



ERA-NET **SUSAN**

ANIMAL-FUTURE

STEERING ANIMAL PRODUCTION SYSTEMS TOWARDS SUSTAINABLE FUTURE

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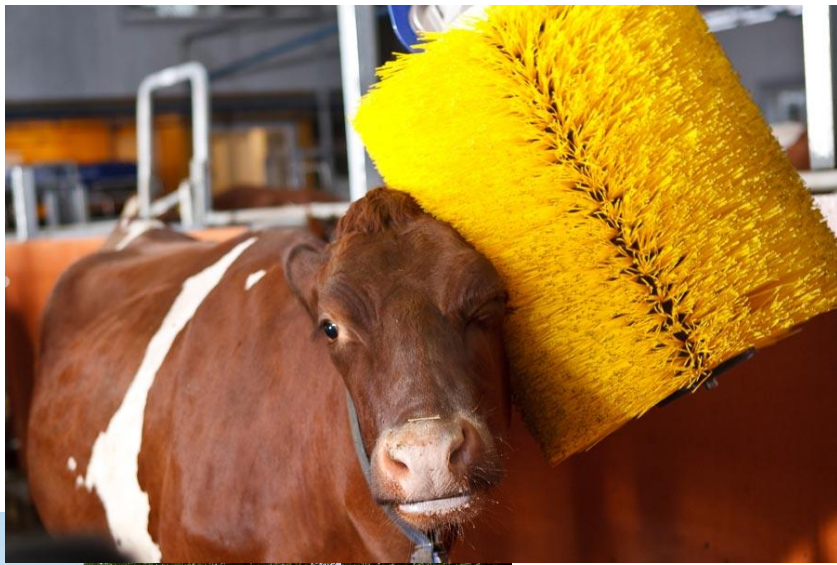
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EUROPEAN RESEARCH AREA ON SUSTAINABLE ANIMAL PRODUCTION



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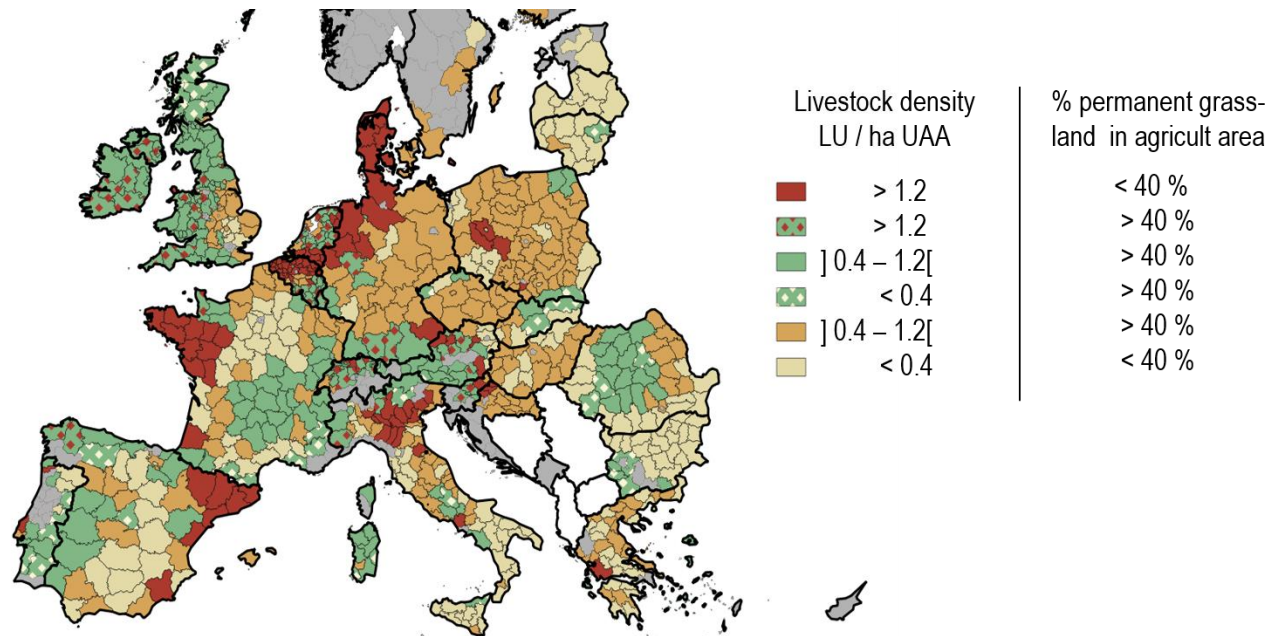


Many innovations



Challenge (1/3)

- No silver bullet → APS are heterogeneous

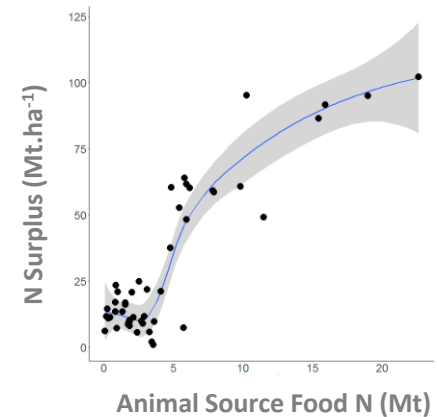
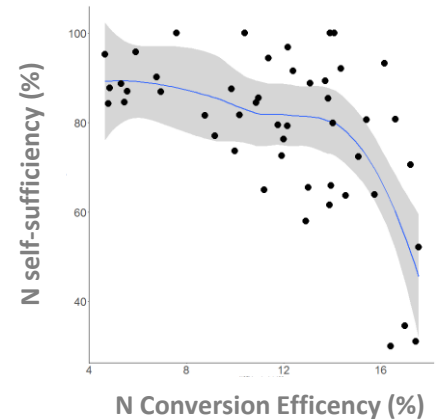


(after Dumont et al. 2017)



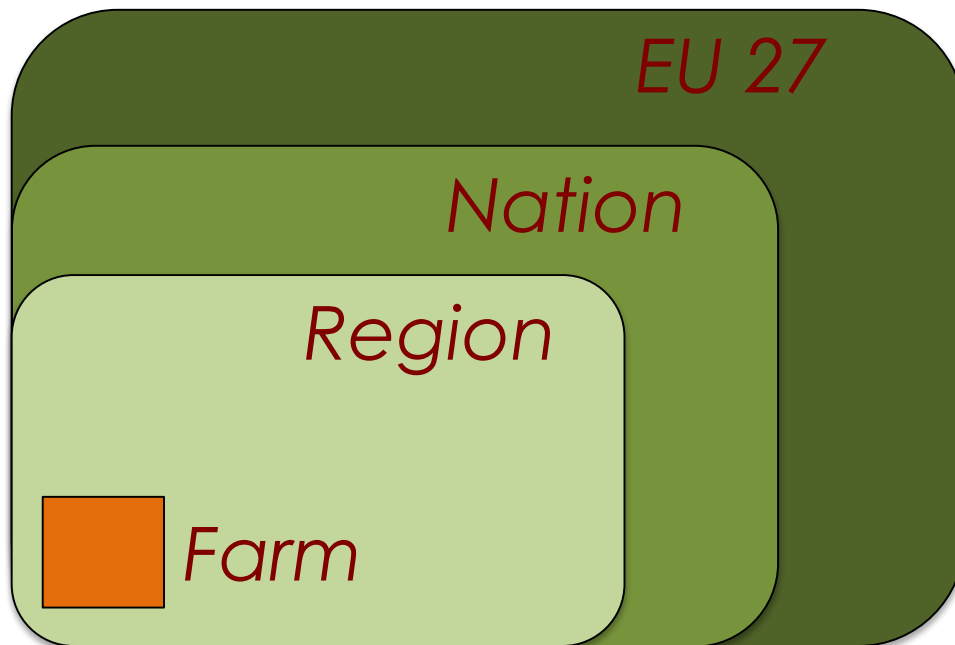
Challenge (2/3)

- Multi-dimensional consequences of innovations are unknown



Challenges (3/3)

- What works at a given level may not work at another level



Current needs ?

- Tool for comprehensive sustainability assessment of innovations from the ground
- Spotting '**where**' innovations will be more effective
- Innovations based on combination of solutions across levels



Project goal

**Design effective strategies for
assessing and enhancing the
sustainability of animal
production systems**

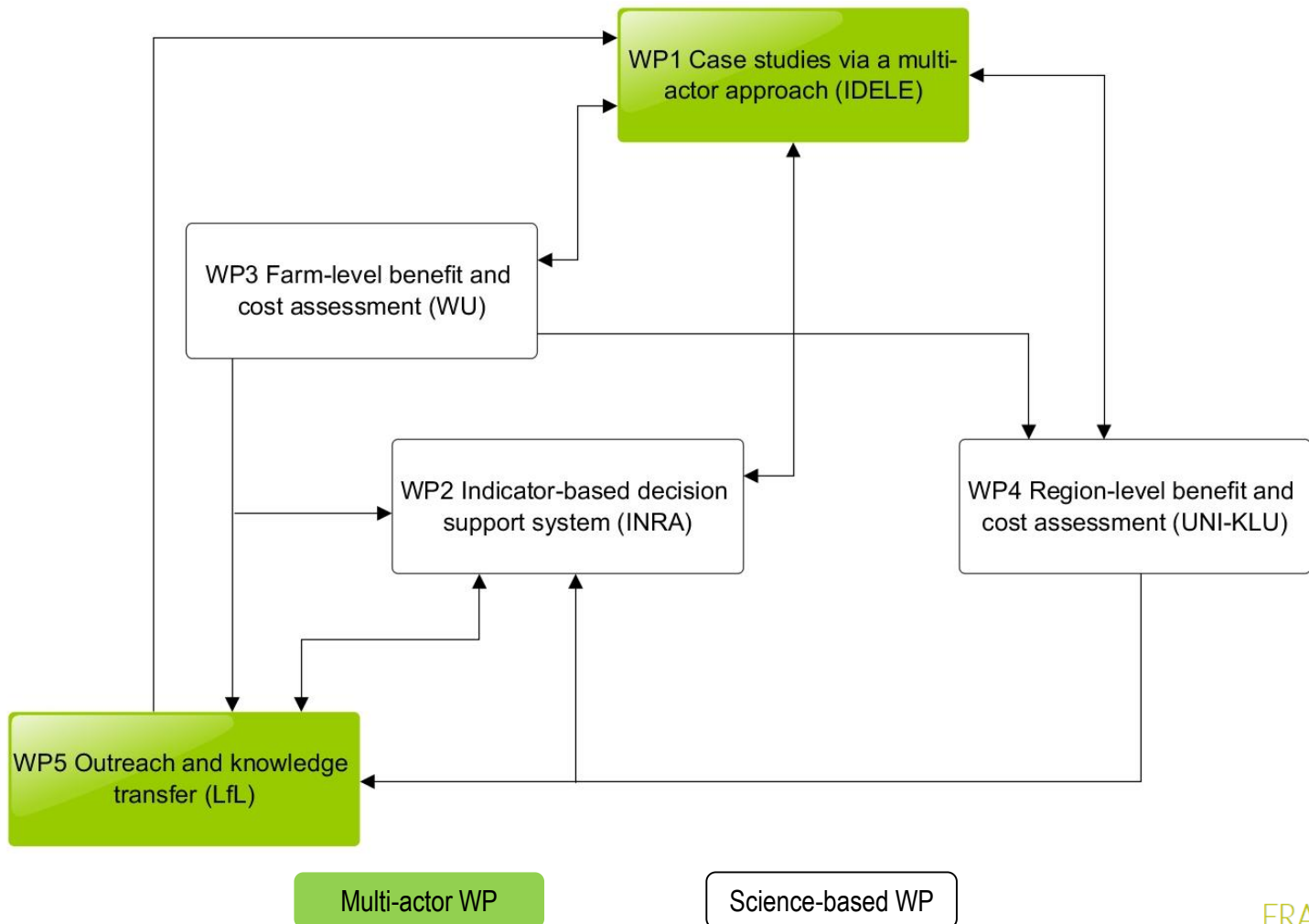


Objectives

- To define with case study actors innovative practices and their potential benefits and costs (WP1)
- To quantify the impact of these innovative practices on the benefit-cost portfolio at farm – regional – national – EU level (WP3 – WP4)
- To develop an evidence-based and easy-to-use tool enabling animal production actors to select the most appropriate innovative practices (WP2)
- To promote sustainable practices amongst animal production actors (WP5)



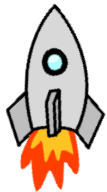
Project structure



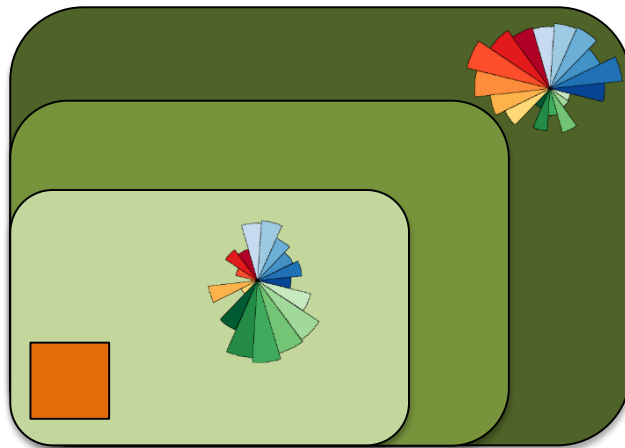
The solution we are proposing

Main project deliverable / result

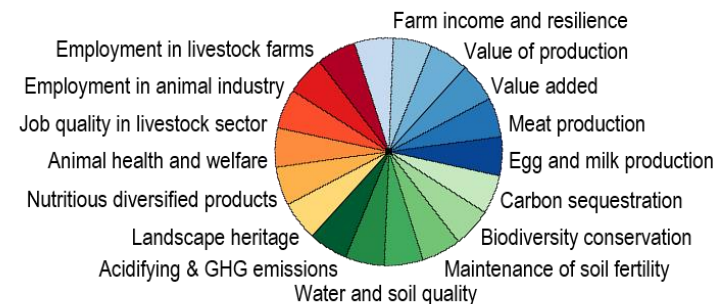
A DSS **decision support system** that enables a science-based evaluation of **innovations from the ground**



Indicator-based DSS



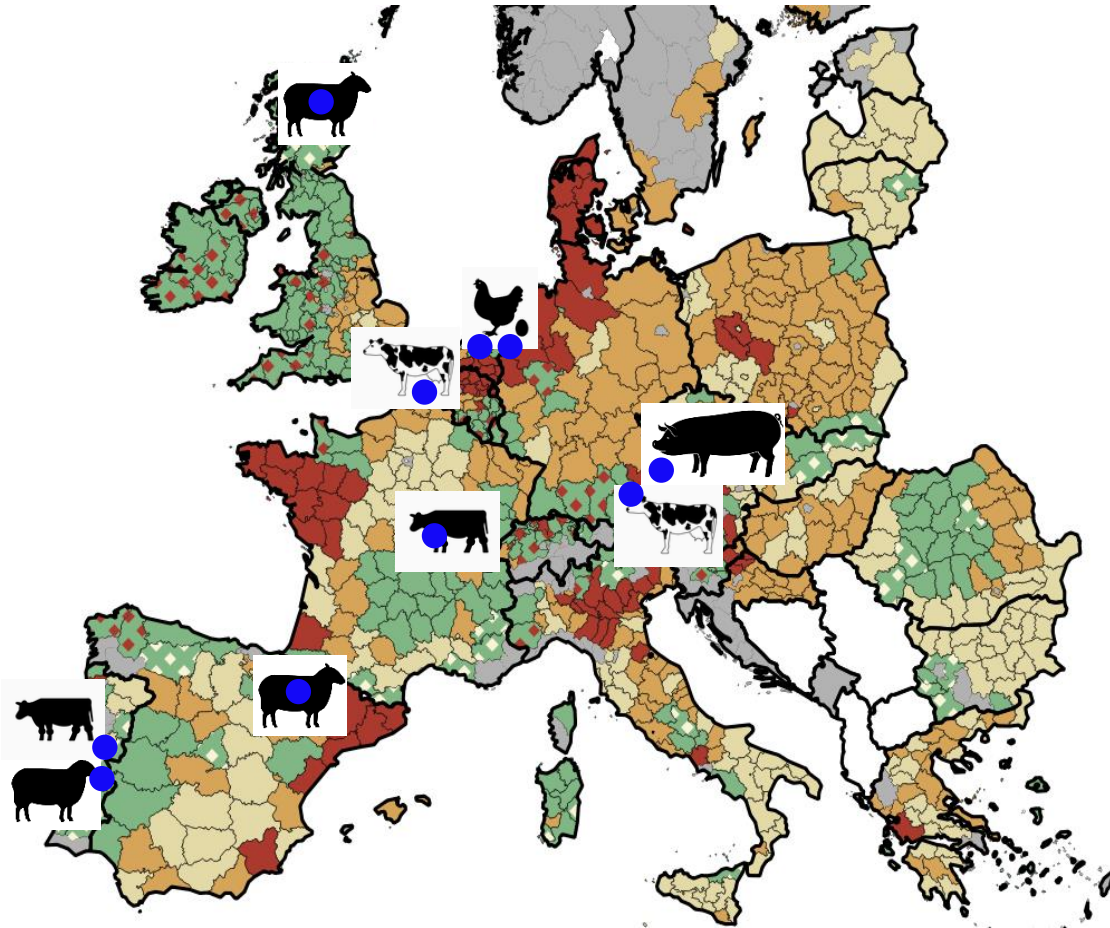
A set of indicators measuring **benefit-cost portfolios** provided by APS



(Ryschawy et al. 2017)



Who will this solution benefit ?



Who will this solution benefit ?

Through the case study network we involve target users and other stakeholders in the project and post project impacts

- 200 livestock farms in 10 European regions
- 7 farmers organizations
- 5 cooperatives
- 2 Industry meat or dairy processors
- 1 retailer
- 1 breeding industry
- 5 advisory organizations
- 2 welfare / environment NGO



How will it benefit target users and other stakeholders

Potential impacts

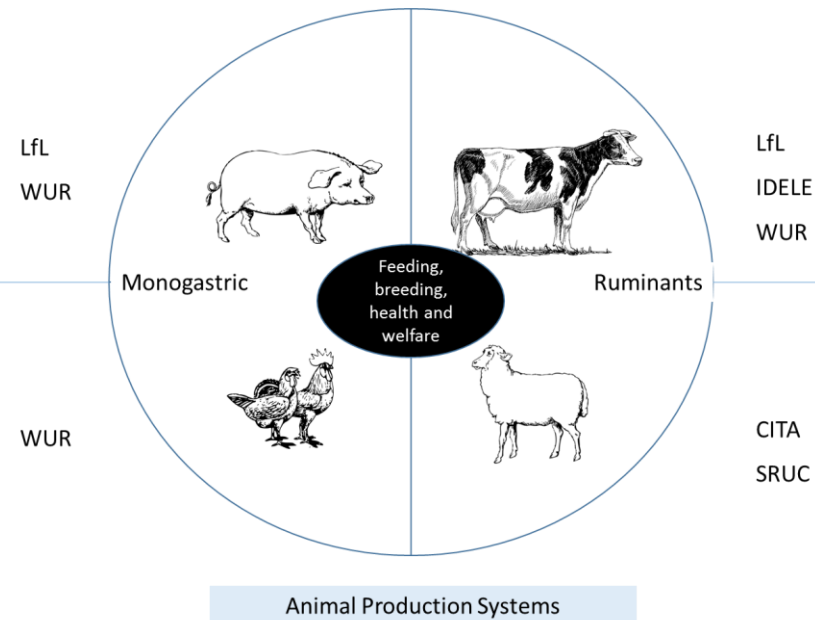
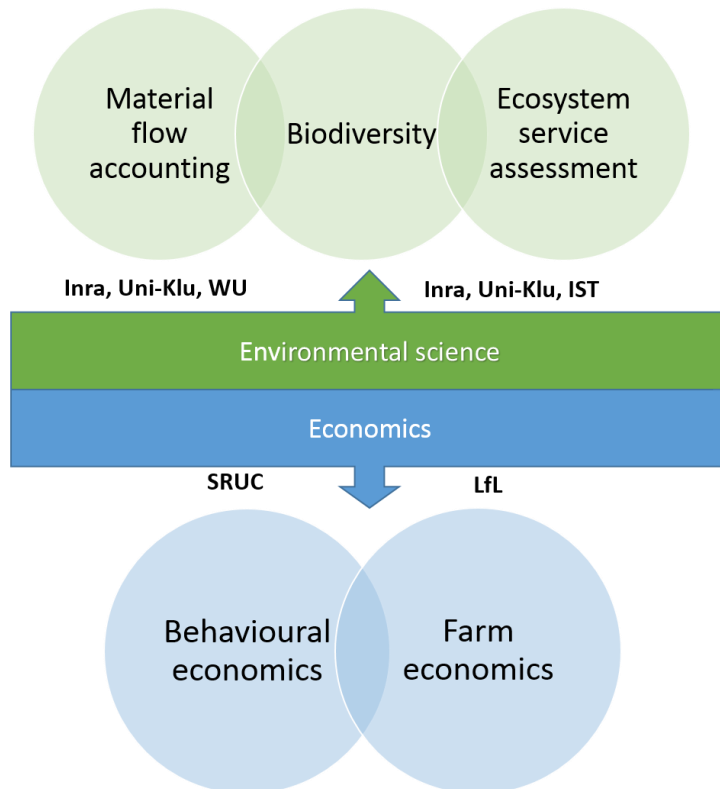
- **At case study level** = empowering the innovation potential of livestock actors by a correct understanding of benefit-cost portfolios
- **At farm level** = Moving farm management closer to the production frontier while considering tradeoffs
- **At regional, national and EU levels** = Enabling regions to better understand the impacts of APS on the environment
- **Across levels** = Better and more informed decision making thanks to the DSS which presents the cross-scale consequences of different innovations
- **Among actors** = Raising actors' awareness on the benefits and costs of different innovations; improved self-image of farmers; improved societal image of APS



Consortium



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Thank you !



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