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finanse edilmektedir



TURKEY<sub>in</sub>  
**HORIZON 2020**  
COOPERATION. INNOVATION. COMPETITIVENESS

Technical Assistance for Turkey in Horizon 2020 Phase-II  
EuropeAid/139098/IH/SER/TR

# Turkey in Horizon 2020 II

## Introduction to EIE Work Program under Horizon Europe

Prof. Christopher Brewster, TNO & Maastricht University

**Focused Group Training 16 on Horizon Europe EIE Work Programme:  
EUROPEAN INNOVATION ECOSYSTEMS: CONNECT- SCALEUP**

**24-25 Feb 2022**



REPUBLIC OF TURKEY  
MINISTRY OF INDUSTRY  
AND TECHNOLOGY



# About Christopher

- Professor at Maastricht University, Netherlands
  - “Application of emerging technologies”
  - Institute of Data Science -  
<https://www.maastrichtuniversity.nl/ids>
- Senior Scientist, TNO, Netherlands
  - Big research laboratory – see <https://www.tno.nl/en/>
- Much experience in EC grants, since 1990, currently responsible for over €3M of EC funding
- For more: <https://www.linkedin.com/in/cabrewster/>
  - <https://scholar.google.com/citations?user=0MvzoD8AAAAJ&hl=en>

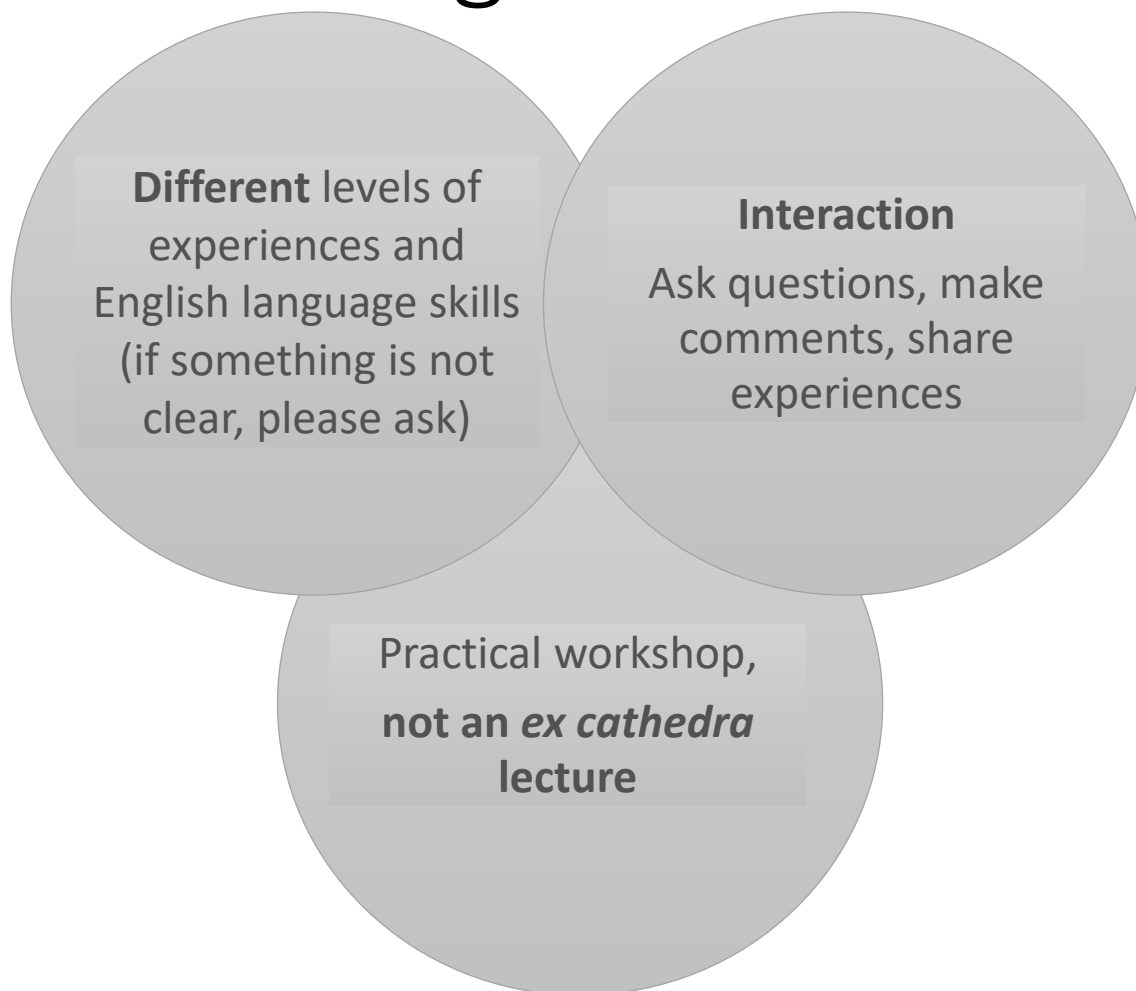


- <https://h2020eureka.eu/>
- <https://ploutos-h2020.eu/>
- <https://ditect.eu/>
- <https://blockis.eu/>

# Experience

- **Research projects** in FP6, FP7, Horizon 2020 and Horizon Europe, particularly in regards to
  - Concept
  - Network
  - Scientific vision
- **Academic publications** over 70 papers, articles, etc.
- **Consulting** especially on behalf of TNO for SME/start-ups, in ICT and agriculture and food.

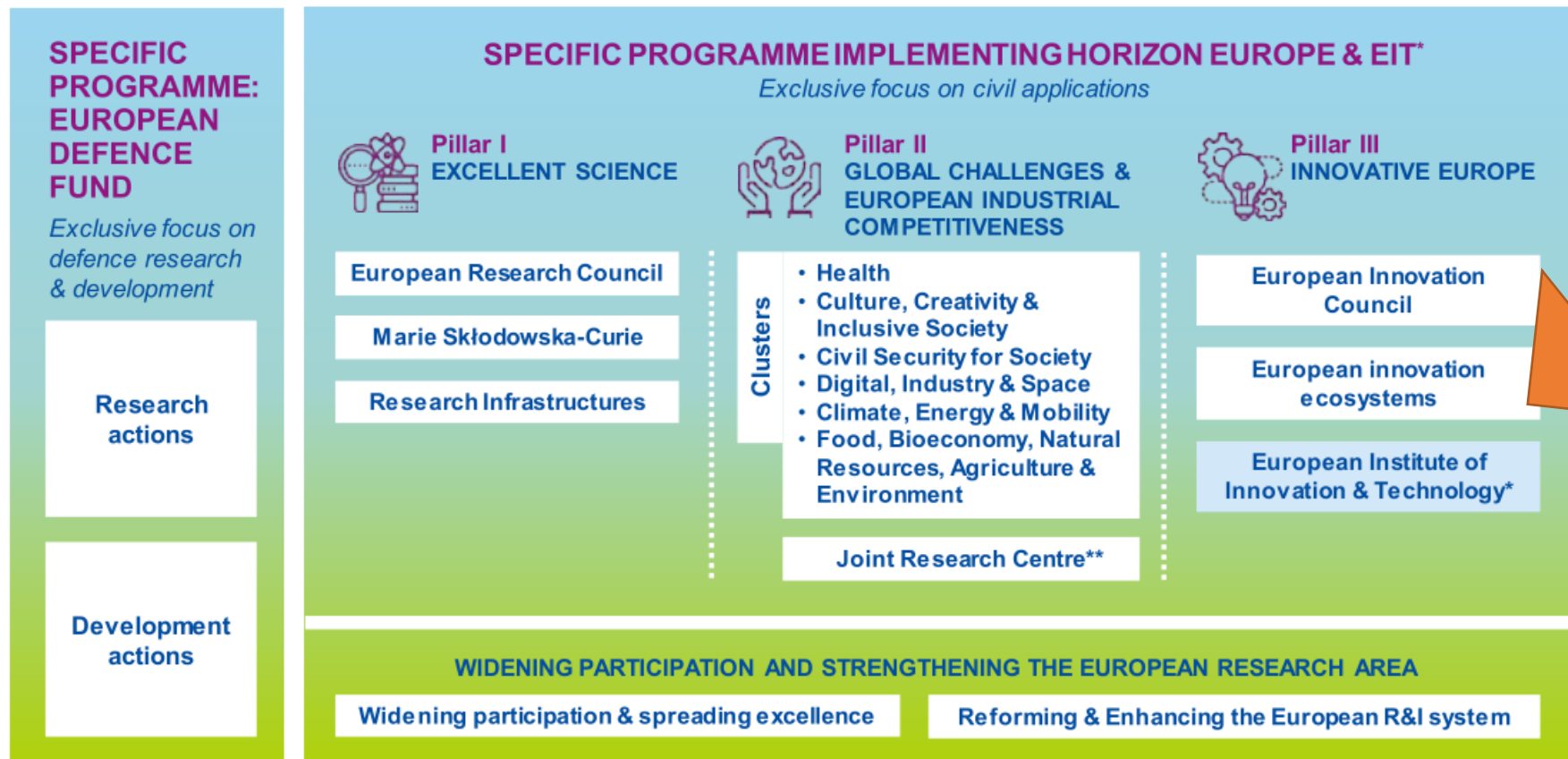
# How we do things ...



# Topics for this session

- EIE WP - what is it all about?
- Identifying key documents/policies/networks
- Key expectations
- Key focus points

# Horizon Europe overall – 2021-2027



**Total funding is €95 Billion over 7 years**

# Practical guides – Starting Points ....

Useful starting point

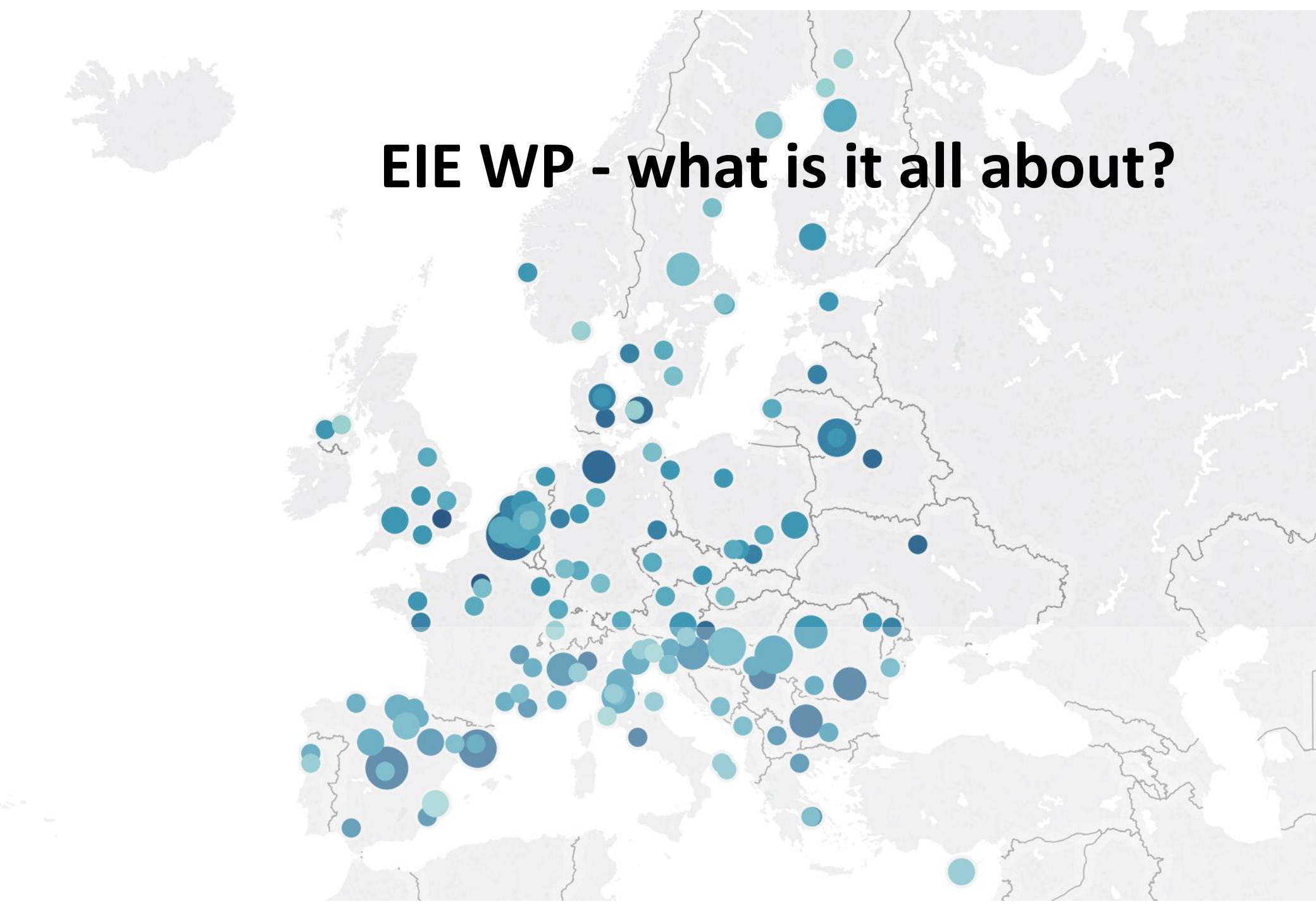
Available on EC websites

[https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/european-innovation-ecosystems\\_en](https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/european-innovation-ecosystems_en)

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents;programCode=HORIZON>

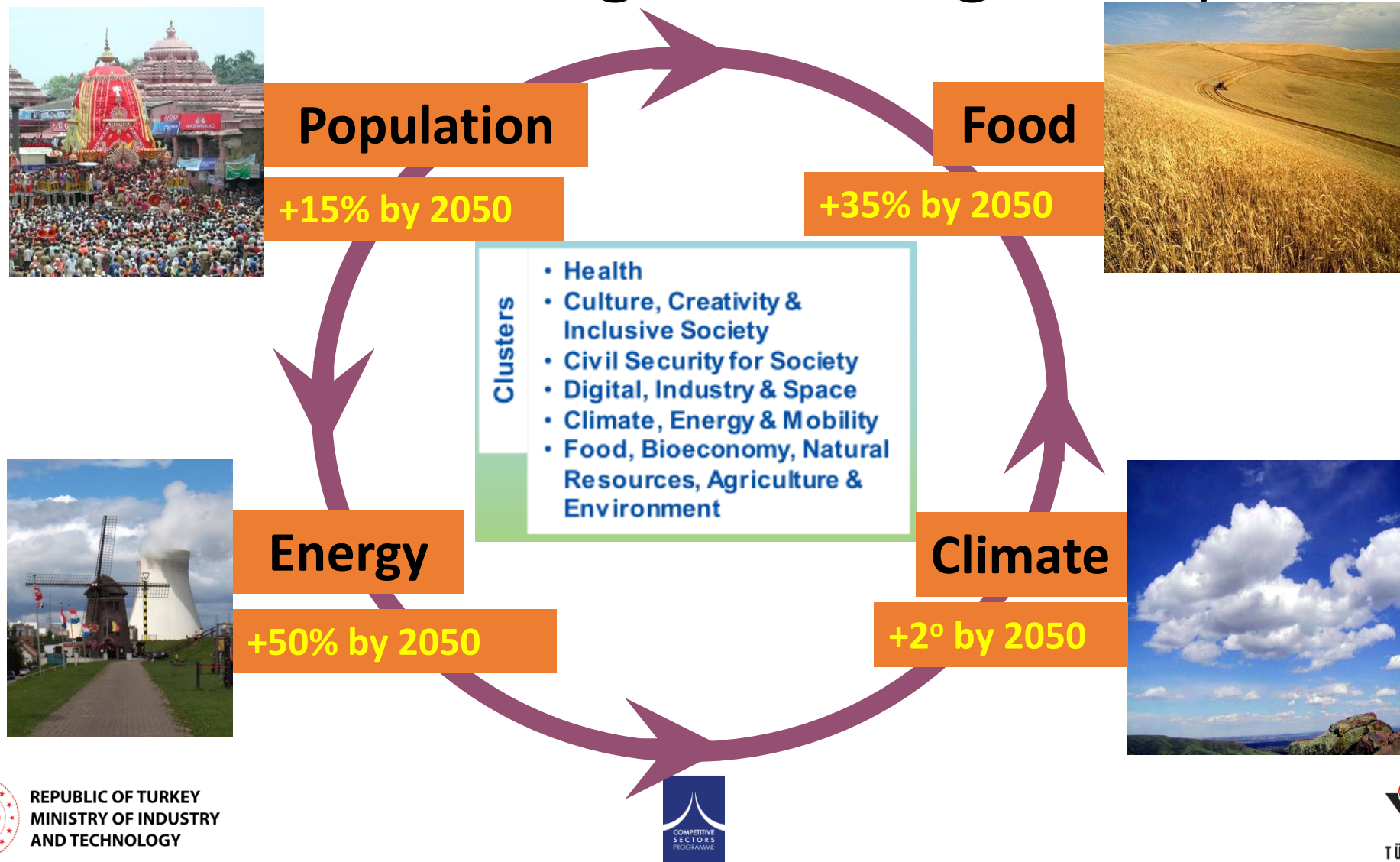


# EIE WP - what is it all about?



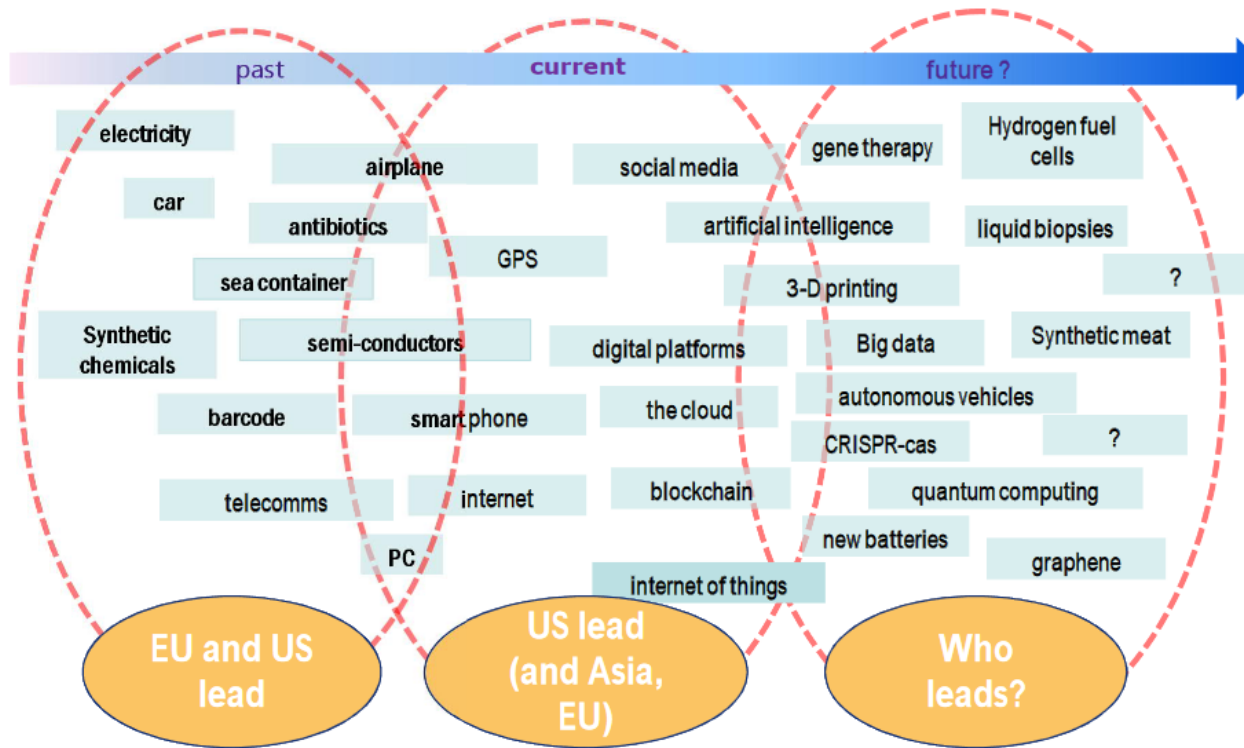


# Societal Challenges faced globally



# What the future brings?

## Who will lead the next wave of breakthrough and disruptive innovation?



**revolutionary  
deep – tech  
solutions  
will impact like  
never before  
on the way we  
do business**

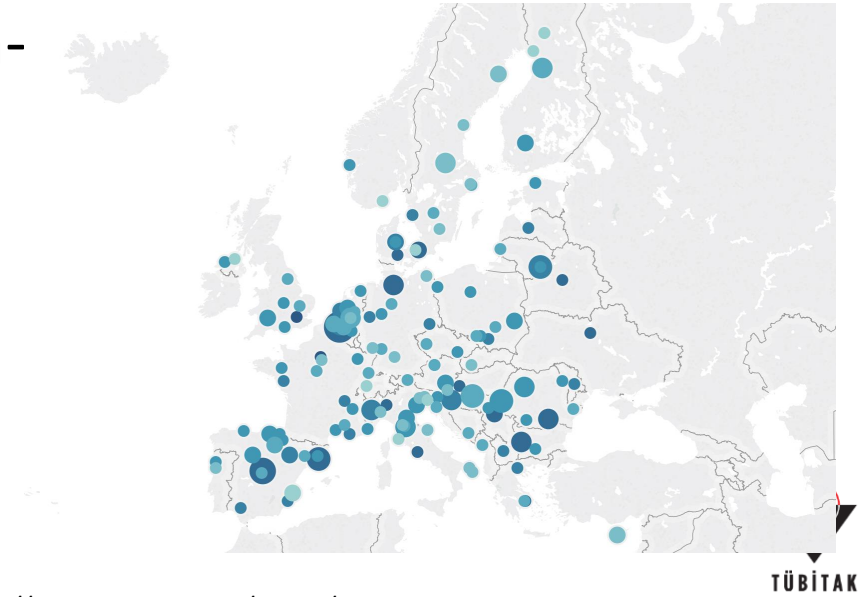
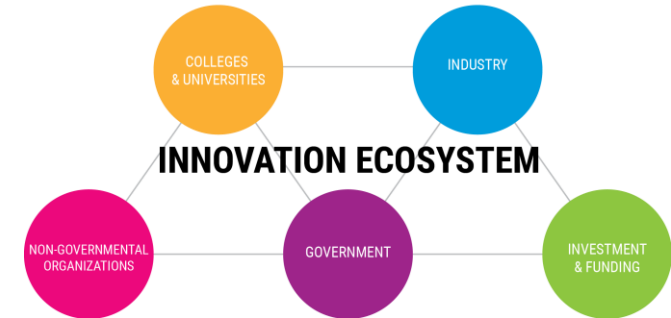
**Our vision:**  
...to be  
deployed by  
start-ups that  
originate and  
scale up in EU...



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

# What is an Innovation Ecosystem?

- An innovation ecosystem includes universities, government, corporations, startup accelerators, venture capitalists, private investors, foundations, entrepreneurs, mentors, and the media.
- Local, regional, national and supra-national agencies should play a role.
- Create value in the larger ecosystem by transforming new ideas into reality through access and financial investment



**"It takes a village to raise a child, and it takes an ecosystem to scale an innovation."**



Research Institutions



Incubators and  
Accelerators



Angel Investors



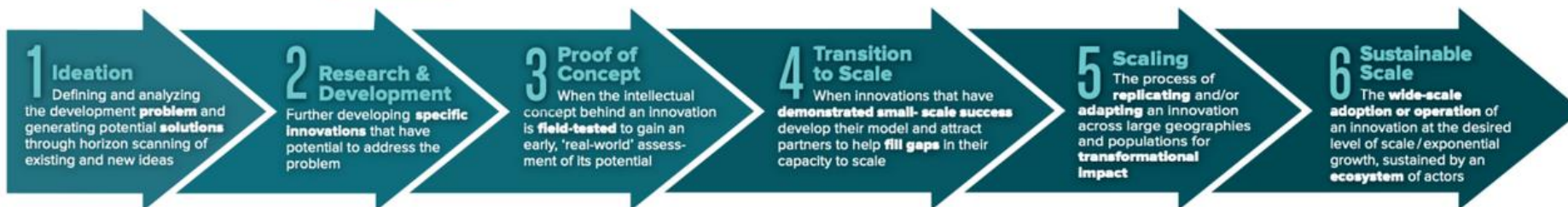
Government



Venture Capitalists



Private Equity Firms



Friends and Family



Civil Society  
Organisations



Development  
Agencies



Professionals  
(Human Capital)



Startups &  
Enterprises



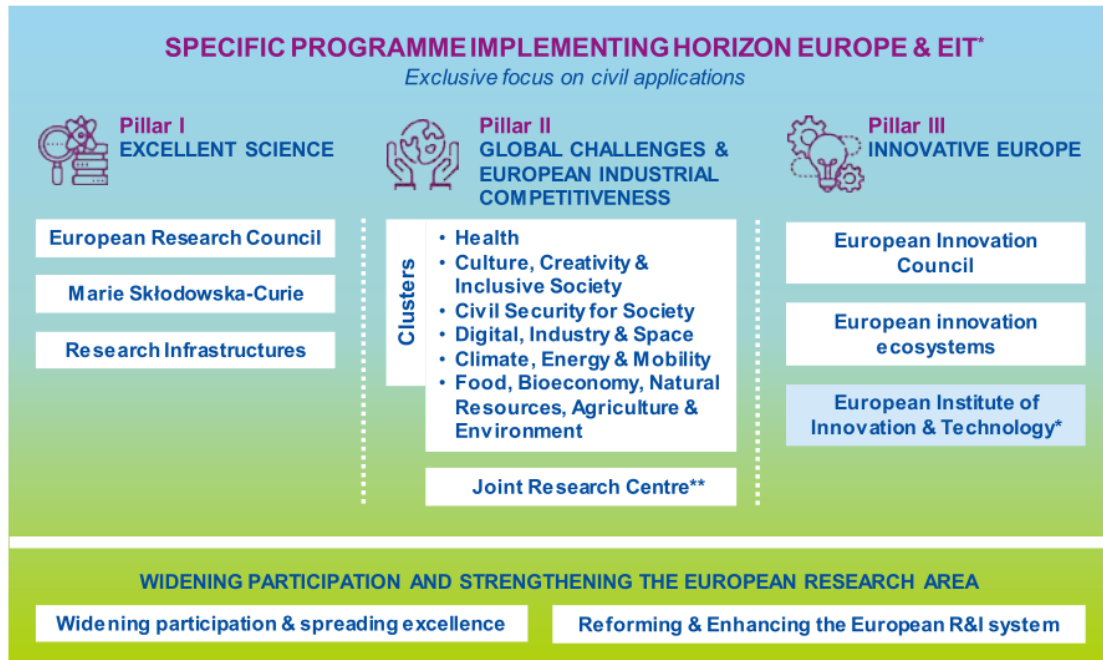
Market Facilitators  
and Intermediaries



Private Companies



# Where is EIE positioned within HE?



## European Innovation Council

- Support to innovations with breakthrough and market creating potential

€ 10.5 billion, incl. up to € 500 million for ecosystems

## European innovation ecosystems

- Connecting with regional and national innovation actors

## European Institute of Innovation and Technology (EIT)

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

€ 3 billion

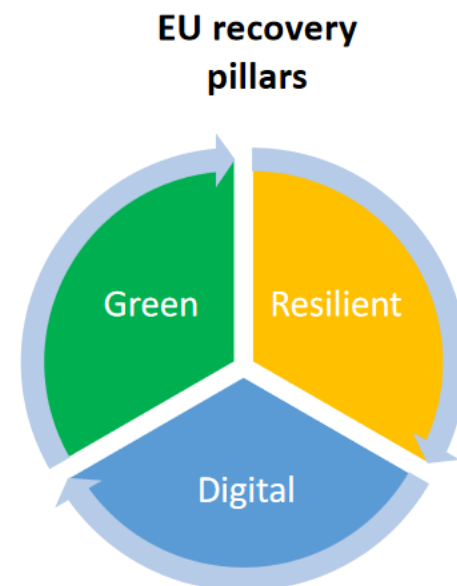


**Pillar 3 – Open Innovation:**  
stimulating market-creating breakthroughs and ecosystems conducive to innovation

# Why Innovation Ecosystems?

## New challenges!

- **Boost productivity, jobs, growth, social welfare**
- **Global societal challenges:** *complex; not solved in isolation,*
- **EU strategic goals of new Commission:**
  - Post-COVID19 recovery*
  - Green, Digital, Resilient Europe*
  - Circular Economy, energy, health,*
  - Artificial Intelligence, New Industrial and SMEs Strategy*
- **New actors come in!** *(startups! Investors, Civil Society)*
- **Focus on radical & disruptive innovation!**



# Innovation Ecosystems: definition & areas of intervention

## **EC Official Definition:** [Horizon Europe proposal (Article 2.30)]

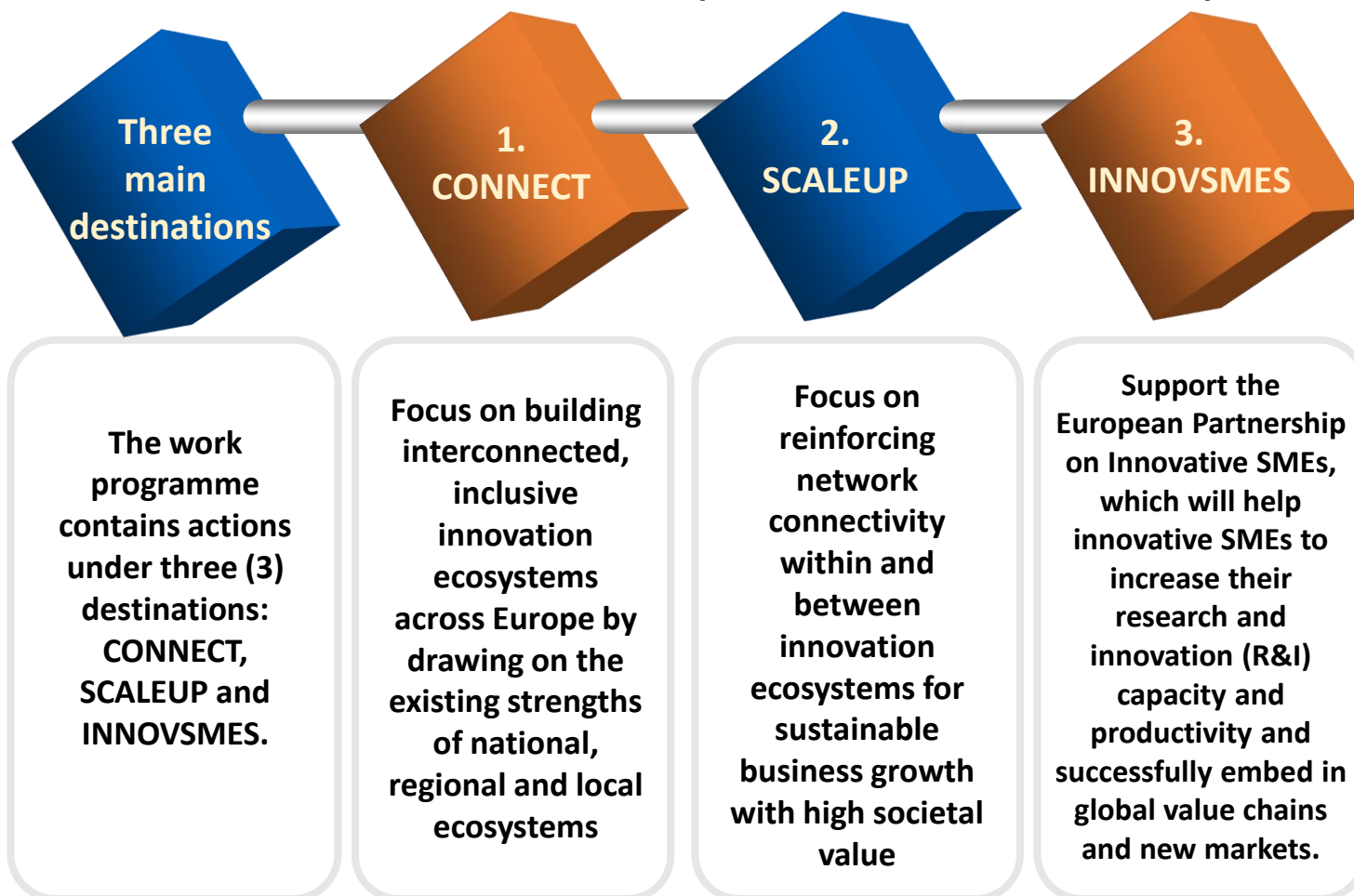
“Innovation ecosystem” means an ecosystem that **brings together at EU level actors or entities** whose functional goal is to enable technology development and innovation. They encompass **relations** between:

- **material resources** (such as funds, equipment and facilities)
- **institutional entities** (such as higher education institutions and support services, RTOs, companies, venture capitalists and financial intermediaries) and
- national, regional and local **policy-making** and **funding entities**.

## **Areas of intervention:** [Horizon Europe legislation (Annex 1.3.b)]

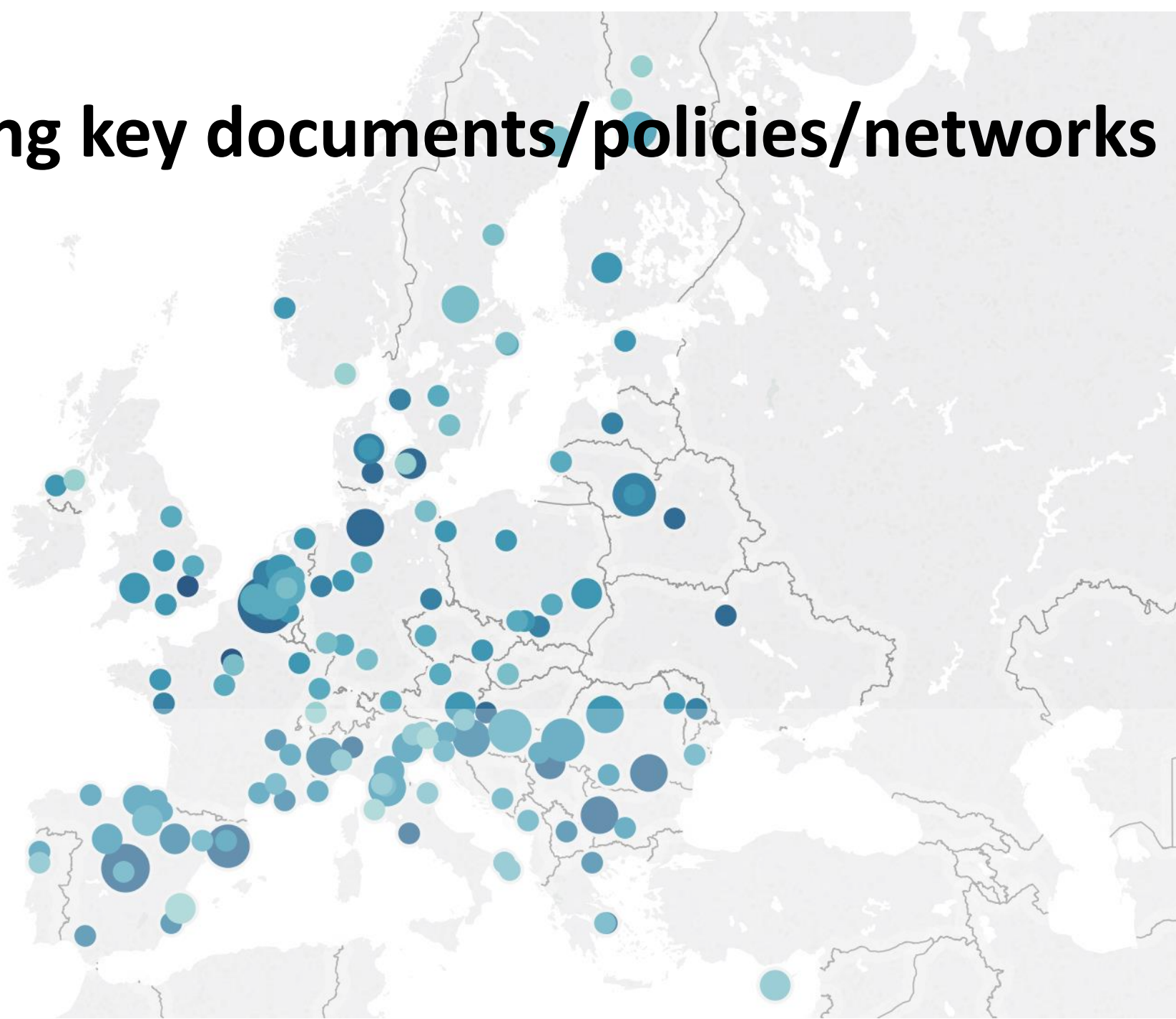
Activities will include in particular **connecting**, where relevant in cooperation with the **EIT**, with national and regional innovation actors and supporting the implementation of **joint cross-border innovation programmes** by Member States, Regions and associated countries, from the **exchange of practice and knowledge on innovation regulation to the enhancement of soft skills for innovation to research and innovation actions, including open or user-led innovation**, to boost the effectiveness of the European innovation ecosystem. This should be implemented in synergy inter alia with the **ERDF support** for innovation eco-systems **and interregional partnerships around smart specialisation topics**.

# Main destinations (i.e. themes)





# Identifying key documents/policies/networks



# Work Programme itself



EN

Horizon Europe

Work Programme 2021-2022

10. European Innovation Ecosystems (EIE)

(European Commission Decision C(2021)4200 of 15 June 2021)

Horizon Europe - Work Programme 2021-2022  
European Innovation Ecosystems (EIE)

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[https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2021-2022/wp-10-european-innovation-ecosystems\\_horizon-2021-2022\\_en.pdf](https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2021-2022/wp-10-european-innovation-ecosystems_horizon-2021-2022_en.pdf)

# Horizon Europe Strategic Plan 2021-2024

Guide to the political priorities of the Commission with a focus on “a climate-neutral and green Europe, fit for the digital age, where the economy works for the people”

Co-design process resulted in **four** key strategic orientations, supported by 15 impact areas

[https://ec.europa.eu/info/sites/default/files/research\\_and\\_innovation/funding/documents/ec\\_rtd\\_horizon-europe-strategic-plan-2021-24.pdf](https://ec.europa.eu/info/sites/default/files/research_and_innovation/funding/documents/ec_rtd_horizon-europe-strategic-plan-2021-24.pdf)



# Key strategic orientations of HE 21-24

1

Promoting an open strategic autonomy by leading the development of key digital, enabling and emerging technologies, sectors and value chains

to accelerate and steer the digital and green transitions through human-centred technologies and innovations;

2

Restoring Europe's ecosystems and biodiversity, and managing sustainably natural resources

to ensure food security and a clean and healthy environment;

3

Making Europe the first digitally enabled circular, climate-neutral and sustainable economy

through the transformation of its mobility, energy, construction and production systems;

4

Creating a more resilient, inclusive and democratic European society,

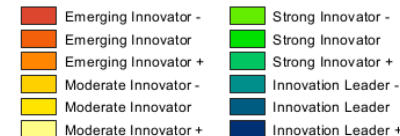
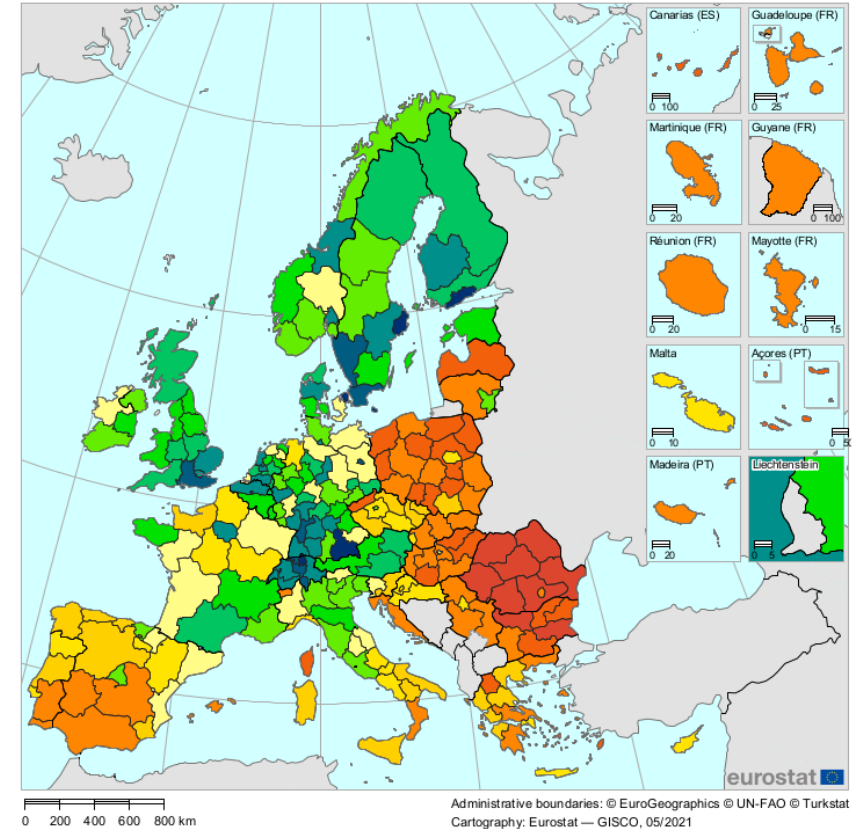
prepared and responsive to threats and disasters, addressing inequalities and providing high-quality health care, and empowering all citizens to act in the green and digital transitions.

# Regional innovation scoreboard

Regional extension of the **European innovation scoreboard (EIS)**, assesses the innovation performance of European regions on a limited number of indicators.

The new edition of the scoreboard shows that innovation performance has increased for 225 regions out of the total of 240 regions over the period since 2014

[https://ec.europa.eu/info/research-and-innovation/statistics/performance-indicators/regional-innovation-scoreboard\\_en](https://ec.europa.eu/info/research-and-innovation/statistics/performance-indicators/regional-innovation-scoreboard_en)





# The importance of Networks

- You know this! In everyday life and in business
- For businesses the relevant network includes other entrepreneurs and people working in customer and supplier companies, business services providers, finance professionals.  
**WITHIN YOUR COUNTRY AND BEYOND**
- Key resource for stating out and scaling up.
- Many kinds of networks (workplace, market, professional, cultural etc.)  
..here the focus is on **international networks**



# Who can help? Clusters!

*55 % of internationally active SMEs agree to at least one of the following four statements*

## **WITH SUPPORT**

they internationalised  
earlier than they  
would have done  
otherwise.

## **WITHOUT SUPPORT**

they would  
not have  
internationalised at  
all.

## **WITH SUPPORT**

they engaged  
in additional  
internationalisation  
activities.

## **WITHOUT SUPPORT**

they would not  
gain insight  
into opportunities  
in foreign markets.

**Networks expand the capacity of individual SMEs to internationalise.**

SMEs hosted in clusters and business networks can benefit from contacts, business connections and formal and informal knowledge flowing within a cluster and a business network, as well as from customised services provided by cluster and network organisations.

# Enterprise Europe Network

EEN helps businesses innovate and grow on an international scale. It is the world's largest support network for small and medium-sized enterprises (SMEs) with international ambitions. Active in more than 60 countries worldwide. Brings together 3,000 experts from more than 600 member organisations.

Member organisations include:

- Technology poles
- Innovation support organisations
- Universities and research institutes
- Regional development organisations
- Chambers of commerce and industry

SUPPORT FOR BUSINESS  
INNOVATION



ADVICE FOR  
INTERNATIONAL  
GROWTH



INTERNATIONAL  
PARTNERSHIPS





# European Cluster Collaboration Platform



Make efficient use of networking instruments.  
Search/find potential partners and opportunities.



Develop collaboration trans-nationally (within  
Europe) and internationally (beyond Europe).



Support the emergence of new value chains through  
cross-sectorial cooperation.



Access the latest information on cluster development,  
improve their performance,  
increase competitiveness.

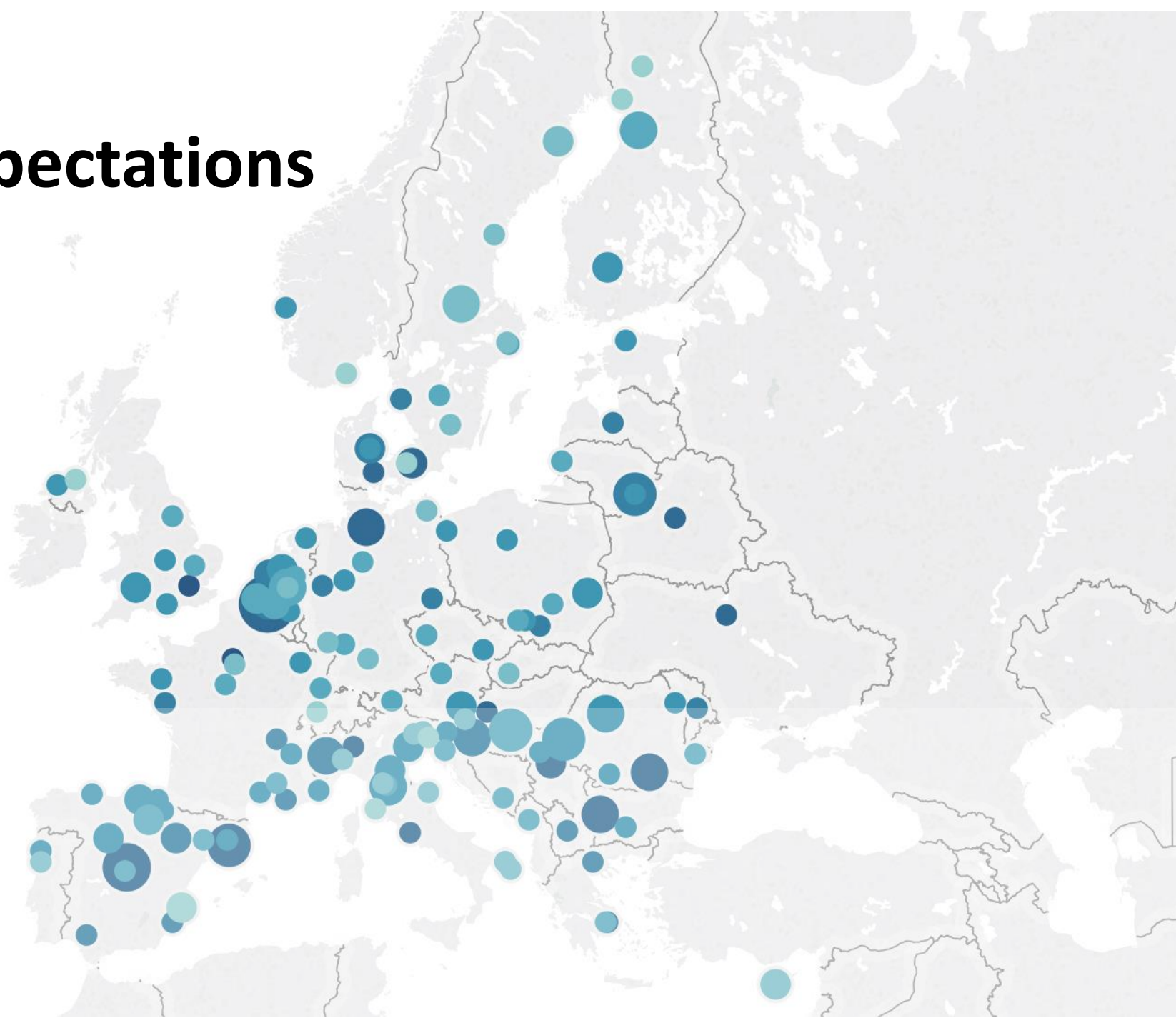
An online hub for cluster stakeholders  
(cluster organisations, policymakers and  
other related stakeholders from the  
cluster ecosystem) and the reference one-  
stop-shop for stakeholders in third  
countries aiming to set up partnerships  
with European counterparts.



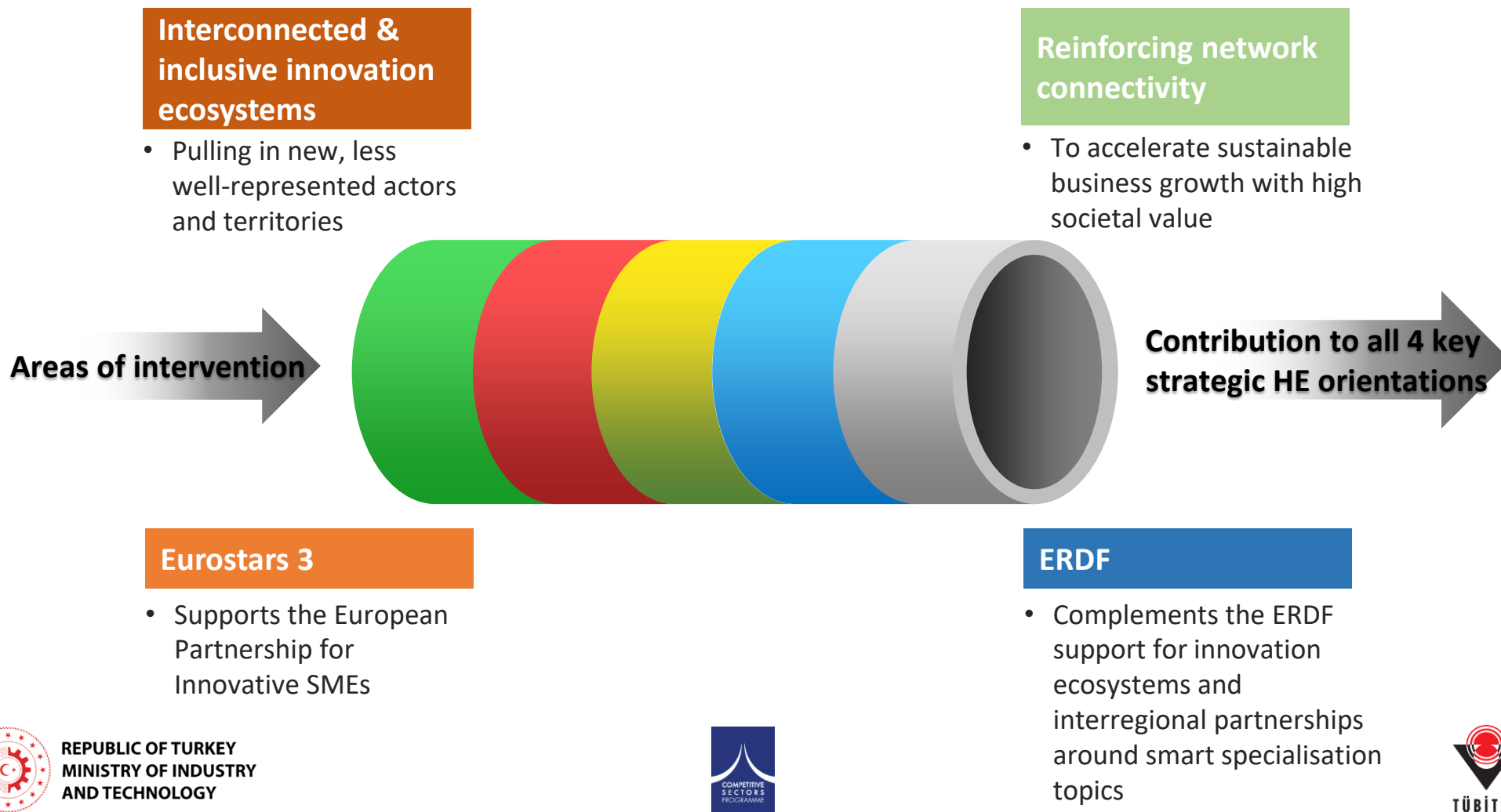
**EUROPEAN  
CLUSTER COLLABORATION  
PLATFORM**  
.eu



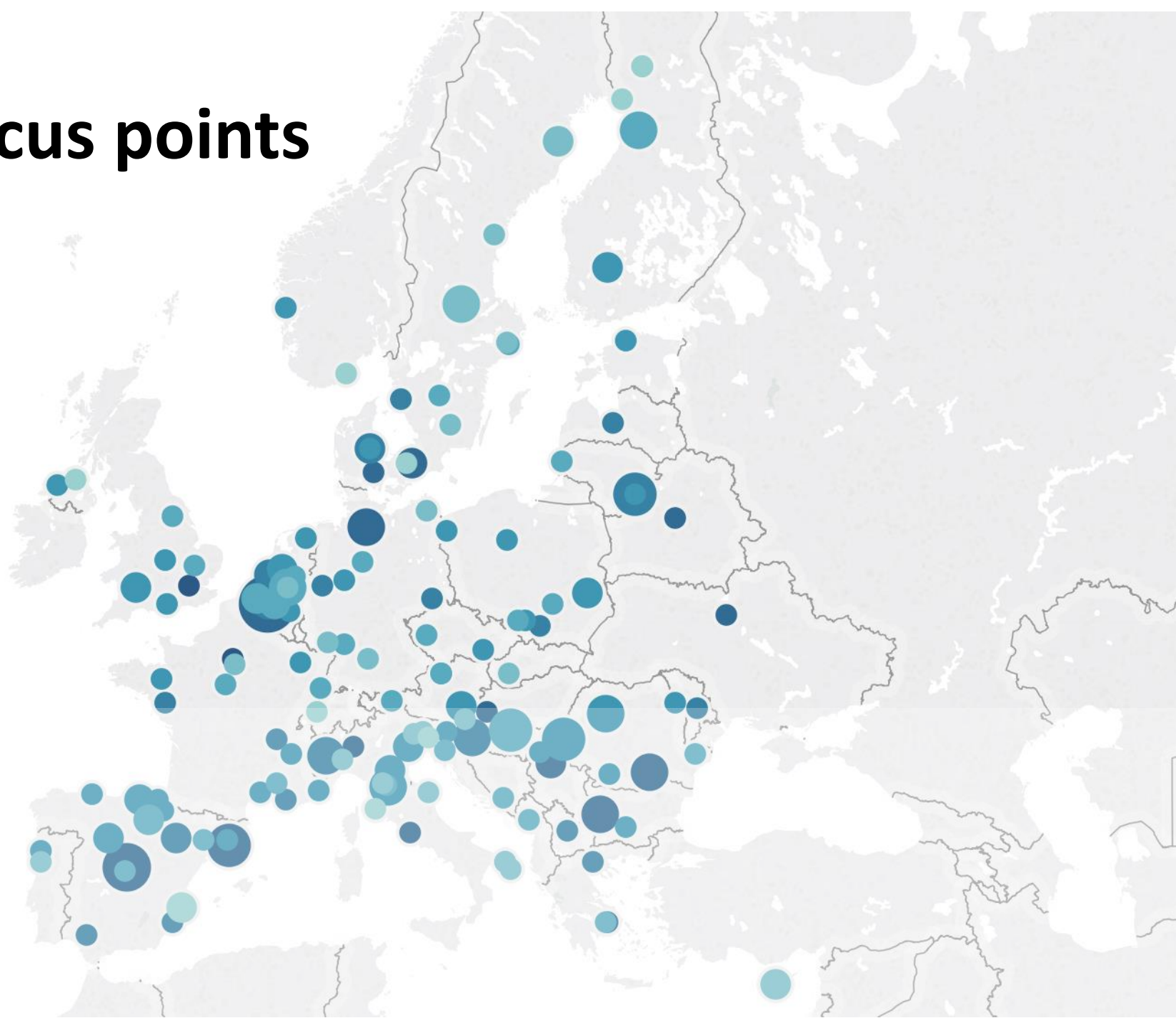
# Key expectations



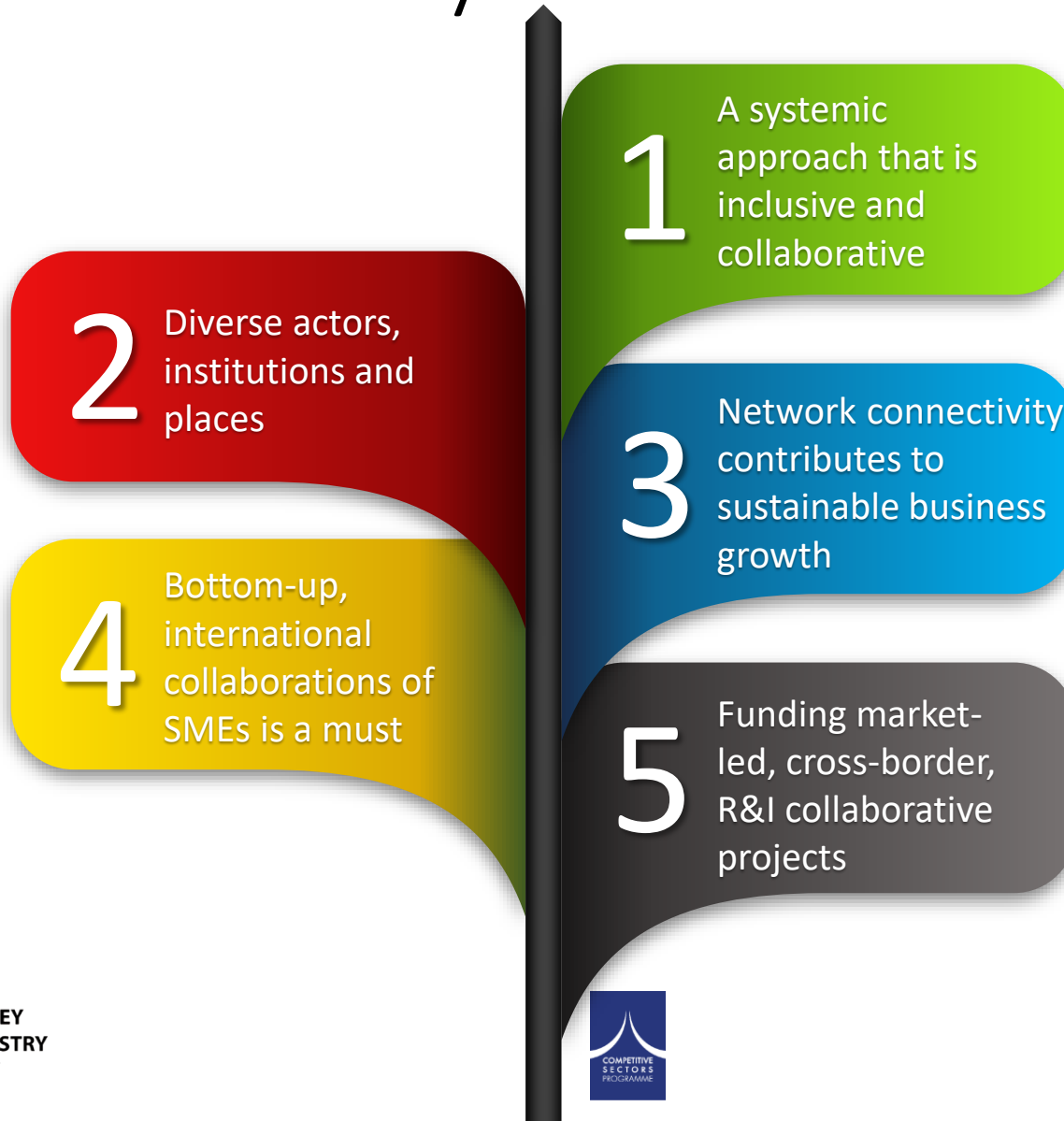
# EIE pipeline



# Key focus points



# Where to aim your binoculars?





# Coffee / tea time





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