

PARTNERS



UK

University of Leeds (UNIVLEEDS)
Centre for Ecology and Hydrology (CEH)
Cambridge Econometrics Limited (CE)



Germany

Helmholtz Centre for Environmental
Research - UFZ (UFZ)
Technische Universität Dresden (TUD)
Mundialis GmbH & Co.KG (MUND)



Switzerland

University of Basel (UNIBAS)



Czech Republic

Univerzita Palackého v Olomouci (UPOL)



Spain

Centro de Investigación Ecológica y
Aplicaciones Forestales (CREAF)
Departament d'Agricultura, Ramaderia,
Pesca i Alimentació (DARP)



Belgium

The Rural Investment Support for Europe
Foundation (RISE)



Serbia

Research and Development Institute for
Information Technologies in Biosystems
(BIOS)



Bulgaria

Pensoft Publishers (PENSOFT)



BESTMAP

BEHAVIOURAL, ECOLOGICAL & SOCIO-ECONOMIC
TOOLS FOR MODELLING AGRICULTURAL POLICY



BESTMAP

KEYWORDS 🔍

Behavioural change theory, Ecosystem services,
Agricultural economics, Rural policy impact
assessment, Agent-based modelling, Biophysical
modelling, Farming Systems Archetypes

CONSORTIUM 👤

13 partners from 8 European countries

DURATION 📅

September 2019 – February 2024

PROJECT COORDINATOR 👤

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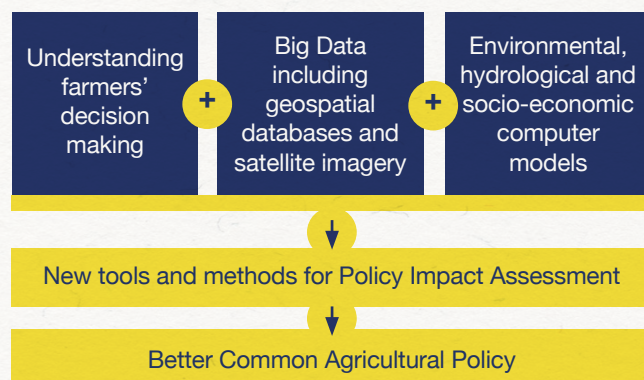
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BEHAVIOURAL, ECOLOGICAL AND SOCIO- ECONOMIC TOOLS FOR MODELLING AGRICULTURAL POLICY



MISSION & VISION

The European Common Agricultural Policy (CAP) supports the livelihood of 11 million farmers while maintaining environmental standards and good agricultural practices over half of the European Union (EU) land. However, pressures including land-use intensification, abandonment and climate change remain a challenge to the current CAP and its implementation.

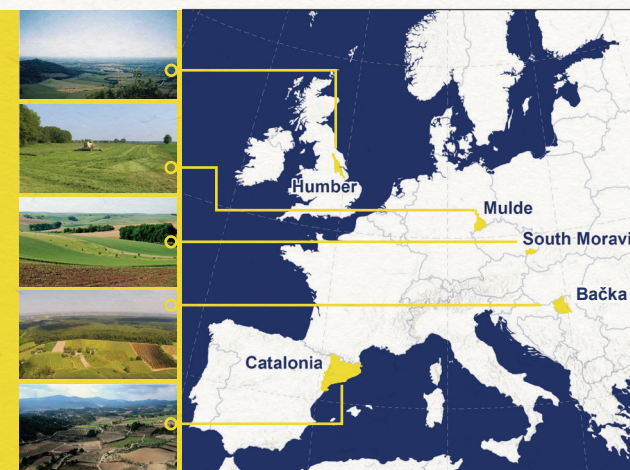


BESTMAP IS WORKING ON

- Developing a behavioural theoretical modelling framework to take into account the complexity of farmers' decision-making.
- Developing, adapting and customising a suite of open source, flexible, interoperable and customisable computer models linked to existing data e.g. LPIS/ IACS and remote sensing e.g. Sentinel-2.
- Linking economic, individual-farm agent-based, biophysical ecosystem services and biodiversity and geostatistical socio-economic models.
- Producing a simple-to-use dashboard to compare scenarios of Agri-Environmental Schemes adoption.
- Improving the effectiveness of future EU rural policy design, monitoring and implementation.

CASE STUDIES

- BESTMAP is demonstrating its novel modelling framework in five case study areas across the EU
- Protocols, guidelines and a roadmap to extend the approach are being developed
- Initial upscaling efforts to an EU analysis are being conducted



	Humber (UK)	Mulde (DE)	South Moravia (CZ)	Bačka (RS)	Catalonia (ES)
Area (km ²)	4 664	5 814	2 089	8 218	32 106
Precipitation (mm)	626	828	657	613	575
Temperature (°C)	9.6	6.9	8.5	16	13.9
Field size (ha)	2.5	6.3	6.1	5.4	0.7
Farm size (ha)	90	157	96	10.6	19
Land in agriculture	 79%	 54% 9%	 57% 5%	 84%	 27%
Main crops (in order of prevalence)					
Other agricultural uses					