Advanced Research Workshop (ARW)

Science for Recovery of Ukraine

Date: 3-5 February 2026
Venue: University of Strasbourg, France

Day 1: Setting the Stage – Global Programs and Ukraine's Needs

9:00–9:30

Opening Remarks
Presenters: Co-Directors (Sergii Skakun, Andrii Shelestov, Inbal Becker-Reshef)
Description: Introduction to the workshop's goals and objectives, emphasizing the importance of satellite technologies for recovery in Ukraine and global food security.

9:30–12:00

Session 1: Global Programs and Initiatives
(15 mins each + 5 mins Q&A + 30 min coffee break)

1. Guido Lemoine (Joint Research Centre, European Commission) **Supporting EU Policy through Earth Observation: Copernicus, EuroGEO and the KCEO Framework**
2. Inbal Becker-Reshef (NASA Harvest, University of Maryland) **NASA Harvest for Global Food Security and Recovery of Ukraine**
3. Andrus Meiner (European Environmental Agency) **Collaboration EEA-CLMS and In-Situ and National Technical University of Ukraine**
4. Sven Gilliams (GEOGLAM) **Global Agriculture Monitoring in GEOGLAM**
5. Jan Musiał (CloudFerro) **CDSE: A European EO-Centric Cloud Platform for Copernicus Data Supporting Ukraine**

6. Zoltan Szantoi (European Space Agency) **Space for Ukraine - The current status of ESA-SSAU collaboration**

12:00–13:30 *Lunch break*

13:30–15:30

Session 2 & panel discussion: Ukraine's Needs for Effective Recovery
(15 mins each + 60 mins panel with Q&A)

1. Oleh Prokopenko (State Statistics Service of Ukraine) **Satellite Data for Agricultural Statistics and Digital Transformation**
2. Tetiana Adamenko (Ukrainian Hydrometeorological Center) **Agrarian Meteorology Needs in Earth Intelligence**
3. Sergii Zamidra (All-Ukrainian Association of Communities, National University of Life and Environmental Sciences of Ukraine) **Local Authorities' Perspectives on Satellite Products**
4. Ihor Kyryliuk (State Service of Ukraine for Geodesy, Cartography and Cadastre of Ukraine) **State Land Cadastre and Digital Transformation**

15:30–16:00 *Coffee break*

16:00–17:00

Open Discussion: Identifying Synergies and Gaps
Facilitator: C. Justice, S. Skakun
Description: Participants will discuss gaps in current satellite applications and explore collaborative opportunities to align global expertise with Ukraine's recovery needs.

Day 2: International Projects and Technologies for Ukraine's Recovery

9:00–10:15 Panel Discussion: Strengthening Ukraine–EU Collaboration for Science-Driven Recovery

1. Guido Lemoine (Joint Research Centre, European Commission) **Earth Observation for Common Agricultural Policy and its implementation in Ukraine**
2. Zoltan Szantoi (ESA) **ESA-Ukraine Collaboration**
3. Daniel Müller (Leibniz Institute of Agricultural Development in Transition Economies, IAMO)
4. Nataliia Kussul (GEO Principals, Ukraine)

10:15–10:45 *Coffee break*

10:45–12:00
(10 mins + 5 mins Q&A each)

1. Nataliia Kussul (University of Maryland, NTUU "KPI") **Machine Learning for Land Use Management and Recovery in World Bank projects**
2. Nazar Kholod (PNNL) **Multisector dynamic modeling with the Global Change Analysis Model**
3. Conrad Bielski (Riscognition, Horizon Europe) **Copernicus Applications for Forest Monitoring in Ukraine**
4. Paul Stadelhofer (Dresden University of Technology) **Ukraine Towards Carbon Neutrality: Findings and Prospects of the Horizon Europe U_CAN Project**
5. Corné van der Sande (eLEAF) **Dual-use satellite monitoring of Ukrainian agriculture**

12:00–13:30 *Lunch break*

13:30–14:45
(10 mins + 5 mins Q&A each)

1. Chris Justice (University of Maryland) **Satellite Technologies for Rapid Response**
2. Jakub Nalepa (Silesian University of Technology, KP Labs) **On-Board Deep Learning and Remote Sensing Innovations**

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3. Sergii Stirenko (National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute") **Dual-Use UAV and AI Solutions Supporting Ukraine's Security and Resilience**
4. Vyacheslav Kharchenko (National Aerospace University "Kharkiv Aviation Institute") **Intelligent UXV systems for communication, achieving situational awareness and overcoming dangerous spaces**
5. Adam Jasinski (Halo Trust) **Practical Applications of Remote Sensing in Demining**

14:45–15:00 *Coffee break*

15:00–16:15
(10 mins + 5 mins Q&A each)

1. Daniel Müller (Leibniz Institute of Agricultural Development in Transition Economies, IAMO) **Experiences from Establishing a Regional Geoinformation Centre for the Western Balkans**
2. Gregory Guiliani (University of Geneva) **Satellite data and Earth intelligence for decision making in Switzerland**
3. Ivana Aleksovska (Joint Research Centre, European Commission) **EO in Agricultural Logistics Modeling**
4. Sergii Skakun (University of Maryland) **Statistical Aspects for Operational Use of Satellite Monitoring in Decision Making**

16:15–16:30 *Coffee break*

16:30–17:30
Open Discussion: Defining Collaborative Priorities and Technological Adoption
Facilitator: N. Kussul
Description: This session will focus on identifying critical gaps between the needs of Ukrainian authorities and the capabilities of existing satellite-based technologies. Participants will explore strategies to address these gaps through enhanced validation, harmonization, and scaling of technological solutions. The discussion will also emphasize aligning priorities among stakeholders and setting the foundation for potential collaborative projects to support Ukraine's recovery efforts effectively.

19.00-21.00 No-host dinner

Day 3: National Projects and Action Planning

9:00–10:30
(10 mins + 5 mins Q&A each)

1. Andrii Shelestov (National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute") **Ukrainian Experience in War Damage Detection**
2. Oleksii Novikov (National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute") **Cybersecurity of Industrial Control Systems for Critical Infrastructure Facilities**
3. Sofiia Drozd (National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute") **Earth intelligence for Green Energy Development in Ukraine**
4. Leonid Shumilo (University of Maryland) **Computer Vision for Land Use and Climate Analysis** (online)
5. Olena Kavats (Ukrainian State University of Science and Technologies) **Earth Observation for Monitoring Mining Activities in Ukraine** (online)

10:30–11:00 Coffee break

11:00–12:00

Open discussion: Action Planning

Moderator: Workshop Co-Directors
Description: Consolidation of results and development of an action plan for the pilot project, titled "Innovative Satellite Technologies for Sustainable Recovery of Ukraine." The session will emphasize the next steps, collaborative commitments, and the importance of continued international support for Ukraine's sustainable recovery.

12:00–13:30 *Lunch break*

13:30–14:30

Open discussion: Action Planning (cont')

14:30–15:00

Closing Remarks
Presenters: Workshop Co-Directors
Description: A summary of the workshop's key achievements, discussions, and identified action plans.