

GRAND ENOV+

The European Innovation Council – Opportunities in the French German Context Online session – May 5th 2022





How to produce more disruptive innovations and to reinforce ecosystems of innovation

European Innovation Council (EIC)

- Support disruptive innovations and creation of new markets

€ 10.1 Bilions

European Innovation Ecosystems (EIE)

- Create or reinforce connexion between regional and national stakeholders and develop synergies with European ones

€ 0.5 Bilions

European Innovation and Technology Institute (EIT)

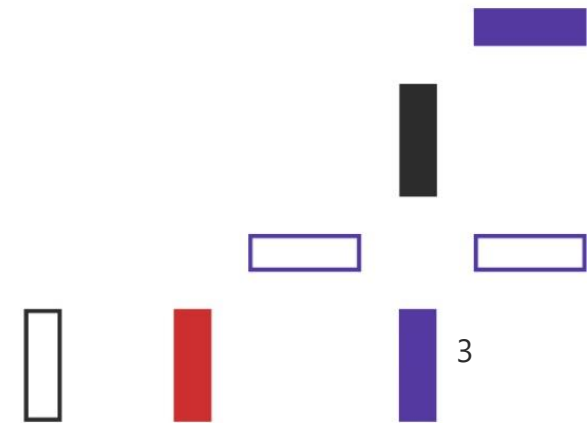
- Create communities between academics and companies to generate more innovation, knowledge and accelerate development of SMEs

€ 3 Bilions





The European Innovation Council Objectives and actions





EIC ?

Performances

- Highly performing european research but few transformation into disruptive innovations.
- Lack of disruptive innovations that will answer to emerging markets of new markets

Funding innovation

Lack of funding (2 "Death valleys") for :

- **transition phase , between laboratoies and companies;**
- Tranformation of startups into scaleups (« *scaling up* »)

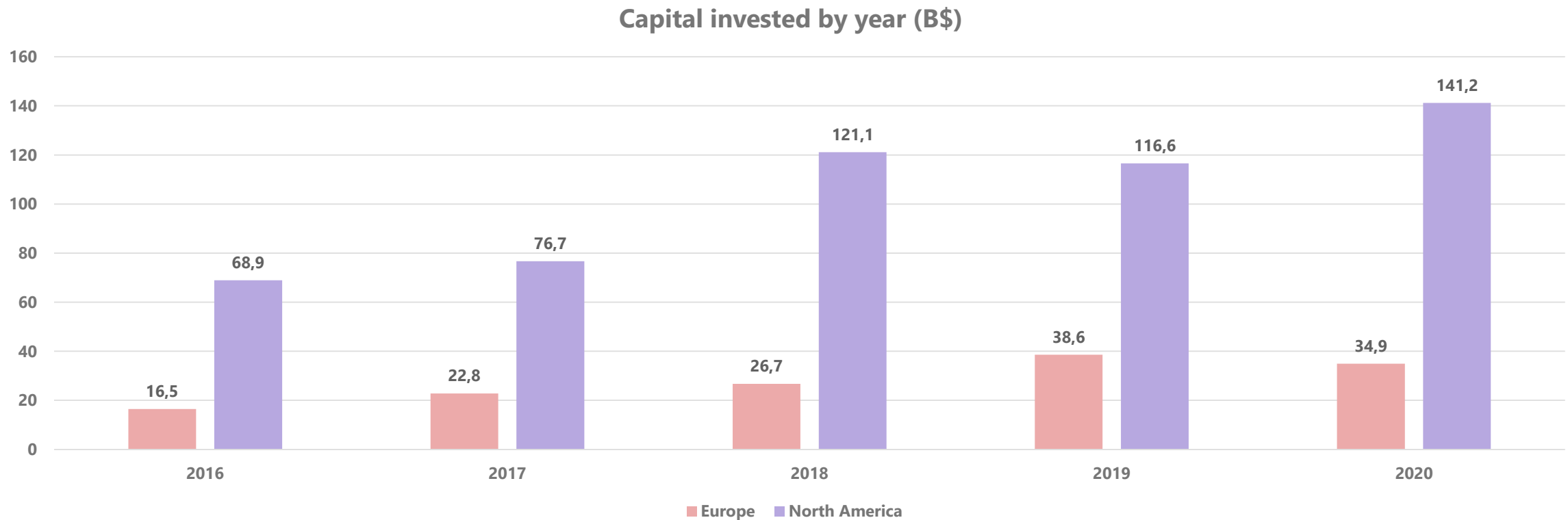
Ecosystems of Innovation

- Many regional and national ecosystems but lack of cooperation at european level ;
- **Need to integrate innovation and talents at european scale**



Lack of Funding for innovative startups and SMEs

Europe = 20% of the annual investments from US funds

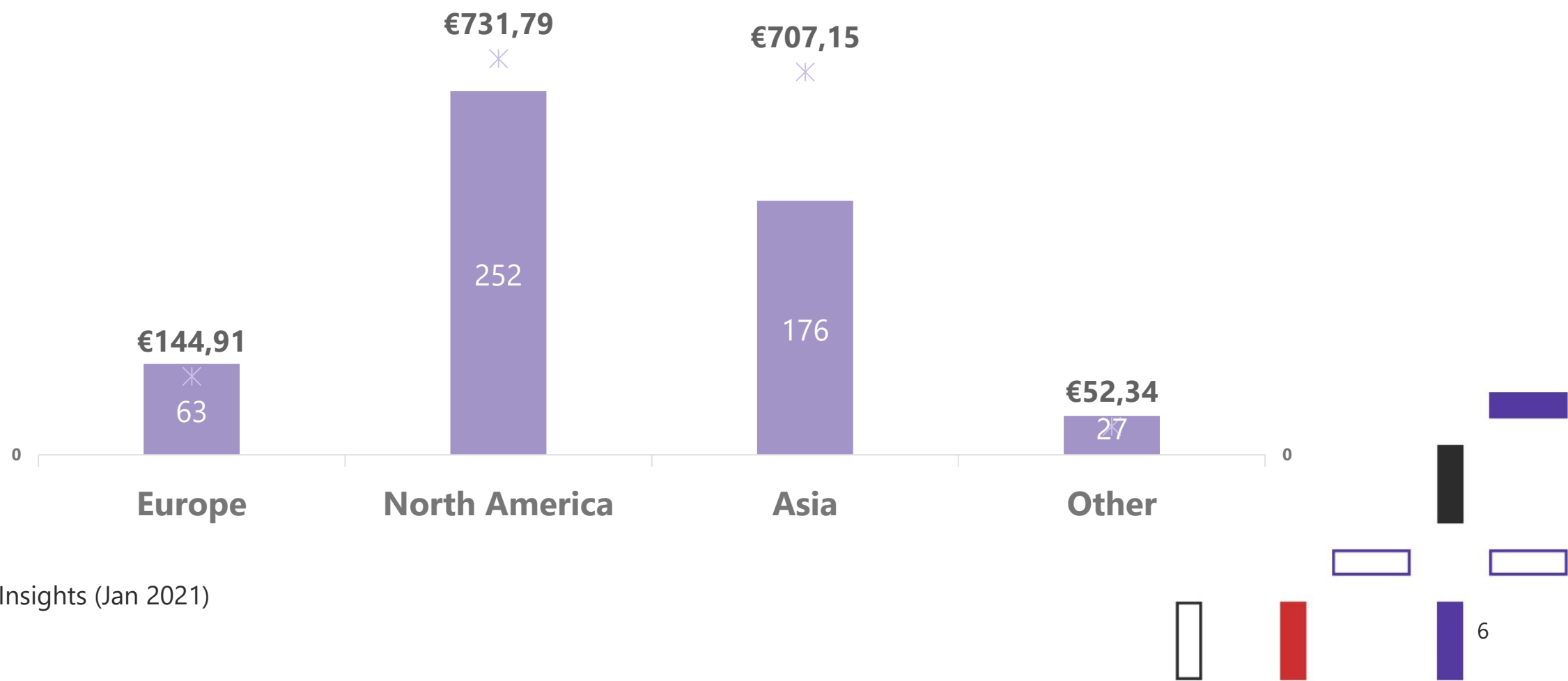


Source: [Invest Europe, Pitchbook]

Unicorns ?



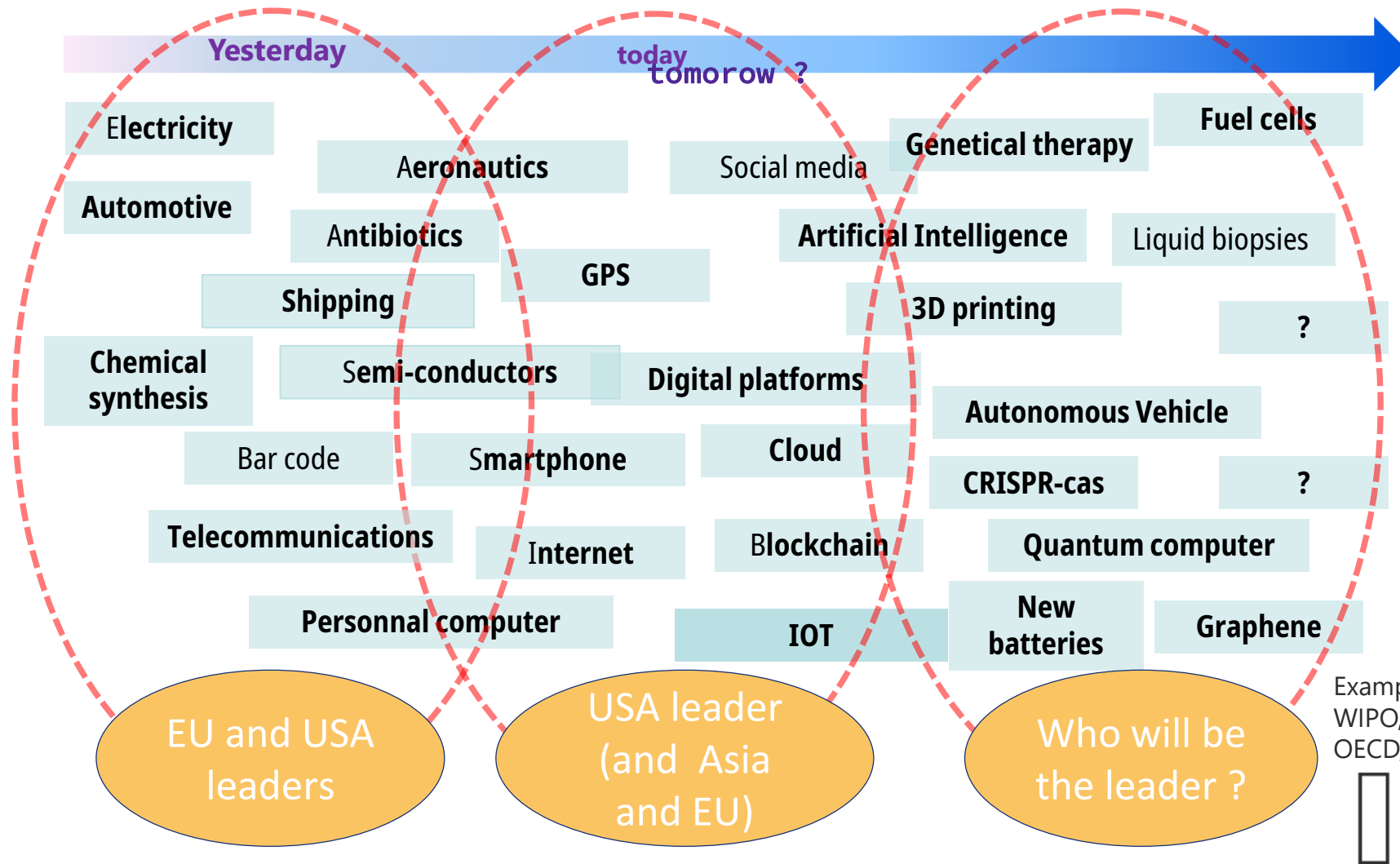
Number and consolidated value of Unicorns (per region)



Source: CB Insights (Jan 2021)



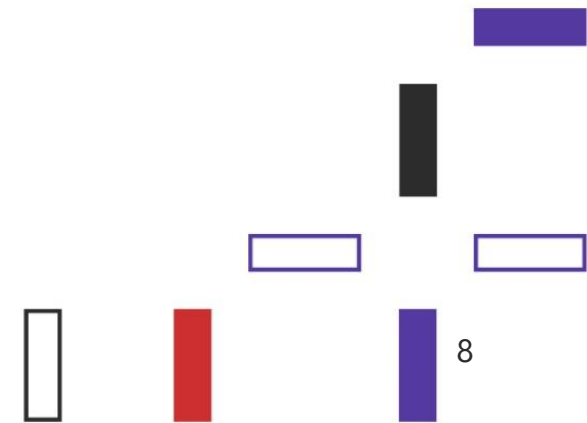
Key Issue: Who will be the leader of Tomorrow ?





Europe's most ambitious innovation initiative ever launched !

- **10 billion program** to **identify, develop and accelerate radical innovation for rapid market growth**
- **Unique in the world** - framing research into **emerging technologies** to support **market deployment**
- **Creation of the EIC Fund**, the largest venture capital investor in Europe (over €3 billion) Innovator-focused, driven by a Board of recognized innovators
- **Proactive approach** with flexible funding
- **Strengthening** the European innovation ecosystem



Impact of EIC pilot (including impact of the SME instrument)



- Growing support for startups and deep tech SMEs
- **5,700 startups and SMEs supported since 2014**
- **293 supported under the enhanced pilot** (October 2019 - October 2020) - 164 in 2021 (Accelerator)
- **159 + 117 selected** under the blended finance option for more than €1 billion in equity investments
- Growth in the number of start-ups supported and led by women



- Attracting other investors to the rounds
- **9.6 billion in follow-on investments** attracted by EIC-backed companies;
- **141 EIC Fund investment** decisions already made - 19 deals signed to date
- **5 unicorns (worth over €1 billion);**
- **91+ centaurs (worth €100m+) after EIC support.**

Meeting 90% of the Sustainable Development Goals (SDGs)

Main reference themes:

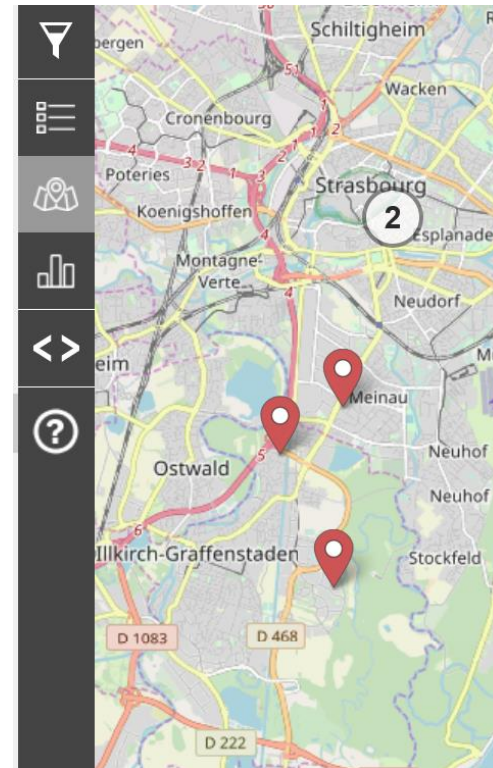
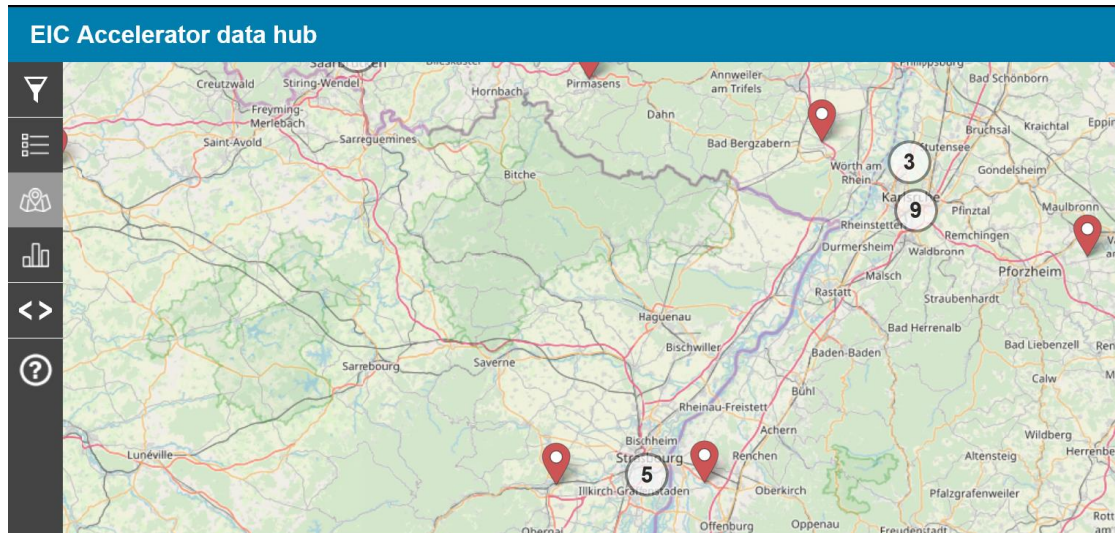
- **30% in the Green Deal context;**
- **30% in the digital context;**
- **30% in the health sector (including "COVID solutions").**



EIC pilot and SME instrument funded projects



<https://sme.easme-web.eu>



SPARTHA MEDICAL SAS

Direct link

<https://sparthamedical.eu/>

Project: Innovative multifunctional and smart coatings to prevent medical device related infections

Project Acronym: SPARTHACUS

Project Type: Full blended

Infections represent one of the major risks of surgery implants and the main cause of implant rejection, affecting over 5% of patients who undergo an implant surgery (around 2M patients in the EU). At SPARTHA Medical, created in 2019 as a spin-off of INSERM Biomaterials Unit (Strasbourg), we developed a multifunctional coating with antimicrobial and anti-inflammatory properties to prevent infections in implants and surgical care. In addition to this medical coating to be used directly in hospitals, we developed a second product – a biocompatible, eco-friendly spray with antibacterial & antiviral properties for general and daily use. We also offer a customized coating development service for medical device manufacturers which leads to recurring licensing. Our coating platform is so versatile the applications are endless. We are also integrating the development service to electronics and cosmetics companies. We have signed 7 contract agreements so far, and 2 more in advanced negotiations

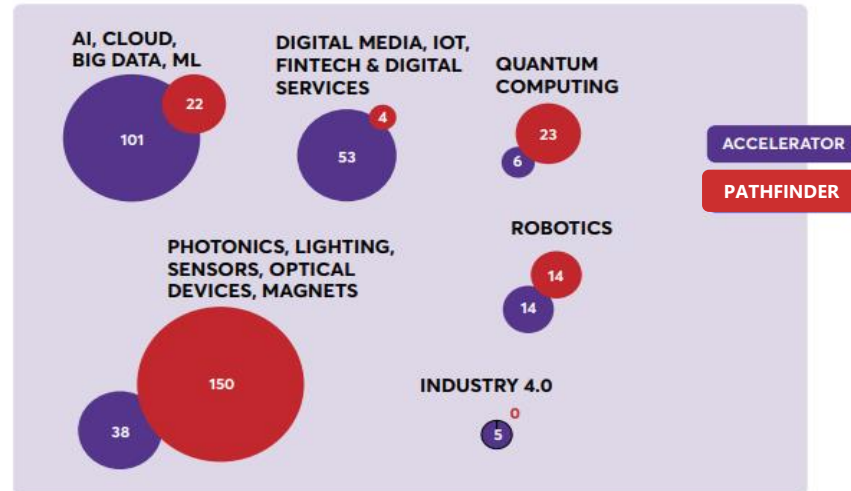
Topic: Engineering and technology

Total budget: 18.544.600 €

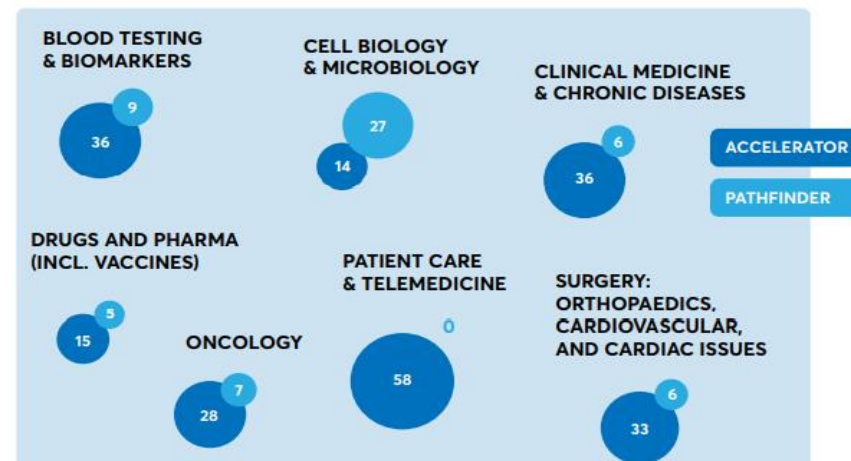
EU Contribution: 4.133.750 €

PATHFINDER and ACCELERATOR projects: breakdown per thematics (2018 – 2021)

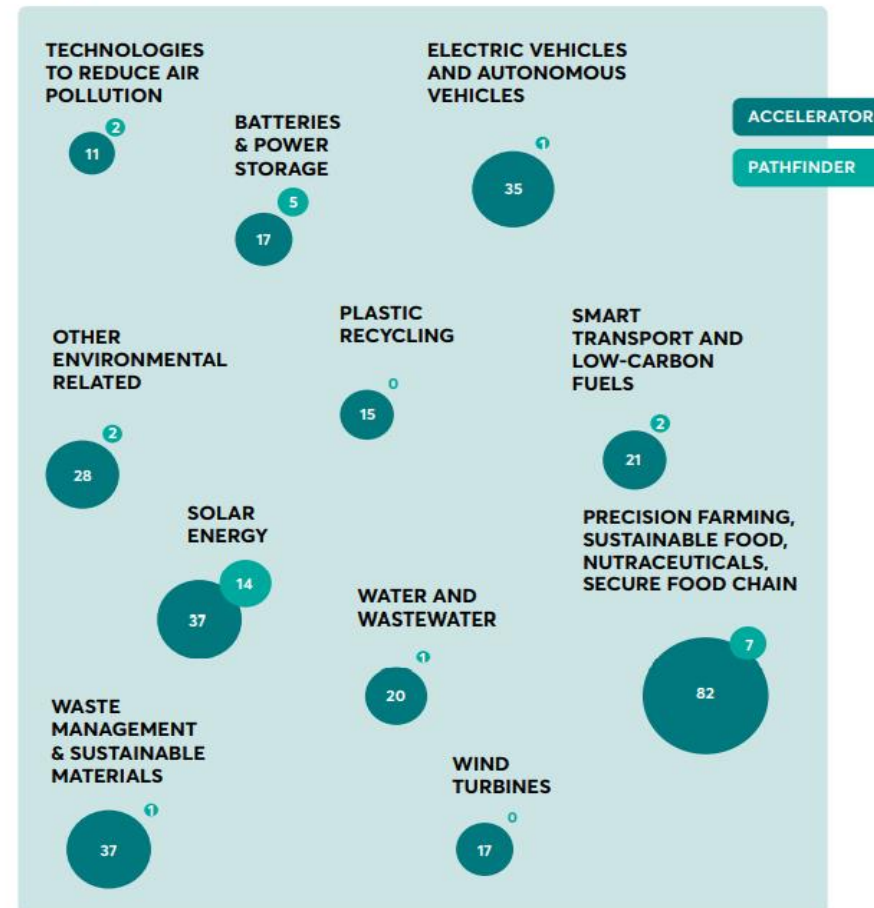
For Digital and Industry 5.0



For Health

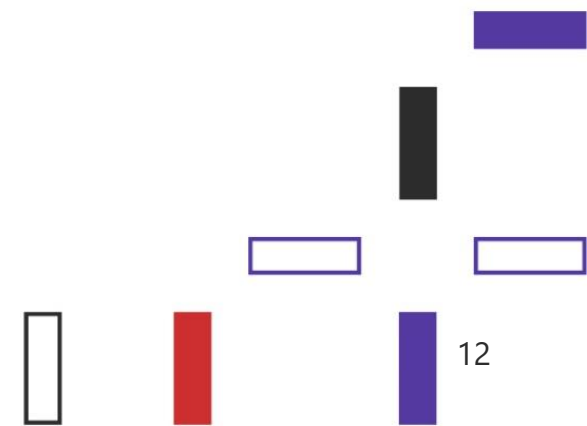


For Green





ELC in the program Horizon Europe



EIC and Horizon Europe (2021-2028)



A one-stop shop for breakthrough and disruptive innovators

- Open to all innovators, whatever their field, at any time.
- Flexible type of funding, targeted to needs and strategic challenges
- Highly competitive for high potential European innovators

Agile financing from idea to investment

- **The Pathfinder for advanced research on emerging technologies.**
- **Transition activities from the laboratory to the commercial environment**
- **The Accelerator for innovative start-ups and SMEs**

Building ecosystems and communities

- Access to business acceleration services (coaches, mentors, companies, investors and knowledge partners)
- EIC programme managers to develop breakthrough visions, manage portfolios and connect to ecosystems
- Attracting other investors (VCs, large companies, etc.)



EIC: Three instruments to accelerate R&I

Pathfinder (TRL 1-4)

Initial research on advanced technologies
Grants of up to €3/4 million
Successor to FET (Open & Proactive)

Transition (TRL 4-6)

Technology maturity: from proof of concept to validation
Operational capability and market maturity
Grant: up to € 2,5 million

Accelerator (TRL 5/6 to TRL 9)

- Technological and business development of disruptive innovations (deep-tech)
- Funding: (grant up to 2,5 m€; equity up to 15 m€)

- **Mission to identify, develop and deploy high-risk innovations of all kinds**
- **Focus on cutting-edge, market-creating and deep-tech technology**
- **Led by the EIC Board of Directors composed of recognized innovators (entrepreneurs, investors, researchers, ecosystem)**
- **Business acceleration services (coaches/mentors, corporations, investors, ecosystem) Proactive management (roadmaps, reviews, reorientations, etc.) with EIC Programme Managers**
- **Possible follow-up funding for projects under Horizon (ERC, EIT, collaborative) and national programs**



Challenges and open programs

Top-down approach

- **€167 million for 6 Pathfinder Challenges:**

- Carbon dioxide & nitrogen management and valorization;
- Mid-long term, systems-integrated energy storage;
- Cardiogenomics;
- Healthcare continuum technologies;
- DNA-based digital data storage;
- Alternative quantum information processing, communication, and sensing

- **€60.5 million for 3 Transition Challenges:**

- Green digital devices for the future;
- Process and system integration of clean energy technologies;
- RNA-based therapies and diagnostics for complex or rare genetic diseases

- **€537 million for two major Accelerator Challenges:**

- Technologies for Open Strategic Autonomy
- technologies to address climate change ('Fit for 55')

bottom-up approach. Any field of science, technology, or application without predefined thematic priorities



" EIC Business Acceleration Services"

- Personalised support services *"Coaching and mentoring"*
- *EIC Corporate days*
- *EIC Procurers days*
- *EIC investor matchmaking/ pitching*
- *Women leadership program*
- *GHG emissions program*
- *Overseas Trade Fairs*
- Et many other ones ...



Calls for proposals in 2022



Accélérateur - Ouvert (ou "blanc")	Propositions simplifiées - présentées à tout moment ~ 800 par mois	~€630m (~subvention/investissement)
Accélérateur – Défis ("Challenges")	Dates limites pour les propositions complètes :	~€537m (~subvention/investissement)
<ul style="list-style-type: none"> Technologies pour l'autonomie stratégique "ouverte" Technologies pour l'objectif 'Fit for 55' 	23 Mars, 15 Juin, 5 Octobre	
Pathfinder - Ouvert ou "blanc"	Date-limite 3 Mai	~€183m
Pathfinder - Défis ("Challenges")	Date limite 19 Octobre	~€167m
<ul style="list-style-type: none"> Carbon dioxide & Nitrogen management and valorisation Mid-long term, systems-integrated energy storage Cardiogenomics Healthcare Continuum technologies DNA-based digital data storage Alternative Quantum Information Processing, Communication, and Sensing 		
Transition – Ouvert ou "blanc"	Dates limites 4 Mai, 28 Septembre	~€71m
Transition – Défis ("Challenges")		~€60m
<ul style="list-style-type: none"> Green digital devices for the future Process and system integration of clean energy technologies RNA-based therapies and diagnostics for complex or rare genetic diseases 		



EIC Transition supports different pathways... These are illustrative examples

- A **‘Transition to Technology’** to advance research up to TRL 5/6. This involves mainly **strategic technologies** that need more time to mature while improving also the Market Readiness Level.
- A **‘Transition to Market’** for projects **led by an SME/Start-up** with an interest in the results as a single partner or in a small collaboration. The goal is to mature both the technology and market readiness.
- A **‘Transition to Entrepreneurship’** - Many research projects produce “side results”, often with higher TRL levels, that could be relatively **quickly commercialized** with the right "seed financing".

