



## Integrating agroecology with the downstream: food value chains



# AGRI Innovation

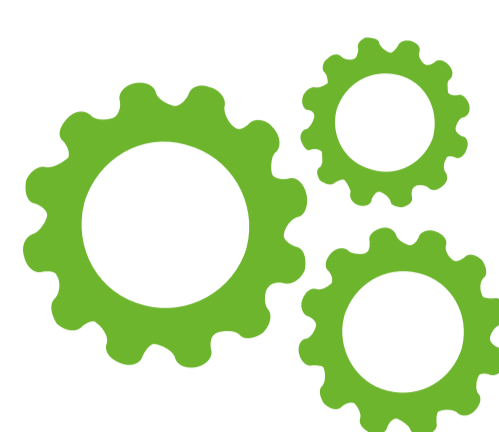
summit 2019



## H2020 Multiactor Project

### EcoStack

EcoStack



## Practical problem

EcoStack will develop sustainable crop production strategies via stacking of biodiversity service providers and bio-inspired tools for crop protection.



## Partners

UNA, SLU, AU, RRes, UNE, ISARA, JKI, UKA, Luke, AUPL, FBUB, UBL, UJA, UC, UB, ProAg, UVEG, KÖN, FOR, AT, LLH, KOP, UTU, CPI.



## Calendar

Start: 01/01/2018  
End: 01/01/2023



## Budget

Total amount:  
€10,050,109.75

## Objectives of the project

EcoStack will provide European farmers with the knowledge and tools needed to maximise ecosystem services for the production of crops, while minimising environmental impacts of agriculture and ensuring the profitability of farming. The objectives will be achieved by stacking ecosystem services to enhance synergistically the effective interplay of the ecosystem services providers (ESP). We will make full use of increased knowledge of interactions between trophic levels and will manage and assess functional biodiversity benefits and stack them for maximising farmer benefits and system resilience.

## Main activities

EcoStack's work is divided into 9 scientific, interlinked work-packages (WP). Based on an adaptive co-management strategy, the key concept is the co-development of knowledge between actors at different hierarchical levels. Data and strategies to operationalise innovative management and techniques come from experimental work packages (WP3-7) and are fed to WP8, which integrates the information to provide impact assessments of strategies. This information is provided to WP9 where social impacts and social components of choice are integrated to produce predictions of uptake and expected real world impact. This information is returned to the Actor Groups (WP2) for generating new strategies.

## Expected results

EcoStack will integrate agricultural management, landscape characteristics and the delivery of ecosystem services, to provide tools for upscaling and evaluating management strategies. This output directly addresses the requirement for "improved overall sustainability and innovation capacity of the farming systems". In the longer-term, results from EcoStack will contribute to greater resilience in agricultural production by reducing pesticide residues in the food chain, so enhancing human health, and reducing environmental contamination. This will increase consumer trust in agricultural commodities and strengthen European competitiveness in this sector of the market.

## Results so far/first lessons

The planned experimental work will adopt cutting edge technologies in various areas of science, which will allow an unprecedented analysis of complex phenomena from an ecological, technological and social perspective. The stakeholder-driven development of novel approaches aiming to analyse, and then maximise the benefits provided by the ESP, will favour the uptake of the novel management strategies. This process will also be facilitated by the adoption of the sophisticated modelling tools which EcoStack will generate, that will enable the best solutions to be found which effectively address the ecological and social peculiarities of the many scenarios occurring across Europe.

## Who will benefit

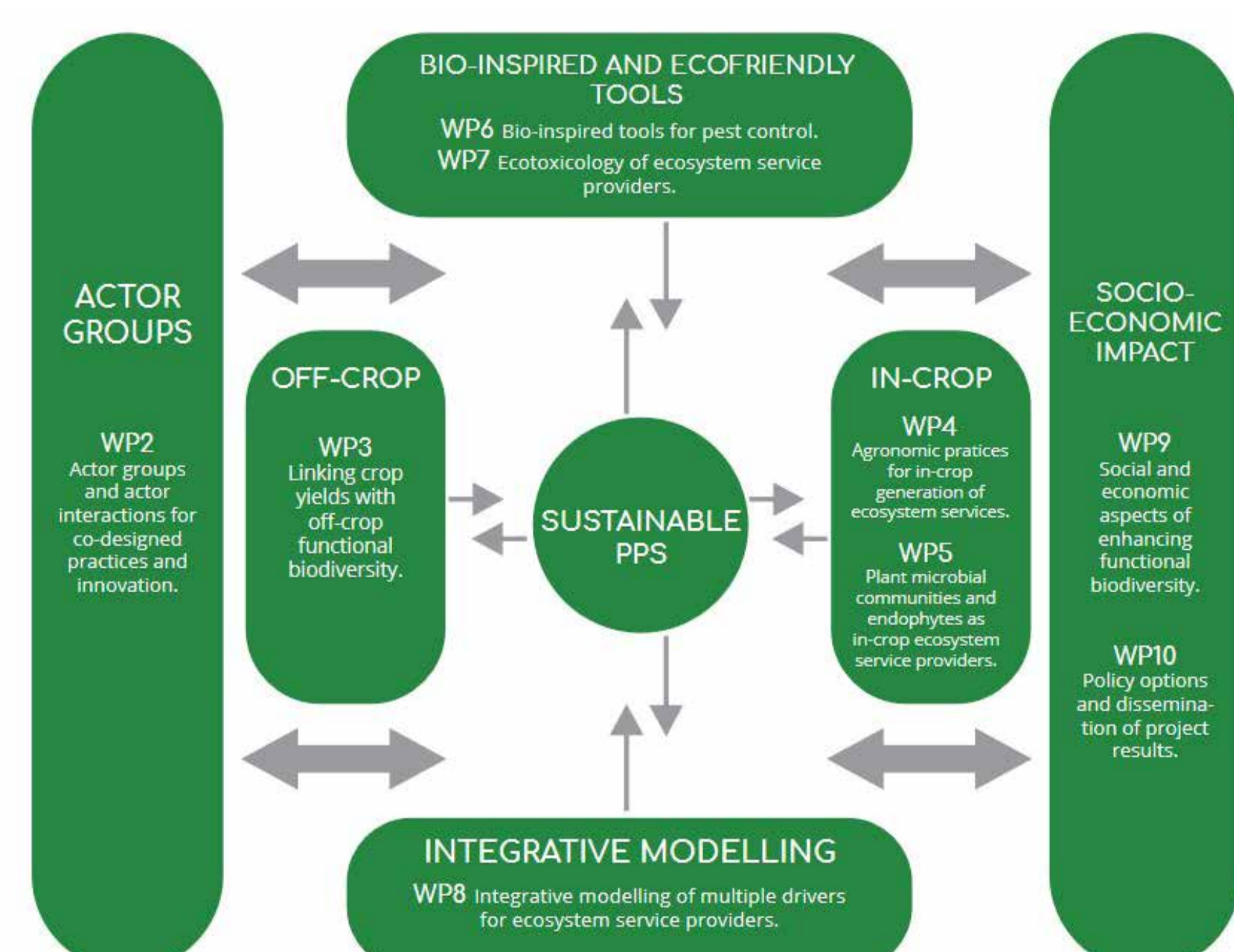
The results of this project will have an impact on key groups of end-users: farmers, scientists, industry support sector (including advisors and suppliers, retailers), policy-makers, regulators, society as a whole, and many other sectors such as eco-tourism. Throughout the dissemination and exploitation activities EcoStack has built in structures, which aim to ensure maximum and lasting impact far beyond the lifetime of the project.

## Supported by:

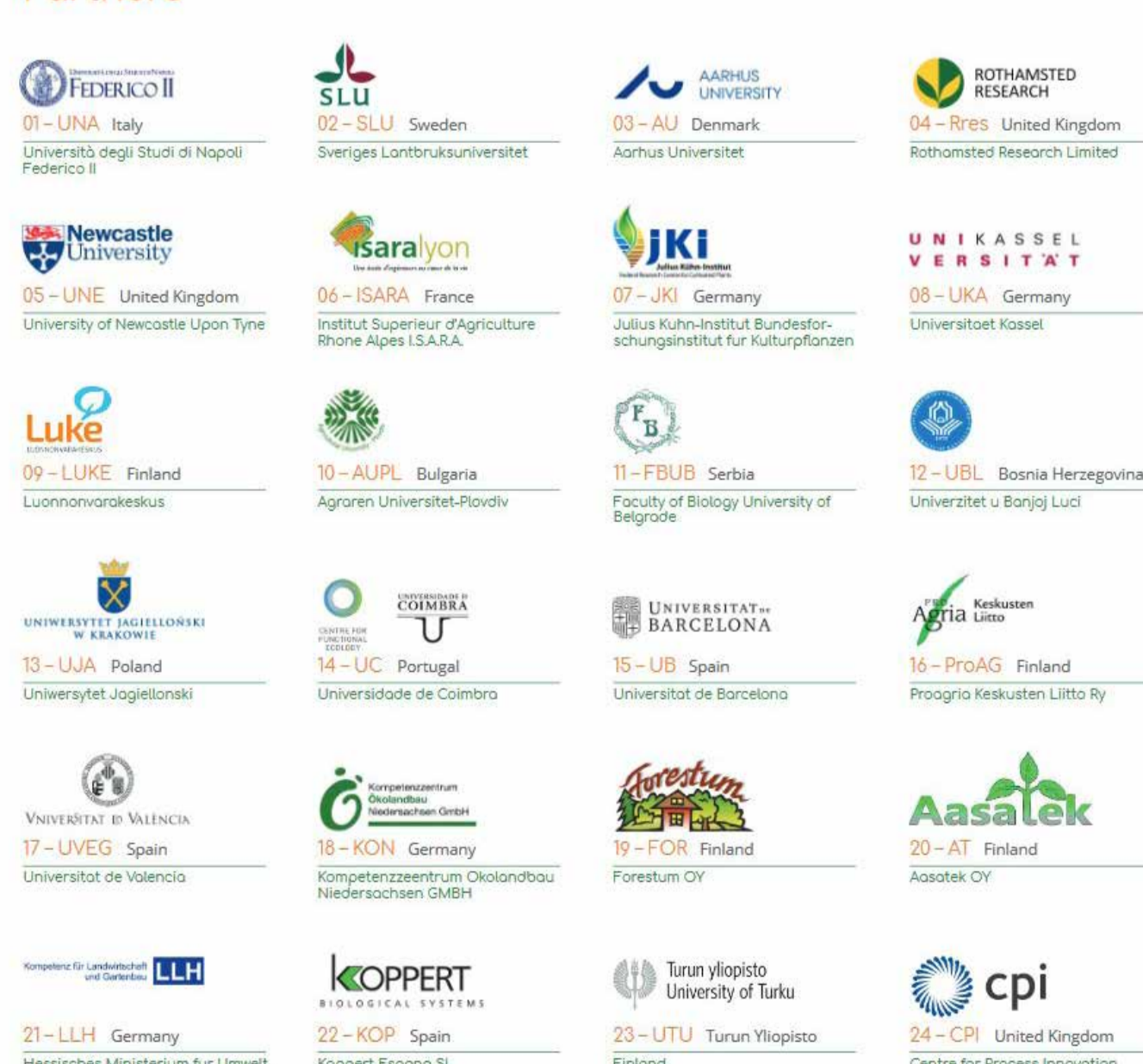


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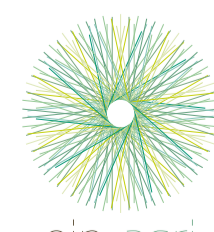
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### Partners



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