PoliRuralPlus JackDaw Code Camp

Poznan Supercomputing and Networking Center (PSNC), Poznan, Poland

30 March - 1 April 2026

Introduction

Following the PoliRuralPlus JackDaw Code Camp held in Prague (13-15 January 2026), the consortium will convene a **second in-person development sprint hosted by PSNC in Poznan, Poland, on 30 March - 1 April 2026**. The event is organised as a hands-on hackathon/code camp intended to **accelerate the engineering roadmap of the JackDaw GeoLLM platform** and its replication across regions and application domains.

JackDaw is the PoliRuralPlus engineering platform for tool-using GeoLLMs. It combines large language models with metadata-driven discovery and invocation of authoritative geospatial datasets and services (e.g., via catalogue and API patterns aligned with OGC API - Records). JackDaw operationalises Retrieval-Augmented Generation (RAG) with geospatial retrieval (GeoRAG), so that responses and recommendations are grounded in retrieved evidence, spatial constraints, and traceable tool calls.

The technical scope is centred on three tightly coupled work streams:

- **Development of Model Context Protocol (MCP) servers** that expose authoritative datasets and geospatial processing services as callable tools, with machine-actionable interfaces suitable for automated selection and invocation.
- I**ntegration of data assets, metadata, and service endpoints into Retrieval-Augmented Generation (RAG) pipelines**, including GeoRAG patterns that combine textual retrieval with spatial filtering, semantic constraints, and provenance.
- **Extension and consolidation of reference workflows for tool-using GeoLLMs**, including minimal evaluation artefacts (test cases, baselines, and traceability of tool calls and retrieved evidence).

Participants will work in small engineering teams, supported by core-team instructors, to deliver code contributions suitable for integration into the JackDaw ecosystem (e.g., MCP server implementations, connectors and ingestion scripts, embedding and indexing components, example agents/workflows, and concise technical documentation). Outputs will be prioritised for immediate reuse in PoliRuralPlus deliverables and in aligned initiatives.

This document provides an initial introduction, including a draft programme and placeholders for registration and contact details. Technical prerequisites, collaboration repositories, and final logistical information will be distributed as part of the full invitation package.

Location

ul. Jana Pawła II 10
61-139 Poznan
https://maps.app.goo.gl/qm8W5WqJn89ba7o56

Registration and contact

Registration is required due to capacity constraints. The registration form link will be provided through the official event communication channels.

Registration link: https://forms.gle/XRaQUEujGsbdW9oV7

For more information, please contact:
Karel Charvat (charvat@ccss.cz), Raul Palma (rpalma@man.poznan.pl)

Draft programme (local time, CEST)

Date	Programme
Monday, 30 March 2026	10:00-12:00 Matchmaking and technical onboarding 12:00-evening Guided coding session
Tuesday, 31 March 2026	09:00-10:00 Wrap-up of Day 1 10:00-evening Coding session
Wednesday, 1 April 2026	09:00-10:00 Wrap-up of Day 2 10:00-15:00 Coding session 15:00-17:00 Conclusions (results, next steps, integration/merge plan)

Note: The programme may be adjusted based on team composition, available infrastructures, and prioritised integration targets.