

# Green Deal Call National Online Info Event

Farm-to-Fork & Zero-Pollution

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# Important!



- Topic texts still **draft/preliminary** until publication in September
- Official topic texts will be found on [Funding & Tenders portal](#) of the European Commission
- Some of today's content based on expert **interpretation** of the topic texts

# Testing and demonstrating systemic innovations for sustainable food from farm to fork

LC-GD-6-1-2020

# Background

# The European Green Deal



Make the EU climate neutral by 2050

# The Farm to Fork Strategy

## For a fair, healthy and environmentally-friendly food system

### Targets/objectives:

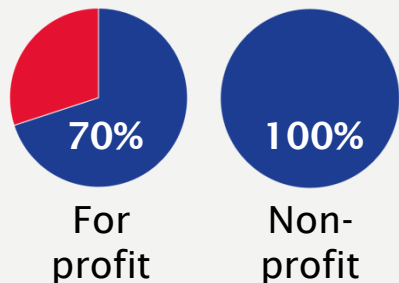
- **Reduction by 50% of the use and risk of chemical pesticides and the use of more hazardous pesticides by 50% by 2030**
- **Reduction of nutrient losses by at least 50% while ensuring that there is no deterioration in soil fertility. This will reduce the use of fertilisers by at least 20% by 2030.**
- **Reduction by 50% of the sales of antimicrobials for farmed animals and in aquaculture by 2030**
- **Reaching 25% of agricultural land under organic farming by 2030.**



Source: [https://ec.europa.eu/food/farm2fork\\_en](https://ec.europa.eu/food/farm2fork_en)

# LC-GD-6-1-2020: Testing and demonstrating systemic innovations for sustainable food from farm to fork

## Innovation Action



- Starting from Technology validated in relevant environment (TRL5)
- **Upscaling**
- **Limited research activities**
- **To test, pilot and showcase** place-based, innovative systemic solutions

# The Specific Challenge

To feed a growing world population and bring food systems within a **safe and just operating space** - encompassing **planetary health, economic viability** and **social welfare**, and including **human health**.



**20%** of  
food is wasted in  
the EU




**29%** of total GHG  
emissions are caused by  
food systems



**1** in **5** adults in  
the EU are obese



# Main Scope

 Test, pilot and demonstrate **innovative systemic solutions** to one of the pressing food system challenges defined in the topic text

# Subtopics

The projects need to address **one** of the following challenges:

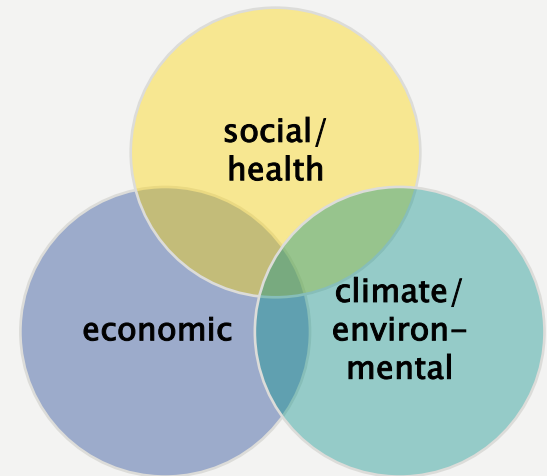
- Achieving **climate neutral farms** by reducing GHG emissions and by increasing farm based carbon sequestration and storage
- Achieving **climate neutral food businesses** by mitigating climate change, reducing energy use and increasing energy efficiency in processing, distribution, conservation and preparation of food
- **Reducing** the dependence on **contentious pesticides**; reducing the use and increasing the efficiency of **fertilisers**; reducing the **losses of nutrients** from fertilisers , towards **zero pollution**
- **Reducing** the dependence on the **use of antimicrobials** in animal production and in aquaculture
- **Reducing food losses and waste** while also avoiding unsustainable packaging
- **Shifting** to **sustainable healthy diets**, sourced from land, inland water and sea, and accessible to all EU citizens, including the most deprived and vulnerable groups

# To consider in the projects (Part I)

Applying **system thinking / systems approaches** to define the challenge:

- In-depth systemic analyses of its **drivers** and **root cause**
- Assess their **impact, risks, synergies** and **trade-offs** with regards to **sustainability, food and nutrition security, food system resilience, food safety** and **objectives** outlined in **Farm to Fork Strategy** and the **Green Deal**

3 dimensions of sustainability:



# To consider in the projects (Part II)

- **Multi-actor and cross-sectoral approach** to co-create, test and demonstrate solutions in practice:
  - primary producers
  - processors
  - retailers
  - consumers
  - public and private institutions (NGO and governmental institutions)
  - citizens
- **Most appropriate mix of innovations**: novel and digital technologies, new business and supply chain models, new governance models, ecological and social innovations
- Delivering and implementing an **action plan for dissemination, communication and engagement, for building awareness, education and skills** relevant to the solutions on a **European scale**, in and beyond the regions where the activities take place

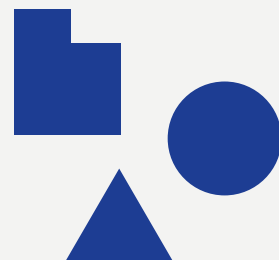
# Consortium



**Collaborative project**  
(min. 3 member states or associated countries)



**SMEs** are strongly encouraged to participate



**Mix and integration** academia, industry, policy makers, societal actors

→ Foster collaboration, building bridges and breaking silos **between actors of the food chain and between primary sectors**

→ Take specific care to engage **young professionals** (e.g., young farmers, young fishers, young researchers, young entrepreneurs, etc.), **SMEs** and **citizens**.

# Partnering

- **Network**
- Topic page on **Funding and Tender Portal** → Partner Search
- **R&I days** (22-24 Sept 2020)
- Participate at **Brokerage Events**
- **Cordis** Running/finished projects database, source of information:  
[http://cordis.europa.eu/projects/home\\_en.html](http://cordis.europa.eu/projects/home_en.html)



## 9.3 A transparent & accessible ocean: towards a Digital Twin of the Ocean

# Area 9: Strengthening Our Knowledge in Support of the European Green Deal

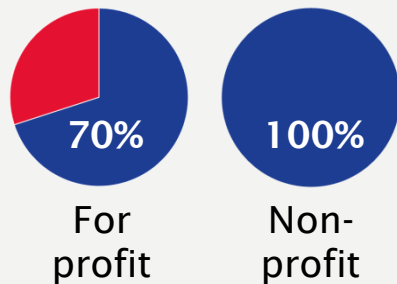
- will strengthen the European knowledge base and **understanding of the complex issues** linked to climate change and sustainability,
- adopting a longer-term perspective and acting as a **bridge to Horizon Europe**





# Topic 9.3: Towards a transparent & accessible ocean (a Digital Twin of the Ocean)

## Innovation Action



# The Specific Challenge

## OCEAN OBSERVATION AND FORECASTING

- **Digital Twin of the Ocean:** filling the need to integrate a wide range of data sources, to transform data into knowledge.



# Scope

- **Development of an interoperable pilot digital twins**
- Addressing **concrete cases** in local or regional sea basins, and demonstrating their usefulness with regard to several of the Green Deal priorities.
- **Identification and testing** of the most efficient solutions
- From **data acquisition** to **users' services**

# Expected impact

- Deliver **interactive virtual tools of the ocean**
- Contribute to significantly increase the **capacity to observe coastal and marine waters**
- Reinforce **conservation** and ecosystem-based management of marine habitats
- Increase **citizen engagement**
- Allow for **knowledge-based decision-making**
- Encourage industry to look for **business opportunities in ocean data**

# Relevant Horizon 2020 and R&D projects and existing infrastructures

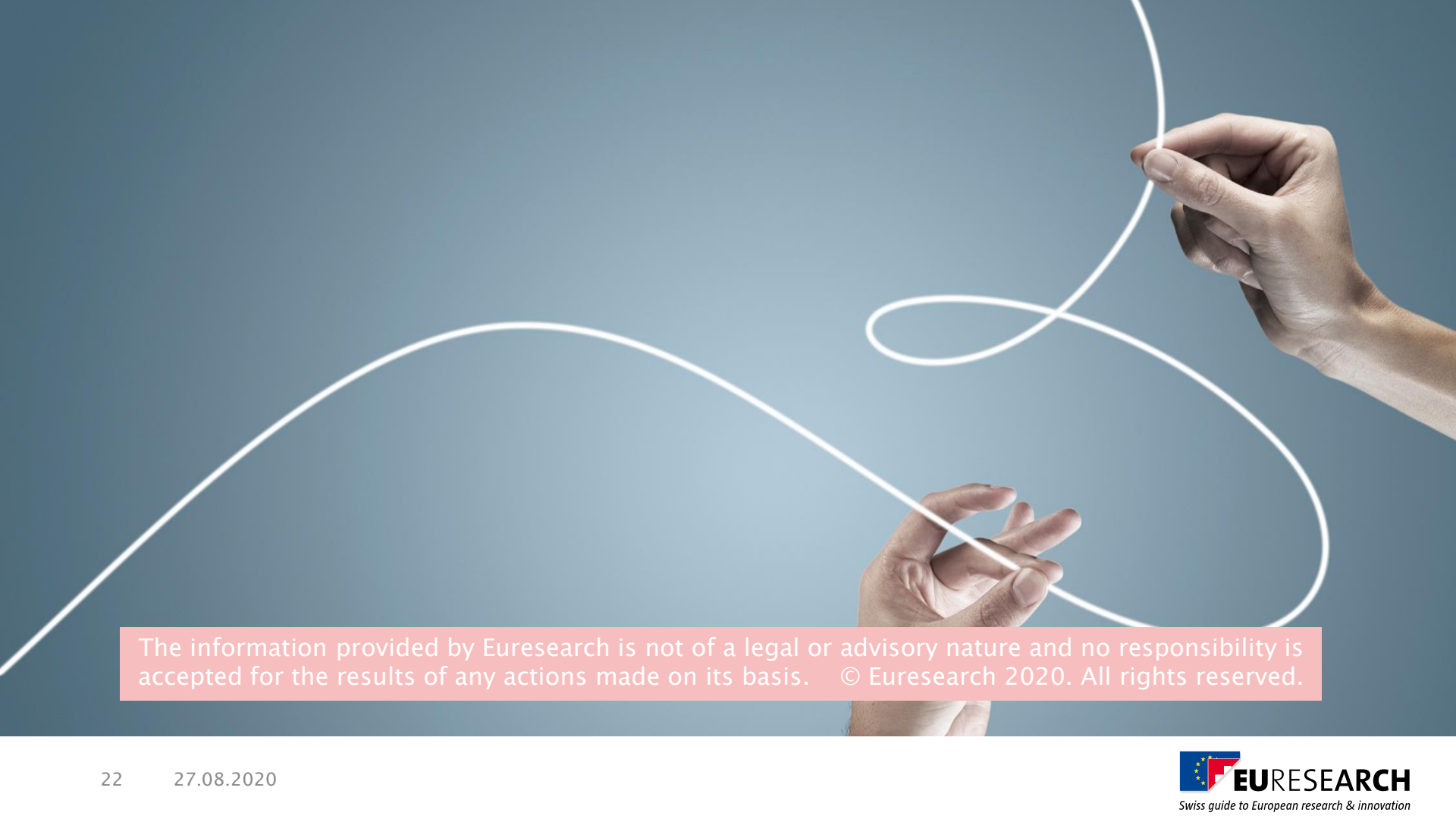
Build on:

## Data infrastructure and forecasting services

- [COPERNICUS](#) - EU's Earth observation programme
- [ERICs](#) - European Research Infrastructure Consortium
- [BlueCloud](#) - Piloting innovative services for Marine Research
- [EMODNet](#) - The European Marine Observation and Data Network

## Ocean observation

- [Eurofleets+](#) - An alliance of European marine research infrastructures
- [EuroArgo](#) - Fleet monitoring
- [Jerico](#) - long-term framework providing high-quality marine data, expertise and infrastructures for Europe's coastal seas
- [EMBRC](#) - the European marine biological resource centre



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