ClieNFarms in a nutshell

Jacques-Eric Bergez

ClieNFarms

Climate Neutral Farms

in a nutshell

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CGIAR : MITIGATE + meeting, 11/05/2022

The project at a glance

EU contribution:
€ 11 999 974,78
Overall Budget:
€ 13 639 536

48 months
January 1st 2022

Testing and demonstrating systemic innovations in support of the F2F Strategy.
(LC-GD-6-1-2020)

33 partners &
14 European countries

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Goal

An Innovation Action project, funded by the European Commission in supporting of the European Green Deal, that aims to **co-develop and upscale systemic locally relevant solutions to reach climate neutral and climate resilient sustainable farms across Europe**. A consortium of 33 partners will interactively integrate and **improve existing solutions** to **achieve economically viable business models in farming systems** through a multi-actor approach.

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There is no day without alarming news

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Agriculture is part of the problem

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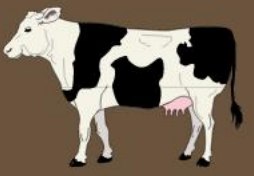
Manure applied to soils

Manure left on pasture

Manure management & housing

Synthetic fertilizers

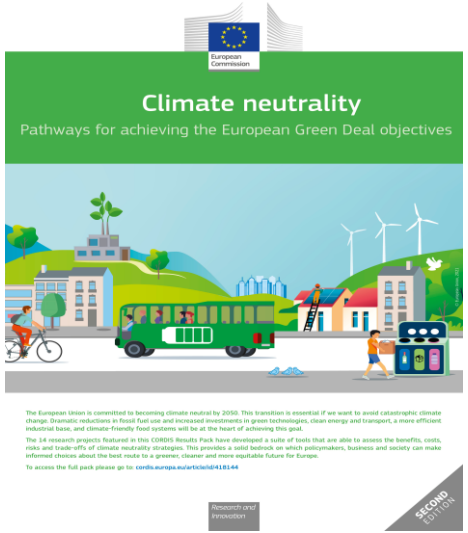
Crop residues

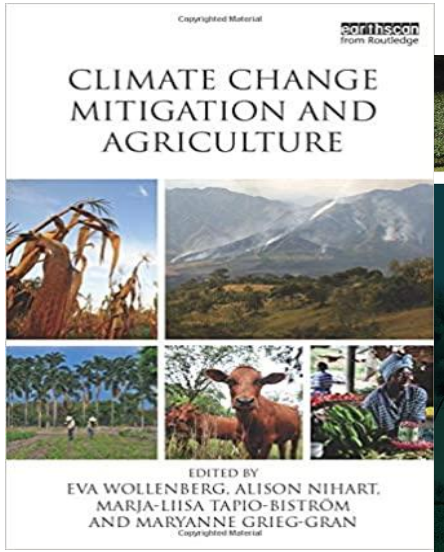


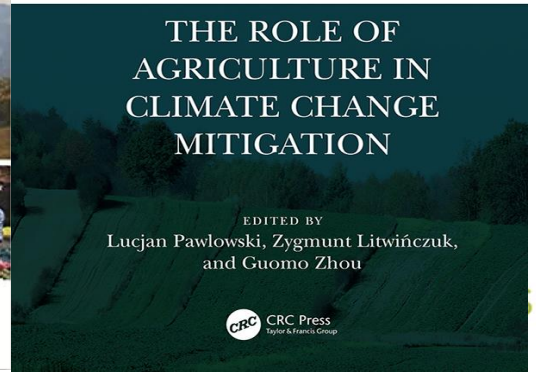
Enteric fermentation

Agriculture is part of the problem

but is also part of the solution!







- CARISMA: **Coordination and Assessment of Research and Innovation in Support of Climate Mitigation Action**
- EIFFEL: **REVEALING THE ROLE OF GEOSS AS THE DEFAULT DIGITAL PORTAL FOR BUILDING CLIMATE CHANGE ADAPTATION & MITIGATION APPLICATIONS**
- LANDMARC: **LAND-use based MitigAtion for Resilient Climate pathways**
- ASFORCLIC : **Adaption strategies in forestry under global climate change impact**
- …

Overall concept

ClieNFarms scope is based on a demonstration approach through the creation of I3S.

Innovative

Induce emergence and adoption of efficient innovation including different elements such as finance; banks; colaborative proposals; etc.

Systemic

Takes into account the farm and the surrounding (eco)systems (suppliers; advisers; researchers; etc)

Solution Spaces

Proposes and tailors different solutions for each farm depending on their pedoclimatic conditions, resources and constraints.

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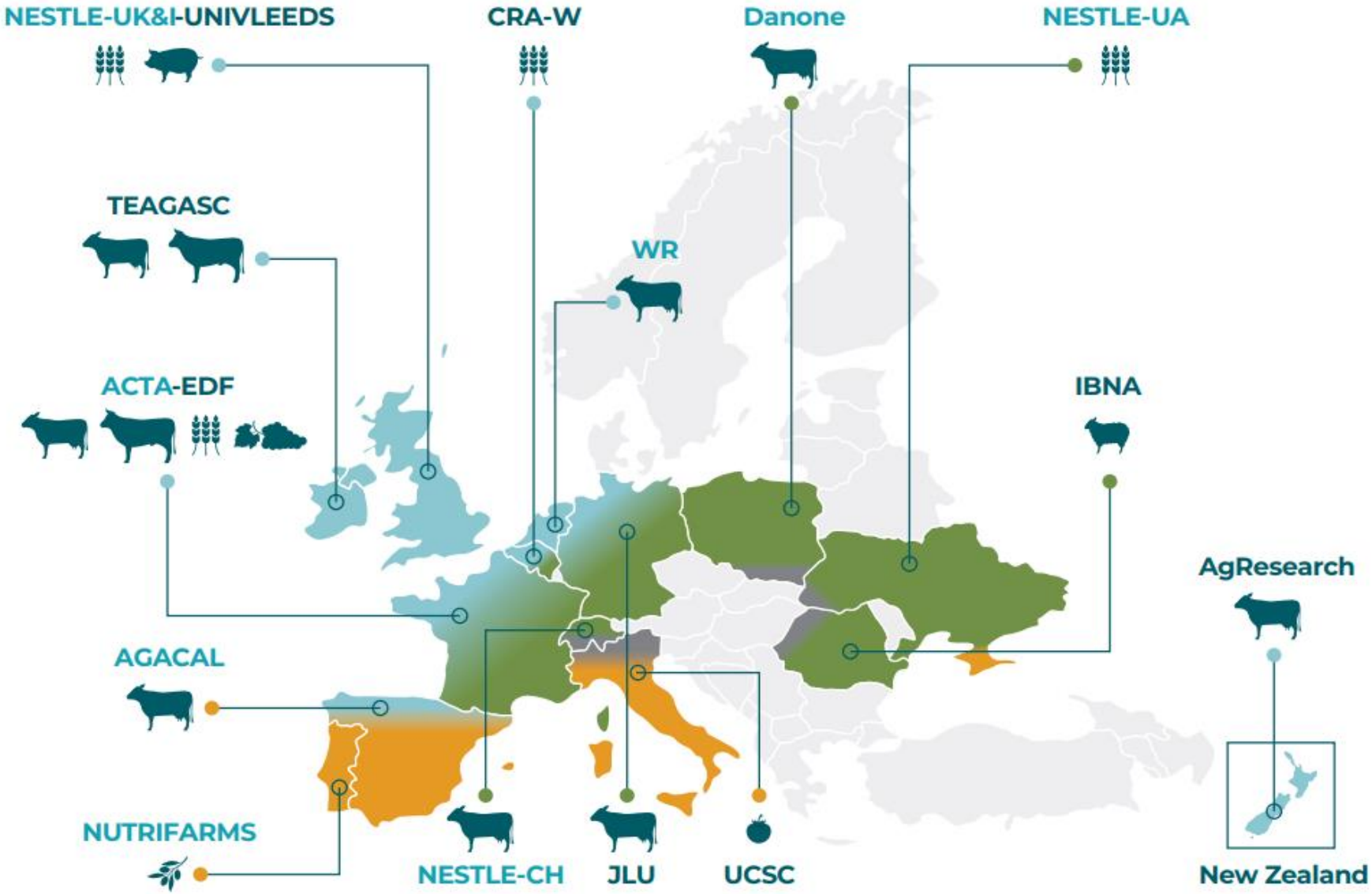

Pedoclimatic regions

- Mediterranean
- Continental
- Mountain
- Oceanic

Production systems

- Dairy
- Monogastrics
- Arable crops
- Specialised culture
- Beef
- Sheep

Partners in charge of I3S
ACTA; CRA-W; UNIVLEEDS; TEAGASC; EDF; JLU; UCSC; IBNA; AgResearch; WR

Supply chain involved
NESTLE-UK&I; AGACAL; NUTRIFARMS; NESTLE-CH; NESTLE-UA; Danone

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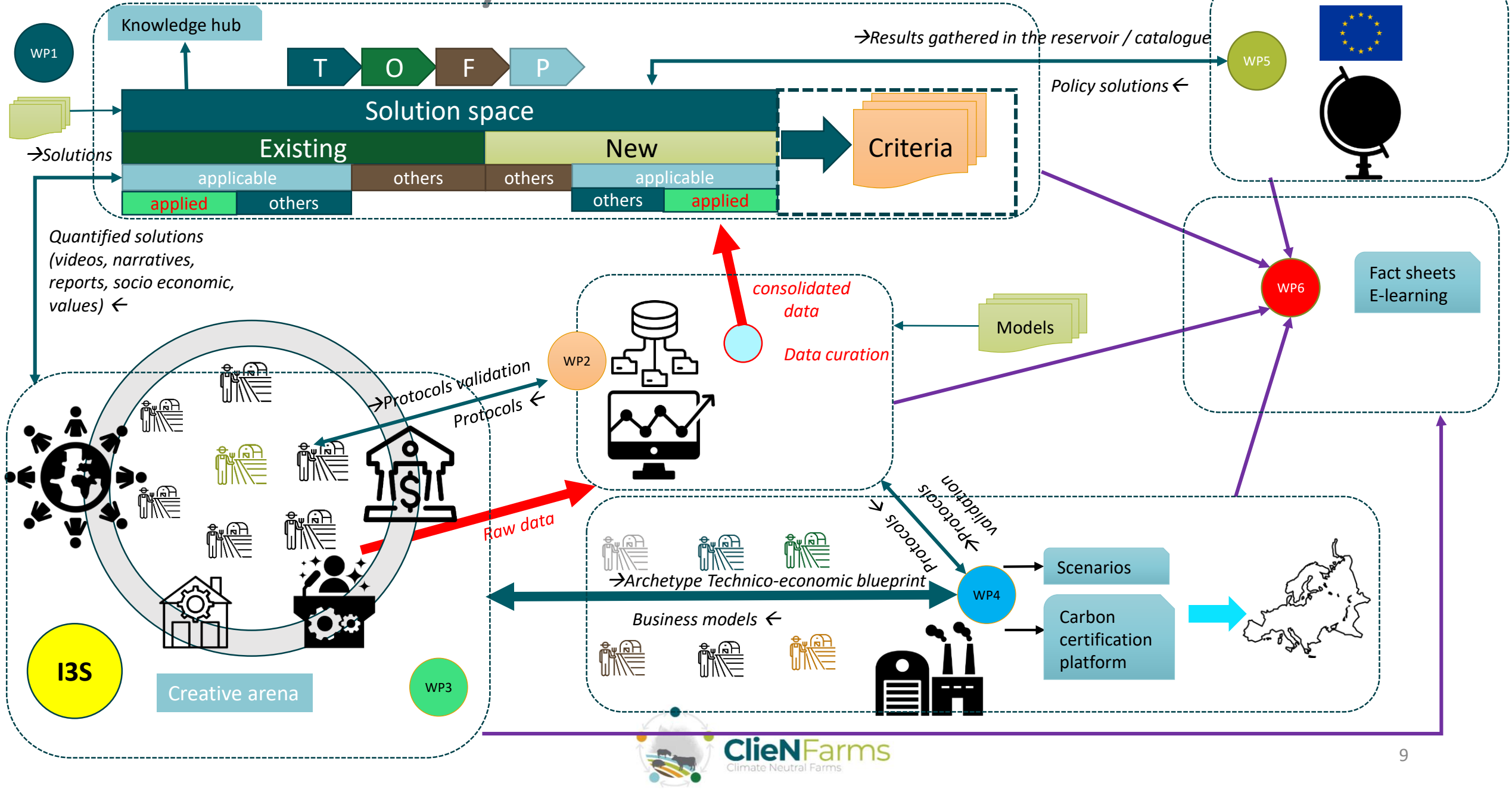
Listen to the story



Overall concept

The goal of I3S is to develop business models that ensure the financial sustainability of the solutions, with an upscaling methodology.

Demonstration Farms (DF)

Farms that are experimental/research sites on which a range of existing solutions will be tested, to reduce GHG emission and increase Carbon storage and sequestration.

Lead Commercial Farms (LCF)

Commercial farms who are pioneers in innovation testing and are well connected to the DFs, contextualizing prototypes in an operational environment.

Outreach Farms (OF)

Comprises the surrounding network of the LCFs. Several events regarding this network will be organized, allowing the project results to be presented and empowering farmers for adoption.

Replication Farms (RF)

Includes the replication of successful systems through the supply chains that are either local, national or even international.

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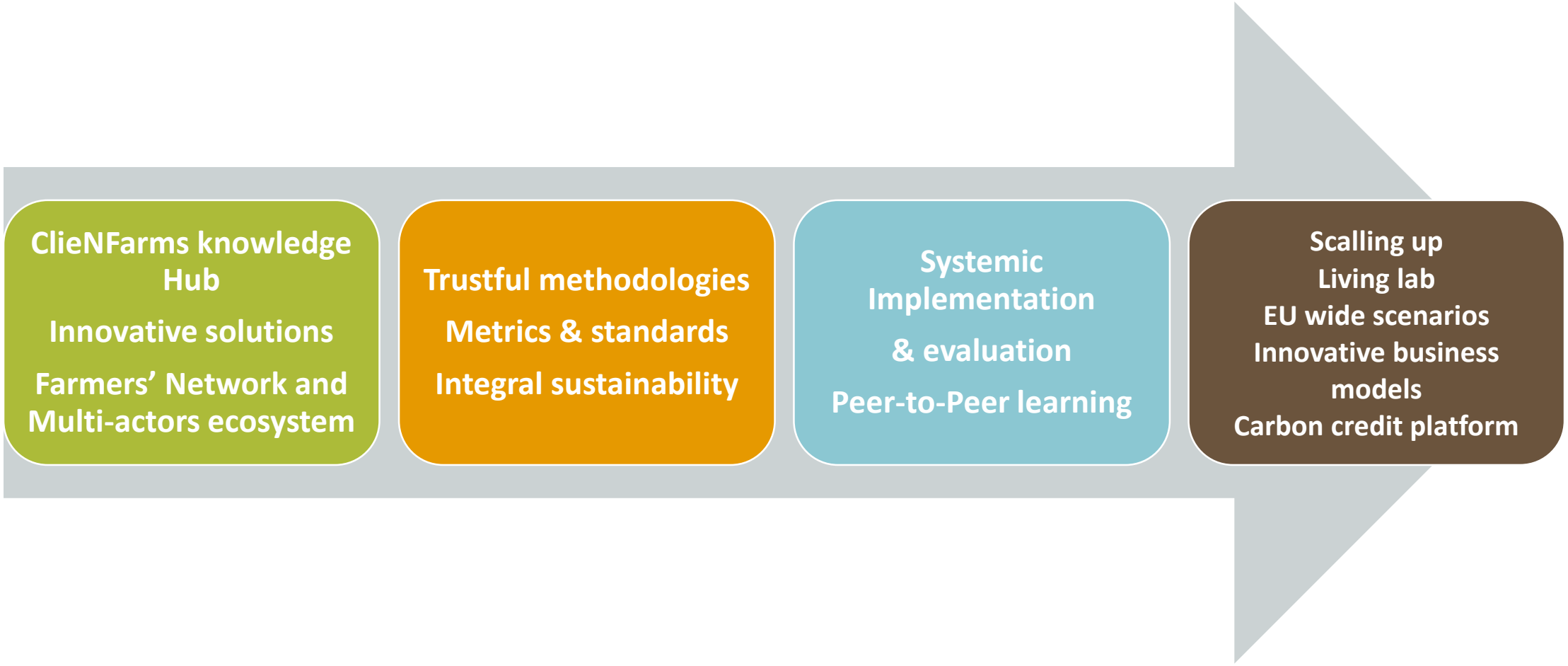
General outputs



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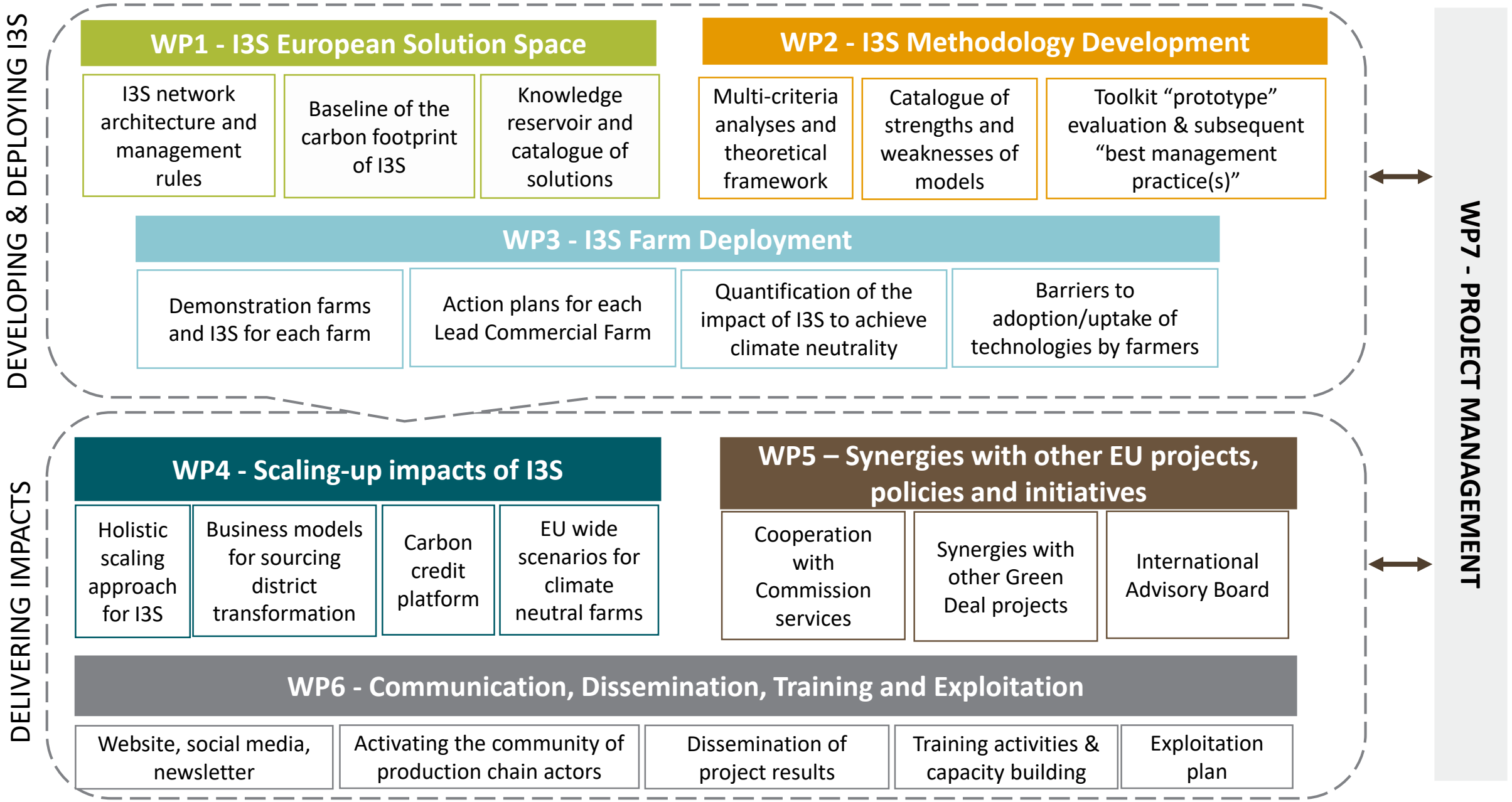
DEVELOPING & DEPLOYING I3S
WP1 - I3S European Solution Space
I3S network architecture and management rules
Baseline of the carbon footprint of I3S
Knowledge reservoir and catalogue of solutions
WP2 - I3S Methodology Development
Multi-criteria analyses and theoretical framework
Catalogue of strengths and weaknesses of models
Toolkit "prototype" evaluation & subsequent "best management practice(s)"
WP3 - I3S Farm Deployment
Demonstration farms and I3S for each farm
Action plans for each Lead Commercial Farm
Quantification of the impact of I3S to achieve climate neutrality
Barriers to adoption/uptake of technologies by farmers
DELIVERING IMPACTS
WP4 - Scaling-up impacts of I3S
Holistic scaling approach for I3S
Business models for sourcing district transformation
Carbon credit platform
EU wide scenarios for climate neutral farms
WP5 – Synergies with other EU projects, policies and initiatives
Cooperation with Commission services
Synergies with other Green Deal projects
International Advisory Board
WP6 - Communication, Dissemination, Training and Exploitation
Website, social media, newsletter
Activating the community of production chain actors
Dissemination of project results
Training activities & capacity building
Exploitation plan
WP7 - PROJECT MANAGEMENT

Expected Impacts

Demonstrate that innovative systemic solutions have the potential to generate positive impact by 2030.

- Achieving climate neutrality of farms and farming systems
- Reducing GHG emissions
- Increasing carbon sequestration and storage

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Expected Impacts

Providing sufficient, safe, nutritious, healthy and affordable food for all.

Improving the overall sustainability of food systems.

Improving the resilience of food systems to shock and stress.

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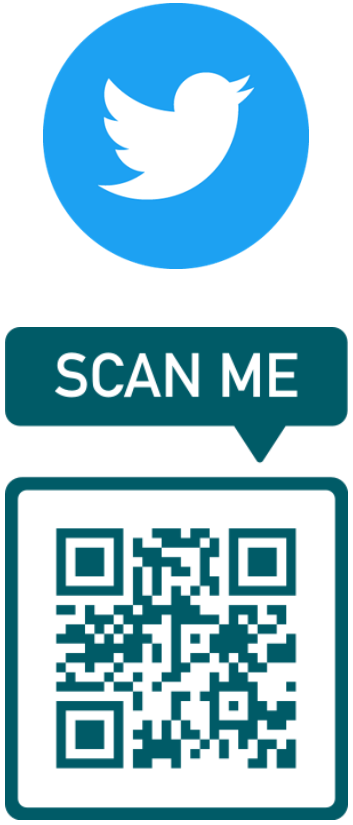
Follow us on our digital channels!



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Thank you for your attention!

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