

# Horizon4Photonics

Brokerage event

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# Cluster 4 - Digital Integration Partner for Advanced Sensing, Space & Photonics

## ● Topic to be addressed:

- HORIZON-CL4-2026-SPACE-03-31: Digital enablers and building-blocks for Earth Observation and Satellite telecommunication for Space solutions (Space Partnership)
- HORIZON-CL4-2026-05-MAT-PROD-25: New or enhanced Innovative Advanced Materials (IAM) enabled sensing functionality (RIA)
- HORIZON-CL4-2026-04-HUMAN-01: Developing and demonstrating core technologies for Virtual Worlds and Web 4.0 (IA) (Virtual worlds Partnership)
- CSA topics in digital emerging technologies & photonics ecosystems

## ● Specific contribution to the topic

BEIA brings proven capability in:

- integration of heterogeneous sensors into secure IoT architectures
- real-time data acquisition, transmission and edge/cloud processing
- development of interoperable digital platforms
- validation in operational environments
- stakeholder engagement, pilots, exploitation and market uptake



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## ● Technology profile

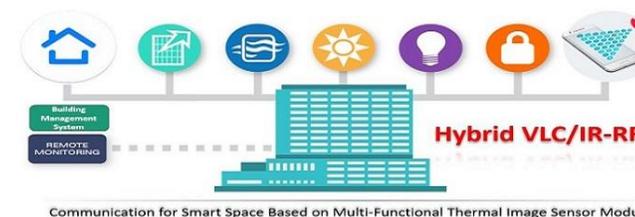
Core competences include:

- IoT & M2M telemetry
- embedded systems and communications
- edge-to-cloud data platforms
- AI-supported analytics and decision support
- secure data transmission
- interoperability across multi-vendor infrastructures
- rapid prototyping and field deployment

## Relevant projects:

- **MULTI-AI:** distributed intelligence, data processing & decision support
- **PNTS:** resilient positioning, navigation & timing infrastructures
- **VLC:** advanced optical/visible light communication system

**MULTI-AI**



**Beia**  
CONSULT INTERNATIONAL

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## Experience

- ◎ **BEIA (SME)** founded in 1991
  - Offices in: Austria, Belgium, Romania [www.beia.eu](http://www.beia.eu)
- ◎ **Expertise of the R&D Department:** BEIA is a R&D performing SME with focus on time critical Artificial Internet of Things (AIoT) and **a team of over 100 people** with experience in R&D
  - service innovation (AI, blockchain, cloud, big data, quantum security),
  - hardware (sensors, actuators, IoT),
  - information technologies (data analytics, back end, interfaces, front end), integration (software/hardware),
  - communication technologies (speech processing, ASR/TTS, NLP/NLU, sentiment analysis, emotional computing),
  - communication/ dissemination/marketing, project management.
- ◎ Over **8000 commercial projects** and over **100 R&D and Innovation projects**



# Thank you!

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