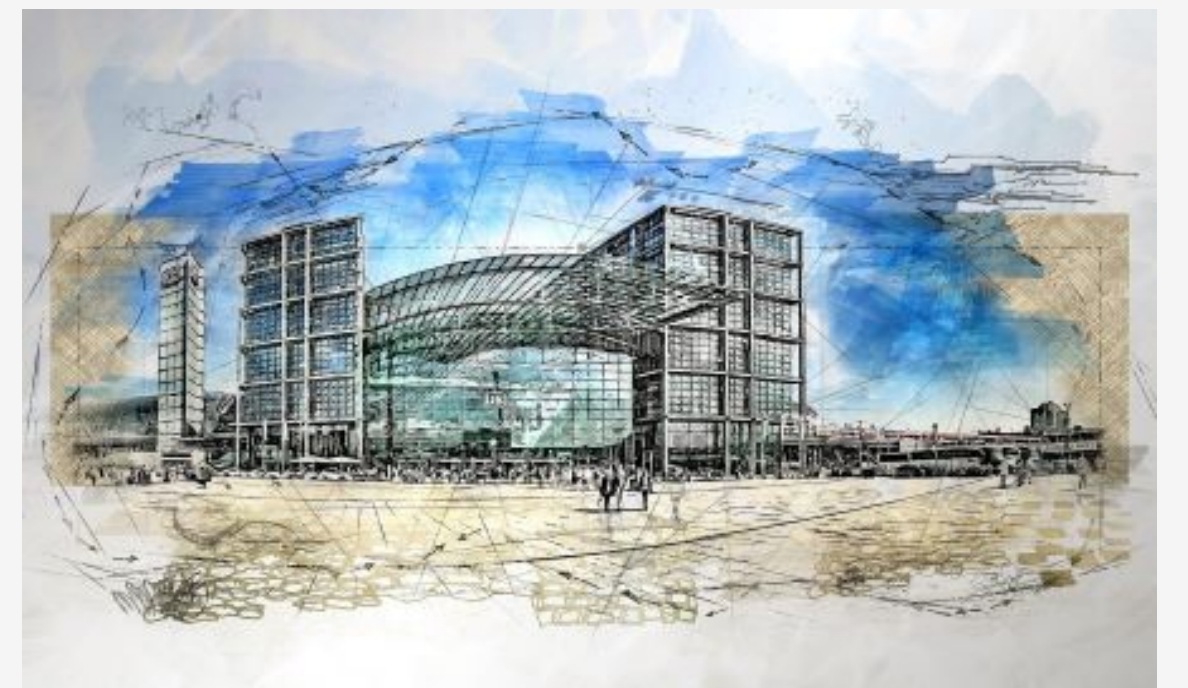


HES-GEO Trainings



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. HES-GEO will build on existing strengths of IGSM and opportunities provided by new regulations of science and higher education in Poland, combining them with the vast expertise in studying HES and in capacity building of three excellent partner institutions: Paris Lodron Universität Salzburg, Humboldt-Universität zu Berlin and Katholieke Universiteit Leuven.



To reach the HES-GEO main goal, three groups of activities will be carried out:

1. training young post-doctoral and early stage researchers in academic soft skills (scientific writing, project development and leadership) and in geospatial and EO technologies;
2. setting up research teams (RTs) led by young scientists of IGSM and supervised by experienced scientists from partner institutions, providing them guidance towards development and submission of competitive research proposals to European research programmes, and
3. establishing a Centre of Excellence (CoE) in IGSM, composed of the RTs and a new project /knowledge management and outreach unit.

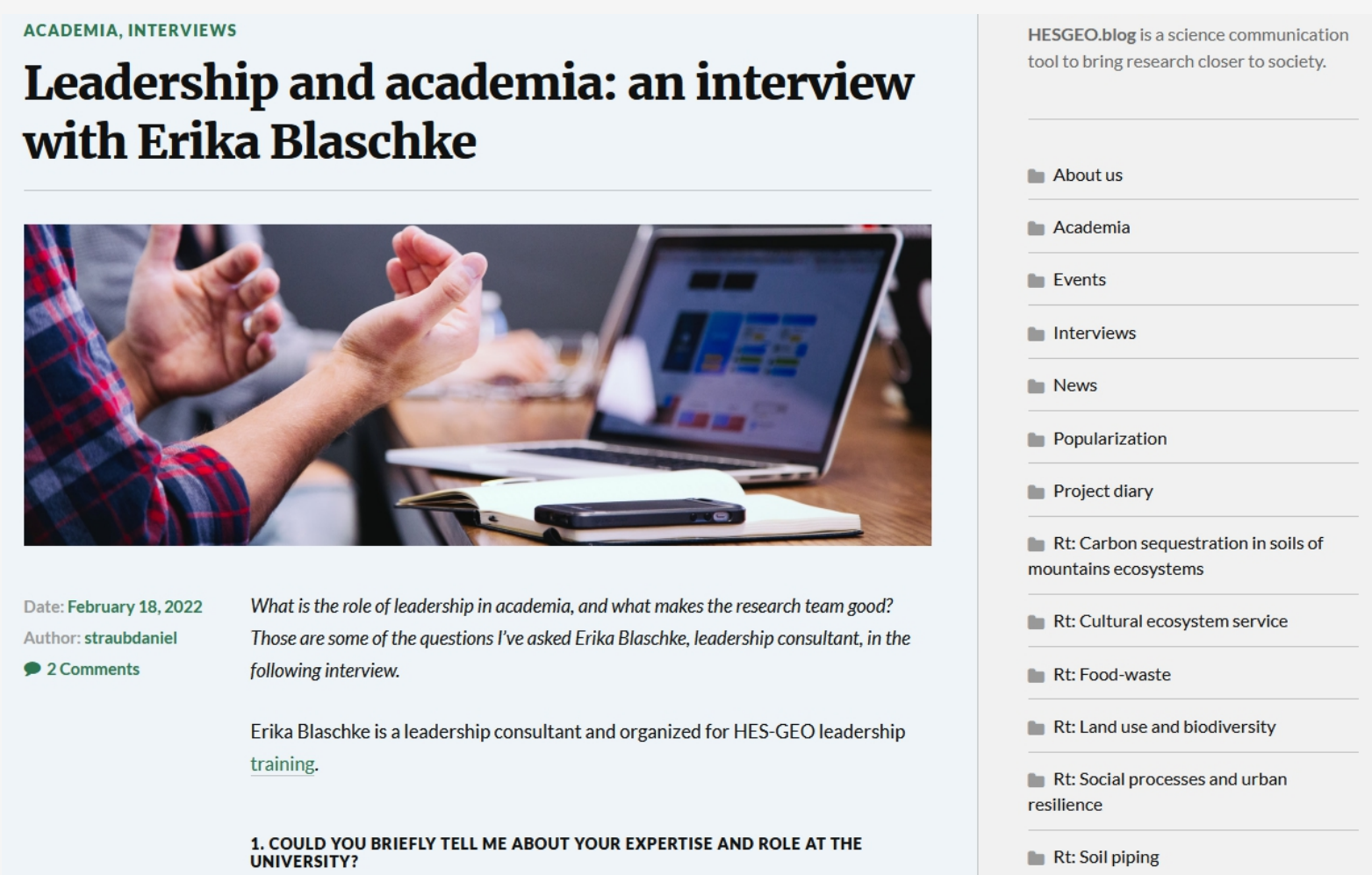


Building on trained young researchers developing new research ideas in the RTs, the CoE will gather the experiences of HES-GEO, and employ them beyond the project lifetime, ensuring sustainability and appropriate exploitation of project results. The three major activities of the project will be supported by diverse dissemination and communication measures, in order to increase HES-GEO overall visibility and establish research- and stakeholder-oriented networks, supporting sustainability of the future actions of the CoE.

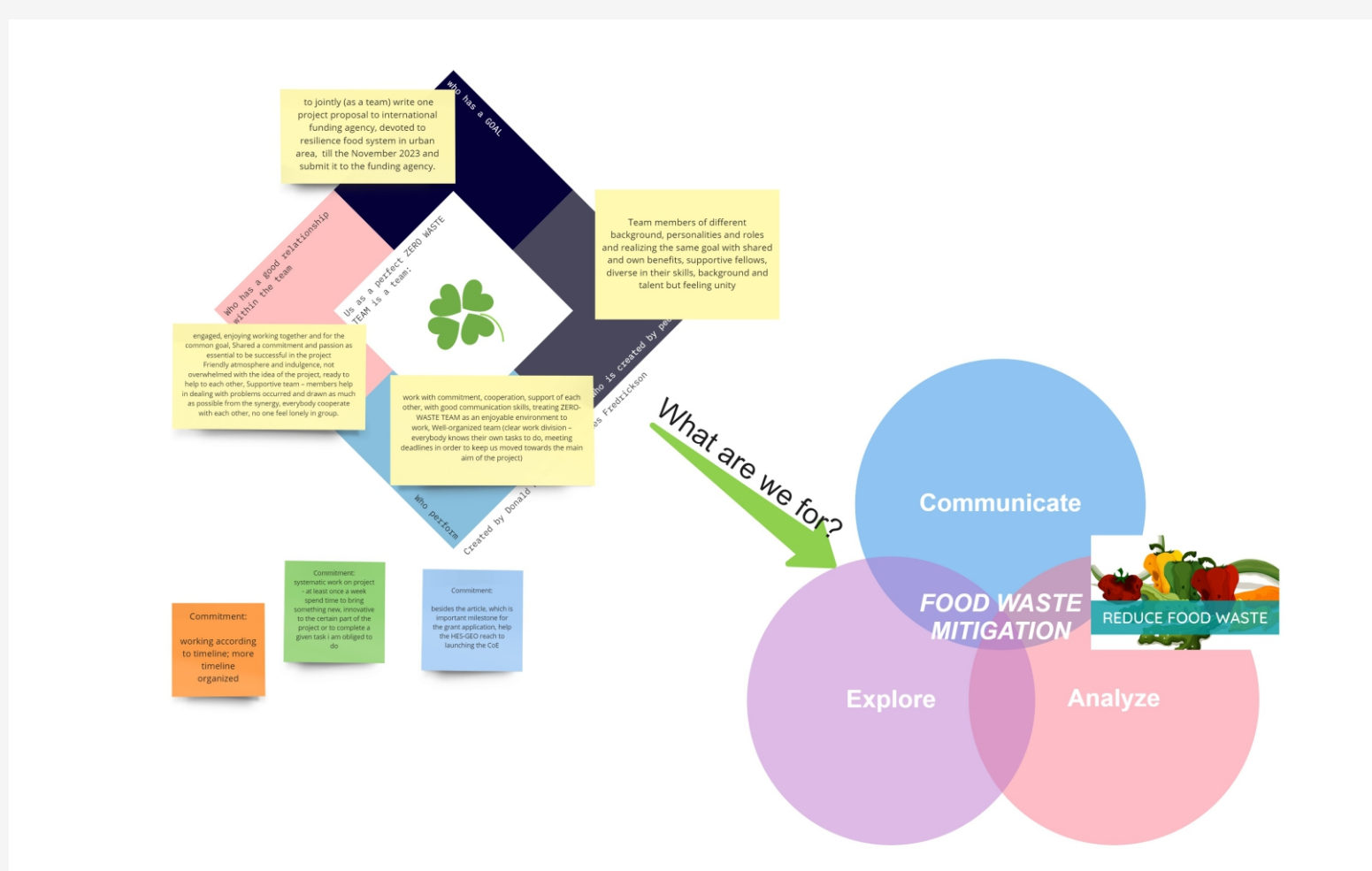
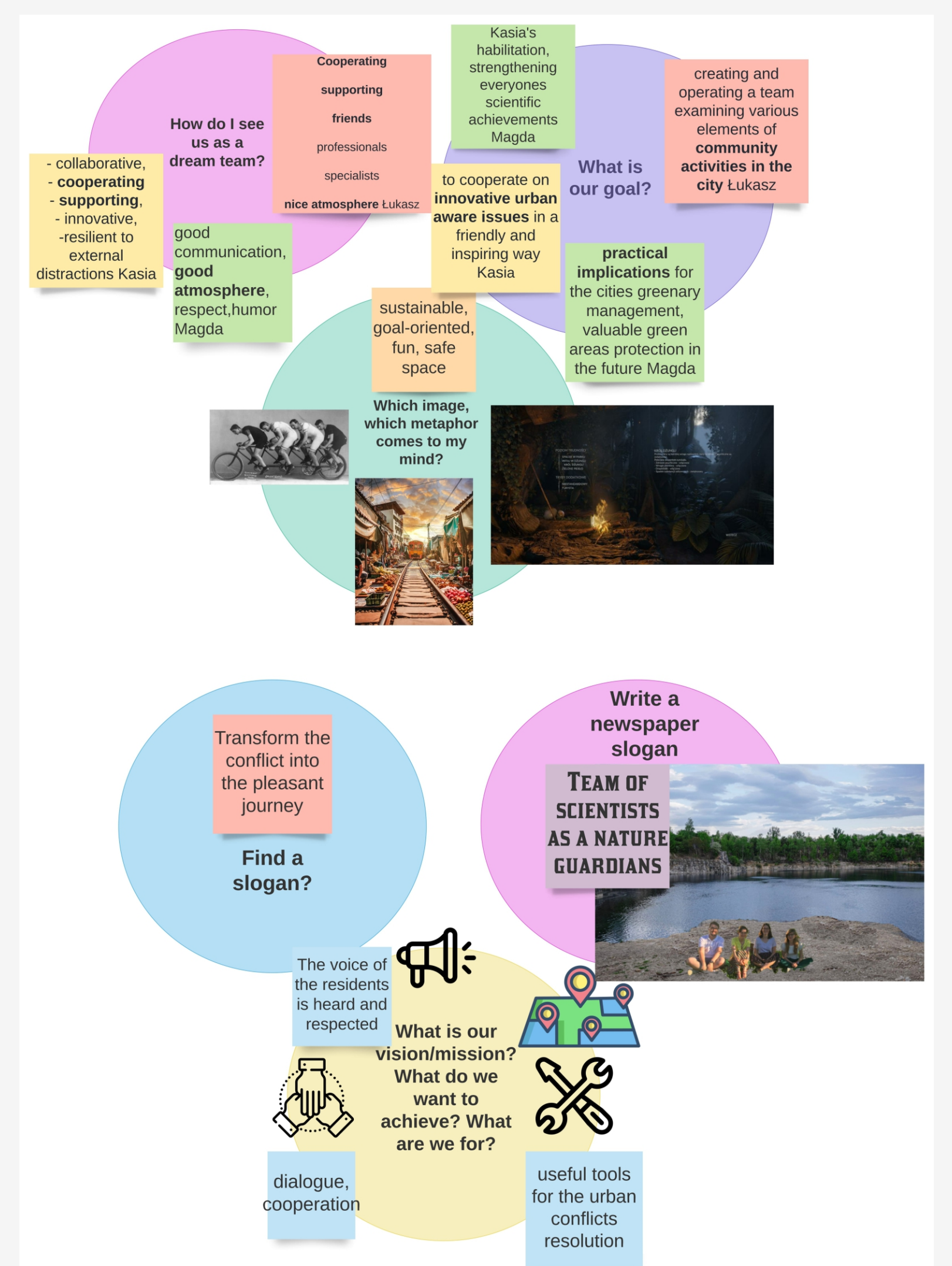
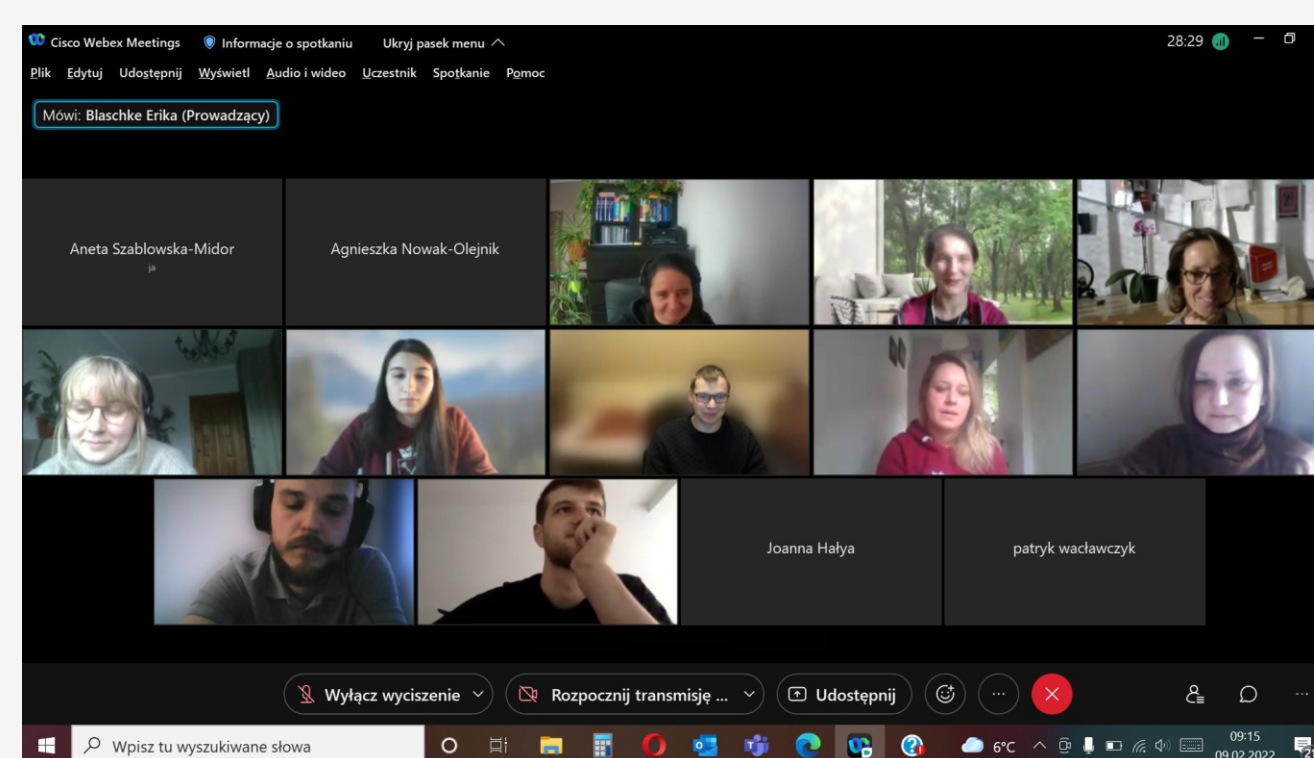
Training in project writing, project development and leadership skills 5-11 February 2022 on-line

Training sessions were led by Paris Lodron University in Salzburg - leadership skills session, and Katholieke Universiteit Leuven - project writing session.

In the leadership skills session there were organised: RT leaders meetings with Trainer and intensive on-line teamwork part. The project writing session included self-study based on the provided interactive materials and live on-line meetings with lectures and a broad discussion.



An interview with Erika Blaschke, leadership consultant from the Department of Geoinformatics Z_Gis of Paris Lodron University Salzburg
<https://hesgeo.blog/>



Summary of the Food Waste team's work

Summary of the Social Processes and Urban Resilience team's work

Report from the HES-GEO blog

During the first part of the day, Martin Sudmanns and Stefan Lang took us into the world of satellites and the magic of GIS and told us about the services of Copernicus and big Earth observation data sources. Later, Christina Zorenböhrer brought us from space to Earth, showing us a powerful tool called Google Earth Engine. During practical hands-on sessions in the computer lab, we explored the secrets of big Earth observation datasets and visual data presentation.

On April 21, we started the day with an introduction to Python and the ArcPy site package with Dirk Tiede, Martin Sudmanns, and Hannah Augustin. Moreover, our instructors showed us many new ways to solve problems and deskill some time-consuming processes.

On the last day, we received a brief review of current research topics made by a specialist from the Department of Geoinformatics Z_Gis of Paris Lodron University Salzburg such as Thomas Strasser, Bernd Resch, and Martin Loidl. After talking about the use of social media data, mobility, and Copernicus Land Monitoring Service, we went through the last topic of our training – Spatial Databases. Martin Sudmanns, in an excellent way, taught us about SQL, and we tried to put data and our knowledge straight.

<https://hes.geo.uj.edu.pl>

GiS Training Workshop for Research Teams 20-22 April 2022 Paris Lodron University Salzburg

Participants were trained in Copernicus Services, Google Earth Engine for analysing Earth observation data, automate geoprocessing tasks using Python and the ArcPy site-package for ArcGIS.

There were also taught issues related with understanding data management principles with spatial databases and the use PostgreSQL queries for integration of database systems and GIS.

