

ABOUT THE PROJECT

HES-GEO project aims to enhance existing research capacity and stimulate scientific excellence in the [Institute of Geography and Spatial Management \(IGSM\), Jagiellonian University](#), in studying **human-environmental systems (HES)** of the Anthropocene, along variety of urban-rural-marginal gradients, at various spatial and temporal scales and using **tools and data available through Earth observation (EO) and geospatial technologies**.



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PARTNERS



[Institute of Geography and Spatial Management \(IGSM\)](#)



[The Department of Geoinformatics – Z_GIS](#)



[The Geography Department](#)



[The Department of Earth and Environmental Sciences](#)

PROJECT PROGRESS - TRAININGS & MEETINGS



Geospatial training in Salzburg

The HES-GEO research teams participated in Geospatial training in Salzburg between the 20th and 22nd of April 2022. It was a great opportunity to develop our skills and learn about new tools that we can use in our future careers!

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Scientific writing training in Leuven

Bearing in the mind sentence "publish or perish" the HES-GEO research teams chose to survive and participated in the course "How to Get Published: Scientific Writing" between the 6th and 7th June 2022. During two days we learned how to make good publishing success and hold on in the tough world of science.

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To leave academia and become the writing guide, an interview with Anton Froeyman

Leaving academia to teach others how to write? What caused such a change, and was it challenging? That is the story of Anton Froeyman, our guide through the academic writing training we took in Leuven.

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Geospatial training in Berlin

The second part of geospatial training for the HES-GEO Research Teams took place at the Humboldt University Berlin and was prepared by the team of the Geography Department: Dagmar Haase, Tobias Kuemmerle, Tobia Lakes, Benjamin Bleyhl, Bakhtiar Feizizadeh, Julian Oeser and Sebastian Scheuer. Again, 15 young researchers from the Institute of Geography and Spatial Management (Jagiellonian University, Poland) took part in the three-day workshop.

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Centre of Excellence Brainstorming Event in Leuven

On 29th - 30th August 2022 a brainstorming meeting on the Center of Excellence (CoE) was held in Leuven, Belgium. The emergence of CoE at the Institute of Geography and Spatial Management of the Jagiellonian University (JU) is one of the goals of the HES-GEO project. Apart from the representatives of the Jagiellonian University, the meeting was attended by partners from KU Leuven, the University of Salzburg and members of the Project Advisory Board, 19 people in total.

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RESEARCH TEAMS - FIRST OUTCOMES



SOIL EROSION

team leader: [Anita Bernatek-Jakiel, PhD](#)

In May 2022 Anita Bernatek-Jakiel presented the first results of joint project conducted within the HES-GEO Research Team on **European Geosciences Union General Assembly 2022** in Vienna. The presentation under the title "Soil pipe collapses in Europe: towards a continent-wide assessment" took place within the Session SSS2.3: Soil Erosion, Land Degradation and Conservation.

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LAND USE AND BIODIVERSITY

team leader: [Dominik Kaim, PhD](#)

The team received funding for a 2-year project "The impact of depopulation on ecosystem services in Europe. A pilot study in France, Czech Republic and Poland", as a result of **Central Europe Leuven Strategic Alliance (CELSA)** network project call. The project will be realized by the partners from KU Leuven, Czech Technical University in Prague and geographers from the Jagiellonian University in Krakow.

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SOCIAL PROCESSES AND URBAN RESILIENCE

team leader: [Katarzyna Gorczyca, PhD](#)

Katarzyna Gorczyca, Łukasz Fiedziński, Magdalena Miśkowiec, Agnieszka Świągost Kapocsi co-organized a poster session at the **World Urban Forum "WUF"**. It is the largest and most important event all over the world devoted to the development of cities, co-organized by UN Habitat, Polish Ministry of Regional Funds and Policy and the city of Katowice.

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CARBON SEQUESTRATION IN SOILS OF MOUNTAIN ECOSYSTEMS

team leader: [Łukasz Musielok, PhD](#)

Three members of the research team completed their **research internships**: the team leader - Łukasz Musielok and Magdalena Gus-Stolarczyk stayed at **KU Leuven**, where they participated in numerous consultations, field trips and had the opportunity to discuss the main parts of the review article, while Anna Bartos worked at **PLUS University of Salzburg** with GIS data modeling software.

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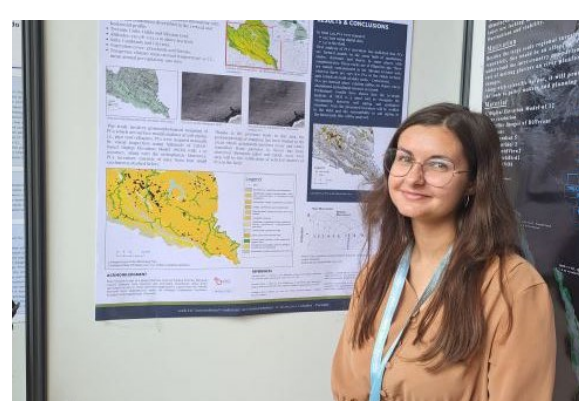


FOOD WASTE

team leader: [Magdalena Kubal-Czerwińska, PhD](#)

When research meets practice - **joint force with the Silesian Food Bank**. This is how we could summarize the recent progress of our team. The Silesian Food Bank plays a key role in reducing food waste, which is also the core topic of our current research. We are happy that from now on we will not be alone in unpacking the problem of reducing food waste.

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SOIL EROSION

team leader: [Anita Bernatek-Jakiel, PhD](#)

In September 2022 Joanna Halys and Anita Bernatek-Jakiel were taking part in the 10th International Conference of the International Association of Geomorphologists (IAG) "Geomorphology and Global Change" in **Coimbra, Portugal**. They presented the first results of sub-project that is conducted within the SOIL EROSION team.

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UPCOMING EVENTS - STAKEHOLDERS MEETING 2022



At the turn of November and December 2022, an event addressed to the local stakeholders of the project will take place at the Institute of Geography and Spatial Management of the Jagiellonian University. The purpose of this meeting, organized by the HES-GEO team, will be to establish a network of human environmental-systems (HES) research-oriented entities among local and regional stakeholders in the field of nature conservation (national parks), industry, tourism, as well as entrepreneurs and representatives of non-governmental organizations (NGOs) conducting applied research, providing solutions based on knowledge and research data in the field of HES.

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