

19th of January 2022

EIC funding and EIC Green Technologies innovation initiatives



Backing visionary entrepreneurs

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EIC Programme Managers on Green Technologies

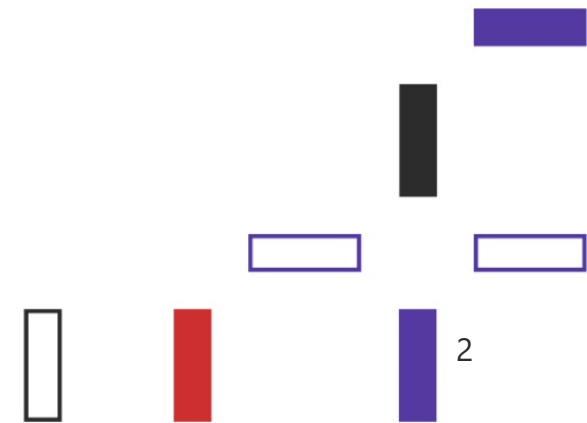
European
Innovation
Council



Content



- The EIC
- EIC funded projects in Greece
- EIC Programme Managers
- Guiding principles of selection of Challenges
- EIC Portfolios
- Portfolios Approach



EIC main instruments and characteristics



Pathfinder

- **Early stage research** on breakthrough technologies (TRL 1-4)
- Grants up to €3/4 million
- Successor of FET (Open & Proactive)

Transition

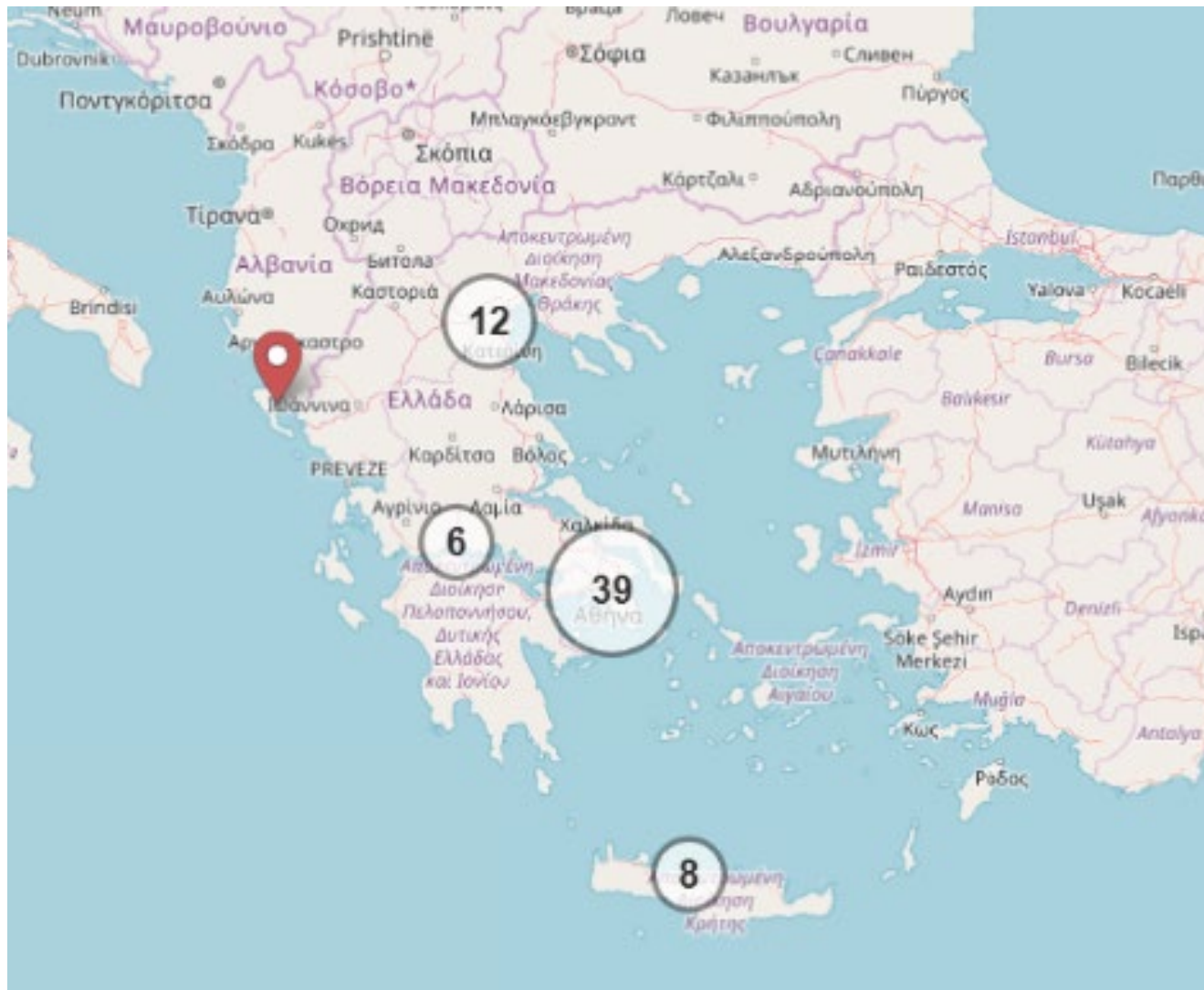
- **Technology maturation** from proof of concept to validation (TRL 4-5/6)
- **Business & market readiness**
- Grants up to €2.5 million

Accelerator

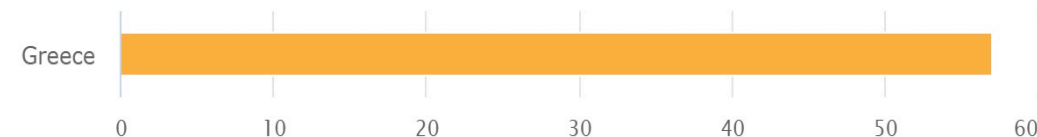
- **Development & scale up** of deep-tech/ disruptive innovations by startups/ SMEs (TRL 5/6 & above)
- Blended finance (grants up to €2.5 million; equity investment up to €15 million)
- Successor of SME instrument

- 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

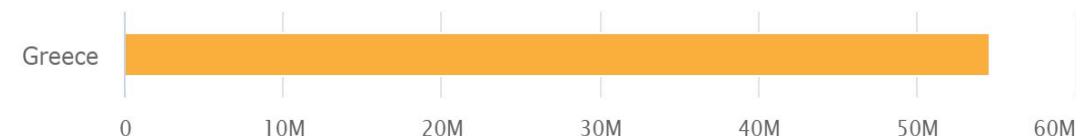
EIC funded projects in Greece



Number of projects funded



Money allocated per country



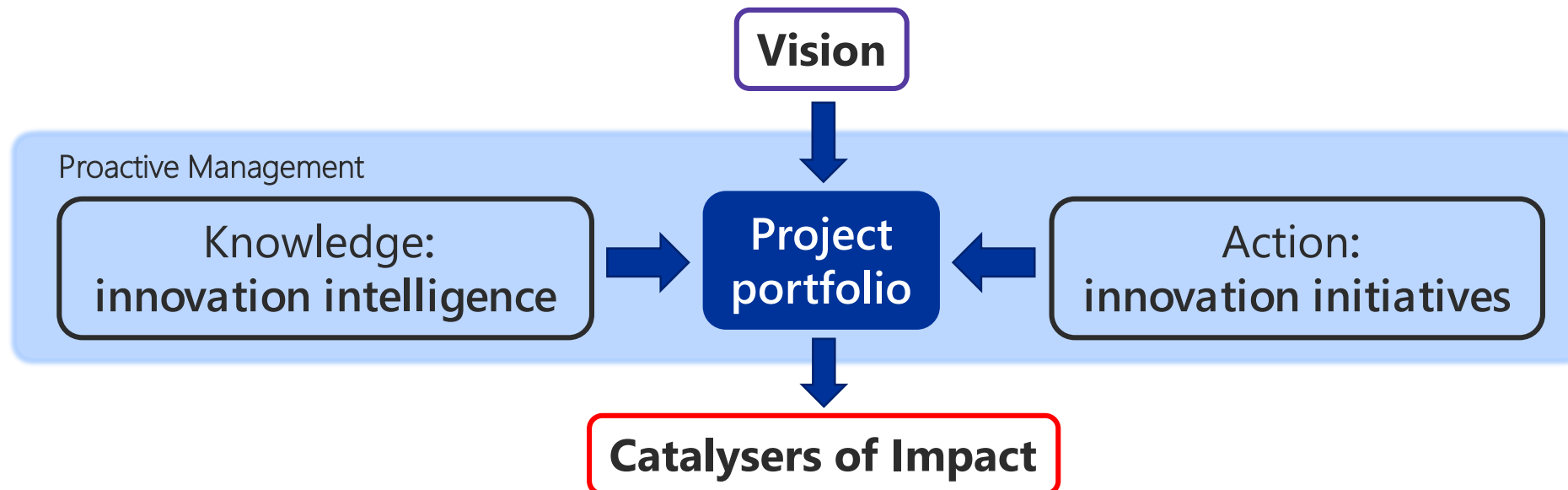
Source:

[European Innovation Council \(EIC\) datahub \(easme-web.eu\)](https://easme-web.eu/)



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 successes



What we do



Identify emerging challenges for Europe's deep-tech roadmap

Science and innovation intelligence activity

Hands on approach

Strategic assessment and clustering of projects
Building strategic intelligence portfolios
Scientific / Business portfolios management

Internal/external ecosystem building

Networking with other programmes and with innovation ecosystem communities
Outreach and organization of events, participation to national events / workshops

EIC
Proactive
Management

Guiding principles for selection of challenges



High innovation potential and recognized industrial interest/market needs

Relevance for EU technological autonomy and expected economic/societal implications

Synergies with other Horizon EU programmes

Non incremental research opportunities
(Pathfinder)

EU positioning in the global innovation ecosystem and critical mass of EU stakeholders/researchers

Process of Selection (Methodology)



Programme Manager's Role(s)

Initiation

PMs competences and know-how

Foresight reports, key scientific literature assessment

Overview of ERC/EIC funded projects and related innovation/research trends

Guidance

EIC internal brainstorming for preliminary challenges definition

Structured interviews with selected scientists and key experts

Outcome

Assessment of Horizon EU funding programmes/topics

Challenges





Programme Managers overlook different portfolios of projects

EIC Thematic
Portfolios

EIC Challenge-
based
Portfolios

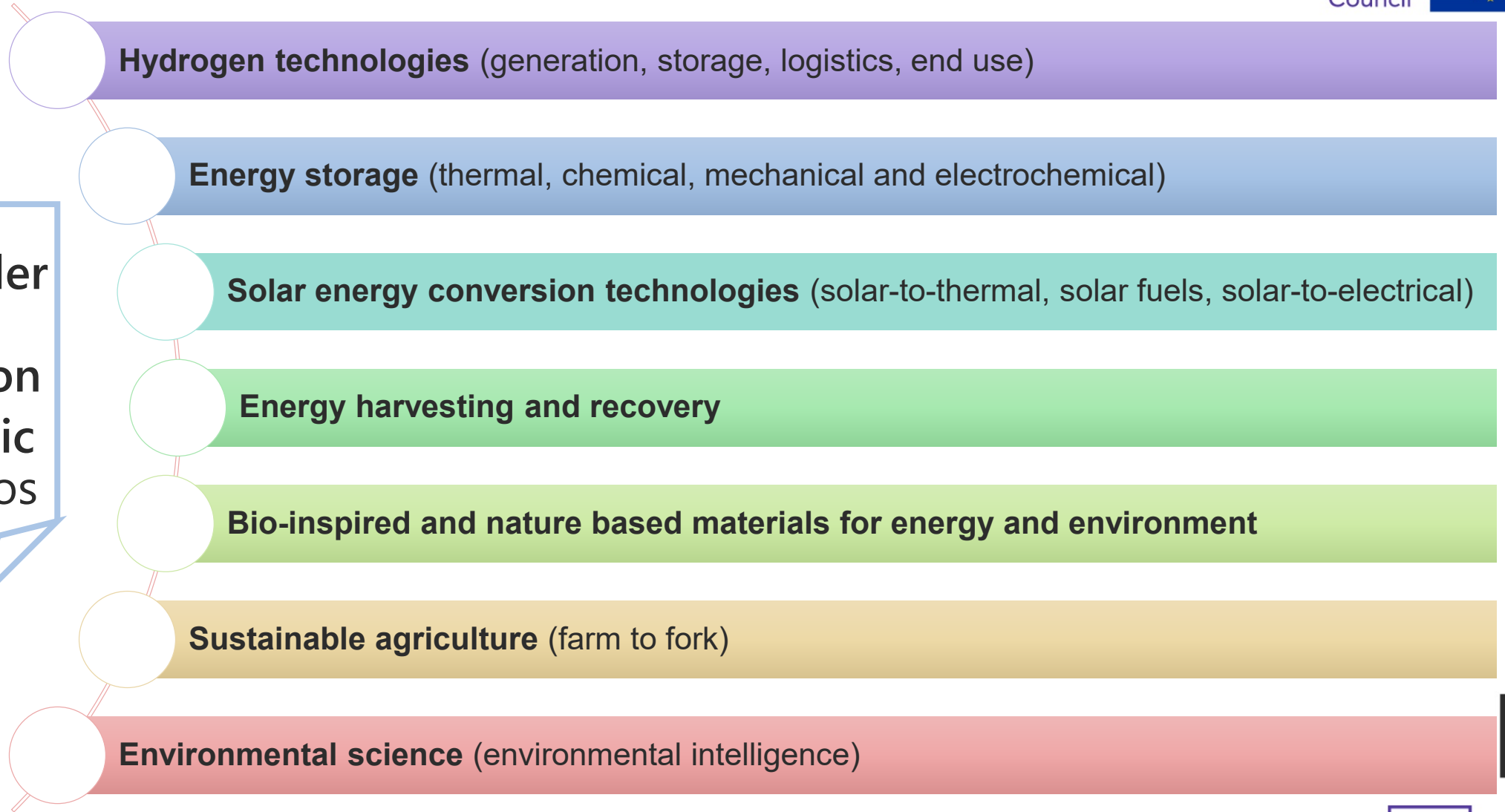


Portfolios are initially centred on Pathfinder, but can be extended with Transition and Accelerator Actions, or with non-EIC funded ones.

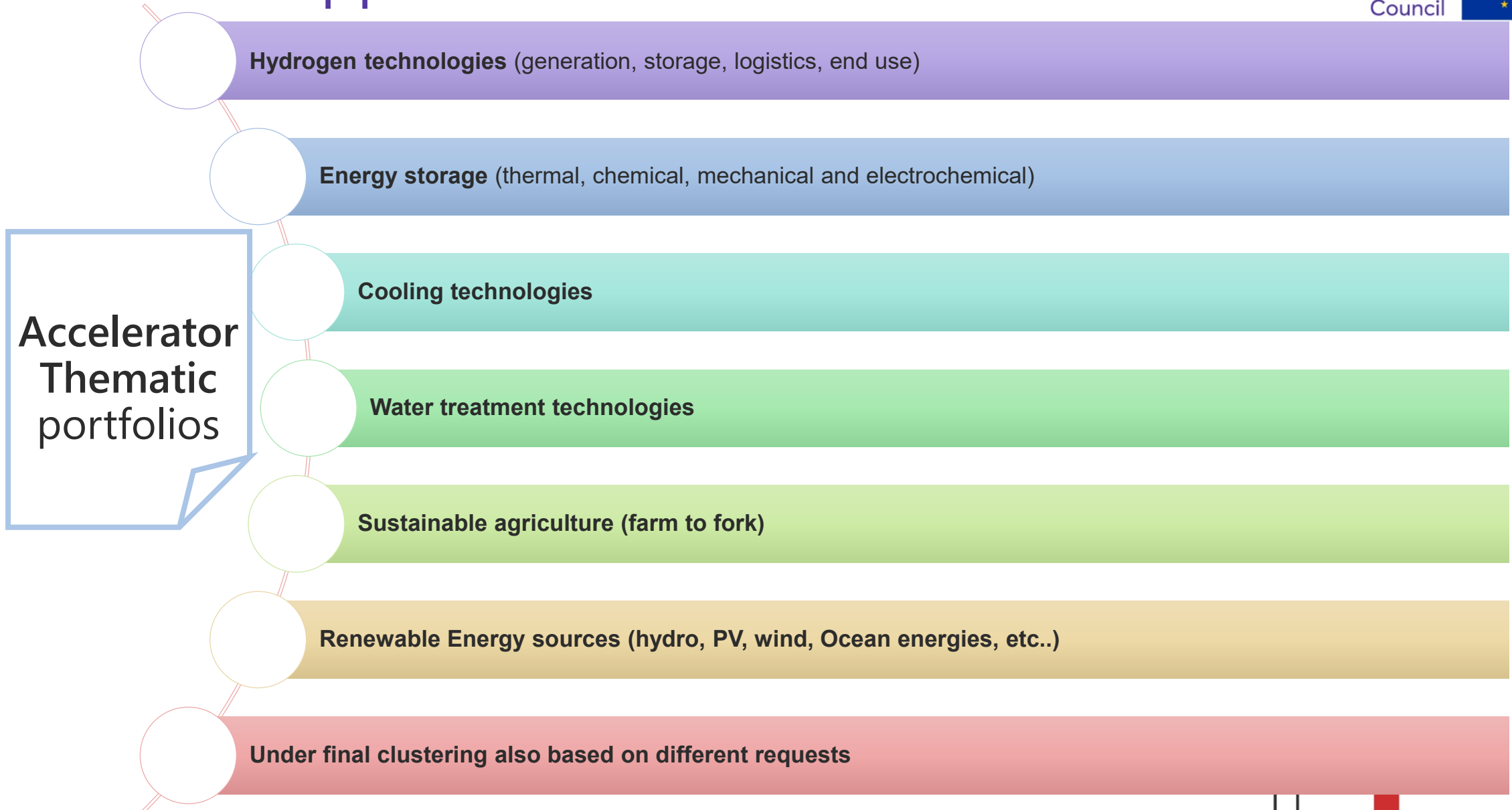
Portfolios approach



Pathfinder
and
Transition
Thematic
portfolios



Portfolios approach



Portfolios approach



2021 EIC WP Pathfinder Challenge-based call



Novel routes to green hydrogen production

GOAL: to **develop novel processes and technologies to produce Green H₂**, at different scales (distributed or centralized approaches) and with higher flexibility, entirely based on renewable sources and using toxic free, **non-critical raw materials**. It focuses on the potential of new biological, chemical and physical routes for Green H₂ production adopting **process circularity**, possibly including the **co-production** of decarbonized chemicals and the **integration** with existing technologies at system and process level.

OUTCOME: a **proof of concept** or **lab-scale validated innovative Green H₂ production technology**

TARGET: support the development of innovative technologies and value chains for Green H₂ production, including both centralized and distributed solutions, for transport, industrial or residential sector

Some Hands-on / content-wise activities



Scientific:

- Comparison of different hydrogen storage technologies
- Evaluation of the system integration of H2 technology (industrial symbiosis, etc..)
- Pathfinder challenge based proposal on Renewable H2 production routes

Business

- Stakeholders engagement meeting (corporates, financial investor, etc..)
- Innovation deal on RFNBO Guarantee of origin

Networking

- Meeting with different EU, national, regional initiatives in the H2 economy
- Joining of different scientific events
- EIC Summit: discussion between EIC funded projects / scientists / VCs
- Discussion with ERRIN to link regional projects with EIC funded projects (thematic ecosystem to promote EU thematic initiative)

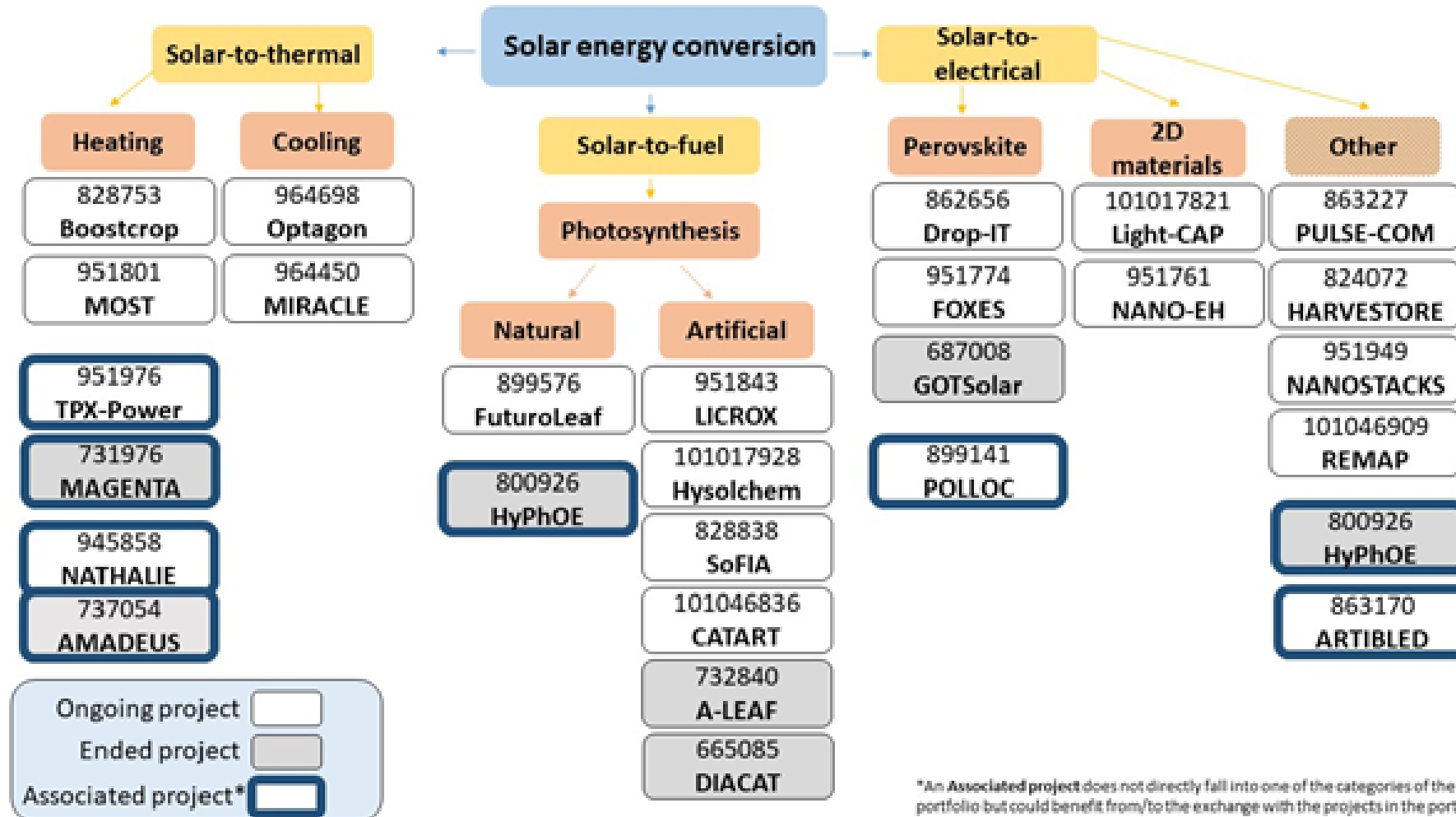
Portfolios approach



Solar Energy Conversion



Solar Energy Conversion Portfolio



*An Associated project does not directly fall into one of the categories of the portfolio but could benefit from/to the exchange with the projects in the portfolio

Some Hands-on / content-wise activities



Scientific:

- Certification issues with JRC on Perovskite solar cells
- Light absorbing materials without CRM
- System integration of some technologies (indoor PV, solar fuels)

Business

- Stakeholders engagement meeting (corporates, financial investor, etc..)
- Infrastructure for scale up of nanomaterials facilities/experiences

Networking

- Innovation intelligence activities looking at other EU initiatives in the field
- Joining of different scientific events
- Discussion with ERRIN to link regional projects with EIC funded projects (thematic ecosystem to promote EU thematic initiative)

Cluster 5 Work programme - overview



**Destination 1 –
Climate science**

**Destination 2 –
Cross-cutting
solutions**

Batteries

Cities

Breakthrough
technologies

Citizen and
stakeholder
engagement

**Destination 3 –
Energy supply**

Renewable
energy

Energy system,
grids and
storage

CCUS

Cross-cutting
activities

**Destination 4 –
Energy demand**

Buildings

Industry

**Destination 5 -
Clean and
competitive
solutions for all
transport modes**

Zero-emission
road transport

Aviation

Waterborne
transport

Transport-related
health and
environmental
issues

**Destination 6 -
Transport and
Smart Mobility
services**

Connected,
Cooperative and
Automated
Mobility

Multimodal and
sustainable
transport systems
for passengers and
goods

Safety and
resilience

Climate science

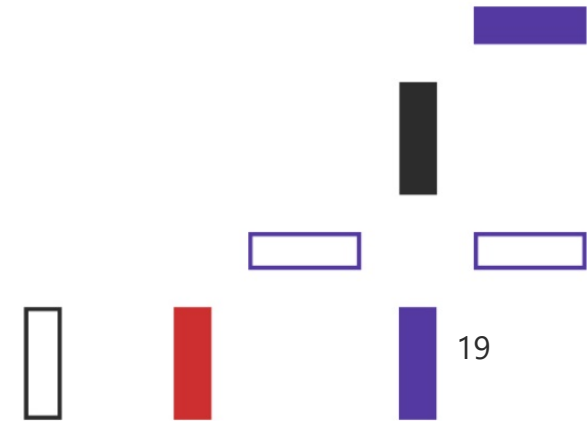




Synergies with other HEU programmes and Cluster 5

Participation to Cluster 5 co-creation groups: energy storage & grids, breakthrough technologies, RES, CCUS, buildings

Synergies with H2020 partnerships: Clean H2, Clean aviation and interaction with other programmes (IPCEI, H2 valleys, MS activities)





Thank you!

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