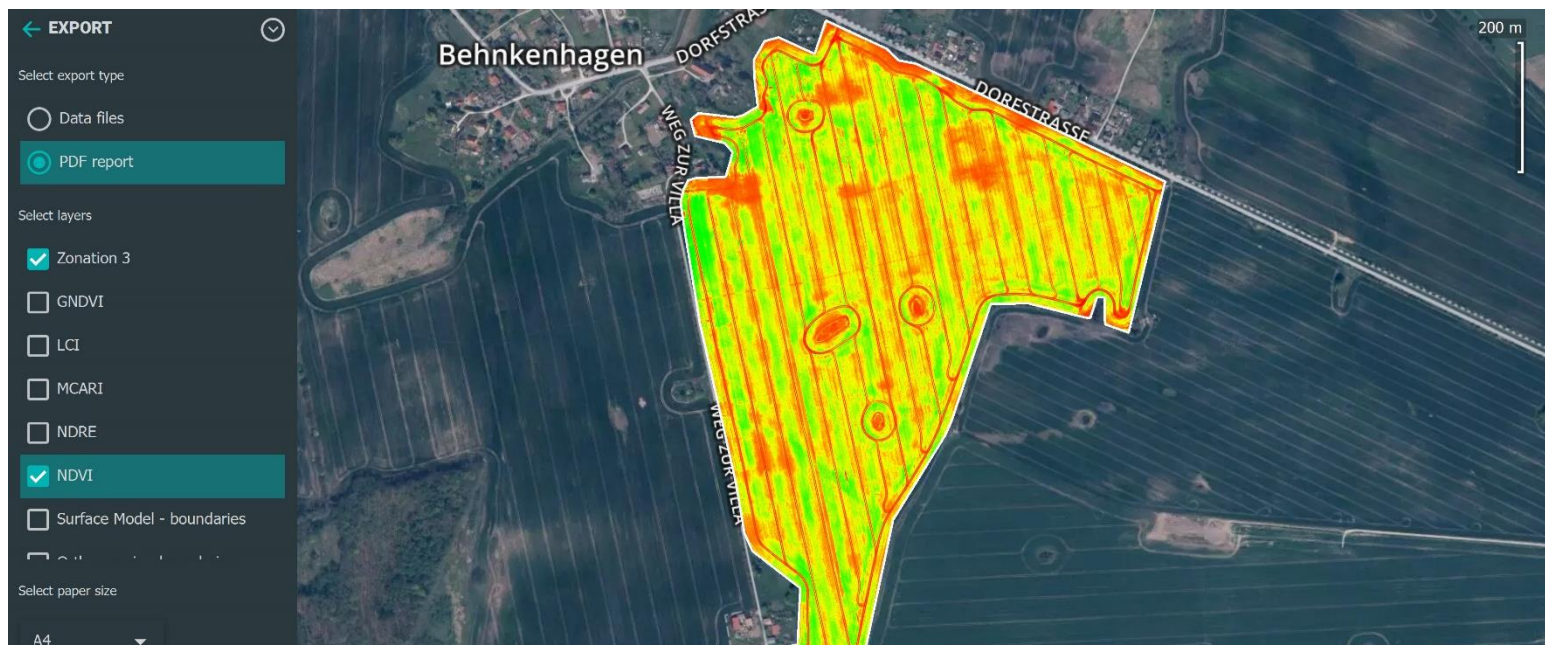




Course in

Photogrammetry Software Pix4D and Pix4DFields



Contents and Objectives

The course is intensive and aims to provide the methodologies for the acquisition and processing of multispectral images in order to obtain calibrated vegetation index maps and prescription maps for field operations. For this purpose, the photogrammetry software Pix4D and the software QGis for advanced data analysis will be used. At the end of the course, participants will be able to correctly process a vigor and prescription map.

Who is the course aimed at?

This course is aimed primarily at professionals interested in learning drone acquisition and data processing methodologies for precision agriculture.

Possible interested parties are agronomists, agricultural experts, agricultural technicians, agricultural technicians, university researchers, surveyors, engineers, operators and drone pilots.

How the course is conducted

The course is held individually or in small groups of people, live via webmeeting. Real cases of use of technologies in companies with which we collaborate will also be analyzed.

Price

The cost of the course is €190 + VAT. For groups of individuals or companies, the price will be adapted to the situation and the number of attendees.

The course can also be combined with the one in Precision Agriculture and Remote Sensing at a total discounted price of 10%.

Certificate of Participation

At the end of the course a certificate of participation will be issued in PDF format.

Course Program

- **DATA ACQUISITION METHODOLOGIES (1 hour)**

- Introduction to Pix4D Mapper
- Optimal methods for data acquisition from drones
- Flight settings
- Multispectral camera settings
- Preferred settings depending on the survey

- **DATA PROCESSING (1 hour)**

- Point cloud generation
- Mesh and 3D model generation
- Digital terrain and surface models generation (DTM and DSM)
- Orthomosaic generation
- Ground Control Points (GCP)

- **FOCUS ON PRECISION AGRICULTURE (2 hours)**

- Notes on Pix4D Fields
- Reflectance and calibration map
- Vegetation index map
- Prescription map
- Map visualization and manipulation in QGIS
- Exercises and Case Studies

- **Q/A**



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