



Ministry of Science and Higher Education
Republic of Poland

Horizon4Photonics

Brokerage event

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RTO Lithuania (RTO LT) – public association –
A Collaborative network of National research institutes

Lithuania | Project department | Interdisciplinary projects

RTO 

YOUR PARTNER
IN INNOVATION

RTO LT – your partner for interdisciplinary collaboration

- Topics to be addressed
Cluster 6: FARM2FORK, ZEROPOLLUTION
Cluster 4: SPACE
- A wide range of **interdisciplinary** collaboration topics possible:
Semiconductor technology → agriculture and climate research
Material science → space communication
- The three National Research Institutes in the RTO LT Network focusing on:
 - Semiconductor technologies and material science,
 - Novel energy technologies for sustainability,
 - Agriculture and climate research.
- Multiple National- and EU-funded projects in these (or similar) fields

RTO LT



CENTER
FOR PHYSICAL SCIENCES
AND TECHNOLOGY



LITHUANIAN
ENERGY
INSTITUTE



LITHUANIAN
RESEARCH CENTRE
FOR AGRICULTURE
AND FORESTRY

Strengthening interregional collaboration

Photonics4AgriFood

Targeted topics

- HORIZON-CL6-2026-02-FARM2FORK-06: Advanced innovative solutions for improved competitiveness and sustainability in controlled environment agriculture (CEA)
- HORIZON-CL6-2027-02-FARM2FORK-01: Increasing the resilience of agriculture in water and nutrient-scarce environments through digital innovations

Current consortium



Photonic technologies for soil and plant stress sensing



Photonic and optoelectronics system development



Drone monitoring & Aquaphonic plant-growth systems

Partners are invited who would like to strengthen interregional collaboration aiming to improve FARM2FORK chain:

Efficient water and fertilizer use, crop-stress prediction using data-driven decisions

Other calls of interest

- **Cluster 4:** HORIZON-CL4-2026-SPACE-03-31: Digital enablers and building-blocks for Earth Observation and Satellite telecommunication for Space solutions (Space Partnership)
 - ATLAS-2: high data rate space-to-ground and space-to-space laser communication terminal (SME – rapidly growing FTMC spin off)
 - Gas monitoring sensors for rotational and vibrational modes of non-polar gas molecules

- **Cluster 6:** HORIZON-CL6-2027-01-ZEROPOLLUTION-03: Improve the capacity to monitor and reduce air pollution from agriculture
 - Gas spectroscopy system
 - Direct testing in the field

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AL
astrolight

**ATLAS-2
terminal**



 **UNIVERSITY
OF LEEDS**



Thank you