



WeLASER project enters its final stage

- Innovative scientific-technical advances will be carried out, but also an important strategic and dissemination work will be developed.

- The project started in September 2020 and will end in 2023, after 36 months of works.

Madrid, 19 September 2022. WeLASER project enters its final stage with all its different activities running at their full potential and keeping its ambitious objective in mind for this last year: to develop a technological solution to end chemical treatments in the weed management.

Regarding the scientific and technical part, the assessment and optimization of every subsystem will be carried out, through developments and new tests, and prior to the final system integration. High innovative with substantial impact developments will be finalized. For instance, a 2 μ m high power fibre laser source for weed control, a smart central controller for the farmer to coordinate all the systems through a IoT sensor network and a cloud computing system, an improved power system for autonomous robotic platforms for weeding with laser, a smart navigation manager for autonomous robots in precision agriculture, or an AI based laser weeding implement for highly flexible weed control in variable crops and weeds. All these elements will finally be integrated into a non-chemical weeding tool.

But also, there is a strong strategic part to be developed during the following months with two additional stakeholders' events, three field days in three different countries (Denmark, The Netherlands and Spain), a final demonstration, a one-week Summer School, and many other different exploitation, communication and dissemination activities.

WeLASER project successfully achieved its preliminary system integration in April 2022, after assembling all the systems onboard the mobile platform, testing of mechanical and electrical components and communications interfaces shows a noteworthy integration.

WeLASER Project

WeLASER (<https://welaser-project.eu/>) is a European innovation project funded within its Horizon 2020 program. It is coordinated by the Spanish Council for Scientific Research, CSIC (Spain) and has the participation of FutonicsLaser GmbH (Germany), Laser Centrum Hannover (Germany), Department of Plants and Environmental Sciences of the University of Copenhagen (Denmark), AGREENCULTURE SaS, AGC (France), the Coordinator of Farmers and Livestock Organizations, COAG (Spain), the Department of Agricultural Sciences of the University of

Bologna (Italy), the Institute for the Ecology of Industrial Areas (Poland), the Department of Agricultural Economics of the University of Ghent (Belgium) and Van den Borne Projecten BV, VDBP (The Netherlands).

The main objective of WeLASER is to develop a technological solution to end chemical treatments in the weed management. The project started in September 2020 and will end in 2023, after 36 months of works.



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