MEETING REPORT - MM20180625

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| <u>Subject</u> : Meeti | ng Minutes -WP4 LIST BELV | AUX | |
| Project GRoNe | | | |
| Date : | 25.06.2018 - | 9:30 - 17:00 | |
| Participants | | | |
| Parter | naires Partners | Objectives of the meeting | |
| Id. | Entity | | |
| C.Beco L.Leblanc D.Handerek E.Taguem AC Romain T.Delaitte E. Nataf L.Ciarletta J.Fix F.Pennerath H.Freza-Buet D.Cazzato HM.Cauchie Ralf Moryson F.Issler | IDELUX IDELUX I-MAGE ULG ULG HENALLUX LORIA CORIA CSUPELEC (CS) CSUPELEC (CS) CSUPELEC UNILU LIST IZFP INNO8 | to create/intensify the connections between the different teams of the consortium (within Action 4 of course but cross-link between actions, e.g. we need connections with Formation/Ausbildung) to define a collaborative work plan for 2018 to clarify the governance within the Action 4 (information flux, collaborative tools) | |
| items | TIVINOO | | |
| Lieu | LIST Belvaux | | |
| Attendance Agenda | each team 2. brainstorming of the p | minutes) of the major R&D topics currently explored by | |
| Introduction | collaboration plan and HM Cauchie introduced the of further collaboration, es | e meeting and the agenda. He insisted on the identification | |
| LIST presentation | The different RDI actions ar | value-chain concerning the monitoring of algae in lakes. The classified by technology readiness levels and the ctions and partners are highlighted. Finally, a call for made. | |
| CSpresentation | Frédéric Pennerath present development of camera-ba improve the control model | ted the activities of CentralSupelec in the field of sed algorithms. The mid-term objective is to learn & of a UAS "on-fly". Concretely, it is planned toimprove asures from low cost gassensors. | |
| Loria presentation | Laurent Ciarletta made a p care. Activities concerns au development of the existir These technologies can be | presentation of the on-going actions on the after-mining autonomous navigation and monitoring. There is further ng software allowing accurate localization of explorator. applied easily to the other "environment" applications. a complete simulation environment (co-simulation for | |
| ULg | Anne-Claude Romain highl drones. Eric Taguem prese dumpling sites, in the cont and the study site. There is particularly adapted. A sho The rationale for low cost | ighted the fact that her team is a new player in the field of inted the general context of gas emission from solid waste text of climate change. He presented the different probes is a need to densify the monitoring networks, so drones are ort discussion on the need of low-cost sensors has arisen. The relies on the need for multiplicating the monitoring point, ase of lost, allow end-user with low budgets to access the | |

| | technology. There is a need for machine learning analyses. | | |
|--|--|--|--|
| I-mage Consult | Daphné Handerek presented the data analysis made on the water quality issue. She compared the image processing on orthophotos obtained using e-bee drone and the satellite photos obtained from Sentinel II. She highlighted the possibility to extract the blooming zones but also the drawbacks due to the photo merging and the lack of IR data for now. The support that machine learning can bring has been identified between CentralSupelec and I-Mage Consult. | | |
| IZFP | Ralf Moryson presented the post-mining group activities. He highlighted the advantages of UAV in exploring and monitoring mines. Example of results in limestone mines (study of delamination of ceiling). Different monitoring processes have been used: thermography, laserscan, LiDAR, photogrammetry, hyperspectral, gas (methane), Another example is the testing of surface properties of infrastructure such as dry film thickness measurement. Ralf underlined the need to detect large project to work together (H2020 – 2-8-2019). | | |
| Extension of current collaboration | Six different areas of new collaboration have been identified: Processing of environmental data about air quality including image interpretation and machine learning (Lead: Centrale Supelec; partners: ULg, I-mage Consult) Near real-time (online) data acquisition (Lead: LIST; partners; ULg, IZFP, LORIA) Strategy for indoor autonomous flight (Lead: IZFP; partners: Centrale Supelec, LORIA, uni.lu) Methane monitoring in mines and industry (Lead: ULg; partner: IZFP) Flight assistance for outdoor environment (planning the flight) (Lead: LORIA; partners: Centrale Supelec, uni.lu, LORIA) Mapping of data available in the project (in order to improve the experimental design and the data analysis) (Lead: I-mage Consult; partners; LIST, ULg, IZFP,) | | |
| Governance and communication | This last point has only been discussed briefly due to a lack of time availability. HM Cauchie proposed to lead the Action 4, at least until the end of the year, in order to keep the Action running. For communication: on the short term, the information will be shared by email to the recipient list of Grone (with the indication ACTION in the title for rapid sorting of email) in addition to the broadcasting through the weblog. | | |

Next step:

The main next step is to organize technical sessions as soon as possible for each areas of collaboration identified during the meeting. The representatives of the Lead Institution (see above) will organize these meetings with the identified partners. The information about these meetings must however been announced broadly to the Grone consortium through email and the weblog.

These meetings should be organized before the end of September. The next GRONE Action 4 meeting could therefore take place at the end of September or beginning of October, in order to share the advances of the different R&D initiatives.