



European
eic INNOVATION
Council

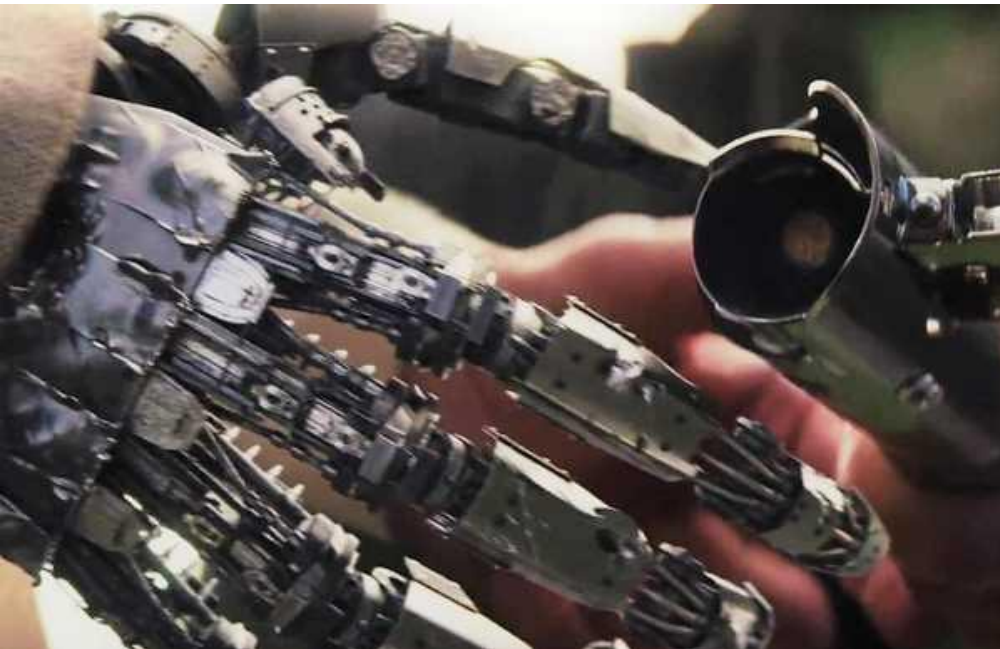
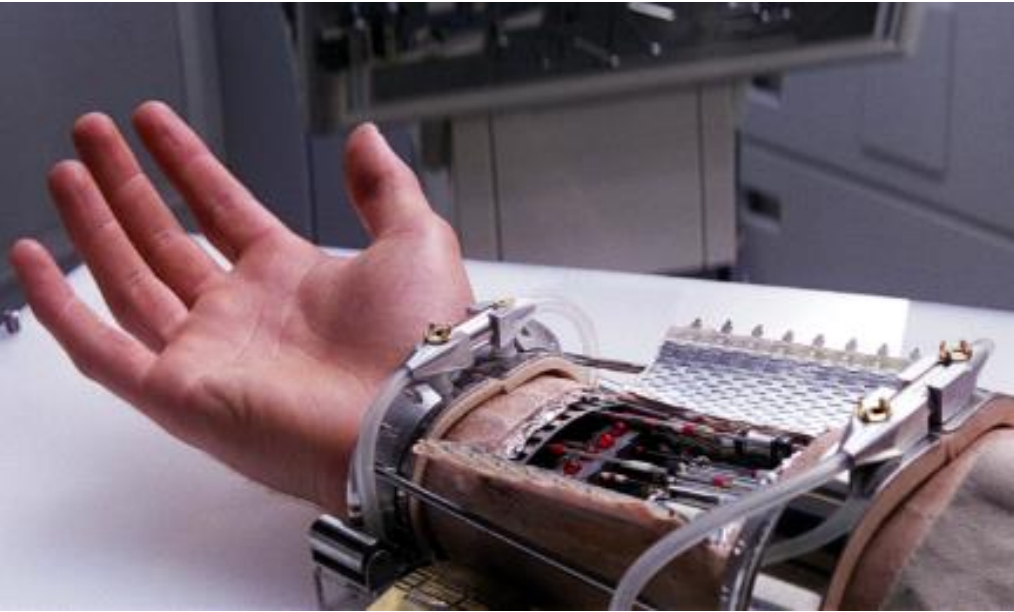
EMPOWERING EUROPEAN INNOVATORS

Pathfinder/ FET in EIC Enhanced pilot

DG Connect, unit C3

Research and
Innovation







CYBERHAND: FP5 FET project, 2.5M€, 2002-2005

Goal: increase the basic knowledge of neural regeneration, and sensory-motor control of the hand in humans and to exploit this knowledge to develop a new kind of hand prosthesis



NEUROROBOTICS: FP6 FET proj 6.7M€, 2004-2008

Goal: systematically explore the area of Hybrid Bionic Systems (HBSs) and deeply investigate the theme of human augmentation. Three robotic platforms featuring different levels of hybridness one of which was an arm-hand sub-systems tightly physically coupled with the human body.

NEBIAS: FP7 FET project, 4.5M€, 2013-2017

Goal: developing and clinically evaluating (in selected amputees) a neuro-controlled upper limb prosthesis intuitively controlled and felt by the amputee as the natural one.



[Detop](#): H2020 ICT project, 5.1M€, 2016-2020

Goal: push the boundaries of this technology –made in Europe– to the next TRL and to make it clinically available to the largest population of upper limb amputees, namely transradial amputees.

The *Pathfinder Pilot* for advanced research

- Aim of nurturing potential market-creating technologies, developing breakthrough and disruptive innovation
- Run by Programme Managers hired from innovation ecosystem
- Based on topics or challenges identified in the work programme and open bottom-up call for proposals
- Support for assessing business opportunities (ILP) and preparing for Accelerator funding through “Transition to innovation activities”.



**Pathfinder pilot builds
on FET Open and
Proactive!!**

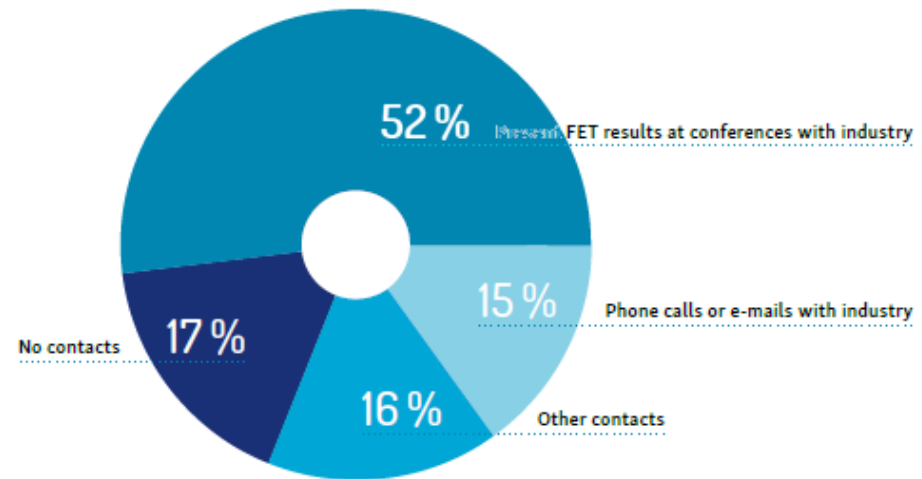
Pathfinder is building on FET Open and Proactive

Why FET in EIC? Main takeaways from **224** FET Open and Proactive projects (FET Traces report)

- 33% of projects had at least one publication written with the participation of an industrial partner
- 40 percent of projects had at least one partner from industry
- Share of enterprises among all unique organisations: 17%
- 25% of all projects had at least one patent
- 12% of FET projects led to the founding of a spin-off company

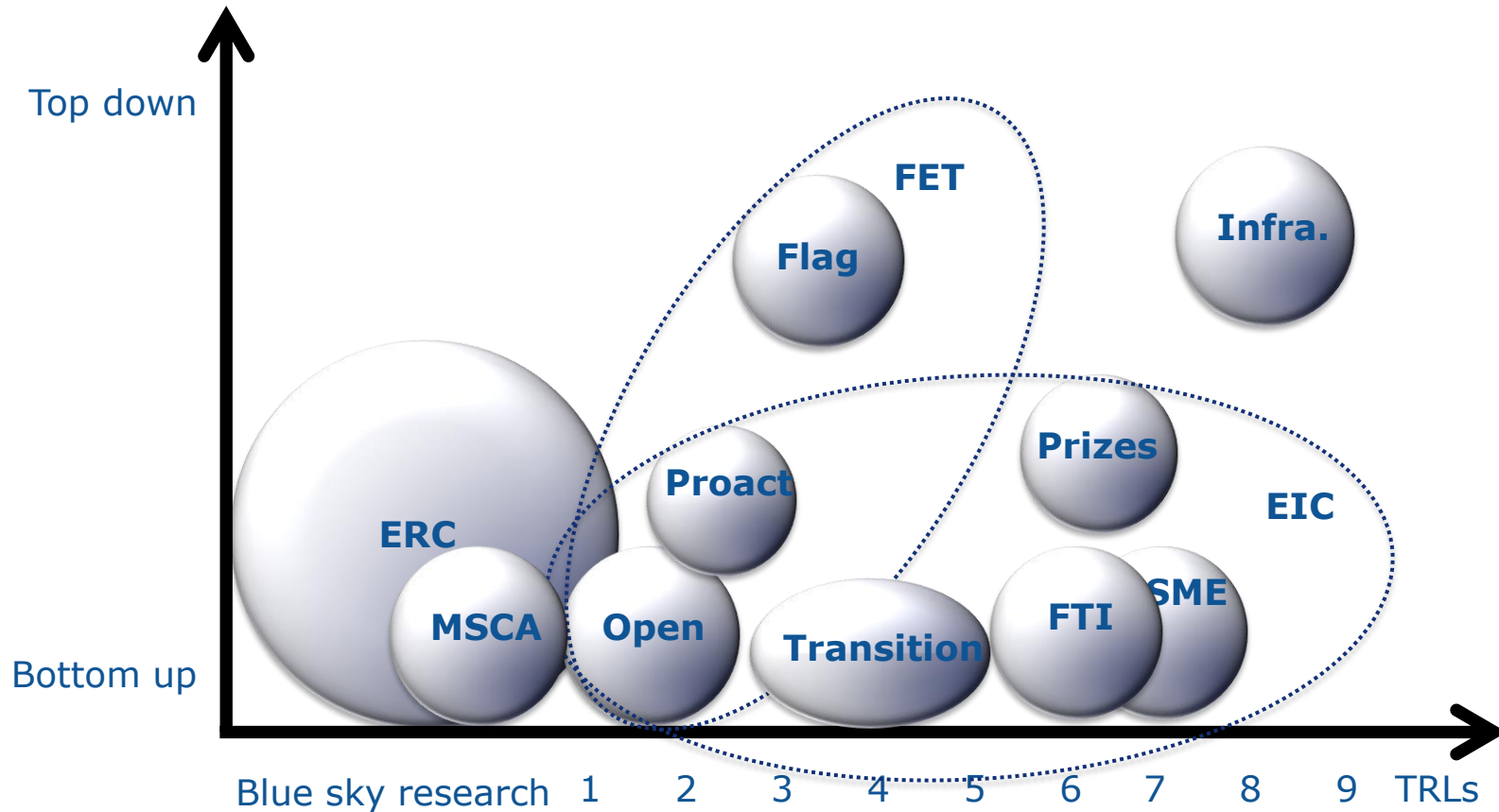
INCREASING INDUSTRY RELEVANCE

- Share of projects coordinated by an enterprise: 3.6%
- Share of enterprises among all unique organisations: 17%
- Share of projects with at least one partner from an enterprise: 40%



<https://www.fet-traces.eu/traces/index.php>

EIC covering the whole innovation chain



**EIC = Pathfinder and Accelerator
= covering the whole innovation chain**

EIC: Pathfinder and Accelerator



Two complementary funding programmes offering seamless support from research and innovation activities to market deployment and scaling-up of innovative companies.

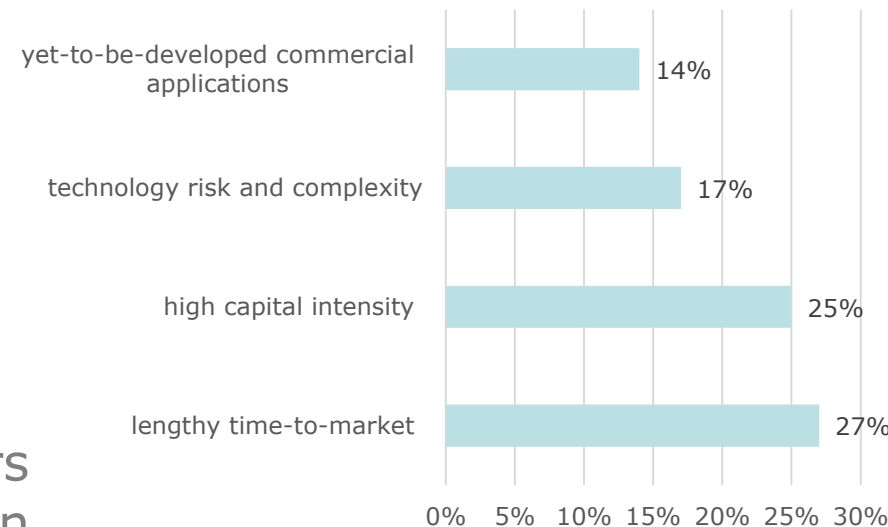


We are looking for **high-risk, high-impact/high EU added value** projects – *la crème de la crème* to reach a global stage

Deep tech will fuel the next industrial revolution

- Deep-tech companies have a strong research base.
- They are continuously advancing the technological frontier.
- Collaborations are especially important for deep tech.
- Performing multiple, very different tasks in-house can be quite difficult.
- Universities, public sector, investors and corporates, play crucial roles in the development of deeptech startups

Challenges for deep-tech startups



BCG and Hello Tomorrow
[Report:](#)
“From tech to deep tech”

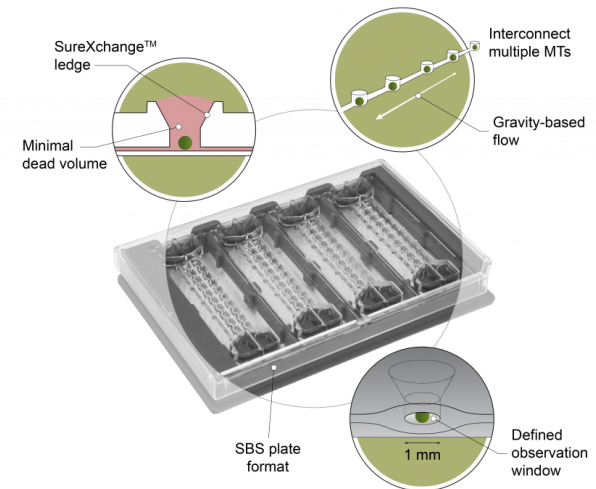
FET Open project 'Body on a Chip' commercialised



Jan Lichtenberg
CEO and Co-Founder [InSphero](https://www.insphero.com/)

“
-It is often hard to manage a good balance between investing into business development today and research for tomorrow and I am speaking from my own experience.

-The FET Open programme allowed us to get the balance right and to work on the next wave of innovation for the company.”



<https://ec.europa.eu/digital-single-market/en/blogposts/new-way-find-better-medication-fet-open-project-body-chip-commercialised>

- The funding for high risk, high gain multidisciplinary research is continuing in H2020 under Pathfinder FET part of the EIC Enhanced pilot
- Pathfinder FET Open success rate is strongly improving with around 11% in the last cut-off and most probably will improve even more as the budget is strongly increasing.
- In Horizon Europe the advanced multidisciplinary research will continue to be supported under EIC Pathfinder



We want to see THE
BEST people with THE
BEST multidisciplinary
ideas coming forward.

"Innovative Enterprise Week Bucharest 2019" 19, 20 & 21 June 2019 Bucharest, Romania

This high level event will focus on three overarching topics for the next EU Research and Innovation Programme (2021-2027) – Horizon Europe:

- Pathfinder
- Accelerator
- Financial Instruments

Day one (19 June 2019) is dedicated to the EIC Pathfinder: "From breakthrough technologies to disruptive innovations: Imagine the technologies of the future"

Targeted audience: Policy- and decision-makers, scientists, researchers, innovators, early stage investors and opinion-shaping actors are welcome to join this high-level conference.



www.innoenterprisebucharest2019.eu