



How GeoAI helps advance rural development

Markéta Kollerová



This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101136910



From spatial intelligence to better rural decisions

20 partners | 9 pilots | rural-urban development

GeoAI + EO + participatory governance

<https://www.poliruralplus.eu/>



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Fostering sustainable, balanced and inclusive rural-urban development

What we do

- **Foresight-driven regional planning**
- **AI & geospatial decision support**
- **Stakeholder participation**
- **Regional Action Plans (RAPs)**

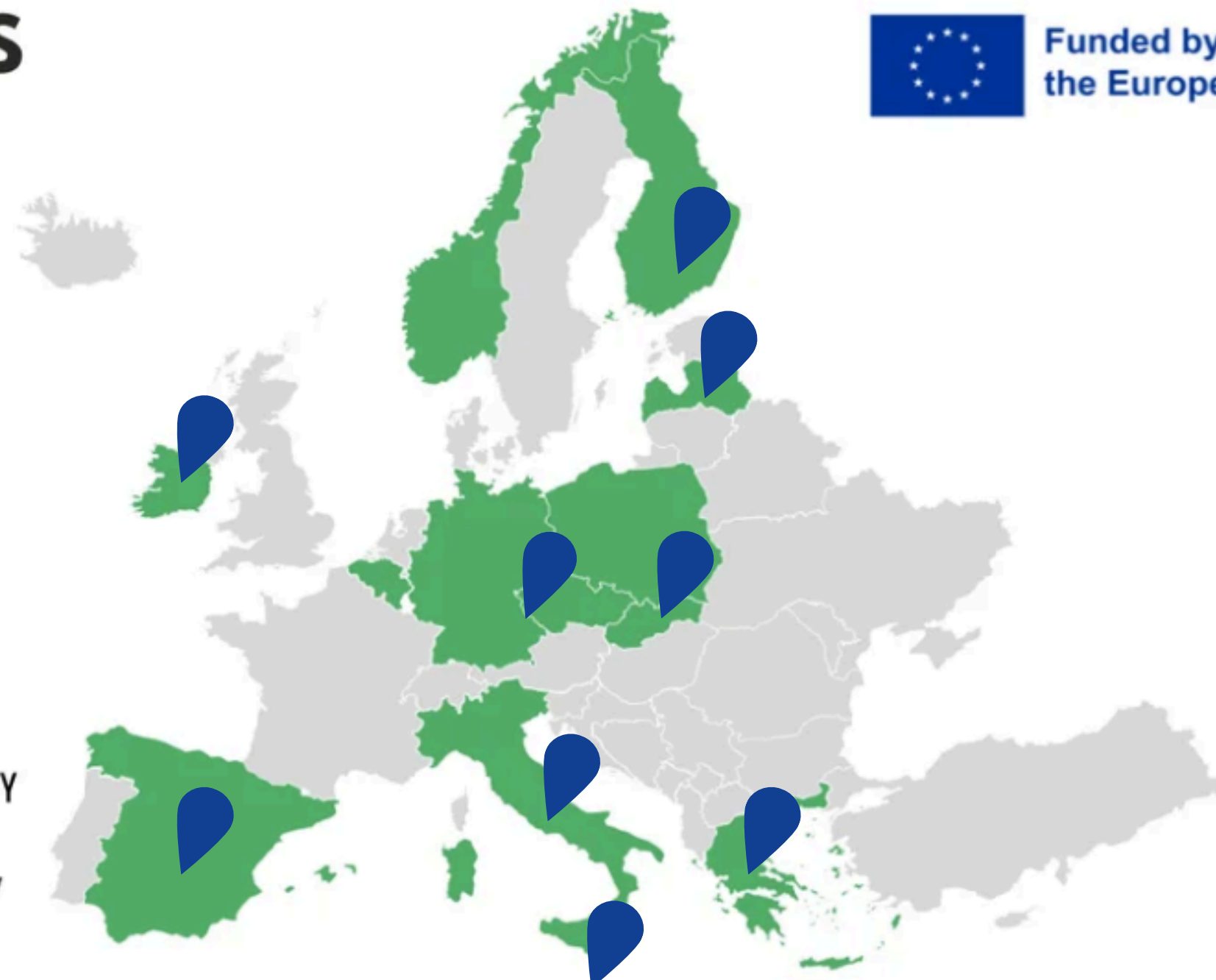


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PROJECT PARTNERS

-  **CZECH TECHNICAL UNIVERSITY**
Higher Education Establishment
-  **THE NATIONAL MICROELECTRONICS APPLICATIONS CENTRE LTD**
Private for-profit entity
-  **SLOVAK RURAL YOUTH PARLIAMENT**
Association
-  **GAIA EPICHEIREIN**
Private for-profit entity
-  **TINADA**
Private for-profit entity
-  **SMART & LEAN HUB OY**
Private for-profit entity
-  **PLAN4ALL**
Non-profit organisation
-  **ASPLAN VIAK**
Private for-profit entity
-  **SOCIALINNO LABS**
Research Organisation
-  **VIDZEME PLANNING REGION**
Public body

-  **MONAGHAN INTEGRATED DEVELOPMENT CLG** Local Development Company
-  **SLOVAK UNIVERSITY AGRICULTURE**
Higher Education Establishment
-  **AGRICULTURAL UNIVERSITY OF ATHENS**
Higher Education Establishment
-  **NEUROPUBLIC**
Private for-profit entity
-  **MALLUSJOKI YOUTH ASSOCIATION**
Association
-  **CZECH CENTRE FOR SCIENCE AND SOCIETY**
Research organisation
-  **DEGGENDORF INSTITUTE OF TECHNOLOGY**
Higher Education Establishment
-  **POZNAN SUPERCOMPUTING AND NETWORKING CENTER**
Research Organisation
-  **CREHAN, KUSANO & ASSOCIATES**
Private for-profit entity
-  **ACROSSLIMITS LTD**
Higher Education Establishment





POLIRURAL *plus*

EUR 900.000

OUTREACH	MOBILISE	DEVELOP	ENHANCE
6 projects	7 projects	6 projects	7 projects
5.000 € each	10.000 € each	100.000 € each	25.000 € each
Local stakeholders	Hackathons/ ideathons	Development of new tools	JackDaw enhancement



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**From data
to decisions:**

**PoliRuralPlus
Toolbox**



Advisor

Interactive analysis of the PoliRuralPlus Knowledge Space to support pilots with their RAPs.

[Use Advisor](#)



Jackdaw

An AI chat agent that empowers pilot leaders and stakeholders to interactively undertake map-based analysis for their region based on the best data that can be found about it.

[Use Jackdaw](#)



MAATool

A collaborative platform that facilitates stakeholders' engagement, data integration, and co-creation for developing and implementing Regional Action Plans (RAPs).

[Open MAATool](#)



Magpie

Searches an AI catalogue for a region.

[Use Magpie](#)



Vulture

User-driven co-design environment to support the transformation of planning & policy work using AI & automation tools.

[Use Vulture](#)



Reference database

Browse and search references in a comprehensive catalogue

[Search sources](#)



Raven

Catalog upload & metadata workspace for JackDaw ecosystem. Organise & Publish fragmented local data (e.g. documents, structured datasets, databases, etc) to be usable by AI-enabled applications.

[Use Raven](#)

Why GeoAI for rural development?

GeoAI helps answer:

**What is happening? | Where is it happening? |
What may happen next? | What should we do?**



agriculture



water & climate risks



land use



CAP & subsidy support



POLIRURAL
plus



GeoAI turning EO data into decision-ready intelligence

What is JackDaw?

A modular GeoAI capability that transforms:

- **Geospatial data**
- **Earth Observation**
- **Local & policy information**

➔ into decision-ready support



The future is not more data - it is better decisions

GeoAI can help regions:

- ✓ understand complexity
- ✓ connect data with local knowledge
- ✓ support farmers and policymakers
- ✓ make rural development more evidence-based

PoliRuralPlus = GeoAI for places, not only pixels





Thank you for your attention.

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Disclaimer

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Name of the project:

Fostering Sustainable, Balanced, Equitable, Place-based and Inclusive Development of Rural-Urban Communities' Using Specific Spatial Enhanced Attractiveness Mapping ToolBox

Thank You for Your Attention



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