

paving the way for impact Programme Managers and proactive management

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What is holding back European Innovation?

Innovation **performance**

- 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 innovators)

Strong research performance not translated into innovation



What is holding back European Innovation? i.e., a systemic analysis

What is holding back European Innovation? i.e., an institutional analysis

- Defused leadership
- Complexity of making difficult choices



EIC Programme Managers – a key novelty of the EIC

With the Programme Managers, the EIC puts a face on its hands-on leadership in new, high-impact science-driven technology areas, so called 'deep tech'.

The current EIC Programme Managers



Iordanis Arzimanoglou

Biotechnology and Health

Enric Claverol-Tinturé

MedTech and Medical Devices

Francesco Matteucci

Materials for Energy and Environment

Antonio Marco Pantaleo Energy Systems and Technologies, Biosystems Engineering

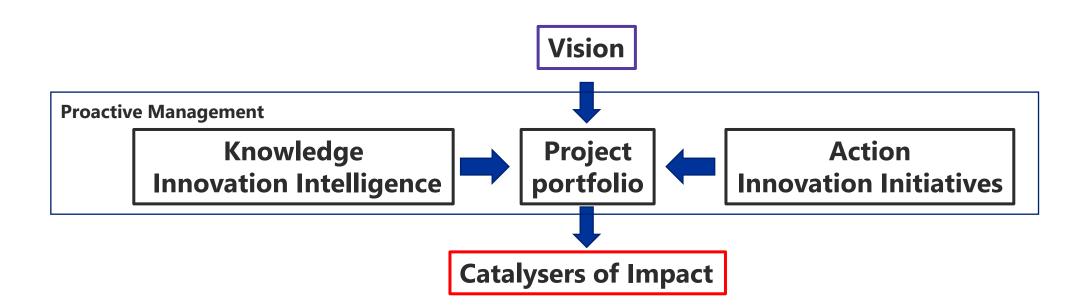


A Call for Expression of Interest to recruit other Programme Managers will soon be published





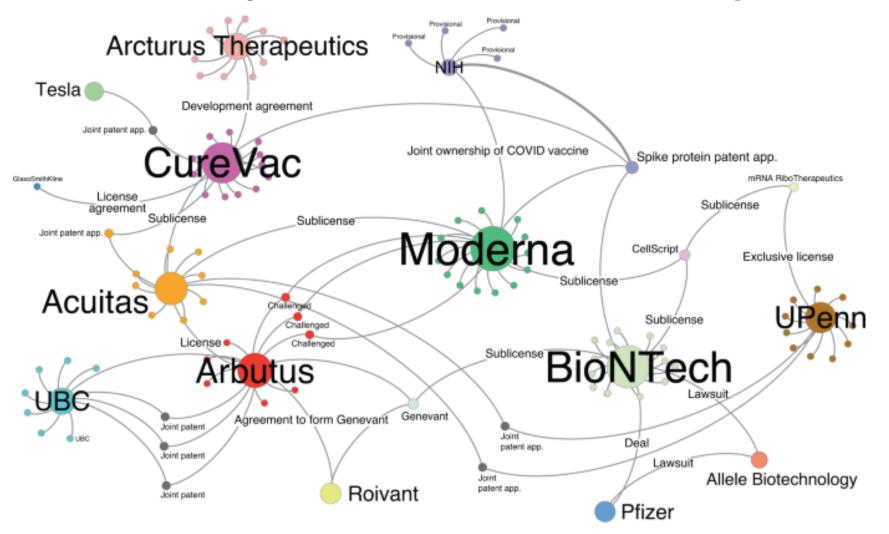
EIC Programme Managers





Innovation Intelligence: an example

A network analysis of COVID-19 mRNA vaccine patents

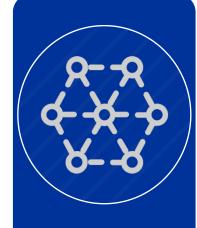


Gaviria, M., Kilic, B. A network analysis of COVID-19 mRNA vaccine patents. *Nature Biotechnology* **39,** 546–548 (2021).

https://doi.org/10.1038/s41 587-021-00912-9

Proactive Management: paving the way for impact





Engagement and interaction to seed new ideas and facilitate cross sectorial contamination: impact on specific research



Vision to integrate projects towards ambitious targets and address broader research challenges (the portfolio goals)



Nurture the transition to innovation by balancing dissemination and IP protection, and networking with key players



Bridging EIC
projects and other
European
programmes i.e.
Horizon Missions,
ERC, EIT, societal
challenges,
national/regional
programmes



Identify regulatory or legislative gaps and propose opportunities to bridge them



Steer the research and innovation towards EU policy orientations: take strategic directions and influence policy

Project

Portfolio

Ecosystem

Funding

Regulation

Policies

EIC main actions



Pathfinder

For advanced research on breakthrough / game-changing technologies

Pathfinder Open: bottom-up approach; no predefined topics

Pathfinder Challenges: topdown challenge-driven calls for tackling specific issues by portfolios of projects

Transition

For transforming research results into innovation opportunities;
follow up results from EIC
Pathfinder and ERC Proof of
Concept

Transition Open: no topic prescription

Transition Challenges: selected challenges

Accelerator

For individual companies to develop and scale up breakthrough innovations with high risk and high impact

Grant Funding
Equity Funding
Blended Finance
EIC Fund

Business Acceleration Service: access to advice, to business partners and to innovation ecosystems & peers



EIC: the challenge of proactive management

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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 market vision and strategic plan, under the supervision of an EIC Programme Manager.

Projects will participate in relevant portfolio activities, driven by the Programme Managers.

Portfolios approach



Hydrogen technologies (generation, storage, logistics, end use)

Energy storage (thermal, chemical, mechanical and electrochemical)

Thematic portfolios

Solar conversion technologies (Third generation PV technologies, solar fuels, solar heating/cooling, solar harvesting)

Energy harvesting, conversion and recovery

Bio-inspired and nature based materials for energy and environment

Sustainable agriculture (farm to fork)

Environmental intelligence and Climate Mitigation

PM: Roles – making strategic choices



Outreach to R&I stakeholders, networking with other programmes and with innovation ecosystem communities

Building strategic intelligence and identify and pursue emerging targets

Scientific knowledge + hands on approach to catalyze impacts of projects

Strategic assessment and organizing projects in thematic or targeted portfolios

EIC Proactive Management Co-create a proactive management culture with EIC staff



Thank you!

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