Towards Sustainable Agriculture in a Changing World

Joint Programming Initiative on Agriculture, Food Security and Climate Change

FACCEJPI

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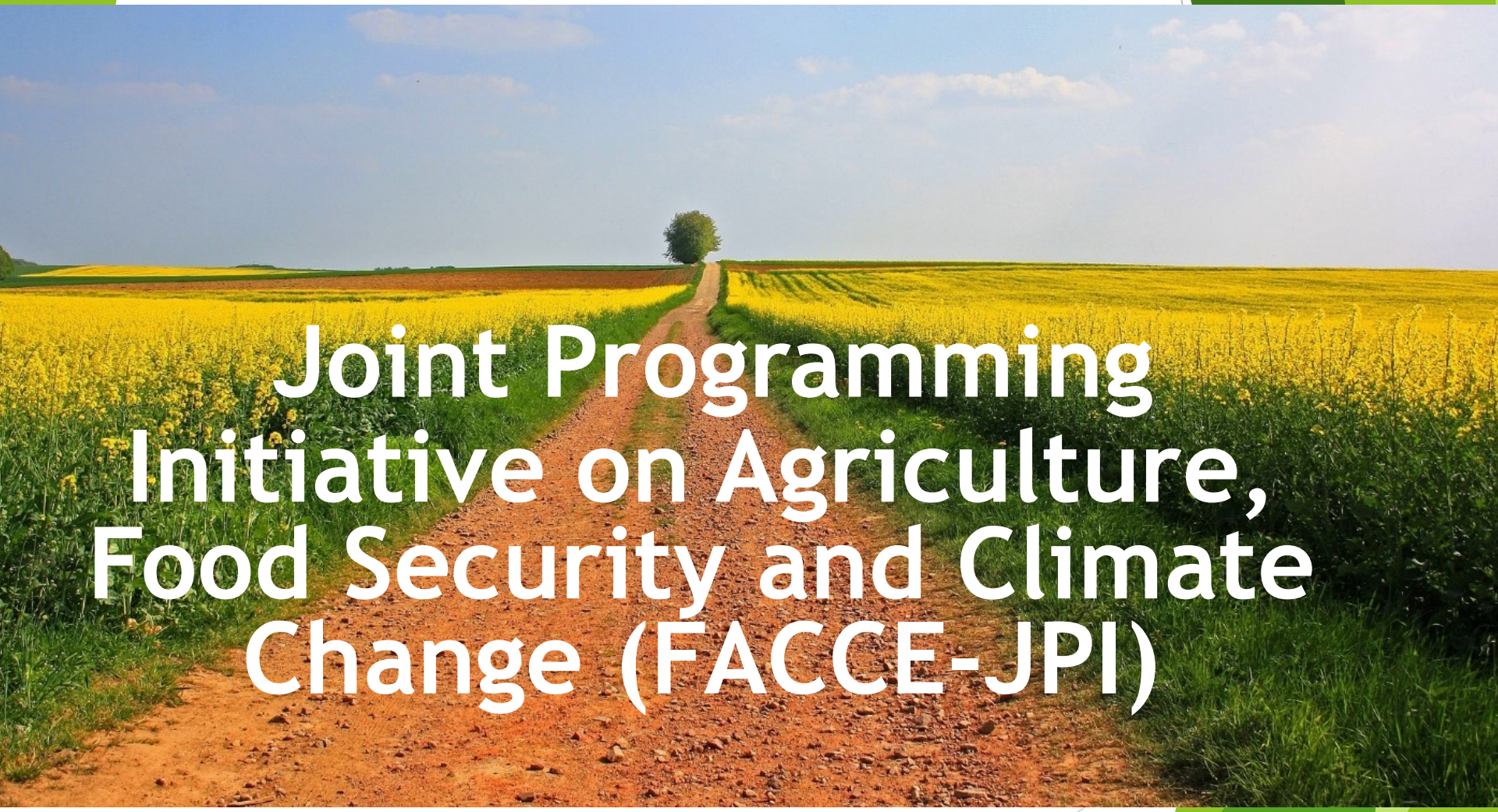
Europe can lead the way in transforming agricultural systems

Feeding the (changing) world will require a major transformation in the way that we produce, manage and consume food.

Specifically:

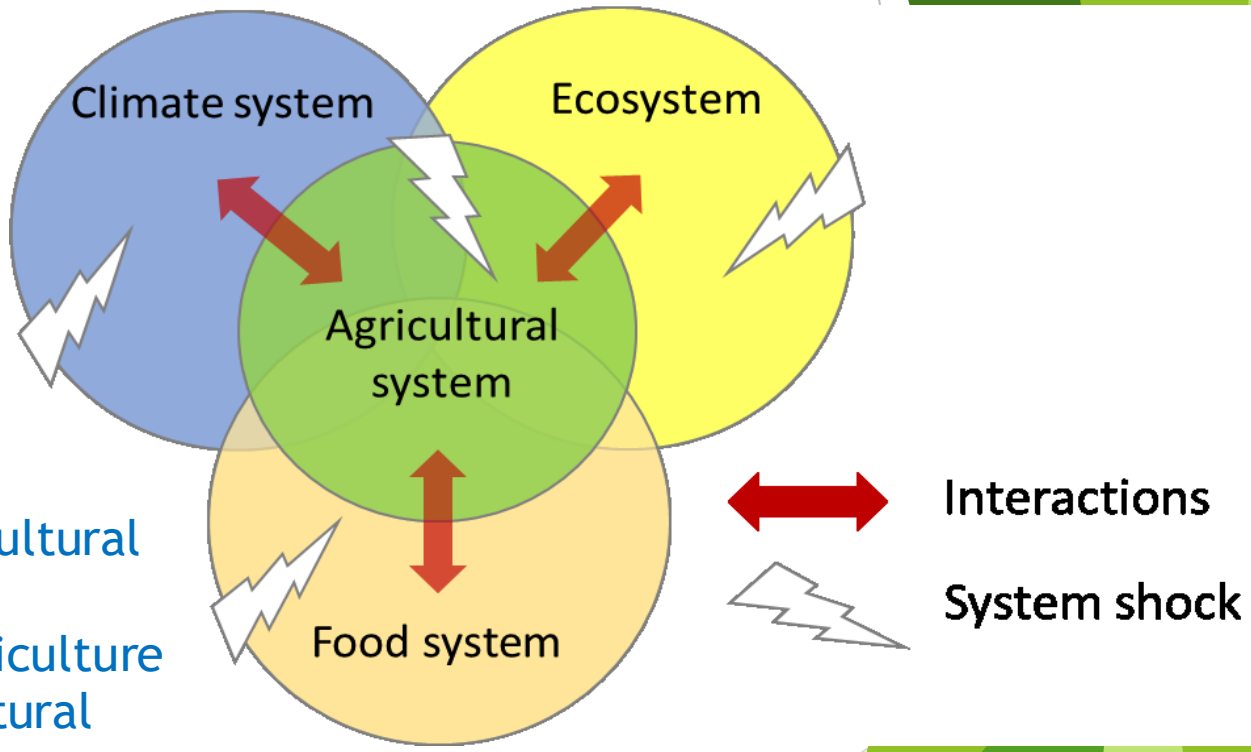
Sustainable and resilient agricultural production systems that can at the same time help mitigate GHG emissions and adapt to changing environmental conditions, while providing food and nutrition security.

Rethinking how we produce food, reducing waste and losses, and taking an agroecological approach that safeguards biodiversity and ecosystems services.


Joint Programming Initiative on Agriculture, Food Security and Climate Change (FACCE-JPI)

FACCE-JPI

At the intersection of agriculture, food security and climate change



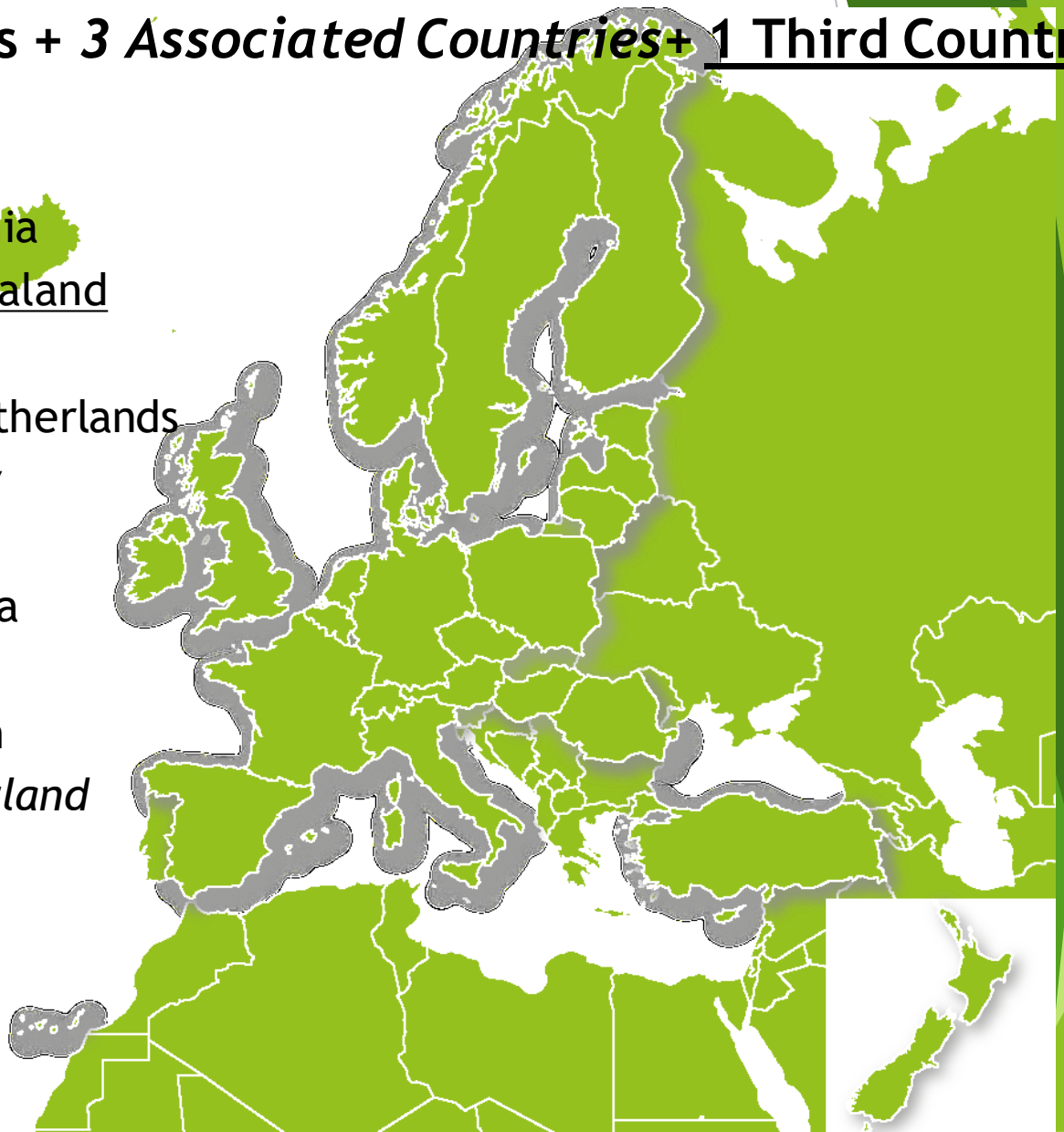
Four Core Themes

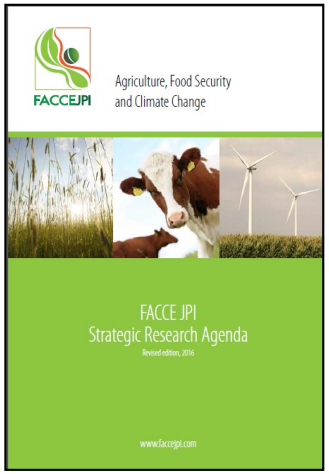
- Climate neutrality in agricultural landscapes
- Sustainable & resilient agriculture
- Nutrition-sensitive agricultural production in food systems
- Trade offs and synergies between food production, ecosystems and climate

FACCE-JPI Global Partnership

20 EU Member States + *3 Associated Countries*+ 1 Third Country

Austria
Belgium
Cyprus
Czech Republic
Denmark
Estonia
Finland
France
Germany
Hungary
Ireland
Latvia
Lithuania
New Zealand
Italy
The Netherlands
Norway
Poland
Romania
Spain
Sweden
Switzerland
Turkey
UK





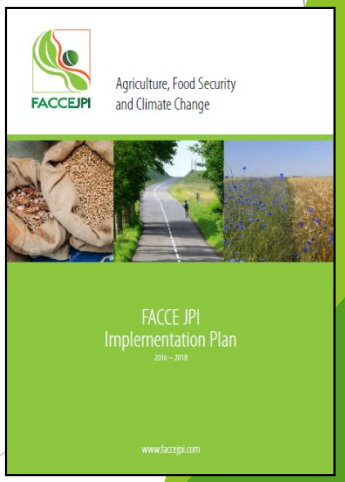
Vision: Global Challenge & Strategic Research Areas (2010, 2020)

Strategic Research Agenda (2013, 2016, 2020)

Implementation Plans
Multi-year Work Plan

Joint Actions
(18 to date, 180M€)

Dissemination & Valorisation



FNR-01-2020: Strengthening the European agro-ecological research and innovation ecosystem

Agro-ecology promotes a profound change of reasoning

1) Local: adapted to the local environmental, social and economic context
2) Evolutive: the trajectory has to be regularly evaluated (adaptative management)
3) "In the making": collective experience, development of practice exchange and active networking

This means that researchers, trainers, advisers and producers will be equally concerned by the knowledge gaps → Co-creation

Experimental processes: strong networks and common open data bases / methodologies.

--> Living labs / Research Infrastructures

AgroEcoLLNet –Prep

The European **Agroeco**logy **L**iving **L**ab and Research Infrastructure **Net**work: **Prep**aration phase

N°	Participant organisation name (Acronym)	Country
1	Institut national de recherche pour l'Agriculture, l'Alimentation et l'Environnement (INRAE)	France
2	Aarhus Universitet (AU)	Denmark
3	Ökológiai Mezőgazdasági Kutatóintézet Közhasznú Nonprofit Kft (OMKI)	Hungary
4	Johann Heinrich Von Thuenen-Institut, Bundesforschungsinstitut Fuer Laendliche Raeume, Wald Und Fischerei (TI)	Germany
5	European Network Of Living Labs Ivzw (ENoLL)	Belgium
6	Biosense Institute - Research And Development Institute For Information Technologies In Biosystems (BIOS)	Serbia
7	Fibl Europe - Forschungsinstitutfur Biologischen Landbau In Europa (FiBL Europe)	Belgium
8	Ecologic Institut gemeinnützige Gmbh (Ecologic)	Germany
9	European Landowners Organization (ELO)	Belgium
10	Agriculture And Agri-Food Canada (AAFC)	Canada
11	Eigen Vermogen Van Het Instituut Voor Landbouw- En Visserijonderzoek (EVILVO)	Belgium
12	E-Science European Infrastructure For Biodiversity And Ecosystem Research (LifeWatch ERIC)	Spain
13	The University of Sheffield (ISF)	United Kingdom

Links to BiodivERsA, CORE Organic, BioEast, Agroecology Europe, Water JPI, EIP Agri, AKIS, JRC, FAO…

The main aim of AgroEcoLLNet-Prep is to **prepare and pilot a European network of Living Labs (LL) and Research infrastructures (RIs)** to be called "AgroEcoLLNet" that will enable the transition towards agroecology throughout Europe.
For that purpose, AgroEcoLLNet-Prep will build this network to answer the following questions:

- Which agroecological criteria can be used to characterise agroecological systems, and monitor their transition? Which methodologies have been used to co-design and co-create new systems?

- Who are the actors involved (farmers, cooperatives, water and landscape managers, NGOs, consumers,…), in which (types of) activities and with which governance?

- How diverse are the transitions and how can learning from one another across Europe be promoted to contribute to up-scaling and out-scaling?

Objectives

1. Collectively define the mission and vision for AgroEcoLLNet

2. Identify, map and evaluate existing components of AgroEcoLLNet including their level of maturity, looking at both success stories and barriers for agroecological transition

3. Beginning with a few LLs and RIs in the consortium countries, put in place a small-scale pilot Network to test different aspects of the Network in real-life situations

4. Draw up an implementation plan (2023-2030) for AgroEcoLLNet, including trans-Network support activities and services

5. Prepare and initiate a capacity building programme for the AgroEcoLLNet implementation phase. Prepare a data and knowledge management strategy and principles for the future network

6. Roll out a communication programme that will, among other things, promote engagement among the agricultural community and funders

Main outcomes

A Mission and Vision document for the European AgroEcoLLNet (validated by the wider community) and how it can contribute to EU objectives and policy goals

A wide-scale mapping, analysis and overview of existing mechanisms (in EU and beyond) for carrying out participatory agroecological research and innovation including KPI for the network implementation.

A small scale pilot Network of LLs and RIs to test the functioning and activities of the Network

An implementation plan for the European Agroecological LL and RI Network (AgroEcoLLNet) → SRIA

Recommendations for ensuring the long term implementation and sustainability of the Network

A capacity building programme including training actions and packages

Evidence-based knowledge to support the transition to agroecology

WP8 MANAGEMENT

PHASE 3 PREPARING THE NETWORK FOR IMPLEMENTATION

WP7 COMMUNICATION AND DISSEMINATION

PHASE 2 EXPERIMENTING THE NETWORK FRAMEWORK

WP6 KNOWLEDGE AND DATA MANAGEMENT

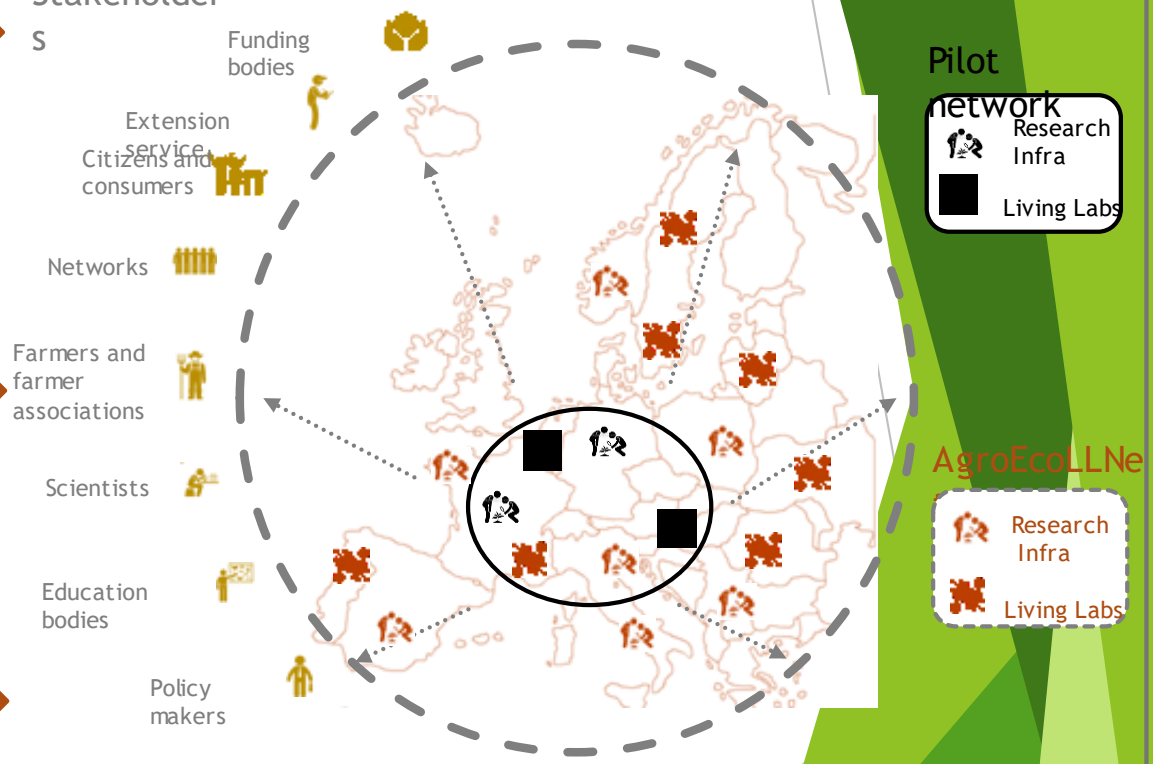
WP5 CAPACITY BUILDING

WP4 IMPLEMENTATION AND SUSTAINABILITY

PHASE 1 LAYING THE FOUNDATIONS

WP2 MAPPING AND ANALYSIS

WP1 VISION AND MISSION



WP3 STAKEHOLDER ENGAGEMENT AND PILOT NETWORK

Thanks for your attention!

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