



8th July 2019, Angers France

INVITE H2020 project invites you to its 1st Stakeholder workshop on

Low-cost sensors and vectors for variety testing

Objective: This workshop will focus on low-cost sensor and vector technologies for variety testing. Innovative contributions that involve widely accessible and reproducible plant phenotyping technologies will be presented; among others: smartphone-embedded sensors, Internet of Things technologies, credit card mini-computer systems, associated with low-cost vectors made available under 3D printable objects, do-it-yourself item lists, embedded artificial intelligence under open sources.

Program: 9H-16H30

9H-9H30: Welcome and short presentation of the INVITE European project (<https://cpvo.europa.eu/en/news-and-events/news/invite-successful>)

9H30-12H30: Field demonstrations: Testing low-cost vectors and sensors in the field - one group on fruits (INRA Beaucouzé) and one group on arable crops (GEVES L'anjouère). Confirmed demonstrations :

- Fruits: Connected glasses (IRHS-INRA), Smart Phone Apps (Culteva™, Plant Screen Mobile), Variety testing ImageJ plugin software (WUR)
- Arable crops: Hyperspectral cameras (Carbon Bee, Hardop), Internet of things - connected caliper and compass (IRHS, GEVES), UAV-Drone (HiPhen)

12H30-13H30: lunch

13H30-16H00: Presentations from experts in phenotyping and round table discussion with the audience to define expectations of stakeholders and how they can be answered by the INVITE project. Confirmed speakers:

- Low-costs vectors - Scott Chapman (CSRIO, Australia)
- Low-costs sensors - Mark Müller (Juëlich Plant Phetnotyping Centre, Germany)
- Machine learning - Ian Staveness (University of Saskatchewan, Canada)

16H00-16H30: Synthesis from the field demonstrations and conclusion words

Organizers: David Rousseau (University of Angers), Valérie Cadot (GEVES), Didier Demilly (SNES), Rick Van de ZEDDE (WUR)

Meeting venue: Université d'Angers (Campus Saint Serge) - School of Law, Economics and Business Studies - 13, Allée François Mitterrand, Angers (France)

Registration is free but mandatory before 14th June on: <https://enquetes.inra.fr/index.php/447182?lang=en>

Associated special issue in sensors journal: https://www.mdpi.com/journal/sensors/special_issues/sensors_vectors_plant_phenotyping