Connected Environments in Romania

Online workshop · 16–17 December 2026

Format: 15-minute presentations (12 min talk + 3 min questions), 5 presentations per session, 15-minute coffee breaks, 1-hour lunch. Times are local time in Romania (EET).

Day 1 – Wednesday, 16 December 2026

09:00–09:15	**Welcome and opening**
09:15–10:30	**Session 1. Aerosols and clouds in the vertical** *Remote sensing of aerosol and cloud vertical structure and optical properties; aerosol typing; boundary layer and free troposphere; long-range transport of smoke, dust and pollution; synergies with airborne observations.*
10:30–10:45	*Coffee break*
10:45–12:00	**Session 2. From air to water** *Fog and cloud water chemistry; wet and dry deposition; atmospheric microplastics and nanoparticles: sources, transport and fate.*
12:00–13:00	*Lunch break*
13:00–14:15	**Session 3. Water quality and emerging contaminants** *Nanoparticles and microplastics in aquatic systems: detection, characterisation, behaviour and impacts on water quality.*
14:15–14:30	*Coffee break*
14:30–15:45	**Session 4. From soil to food** *Soil contamination and soil health; transfer of pollutants to crops; food quality, safety and authenticity; bioeconomy.*

Day 2 – Thursday, 17 December 2026 (half day)

09:00–10:15	**Session 5. Air quality and in-situ observations** *In-situ measurements of aerosols and trace gases; sources, variability and trends of atmospheric composition; urban and regional air quality; health-relevant particles.*
10:15–10:30	*Coffee break*
10:30–11:45	**Session 6. Data, AI and machine learning across environments** *Machine learning for aerosol typing and cloud detection; AI for particle identification from spectra and images; soil spectroscopy and food authentication; measurement uncertainty and data quality as a basis for AI.*
11:45–12:00	**Closing remarks**