



EU CAP Network workshop
'Enhancing food security under changing
weather patterns: farm adaptation'

14 - 15 March 2023, Bologna | Italy



Funded by
the European Union

Workshop: 'Enhancing food security under changing weather patterns:
farm adaptation' | 14-15 March 2023 | Bologna, Italy



EU research and innovation tools for farm adaptation

Patricia Lopez

DG AGRI – Unit F2





EU research and innovation tools for farm adaptation

Enhancing food security under changing weather patterns:
farm adaptation
CAP Network Workshop

*Patricia Lopez- Research programme officer
DG AGRI – Unit F2*

Food security and CAP in the EU treaty



“CAP objectives: Ensuring the availability and access to food for consumers at reasonable prices”

Article 39 of the Treaty on the Functioning of the European Union (TFEU).

Drivers of food security

Changing weather patterns and climate change

Directorates General - AGRI, SANTE & ENVI – and the JRC

7 key pillars impacting food security including

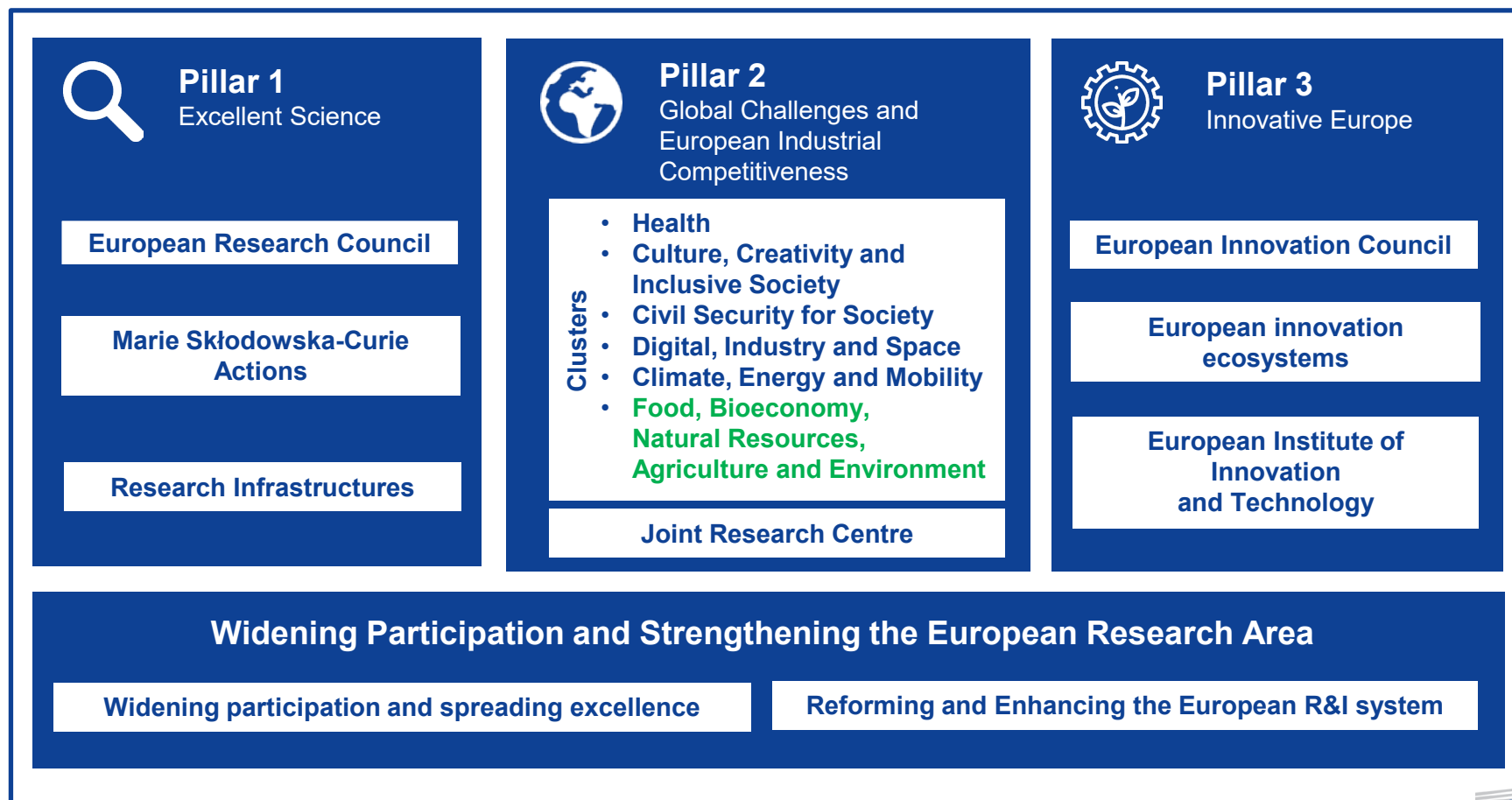
- **Biophysical and environmental drivers**
- **Research, innovation and technologies**
- **Political and institutional drivers**



Relevance of **R&I as cross horizontal driver** addressing efficiency in production

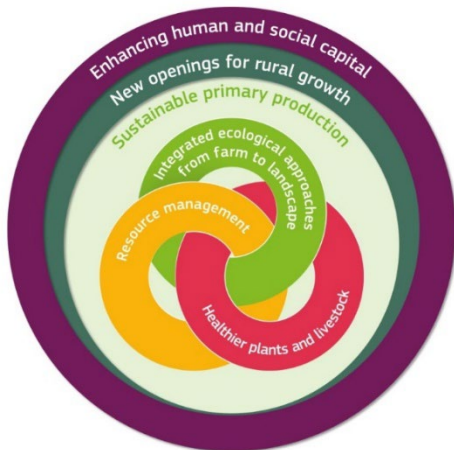
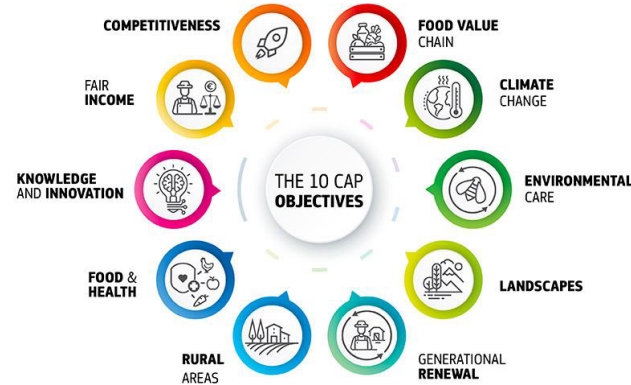
Climate smart techniques and early warning systems and water efficiency/reuse as key aspects addressing climate effects for agriculture

Horizon Europe

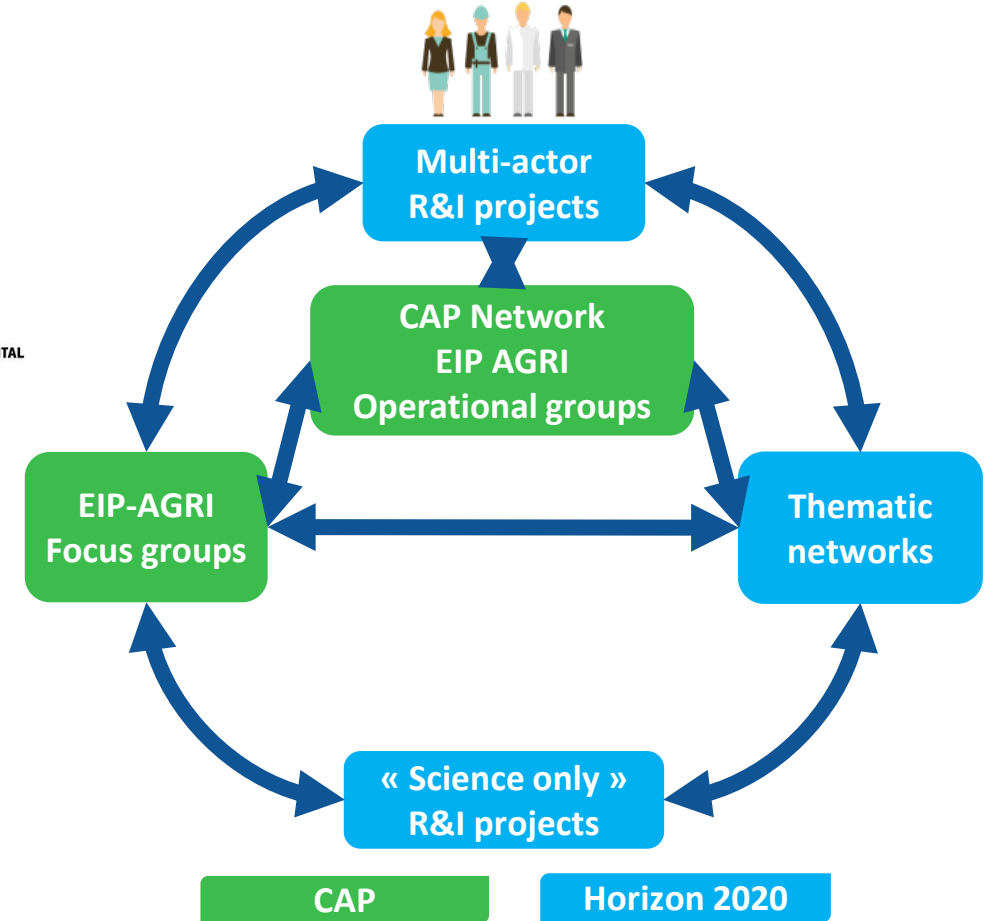


Around 9 billion € for Cluster 6

Approach to agricultural R&I



Horizon Europe



Ongoing climate adaptation funded projects



CLIMATEFARM DEMO: A european-wide network of pilot farmers implementing and demonstrating climate smart solutions for a carbon neutral europe



ARTEMIS - Agro-ecological strategies for promoting climate change Mitigation and Adaptation by enhancing soil ecosystem services and sustainable crop production



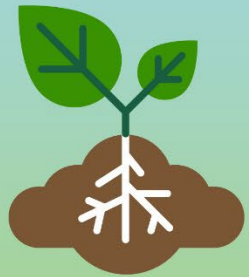
SoilSalAdapt - Preadapting soil biology for increased tolerance to elevated salinities due to climate change

Food security and climate adaptation open/upcoming calls

- HORIZON-CL6-2023-FARM2FORK-01-15: Fostering **resilient European food systems** in a changing world
- HORIZON-CL6-2023-ZEROPOLLUTION-01-1: Knowledge and **innovative solutions in agriculture for water availability** and quality
- HORIZON-CL6-2024-CLIMATE-01-1: Improving **irrigation practices** and technologies in agriculture



EUROPEAN UNION



EU MISSIONS

SOIL DEAL FOR EUROPE

100 living labs and lighthouses to lead the transition towards healthy soils by 2030

Speaker.....

Soil Mission Secretariat
Unit F2 Research and Innovation
DG Agriculture and Rural Development - European Commission

#EUmissions #HorizonEU #MissionSoil





Horizon Europe
R&I Missions

Linking EU's research and innovation to major societal needs;
with strong visibility and impact

A mission is a portfolio of actions across disciplines intended to achieve a **bold and inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens.

Horizon Europe defines **5 missions areas**:

Adaptation to
Climate Change



Cancer



Climate-neutral
and Smart Cities



Restore our
Ocean and Waters



Soil Deal
for Europe



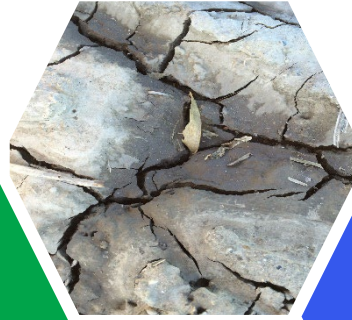


Why a mission on soil?

Soils need our attention!



Cropland soils **losing carbon** at a rate of 0.5% per year; 50% of peatlands drained and losing carbon – this is contributing to the climate crisis



24% of land with **unsustainable water erosion rates**

25% of land at High or Very High risk to **desertification** in Southern, Central and Eastern Europe in 2017



2.8 million potentially **contaminated sites** posing major health risks

65-75% of agricultural soils with nutrient inputs at levels risking **eutrophication of soils and water** and affecting biodiversity



The **costs** associated with **soil degradation** in the EU exceed **50 billion €** per year



The effects of climate change put further pressure on soils and accelerate land degradation!



Video presentation

EU Mission "A Soil Deal for Europe"

<https://youtu.be/3hPIZqwwhhM>

Food security and climate adaptation open/upcoming calls – soil mission

- HORIZON-MISS-2023-SOIL-01-04: Innovations to prevent and combat **desertification**
- HORIZON-MISS-2023-SOIL-01-08: Co-creating solutions for soil health in **Living Labs**
- HORIZON-MISS-2023-CLIMA-OCEAN-SOIL-01-01: Joint demonstration of an integrated approach to **increasing landscape water retention** capacity at regional scale (joint call among the three Missions)

Don't miss it!

2023 EU Agricultural Research and Innovation conference (Brussels)

31 May – 1 June

Registrations will open on Tuesday 21 March 2023



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All information on the workshop is available
on the **[EU CAP Network website](#)**

On the event webpage: **https://eu-cap-network.ec.europa.eu/events/eu-cap-network-workshop-enhancing-food-security-under-changing-weather-patterns-farm_en**