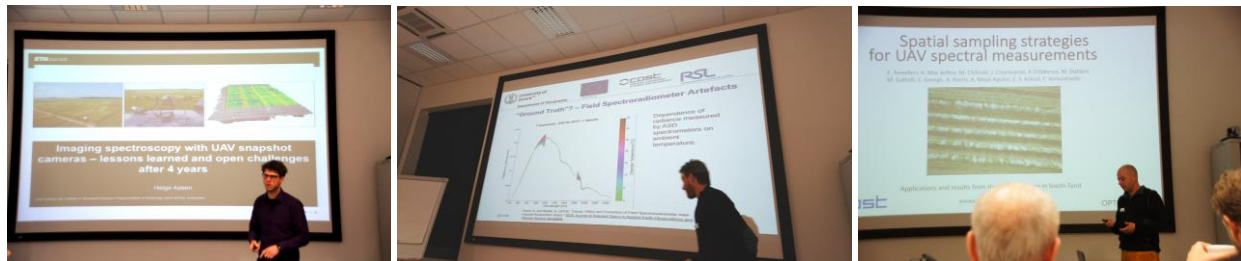


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| COST-Action: | OPTIMISE (ES1309) |
| Workshop: | ESR Think Tank on best practice UAV spectral sampling (OPTIMISE-BUS) |
| Venue: | Tartu Observatory, Estonia. |
| Dates: | 22.-24 November 2016 |
| Host: | Helge Aasen (ETH Zürich) |
| Local Organizer: | Lea Hallik (Tartu Observatory) |
| Participants: | Alasdair Macarthur, Albert Porcar-Castell, Andreas Burkart, Andreas Hueni, Antonis Kavvadias, Dan Sporea, Eija Honkavaara, Enrico Tomelleri, Helge Aasen, Javier Pacheco, Joel Kuusk, Lea Hallik, Leonidas Toullos |

DAY 1: Expert talks day, Tuesday 22.11

Day one was opened by a welcome by Helge and an introduction on the Tartu Observatory. Then seven experts from the field of spectral remote sensing with UAVs presented their work in talks what were followed by discussions on the presented topics. The day was closed by a round table discussion that linked the talks to the topic of the workshop and prepared the work sessions on the second day. Additionally, a Tour of the calibration facilities of Tartu Observatory was held by Joel. The day was ended by a common dinner in Tartu.



DAY 2: Working session day, Wednesday 23.11

On day two the group was split in two brake out groups after a wrap up of day one. The first group worked on (lab) calibration procedures for spectral UAV sensors. The second group worked on best practice procedures for UAV spectral sampling in the field. These included flight planning, calibration activities before the flight and sensor preparations, radiometric calibration considerations before and during the flight and data post-processing. Additionally, minimum requirements for reliable data were discussed. At the end of the day a shared dinner at the Observatory was held.



DAY 3: Fixation meeting, Thursday 24.11

During the workshop it was agreed that a document should be assembled as guidelines for other researchers on the best practices on UAV spectral sampling. Additionally, a questionnaire should be designed to capture the state-of-the-art in the community. The session on the last day was held to define to plan how to proceed with these actives.

We thank all participants of the workshop for the constructive and productive meeting. Special thanks to Joel and Lea for their support and contributions in planning and carrying out the workshop.