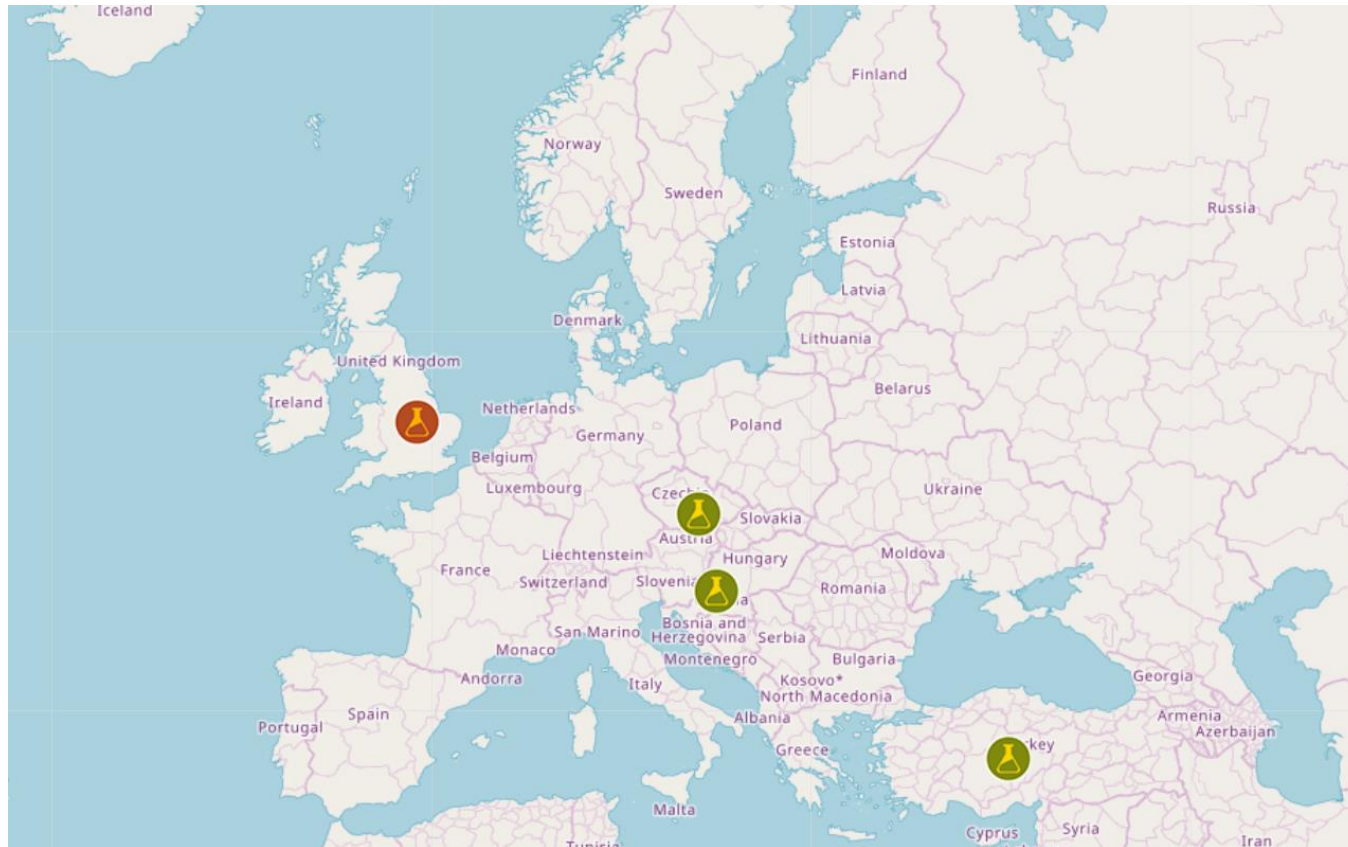
6 participations

- TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU (3)
- TAZI BILISIM TEKNOLOJILERI ANONIM SIRKETI (1)
- MIDDLE EAST TECHNICAL UNIVERSITY (1)
- KOC UNIVERSITY (1)



ROBOROYALE (Grant agreement ID: 964492)

ROBOTic Replicants for Optimizing the Yield by Augmenting Living Ecosystems



Start date:
01/11/2021
End date:
31/10/2026

Coordinated
by
**UNIVERSITY
OF
MANCHESTER
(UK)**

Overall
budget
€3269938

**UNIVERSITAET
GRAZ
(AT)**

**MIDDLE
EAST
TECHNICAL
UNIVERSITY
(TR)**

**CESKE
VYSOKE
UCENI
TECHNICKE V
PRAZE
(CZ)**

The core of the project is the development of a micro-robotic system, designed to operate around the honeybee queen.



Thank you!

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