

From Monitoring to Mitigation: Interim Insights from the GEOMONITOR Project in Slănic Prahova



October 30, 2025 INCDFP, Măgurele



09:00 - 09:30 Registration & Welcoming Cofee

09:30 - 10:00 Welcoming session by SGAR, INCDFP, FGG

Dr. Florina **TULUCA**, SGAR, UB-FGG, Geoscience2025

Dr. Constantin **IONESCU**, General Manager National Institute for Eath Physics (INCDFP)

Dr. Lucian **PETRESCU**, Dean Faculty of Geology and Geophysics, University of Bucharest

Convener: Dragos **TATARU**, National Institute for Eath Physics (INCDFP)



10:00 - 11:30 Integrated Monitoring Approaches and Legacy Data (oral presentations)

SESSION I - Introduces the GEOMONITOR project framework and revisits historical and legacy datasets, alongside the first case studies from seismic, geological, and remote sensing investigations. The aim is to connect past knowledge with current monitoring campaigns and highlight methodological advances.



11:30 - 12:00 Cofee Break & Networking



12:00 - 13:00 Field Campaign Results and Current Outcome (oral presentation)

SESSION II - presents results from recent multidisciplinary field campaigns, including passive and active seismic monitoring, geoelectrical surveys, terrestrial laser scanning, UAV-based remote sensing, and hydrogeological investigations.



14:30 - 15:00 Lunch Break



15:00 - 16:30 Roundtable on Risk Mitigation and Stakeholder Engagement

SESSION III - Roundtable with invited stakeholders (local authorities, funding agencies, industry representatives, and researchers) focused on knowledge exchange, risk mitigation strategies, and community engagement.



Proiect finanțat de către MEC, prin UEFISCDI, în cadrul
PNCDI IV - Soluții, ctr. Sol28/05.03.2025



Integrated Monitoring Approaches and Legacy Data

This part introduces the GEOMONITOR project framework and revisits historical and legacy datasets, alongside first case studies from seismic, geological, and remote sensing investigations. The aim is to connect past knowledge with current monitoring campaigns and highlight methodological advances.



Dragos Tataru & GEOMONITOR Team - The GEOMONITOR Project in Slănic Prahova - Objectives, Methodology, and Current Implementation Status



Munteanu Ioan^{1,2}, Roca Mihaela¹, Mircea Irina¹, Iurkiewicz Adrian¹, Popa Iulian¹, Mocuta Marius¹, Petrescu Lucian¹ - Revisiting Legacy Data Sets: Case Study of Slănic, Romania

¹Faculty of Geology and Geophysics, University of Bucharest, Romania; ²Romanian Academy Geodynamics Institute Sabba S Stefanescu



Nastase Ilie Eduard¹, Uritescu Bogdan², Necula Nicusor^{1,3}, Petrescu Alexandra¹, Cerbu Bogdan-Mihai¹ - UAV and Airborne Remote Sensing Combined with InSAR for Monitoring Land Surface Changes

¹National Institute for Earth Physics, Romania; ²National Institute for Aerospace Research "Elie Carafoli", Romania; ³Alexandru Ioan Cuza University of Iași, Faculty of Geography and Geology, Romania



Iurkiewicz Adrian¹, Mocuta Marius¹, Popa Iulian¹, Munteanu Ioan^{1,2}, Roca Mihaela¹ - Active Antropo-Saline Karst Systems in Slanic (Prahova) Area - Alternative Hypotheses and Supporting Data/Information

¹Faculty of Geology and Geophysics, University of Bucharest, Romania; ²Romanian Academy Geodynamics Institute Sabba S Stefanescu



11:30 - 12:00 Coffee Break & Networking



Field Campaign Results and Current Outcomes

This part presents results from recent multidisciplinary field campaigns, including passive and active seismic monitoring, geoelectrical surveys, terrestrial laser scanning, UAV-based remote sensing, and hydrogeological investigations. Interim findings provide a clearer picture of local instability processes and support future monitoring strategies.



Bogdan Grecu¹, Ionelia Panea², Andreea Tolea¹, Natalia Poiata¹, Alexandru Codreanu¹, Alexandru Țigănescu¹, Alexandru Zlibuț² - Characterization of Local Site Effects towards Seismic Microzonation of Slănic Using Passive and Active Seismic Methods

¹National Institute for Earth Physics, Romania; ² Faculty of Geology and Geophysics, University of Bucharest, Romania



Liliana-Irina Stoian¹, Elena Tudor¹, Antonio Ulmeanu¹, Avram Ovidiu¹, Ioan Scutelnicu¹, Adrian Tătaru¹, Iustina Popescu¹ - Geoelectrical Investigation of Subsurface Stability in the Slănic Area

¹Geological Institute of Romania, Romania



Alexandru Tigănescu¹, Eduard Nastase¹, Tiberiu Popescu² - Terrestrial Laser Scanning for Monitoring Building Structures in the Slănic Urban Area

¹National Institute for Earth Physics, Romania; ²SC Top Geocart, Romania



Roca Mihaela¹, Munteanu Ioan^{1,2}, Mocuta Marius¹, Popa Iulian¹, Iurkiewicz Adrian¹ - Direct Well Inspections Using CCTV Cameras – A Simple Tool for Geological Engineers

¹Faculty of Geology and Geophysics, University of Bucharest, Romania; ²Romanian Academy Geodynamics Institute Sabba S Stefanescu, Romania

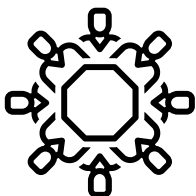
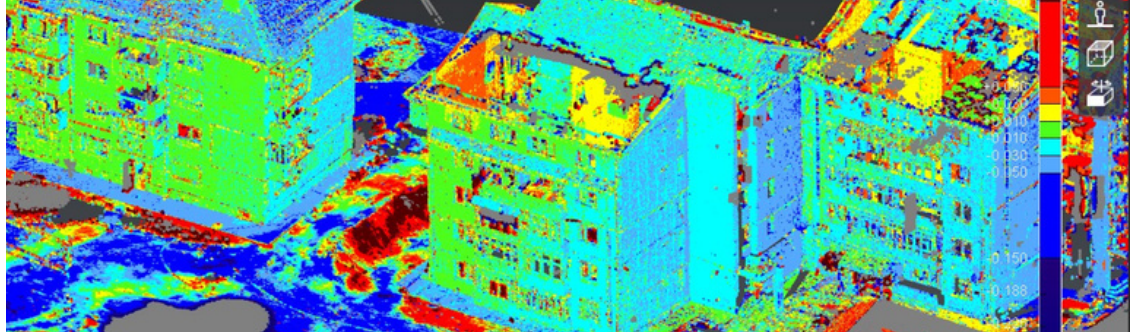


Iulian P.¹, Iurkiewicz A.¹, Mocuta M.¹, Roca M.¹, Munteanu I.^{1,2} - Deciphering the Hydrogeology of the Slanic Prahova Town

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14:30 - 15:00 Lunch break



Roundtable on Risk Mitigation and Stakeholder Engagement

Roundtable with invited stakeholders (local authorities, funding agencies, industry representatives, and researchers) focused on knowledge exchange, risk mitigation strategies, and community engagement. The session will also include the presentation of the beta version of the GEOMONITOR geospatial portal, designed to integrate multidisciplinary datasets, visualization tools, and interactive channels for early identification of local problems and stakeholder feedback.

Conveners: Dragos Tataru (INCDFP) & Iustina Popescu (IGR)

The guest list includes representatives from following institutions (TBC & updated):

- Institute of Geodynamics of the Romanian Academy (IG-AR)
- National Institute for Research and Development in Constructions, Urban Planning and Sustainable Spatial Development (URBAN-INCERC)
- Technical University of Civil Engineering Bucharest
- Ministry of Education and Research
- General Inspectorate for Emergency Situations (IGSU)
- National Center for Cartography
- Town Hall of Slănic Prahova (Primăria Slănic Prahova)
- Slănic Salt Mine
- Prahova County Council