



## Dr. Dominik Röhr

(Remote Sensing Developer / Image Analysis Expert / Physicist)

Dr. Dominik Röhr holds a PhD in Physics from Ruhr University Bochum and currently works as a Remote Sensing Developer at OHB Digital Services GmbH. His expertise lies in developing advanced image analysis pipelines and machine learning algorithms, particularly for object detection and multimodal data fusion. He has a strong background in academic research with several peer-reviewed publications and actively contributes to pioneering space applications.

### What did you find valuable in THEIA project?

What I found most valuable in the THEIA project was the opportunity to apply earth observation and machine learning techniques to real-world challenges related to climate change and security. The collaboration with multidisciplinary and international teams is enriching for my scientific, technical and strategic expertise. Overall, it is a highly insightful experience that strengthened the connection between research and practical applications.

### How relevant is THEIA to your work?

THEIA is highly relevant to my work, as it constantly pushes the boundaries of current imaging technologies in earth observation. The project focus on processing very high-resolution data in near real-time environments aligns directly with current market needs and technological momentum. Moreover, working so closely with partners and end-users is a great opportunity to design practical, deployable solutions.

### What is the expected impact?

The expected impact of THEIA is the significant enhancement of situational awareness through automated, data-driven earth observation. By providing decision-makers and response teams with faster, more accurate insights, it actively contributes to improved safety and reliability for everyone involved in crisis management. Additionally, it ensures that cutting-edge data analysis directly empowers those operating on the ground.



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