



NEWSLETTER #3 - MARCH 2022

PRISM

A VET Toolkit Promoting Digitization in the Agriculture Industry for Sustainable Farming



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PRISM

TOWARDS PROMOTING AGRICULTURE 4.0

March 2022

The purpose of this 3rd newsletter is to keep you up to date with the latest news about the project. All project partners have been working on the development of one of the project's final outputs, that is, the conversion of the case studies formats containing the 12 best practices in the field of Agri 4.0 into digital videos translated in English and in the national languages of all partner countries. Another project output that is being finalised is the Beginner's Guide eBook, whose aim is to support and educate VET trainers/teachers in order to increase their interest and knowledge in the field of Agriculture 4.0



The project is in the process of implementing **12 Case-Study Digital Videos** and a **Beginner's Guide e-Book**. The 12 case-studies, which will be offered in both digital video format and as a digital e-book, aim at highlighting 12 Agriculture 4.0 practices that have been implemented within the project partners' countries. On the other hand, the e-Book presents itself as a collection of all the latest information about technological innovations in the field of hardware and software, emerging trends and role of Governments in Europe and UN , with the purpose of fostering Agriculture 4.0.

These outputs will allow farmers, VET trainers, technological experts, policy makers, and other beneficiaries to be better aware of the best and most innovative practices in the field of Agriculture 4.0 which can be implemented in real-life agricultural activities. Moreover, they will also present possible practical solutions to emerging problems which the agricultural sector currently faces.

Benefits derived from these Outputs

By showing the the best practices used in Agriculture 4.0 in all the project member countries, the digital case-study videos can make the philosophy of Agriculture 4.0 more easily understood by the project's target groups.

Whereas, by outlining the challenges the farming and agricultural sector are currently facing; including increased demographics, food waste, intense use of natural resources, climate change, poverty, and hunger; the Beginner's Guide e-Book will make farmers better aware of the need to update their agricultural practices & techniques in terms of sustainability and ecological transition. It also provides a brief history to how farming approaches have changed over time, leading to increased digitization and hence the era of Industry 4.0 and Agriculture 4.0.



Especially when coupled with other new technologies such as precision farming, sensors and robots, Drones can prove to be an essential resources in agricultural practices. This technological tool offers provides significant opportunities to increase profitability through efficiency, achieve better ecological conversion and result in greater sustainability within the agricultural sector.

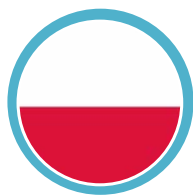
Thanks to drones, agrotechnicians and farmers can analyse the health of their fields in a simple and fast way, so as to be able to take any corrective actions in a timely manner or identify anomalies that would often be missed when observed from the ground. This helps increase the profitability of the crop, both in terms of production and turnover.

The benefits of using Drones



Drones are increasingly at the center of modern agricultural activity. They are used to monitor and block new alien pests that destroy crops, to save up to 95% of water for irrigation and to automatically manage cultivation without the need for human intervention within the field.

Drones allow farmers to work more effectively and save time. They also can help monitor and consequently improve the quality of the environment in general but also the final product, as corrective action such as spraying of the phytosanitary can take place directly on the area or crop which specifically needs it, rather than excessively throughout the field.



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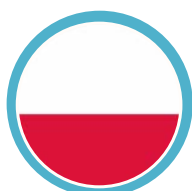
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