



Tomás Egido Herraéz

(Environmental Scientist / Project Manager)

Tomás Egido Herraéz is an Environmental Scientist (University of Alcalá, Madrid) which currently works a Project Manager in the Applications & Services Department at LuxSpace. He has led and contributed to different European Union projects (e.g., EUROSTAT – *LUCAS 2022, 2018 and 2015-*, EUSPA –*Copernicus Demonstrators-*, EC) where EO data played a central role in supporting analysis, decision-making and operational outcomes. Currently, he is leading LuxSpace contribution into THEIA, particularly in analyzing the capabilities of microsatellites and RF missions for potential platform integration, as well as on maritime domain related developments within THEIA.

What did you find valuable in THEIA project?

One of the most valuable aspects of THEIA is that it focuses on extracting real operational value from existing and upcoming EU and CCM capabilities and integrating them in a coherent way with GeoAI and data fusion to extract more useful information. This multi-sensor fusion is not that common yet, and it is encouraging to see a project that moves beyond theoretical frameworks and that delivers something aligned with the actual needs of analysts working in the border control field.

Beyond the technical aspects, the strong collaboration within the consortium is also highly valuable for the project, as it enhances each partner's capabilities and contributes to more robust project outcomes.

How relevant is THEIA to your work?

Our daily work is tightly linked to the EO and maritime domain, particularly through AIS data & analytics. THEIA fits naturally into what we do in this domain. It strengthens vessel detection, identification and route-prediction workflows by bringing together EO, RF, and AIS, and supported by terrestrial data when available, in a way that feels coherent rather than fragmented. This multi-source approach is especially valuable for detecting dark vessels and identifying irregular movement patterns, making it directly applicable to our work.

What is the expected impact?

A project like THEIA can genuinely raise the bar for how Europe monitors crises. Having a centralized platform which provides GeoAI tools with fusion capabilities of heterogenous data sources will translate in a more reliable and timely-ready situational awareness for forced population displacement, and for maritime/border-security real-world scenarios. THEIA will help to reduce some of the critical blind spots these end-users are currently facing during their decision-making processes.



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