



# EcoStack

## **Stacking of ecosystem services:**

mechanisms and interactions for optimal  
crop protection, pollination enhancement  
and productivity



# The Project

Agriculture has to face the great challenge of balancing the demand for high productivity, imposed by the global increase of human population, with environmental impacts and social acceptability of new production strategies.

EcoStack, a 5-year Research and Innovation Action, under the EU Horizon 2020 programme, has started on September 10, 2018, and includes 24 partners with complementary expertise, covering all major pedoclimatic production zones and major agricultural production systems in Europe.

The overall goal of the project is to develop and support ecologically, economically and socially sustainable crop production via stacking of biodiversity service providers and bio-inspired tools.

EcoStack will use transdisciplinary research methods and will promote active participation of multi-actor groups across Europe in order to create new knowledge, transfer the know-how, co-design new cropping systems, and use stakeholder-guided development of new agricultural concepts for generating economic and ecological benefits for farmers, biodiversity and society.

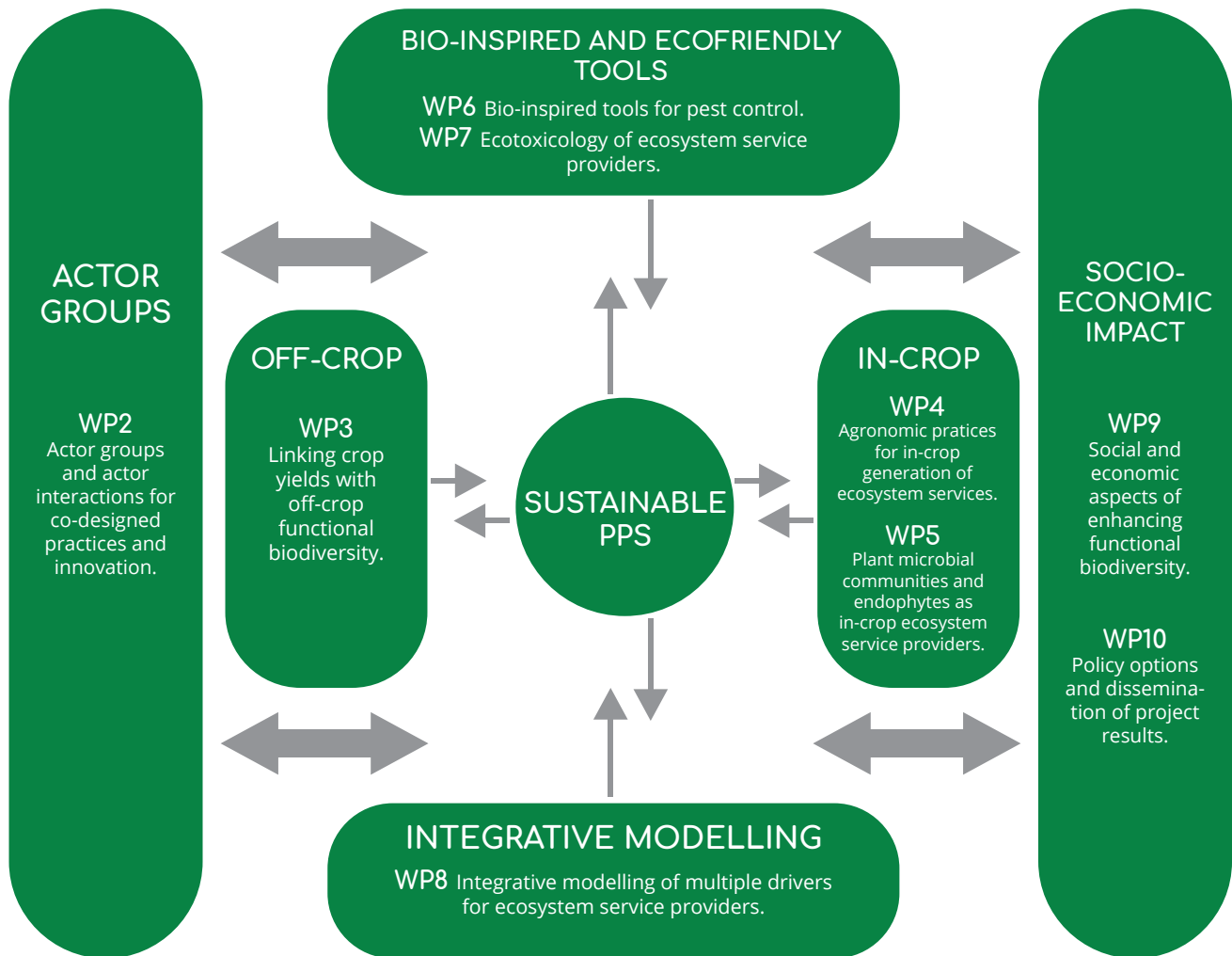
## Objectives

EcoStack has four major objectives:

- Assess sustainable crop production needs, and EcoStack outcomes, based on functional biodiversity, using an interactive forum of actor groups and stakeholders, to achieve sustainable productivity gains
- Evaluate and optimise the role of main off-crop habitats supplying ecosystem services for crop production
- Design and test in-crop interventions, which support the generation of ecosystem services within the crop, and which may carry over to the next crop in the rotation
- Develop, design and implement integrated systems for optimised provision of ecosystem services and use of plant protection tools, with focus on ecological, economic and social sustainability of integrated systems

## Structure

The structure of EcoStak includes 9 scientific Work Packages (WP), that are designed to develop sustainable strategies for plant production and protection strategies (PPS).





24 PARTNERS FROM 13 COUNTRIES



This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 773554.  
Duration of project: September 2018 - September 2023

# Partners



01 – UNA Italy

Università degli Studi di Napoli  
Federico II



02 – SLU Sweden

Sveriges Lantbruksuniversitet



03 – AU Denmark

Aarhus Universitet



04 – Rres United Kingdom

Rothamsted Research Limited



05 – UNE United Kingdom

University of Newcastle Upon Tyne



06 – ISARA France

Institut Supérieur d'Agriculture  
Rhône Alpes I.S.A.R.A.



07 – JKI Germany

Julius Kühn-Institut  
Federal Research Centre for Cultivated Plants

U N I K A S S E L  
V E R S I T Ä T

08 – UKA Germany

Universitaet Kassel



09 – LUKE Finland

Luonnonvarakeskus



10 – AUPL Bulgaria

Agraren Universitet-Plovdiv



11 – FBUB Serbia

Faculty of Biology University of  
Belgrade



12 – UBL Bosnia Herzegovina

Univerzitet u Bonjoj Luci



13 – UJA Poland

Uniwersytet Jagielloński



14 – UC Portugal

Universidade de Coimbra



15 – UB Spain

Universitat de Barcelona



16 – ProAG Finland

Proagria Keskusten Liitto Ry



UNIVERSITAT ID VALÈNCIA

17 – UVEG Spain

Universitat de Valencia



18 – KON Germany

Kompetenzzentrum Okolandbau  
Niedersachsen GMBH



19 – FOR Finland

Forestum OY



20 – AT Finland

Aasatek OY



21 – LLH Germany

Hessisches Ministerium für Umwelt,  
Klimaschutz, Landwirtschaft und  
Verbraucherschutz



22 – KOP Spain

Koppert Espana SL



23 – UTU Turun Yliopisto

Finland



24 – CPI United Kingdom

Centre for Process Innovation  
Limited



# EcoStack



Website:

[www.ecostack-h2020.eu](http://www.ecostack-h2020.eu)

E-Mail:

[info@ecostack-h2020.eu](mailto:info@ecostack-h2020.eu)

Project Coordinator:

Professor Francesco Pennacchio

University of Napoli "Federico II" - Italy



EcoStackH2020



EcoStackH2020