Meratch

HORIZON-CL5-2027-01-D1-07

Advancing understanding, modelling and prediction of extreme events in a changing climate

Local Climate Intelligence

by GOSPACE LABS

Roman Cibulka
Vertical Lead, Meratch

Horizon Europe brokerage event - Cluster 5 Climate, Energy & Mobility

GOSPACE LABS

Built by GOSPACE LABS

A Slovak deep-tech SME of ~60 people. We design, manufacture and operate IoT sensors, connectivity, our own data platform and AI analytics.

71k+
IoT devices operating

~60
people

2013
founded

Meratch

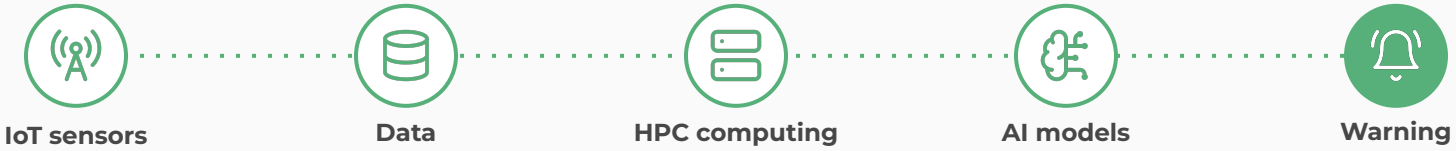
LOCAL CLIMATE INTELLIGENCE

Climate-resilience vertical:

- helping regions, municipalities and companies prepare in time for extreme weather
- prediction and early warning for a specific place.

Early warning for a specific place

Whole intelligence chain in-house, with climate, meteo, hydro and soil experts in one team.





Flash-flood early warning



Weather nowcasting



Flash-drought early warning

How we fit the topic

OUTCOME 1

Understand past & present extremes

- Reconstruction of Central European floods (published)
- Storm & Damage Analyser: event footprints on the ground

OUTCOME 2

Seamless prediction & attribution

- Hyperlocal AI nowcasting 0–2 h at 1 km: the seamless prediction
- Hydro/climate/meteo modelling and prediction of events.

OUTCOME 3

Improved early warning

- Flood & drought warning on one multi-hazard platform
- Impact-based alerts for municipalities & civil protection

Already in EU projects

EU PROJECTS

LIFE FLOPRES

€3.2M · 2023–2026 · flash-flood prediction & prevention SK–PL

HORIZON WIDERA 2025

Two times Seal of Excellence

LIFE HEDERA & EIC Accelerator

Submitted 09/2026, under evaluation

OUR PARTNERS

Hydrometeorological Institutes

CZ & SK

Research Institutions

Water Research Institute, Slovak Academy of Sciences

Universities

Comenius University, PJŠ University

What we bring to the consortium

We bring

WP lead
In-situ (A)IoT sensing, weather nowcasting, flash-flood and drought early warning, modelling and prediction

Demonstrators
Early-warning pilots with municipalities in Central & Eastern Europe

Case studies
Event reconstructions as storylines for EUCRA

We are looking for

Coordinator
Meteo service or climate research institute

Authorities
Civil-protection & disaster-risk authorities

Pilot hosts
Regions and municipalities

Meratch

Roman Cibulka

Vertical Lead, Meratch

Organisation GOSPACE LABS s.r.o. — private deep-tech SME, Slovakia

Projects in SK, CZ, PL

Department Meratch vertical — Local Climate Intelligence

Expertise Hydro-meteo-clima expertise, (A)IoT sensing, nowcasting, multi-hazard early warning, modelling & prediction

roman.cibulka@gospace.tech

meratch.com

CINEA: LIFE and flash floods

GOSPACE LABS