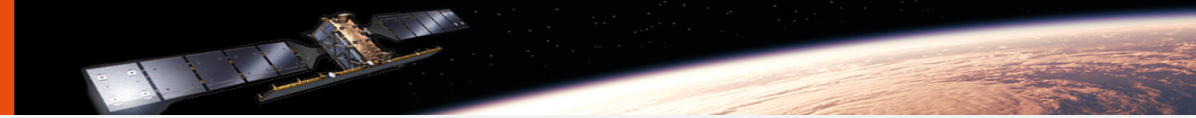


# Climate Change Adaptation and Climate Services *An R&I Perspective*

Miguel A. Martínez-Botí  
European Commission



# Climate-fit.city

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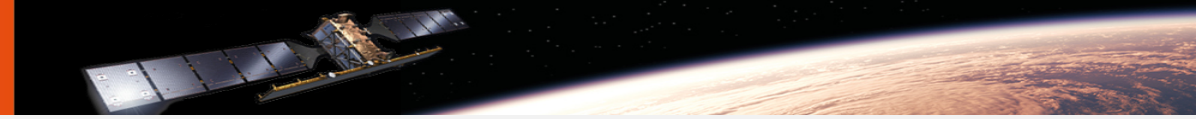
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The project

## Your one-stop shop for urban climate data and services

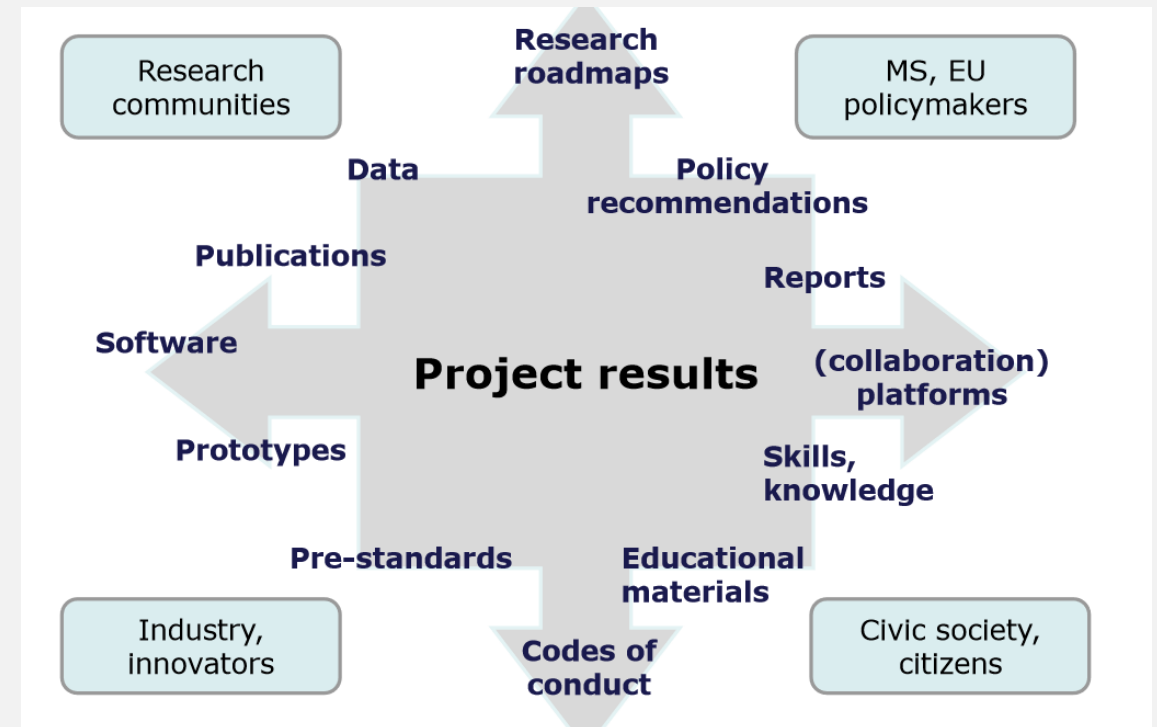
### About Climate-fit.city

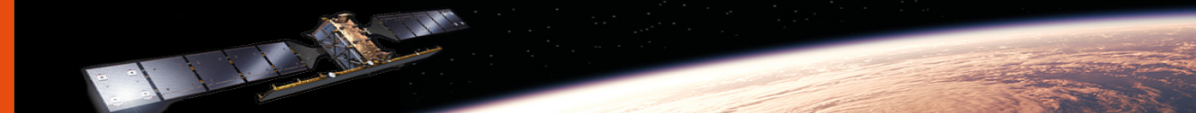
Urban areas are very vulnerable to the impacts of climate change, because of the high concentration of people, infrastructure, and economic activity, but also because cities tend to exacerbate climate extremes such as heat waves and flash floods. Climate-fit.city will translate the best available



# Horizon 2020 focus on Innovations and impact

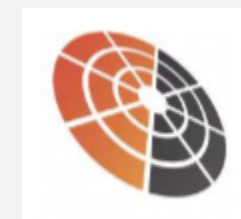
- Reflection on exploitable outputs throughout the implementation
- Clear plan for dissemination and exploitation and ownership of results
- Open access publication and data
- Success stories

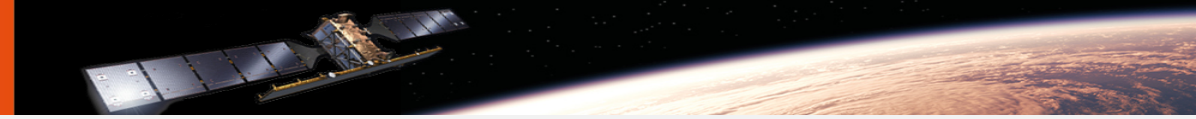




# Horizon 2020 focus on Innovations and impact

- RTD D&E Support and advice services to increase impact and result exploitation
  - Common Dissemination and Exploitation booster, IPR helpdesk
  - Horizon Results platform and Innovation radar
  - Increased visibility at European level
  - Open access/research data support (e.g. OpenAire including Citizen Science, Zenodo)



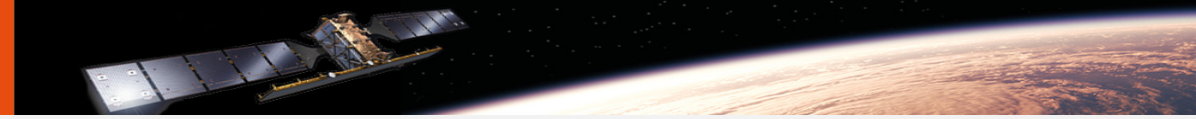


# Horizon 2020 focus on Innovations and impact

- Explore synergies with platforms at European and international level
  - Climate-ADAPT
  - JRC Knowledge centres
  - COPENICUS – Climate Change Service
  - Global Framework for Climate Services

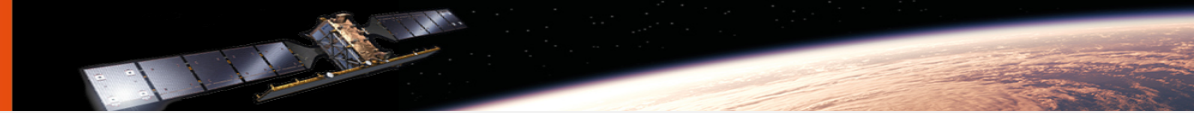






## EuroGEO: Delivering on adaptation to climate change

- EuroGEO is the European component of GEO which implements the Global Earth Observation System of Systems (GEOSS)
- EuroGEO develops user-driven applications relevant to climate adaptation integrating resources from a broad range of European actors brought together through the GEO European Caucus (e.g. EU MS, ESA, ECMWF, etc...)
- Those applications build on the Copernicus data and services
- Eight specific applications have been developed recently: agriculture, land degradation and forest fires, irrigation, migration, cities and human settlements, energy, pollution and disasters/flooding

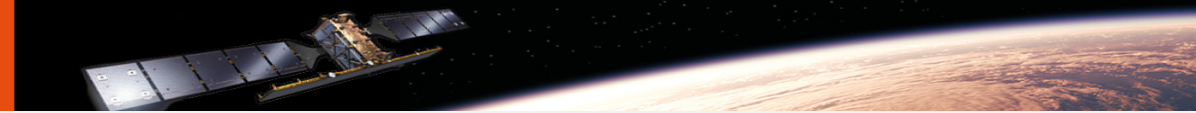


« Becoming the **world's first climate neutral continent** is the greatest challenge and opportunity of our times. It involves taking decisive actions now. We will need to **invest in innovation and research**, redesign our economy and update out industrial policy »



“To help us achieve our ambition, **I will propose a European Green Deal in my first 100 days in office**”

« *The **existential threat** posed by climate change requires enhanced ambition and increased climate action by the EU and at global level. »*

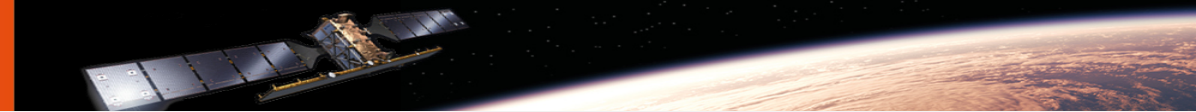


# The vision of Horizon Europe

- A sustainable, fair and prosperous future for people and planet based on European values.
  - Tackling climate change (35 % budgetary target)
  - Helping to achieve Sustainable Development Goals
  - Boosting the Union's competitiveness and growth







## Lessons Learned from Horizon 2020 Interim Evaluation

-  Support breakthrough innovation →
-  Create more impact through mission-orientation and citizens' involvement →
-  Strengthen international cooperation →
-  Reinforce openness →
-  Rationalise the funding landscape →
-  Encourage participation →

## Key Novelties in Horizon Europe

European Innovation Council

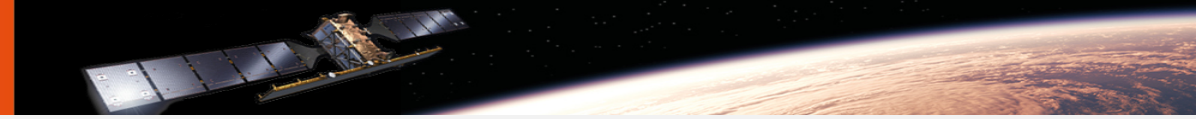
R&I Missions

Extended association possibilities

Open science policy

New approach to Partnerships

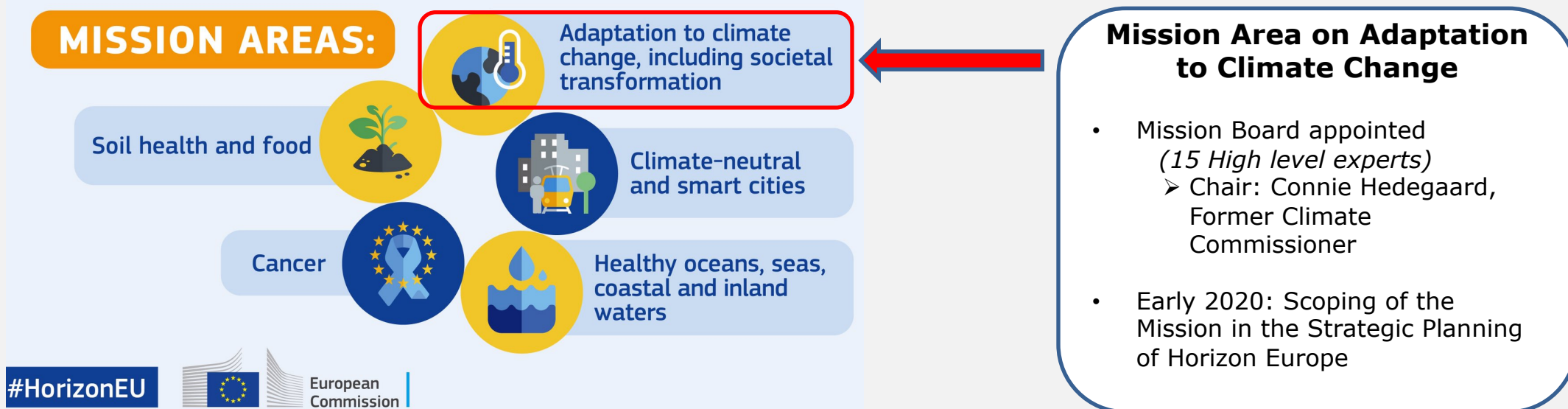
Spreading Excellence

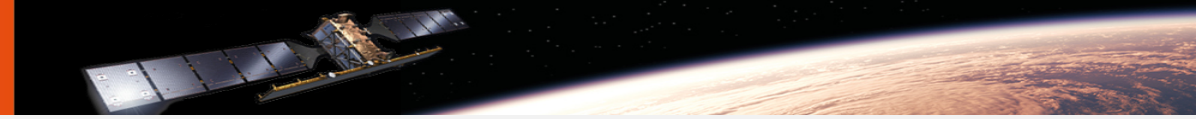


# Horizon Europe Missions

- Intended to achieve **ambitious** and **inspirational** goals
- With a **clear direction**: targeted, measurable and time-bound
- With **impact** for society and policy making
- **Engage citizens** in co-designing, co-creating, co-implementing and co-assessing missions

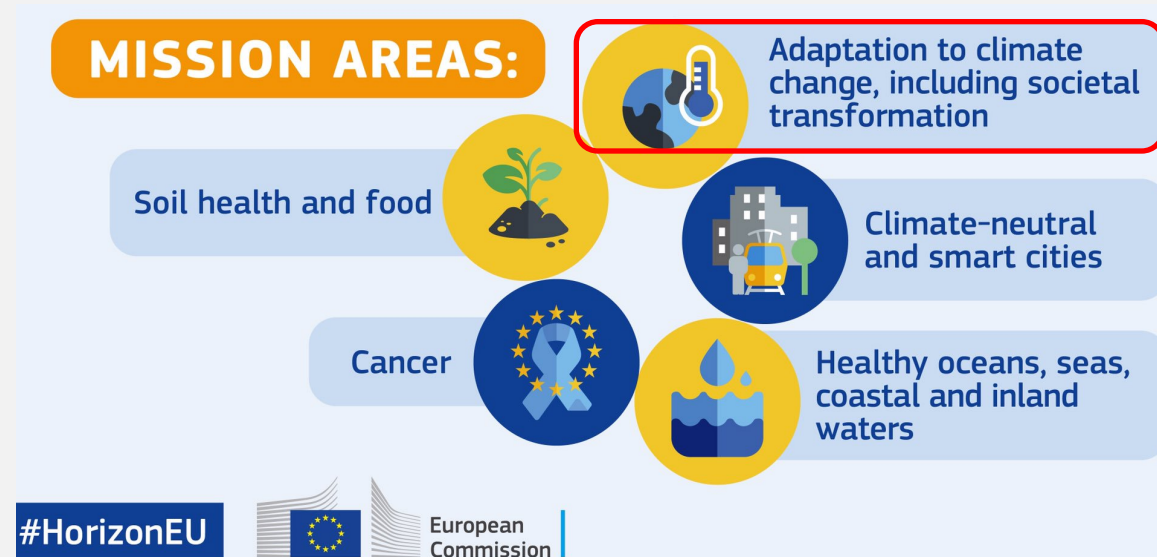
*Approach inspired by the recommendations from Lamy Report (2017) and Prof. Mazzucato's work*





## Horizon Europe Missions

[https://ec.europa.eu/info/horizon-europe-next-research-and-innovation-framework-programme/mission-area-adaptation-climate-change-including-societal-transformation\\_en](https://ec.europa.eu/info/horizon-europe-next-research-and-innovation-framework-programme/mission-area-adaptation-climate-change-including-societal-transformation_en)



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