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PHENOVIA a field experimental platform in Burgundy for WOSR phenotyping under low chemical inputs.

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Since 2012, Terres Inovia, in close collaboration with INRA, has developed a field experimental platform as part of the French network PHENOME-EMPHASIS, the national high throughput plant phenotyping infrastructure. PHENOVIA is located near Dijon on the INRA Farm of Bretenière.

A total area of 12 hectares is available and splitted in 4 parts allowing an experimental capacity of around 800-1000 microplots each year. The platform is equipped with up-to-date instruments and captors to measure and register parameters of interest at soil and canopy levels : soil and air water content, pressure, soil and air temperature, leaf moisture. A wireless system collects and transfers data to a database. Several other plant and canopy variables are accessible through proxy and remote sensing tools such as UAV imaging techniques. After a couple of years mainly devoted to methodological studies of winter oilseed rape in the context of RAPSODYN project, we are now seeking to integrate more various crops. In 2019, experimentations on soybean will be carried out using irrigation and other experimental tools. For next seasons, WORS is scheduled..

In 2018, INRA agro-ecological policy promoting natural regulations, IPM and low inputs cropping systems has been launched for whole experimental farm through CASYS project. PHENOVIA is therefore planned to host a large variety of experimental topics, like mineral nutrition, irrigation, biocontrol and IPM strategies, mechanic weed control techniques. The platform is able to welcome any research or experimental project interested by the available capacities.

PLENARY TALKS

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