

DEVELOPMENT OF A TRAINING PROGRAM FOR ENHANCING THE USE OF ICT TOOLS IN THE IMPLEMENTATION OF PRECISION AGRICULTURE

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Training Package 1

Case Study. Real application of PA:

Guidelines and questions

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1 Objective

The aim of this case study is to give real examples in which precision agriculture is applied. This will help us to discuss about the questions: where, how and which are the impacts of applying precision agriculture.

We will use some of the information and uses cases generated by the H2020 project Internet of Food and Farm - <https://www.iof2020.eu/>.

1.1 The IoF project

As it is explained in the project webpage: *the internet of things (IoT) has revolutionary potential. A smart web of sensors, actuators, cameras, robots, drones and other connected devices allows for an unprecedented level of control and automated decision-making. The project Internet of Food & Farm 2020 (IoF2020) explores the potential of IoT-technologies for the European food and farming industry.*

The goal is ambitious: to make precision farming a reality and to take a vital step towards a more sustainable food value chain. With the help of IoT technologies higher yields and better-quality produce are within reach. Pesticide and fertilizer use will drop and overall efficiency is optimized. IoT technologies also enable better traceability of food, leading to increased food safety.

IoF2020 is part of Horizon 2020 Industrial Leadership and supported by the European Commission with a budget of EUR 30 million. The aim of IoF2020 is to build a lasting innovation ecosystem that fosters the uptake of IoT technologies. For this purpose, key stakeholders along the food value chain are involved in IoF2020 together with technology service providers, software companies and academic research institutions.

Thirty-three use-cases organized around five sectors (arable, dairy, fruits, meat and vegetables) develop, test and demonstrate IoT technologies in an operational farm environment all over Europe. The IoT solutions are being developed following technical, business and ethical considerations, and aim at reaching commercial stage at the end of the project, making IoF2020 a real game changer initiative.

Some use-cases are clear real examples of the application of precision farming.

2 Guidelines

- Go to the IoF webpage and find out the information about trials or use case organized around the five sectors (<https://www.iof2020.eu/trials>). If you click clicking on “Trials” section of the main menu, you will find the five sector in which the project divided the use-cases.
- Choose one of the Use Case of one of the sector which involves the application of precision agriculture
- Read the information related to the case study and answer the following questions

3 Questions

Please, answer the questions in your own words:

1. Which is the aim of the use case?
2. How does it work? Which technology does the case apply?
3. Which are the expected impacts?
4. Do you think that it could be applied easily in your country/region? Why yes? Why not?