

# The European Commission's science and knowledge service

Joint Research Centre

## **S3P-Energy,** supporting Smart Specialisation in energy

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*H2 and Fuel Cells in maritime applications*  
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European  
Commission

# Smart Specialisation



*Promote the efficient and effective use of public investment in research. Concentration of funding*

*Boost regional innovation → Enabling regions to focus on their strengths.*

*Focus on few targets to increase the impact*

# Smart Specialisation Platforms

## What is?

- S3 Platform to push forward the **smart specialisation** concept
- Assists EU countries and regions to develop, implement and review their Research and Innovation Strategies for Smart Specialisation (**RIS3**).
- Instrument to support **bottom-up** collaboration between businesses and researchers along value chains across the EU
- Build **synergies** with other regional, national and European initiatives (**H2020, COSME, EFSI**, etc)
- 3 Thematic platforms, **Energy, Industrial Modernisation and Agri-food**

# Thematic Smart Specialisation Platform

## Who Benefits?

### - **Managing and public authorities:**

- *Finding synergies between EU funding*
- *Demonstrating Smart Specialisation in their regions*
- *Finding larger public and private investments*
- *Using networks of cities as living labs*

### - **Cluster organisations:**

- *Developing joint visions and investment roadmaps*

### - **Businesses:**



- *Building networks*
- *Access to shared innovation infrastructures*

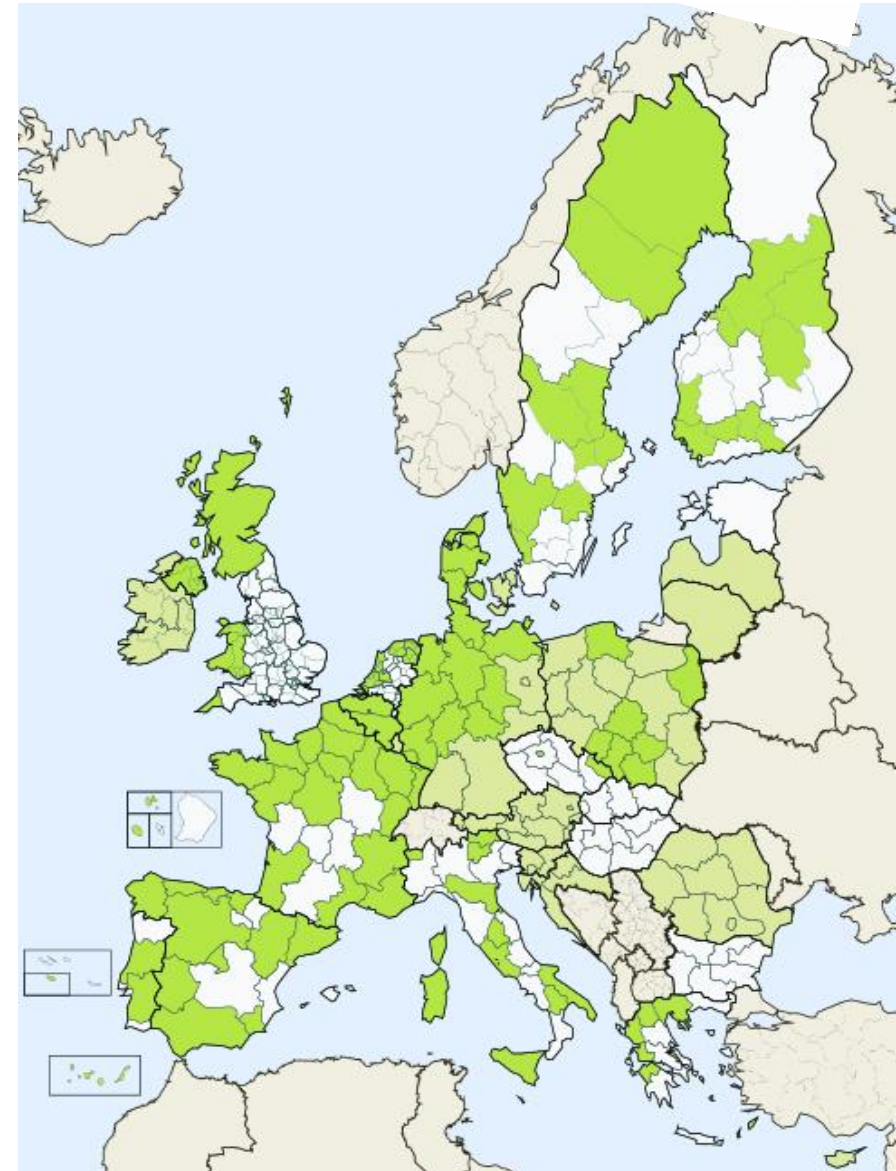
# Why S3P-Energy?

## ***Most popular priority in S3***

*2/3 of all regions have chosen an energy priority.*

- 12 countries
- 100 EU regions
- some both at the national and regional level – e.g. DE, DK, PL

-  EU Countries with Encoded S3 Priorities
-  EU Regions with Encoded S3 Priorities



# S3P-Energy at a glance

## Objectives:

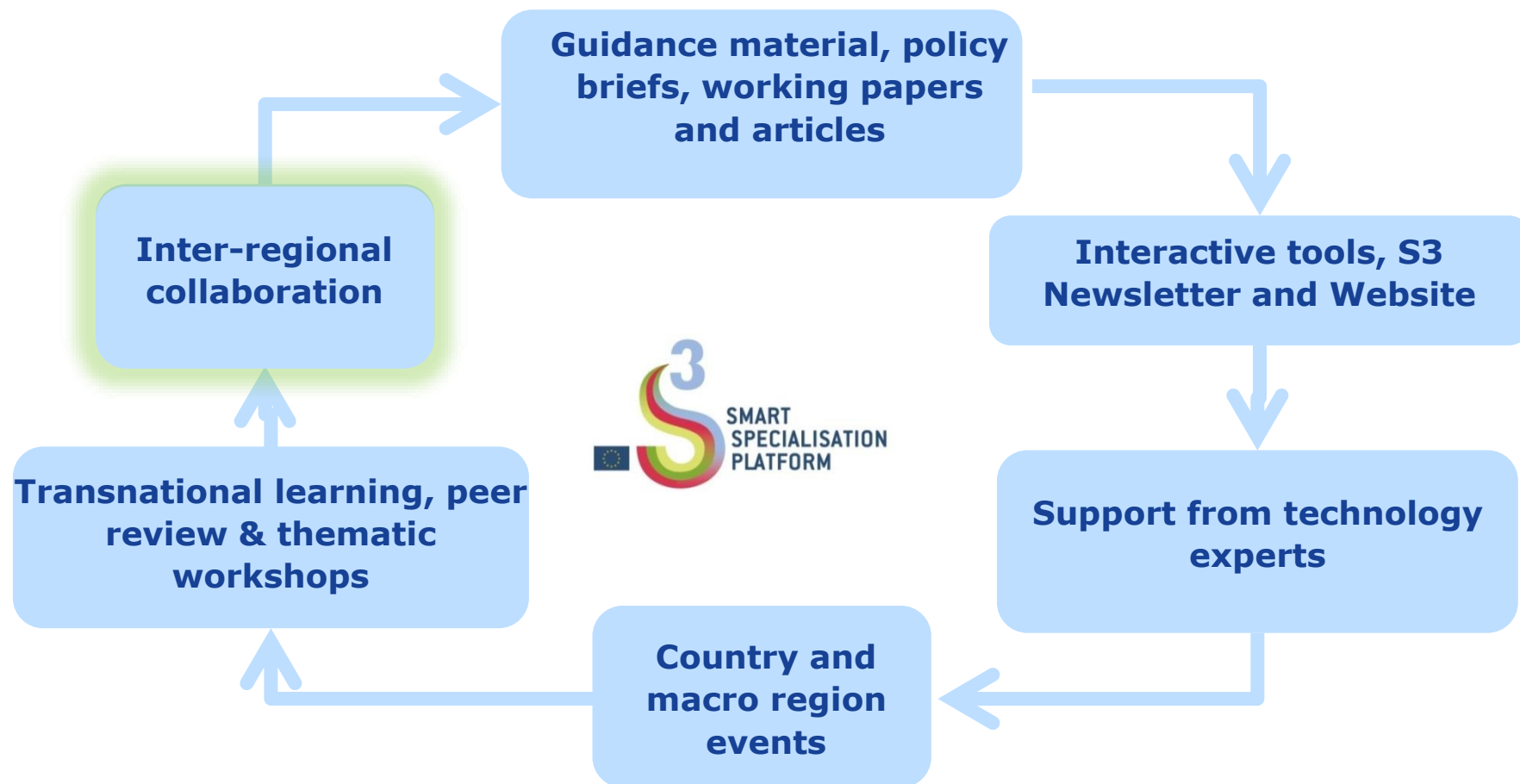
**Support** the development and enhancement of European eco-systems for interregional collaboration based on areas of smart specialisations.

**Facilitate** the exchange of experience, mutual learning and cooperation.

**Prepare** guidance material on the role of regional authorities in co-creating and developing European value chains in key smart specialisation niches.



# S3P on Energy: activities of the platform



<http://s3platform.jrc.ec.europa.eu/s3p-energy>

# Thematic Partnerships

## Key Actions

- Select a **strategic thematic area** linked to a **smart specialisation** priority → **Connect with regions** with similar or related priorities → Ensure **political commitment** to invest in a targeted area
- Support on **clusters and industry platforms** to find out how to accelerate business development and new innovation solutions in the targeted area
- Develop a **roadmap for investment projects** among the partner regions to solve **common challenges** in creating **new value chains**



# S3P-E partnership



<http://s3platform.jrc.ec.europa.eu/s3p-energy>

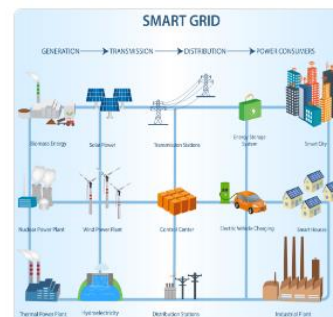
# S3P-E partnerships



**Bioenergy**



**Sustainable  
Buildings**



**Smart Grids**



**Marine  
Renewable  
Energy**

# Thematic Partnerships

## Example

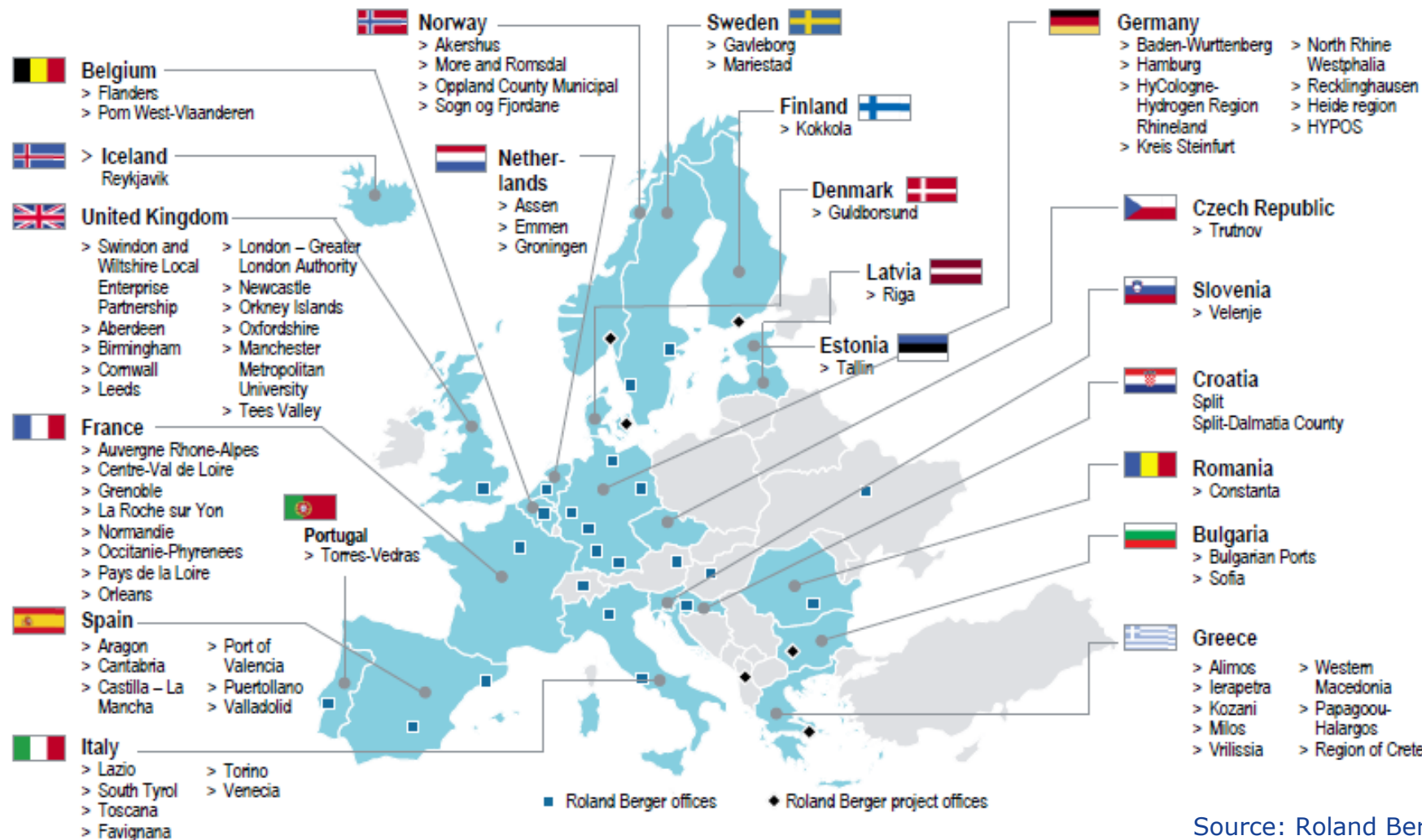
- Partnership "**Efficient and sustainable manufacturing**"
- 69 universities and 80 industrial partners
- Interregional** service model that connect pilot installations
- Support **innovation** in eco-products, processes and business models with pilots and demonstrations
- Validation of high-risk investments in **circular economy** before industrial implementation

# Thematic Partnerships

## Example

- Partnership "**Industry 4.0 for SME** "
- Helping SMEs to integrate **production monitoring systems** in their production line
- Organising SMEs access to **technology facilities** from **different regions**
- SMEs will be able to better assess the validity and relevance of monitoring solutions → **Productivity gains at low cost**

# FCH 2 JU initiative with regions and cities



Source: Roland Berger

# FCH 2 JU initiative and S3P

## Memorandum of Understanding

*Whereas:*

*2) In view of developing **close synergies and interactions with other financing programmes, in particular ESIF** and other financing mechanisms to support **smart specialisation strategies**, the FCH 2 JU wishes to establish bilateral relations with the interested regions or municipalities;*

*3) The Region/City of ( ) is committing to implement policies and measures to meet its environmental goals and places innovation and competitiveness at the heart of its economic development policies over the long term in one or more of the following areas:*

- ***Regional innovation strategy for a smart specialisation***

# FCH 2 JU initiative and S3P

## Memorandum of Understanding

*the Parties have agreed as follows:*

### *ARTICLE 1:*

*To work together for the **identification of synergies** amongst programmes, funding schemes and other financing sources through:*

- The active participation of the Region/City of ( ) in initiatives launched by the FCH 2 JU for said purpose, including:*

*Participation in **working groups** of common interest,*

# FCH 2 JU initiative and S3P

## Memorandum of Understanding

*the Parties have agreed as follows:*

### ARTICLE 2:

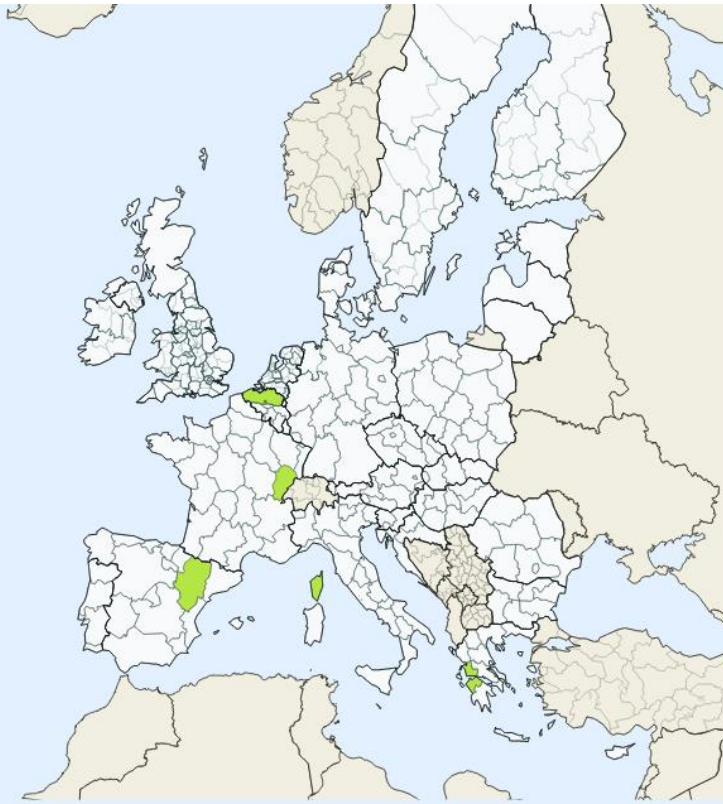
*To establish working arrangements between their respective instruments and frameworks to accompany the fuel cells and hydrogen sector by **promoting synergies and complementarities** between the European funds managed by FCH 2 JU in the fuel cells and hydrogen sector and other sources of funding/financing, such as the **structural and investment funds**.*



# Hydrogen in S3

• *Hydrogen is mentioned directly and indirectly (sustainable transport, Renewable energy integration, Industry decarbonisation...) in **S3 and OPs***

• *Five regions include hydrogen in their S3 top priorities:*



• *Flemish Region*

• *Franche-Comte*

• *Corse*

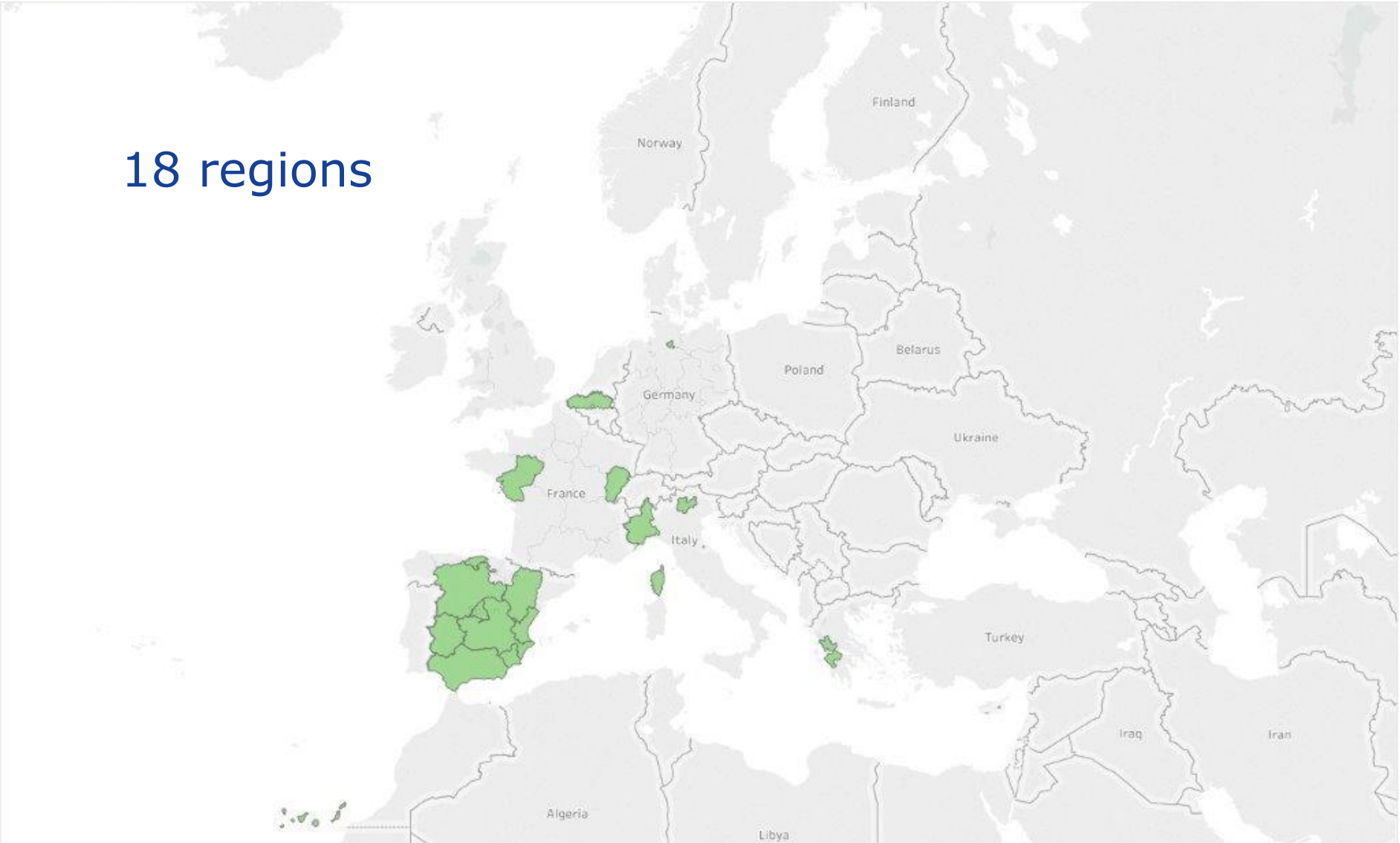
• *Dytiki Ellada*

• *Aragon*

# Hydrogen in RIS3

Hydrogen in RIS3

18 regions

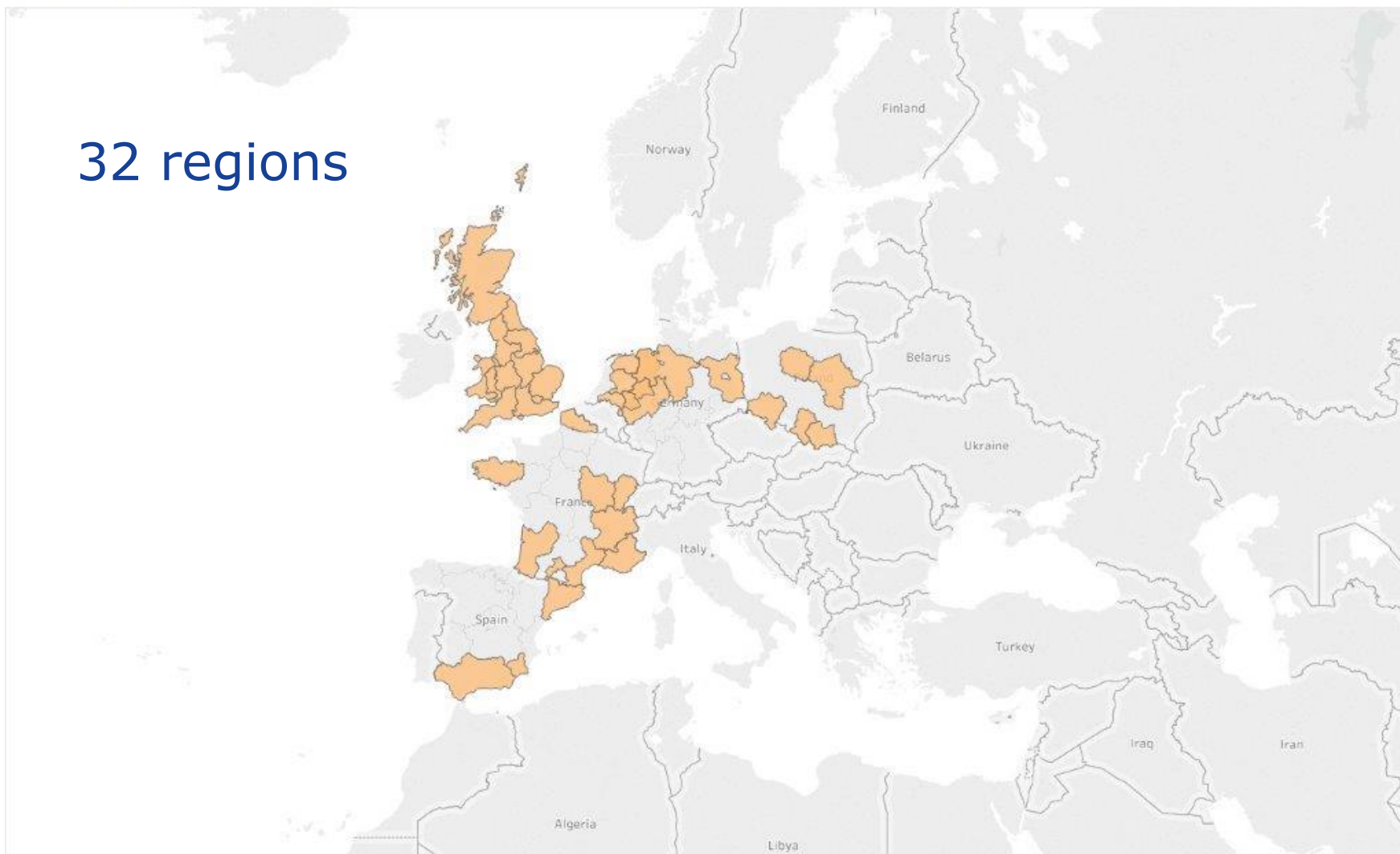


Map based on Longitude (generated) and Latitude (generated). Details are shown for Region. The data is filtered on Hydrogen in RIS3, which keeps 1. The view is filtered on Latitude (generated) and Longitude (generated). The Latitude (generated) filter keeps non-Null values only. The Longitude (generated) filter keeps non-Null values only.

# Hydrogen actions to be financed in OP

Actions to be financed hydrogen

32 regions

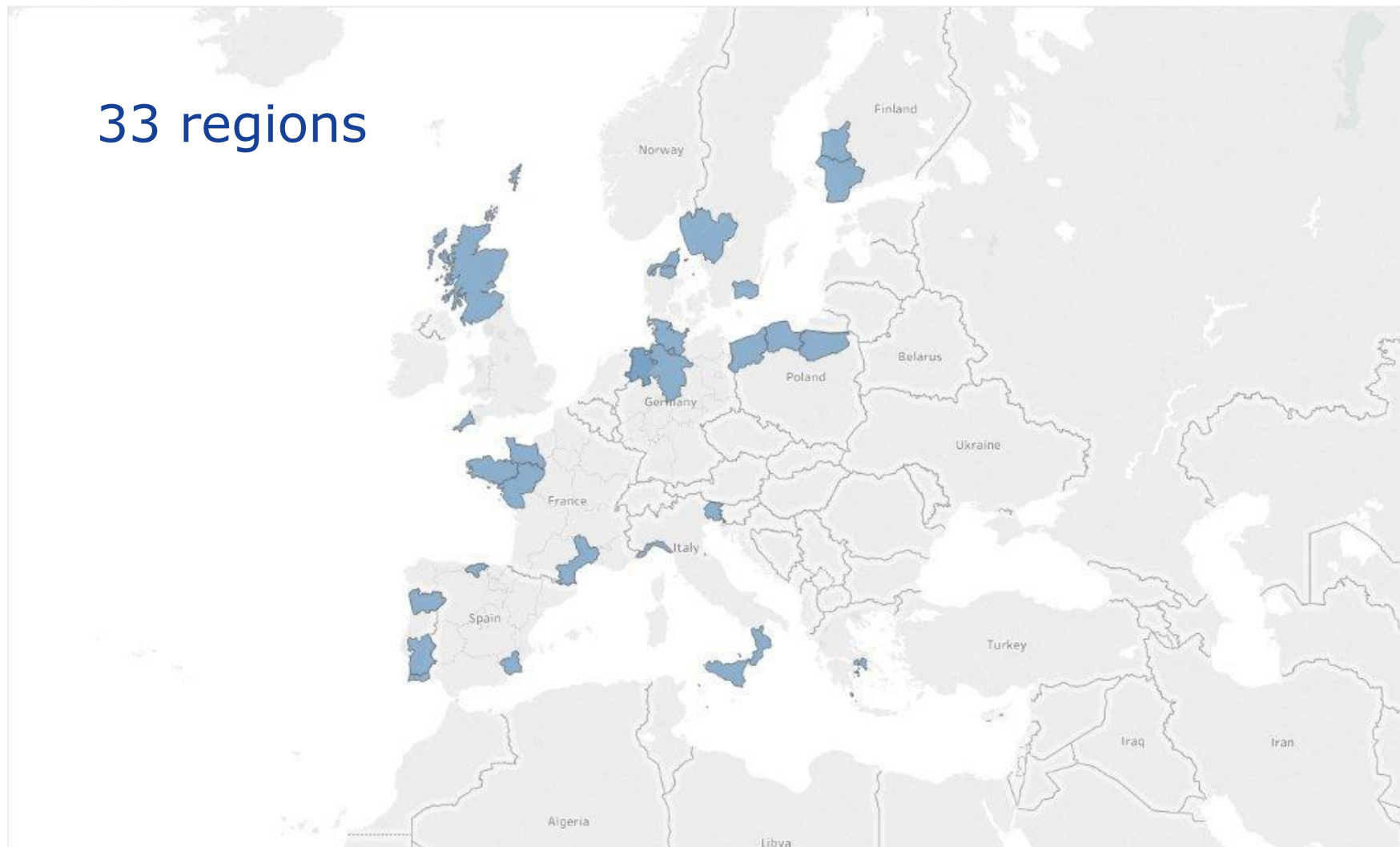


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# Maritime applications in RIS3 top priorities

Maritime app

33 regions

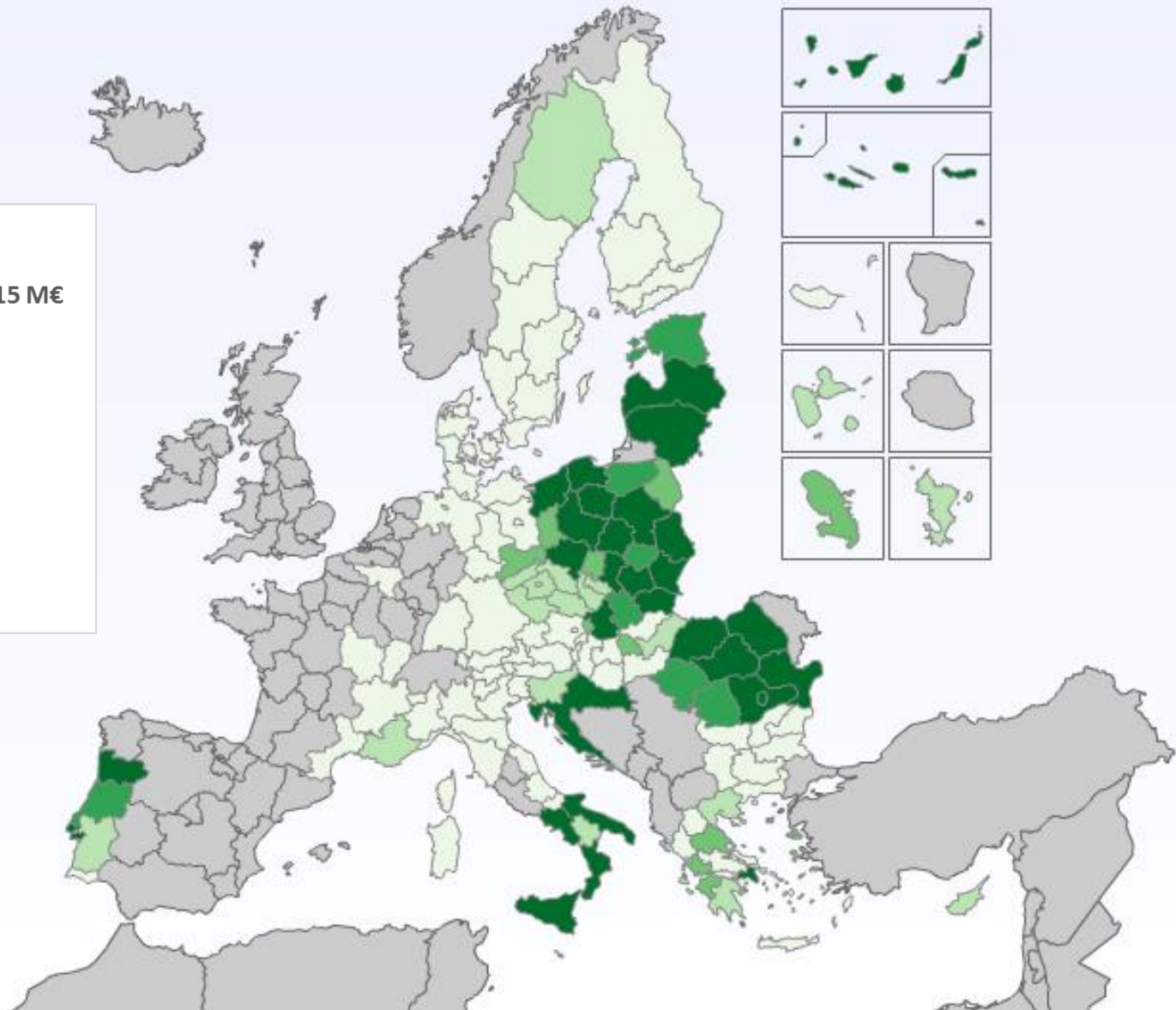
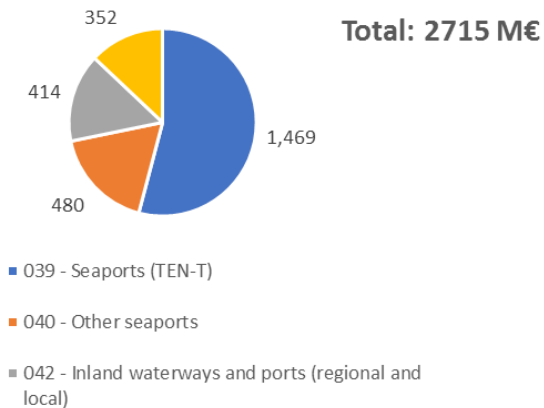


Map based on Longitude (generated) and Latitude (generated). Details are shown for Region. The data is filtered on Maritime applications in RIS3, which ranges from 1 to 1. The view is filtered on Latitude (generated) and Longitude (generated). The Latitude (generated) filter keeps non-Null values only. The Longitude (generated) filter keeps non-Null values only.



# Maritime applications in OP (T04 AND T07)

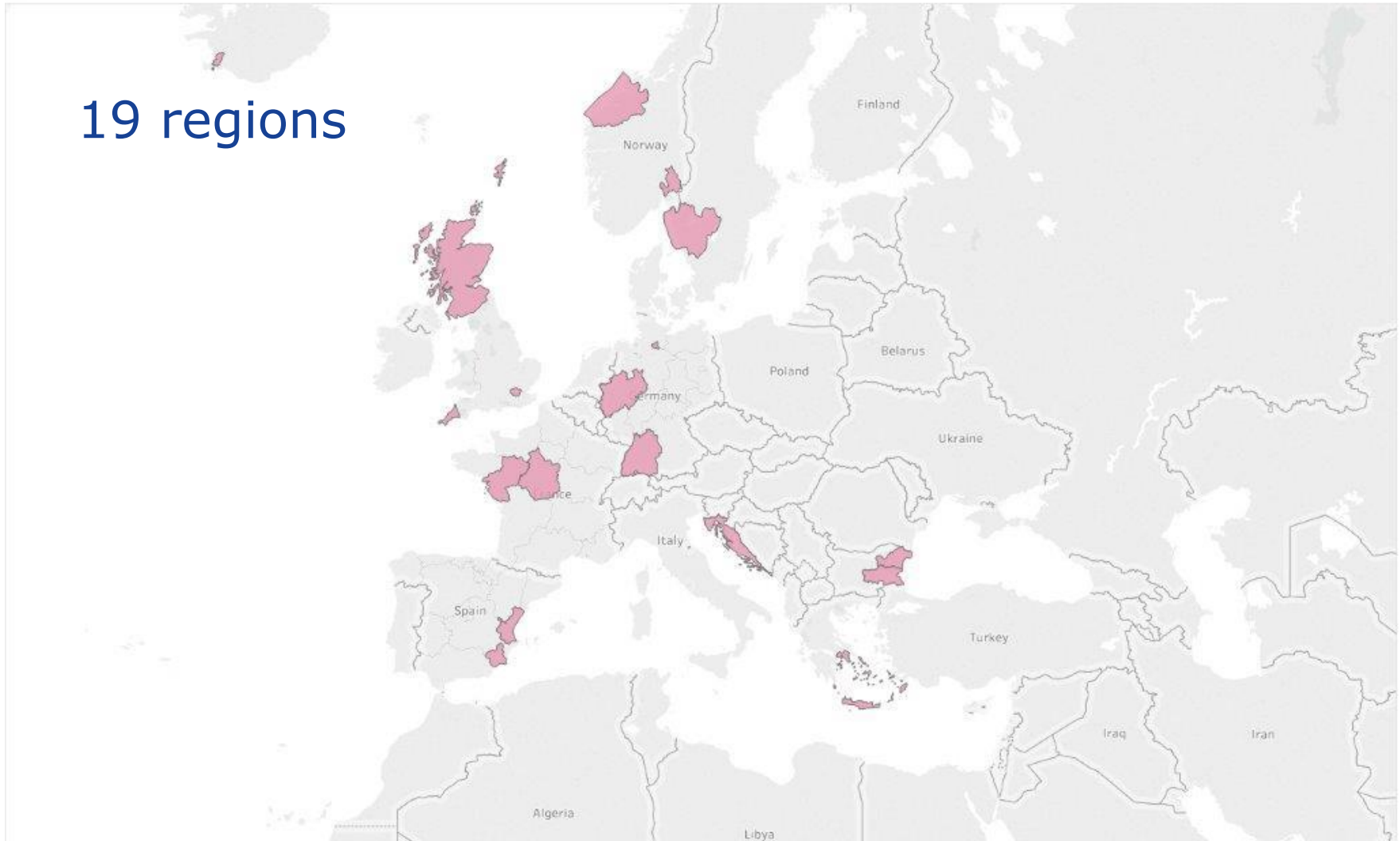
145 regions



# Interest in maritime app (FCH 2 JU)

JHU

19 regions



Map based on Longitude (generated) and Latitude (generated). Details are shown for Region. The data is filtered on Interest expressed to FCH JU, which ranges from 1 to 1. The view is filtered on Latitude (generated) and Longitude (generated). The Latitude (generated) filter keeps non-Null values only. The Longitude (generated) filter keeps non-Null values only.

# Stay in touch



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