

Poland

Head Office of Geodesy and Cartography

Continuing the development of easy-to-use e-services

“The Head Office of Geodesy and Cartography remains dedicated to the ongoing enhancement of e-services, prioritising user-friendliness and transparency with a key focus on the national geoportal. To align with user expectations, we have redesigned the interface of the website, simplifying its usability. Updates have been implemented across all thematic modules such as Geodesy and Cartography, Crisis Management, Spatial Planning and Agriculture – enhancing navigation intuitiveness and granting users more convenient access to the geoportal’s essential features.”

Alicja Kulka

General Surveyor of Poland,
Head Office of Geodesy
and Cartography

Poland’s Head Office of Geodesy and Cartography (GUGiK) continues to develop easy-to-use e-services aligned with EU priorities and global aspirations to underscore the critical role of spatial data and services.

Enhancements to the national geoportal and the use of artificial intelligence technologies directly address these challenges to contribute to a more resilient and informed society. It exemplifies how modern geospatial technologies can overcome challenges, drive sustainable development and contribute to achieving shared goals at both the national and international levels.

A new map composition for crisis management is among the highlights of 2024 and provides vital tools for responding to emergencies, supporting rapid decision-making, and minimising risks during critical situations. The ICEYE Analyses module enables the download of flood monitoring data obtained using ICEYE radar satellites equipped with synthetic aperture radars (SAR).

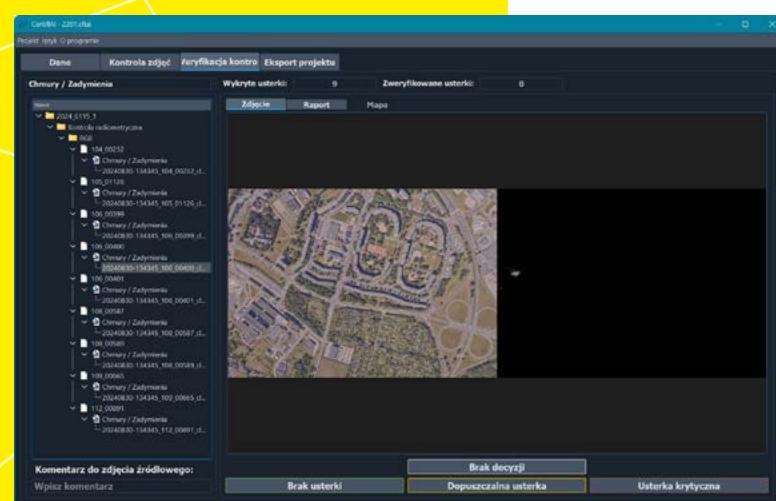
The images show the extent and depth of the flood, as well as analyses estimating the number of buildings and areas affected by flood. The analyses are provided as a WMS service.

GUGiK is also making use of AI through the implementation of Chatbot in the Geoportal as well as its IT applications CertifiAI and Soilmapping. CertifiAI detects a range of conditions in photos, including clouds/cloud shadows, smoke, haze, reflectors, discoloration, blurredness, and burnouts, while Soilmapping recognises texts and characters in a soil and agricultural map. Both enhance the user experience, making spatial data more accessible, actionable and valuable.

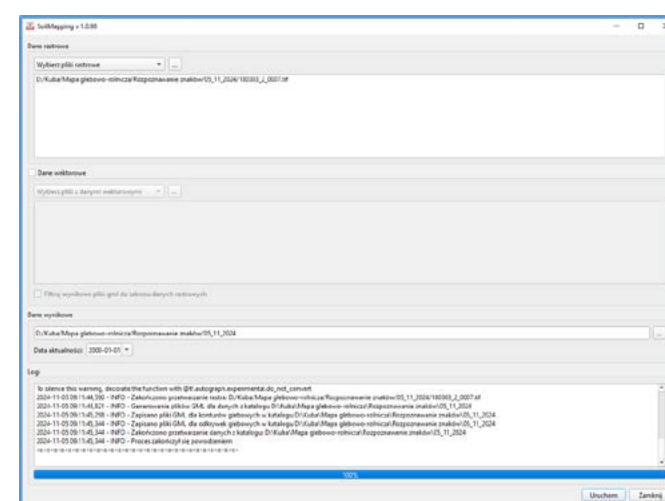
The Integration of the National Geodetic and Cartographic Resource (PZGiK) (Integration PZGiK) project will provide access to materials and orders for base maps or cadastral maps. Conducted under the European Funds for Digital Development 2021 – 2027, it will launch a consolidated e-service that will allow users to request data from PZGiK from any area in Poland in one place. This will enable requests for data from EGIB, GESUT BDOT500 databases and other materials, such as copies of PZGiK documents.

The project’s goals also include transforming country-level documentation from analog/hybrid format to digital format (database) format; integration with the country systems where the transformed documentation originates; and storing scanned and metadata-tagged technical reports and other documents in the PZGiK. Furthermore, it will covert large-scale analog maps into database format, including original maps on metal substrates, for example, district areas or sheets of the map containing (Land Parcels and Buildings) EGIB, (Geodetic Control Network) GESUT, and Topographical Feature Database500 (BDOT500) data.

The orthophotomap with ICEYE Analyses



Geoportal website with Chatbot



Benefits

- Facilitates the use of online spatial resources – ensures accessibility and usability for all, regardless of the level of expertise.
- Supports environmental data and local development plans by integrating data relevant to crisis management and local development.
- Empowers decision-makers with accurate and up-to-date spatial information for sustainable planning.
- Enables access to the latest, most relevant information and new types of data.
- Continuous evolution of the national geoportal strengthens its framework and database infrastructure, fostering innovation and adaptability to meet future challenges.



More information:

<https://www.geoportal.gov.pl/en/>