

Report on the outcomes of a Virtual Mobility¹

Action number: CA21119

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Virtual Mobility Details

Title: Report on the of the second Working group 4 Workshop on presentations and discussion with industrial users related with technological needs and innovation actions of Harmonia

Description of the work carried out during the VM

The work of this VM focused on accurately document and record the key details of the second workshop of the Harmonia WG4. This workshop was held in Valladolid (Spain), in the facilities of the Group of Atmospheric Optics from the University of Valladolid (GOA-Uva) on 30 June 2026. This meeting included 14 different presentations delivered by both scientists from research institutes and representatives from software and instrument manufacturing companies, with the objective of fostering collaboration between these groups and initiating discussions on improving measurement techniques and results.

The event started at 9:30 and finished at 16:30. During each talk, I was documenting each talk, noticing the key aspects of the talk, developments, and the exchange of comments after each presentation. In addition, I was on charge of preparing the projection of the presentations, minute keeping, and guiding the participants over the building and during the different activities. Apart from my participation in this second WG4 workshop in Valladolid, I also contributed with a presentation.

Once the meeting was over, I prepared the deliverable document. In this document I have included a brief introduction of the Workshop and the alignment of the workshop with the working group goals, a summary of each presentation and a section describing the main topics of the workshop, issues discussed and aspects for improvement.

Description of the VM main achievements and planned follow-up activities

This VM has assessed all the planned goals and expected outcomes. During this workshop there has been an effective interaction between scientists and representatives from manufacturing companies, strengthening the relationship between them. The core message of this session is that the aerosol observing ecosystem of the future will likely rely not on a single perfect instrument, but on the intelligent integration of complementary, scalable and accessible technologies capable of filling the major

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observational gaps that persist globally (North Africa, oceans, remote and resource-limited regions) — in line with WG4's industry-engagement objective and WG3's focus on end-user applicability.

This VM is directly related with the finalization of the Harmonia WG4 Deliverables:

- 4.1: Share the recordings and the presentations of the Workshop that will be organized, with industrial users related with technological needs and innovation actions.
- D4.2: Report on hardware and software evolution needs according to WG3 results.

This Virtual Mobility Grant supports the COST Excellence and Inclusiveness Policy by fostering interdisciplinary collaboration and expanding the accessibility of aerosol measurement applications.