Pix4D**fields**

Drone mapping for
digital agriculture
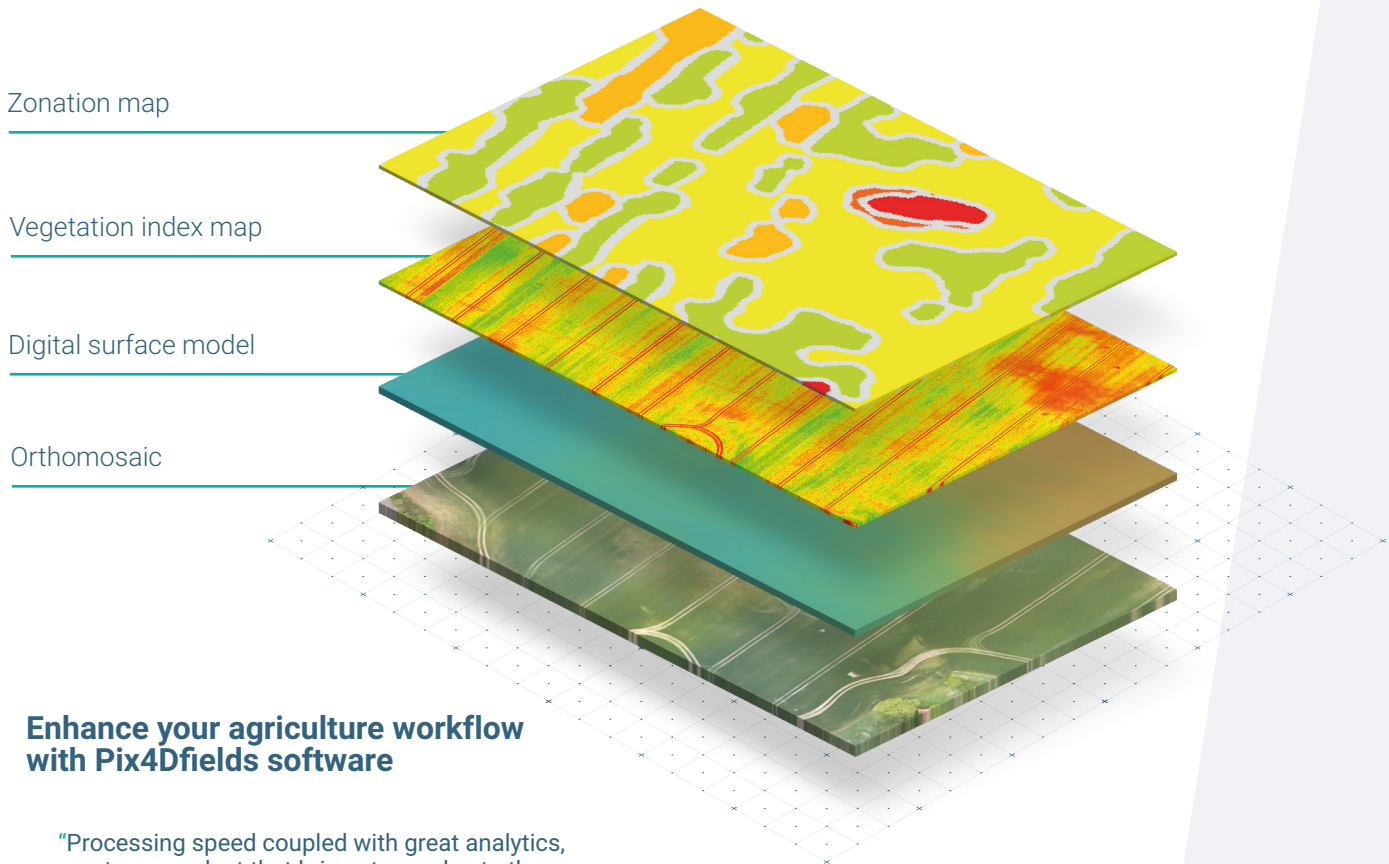
Immediate
digital scouting

Multispectral crop
protection analysis

Zonation and prescription
functionality

PIX4D

Turn drone images into action with state-of-the-art photogrammetry outputs designed especially for agriculture. Tackle challenges in the field by converting drone images to orthomosaics, digital surface models, vegetation index maps, zones and prescription maps to help you maximize operational efficiency.

Zonation map

Vegetation index map

Digital surface model

Orthomosaic

Enhance your agriculture workflow with Pix4Dfields software

"Processing speed coupled with great analytics, creates a product that brings true value to the customers. No other software can achieve this level of efficiency."

Nicholaus Helwig
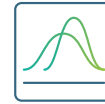Owner Pinpoint Aerial Solutions

Flight planning

Create flight plans with tailored missions to capture optimal data in the field.

Multispectral and RGB compatibility

Import images from any standard RGB and selected multispectral cameras including Parrot Sequoia and MicaSense RedEdge.

New radiometry module

Transform drone images into accurate and actionable maps and achieve consistent and comparable results throughout the growing season.

Fast mapping

Process imagery with the Pix4Dfields instant processing engine and achieve results in minutes in-office and in-field.

Operational efficiency

Optimize your workflow with Pix4Dfields tools designed for agriculture such as the index calculator, comparison and measurement tools.
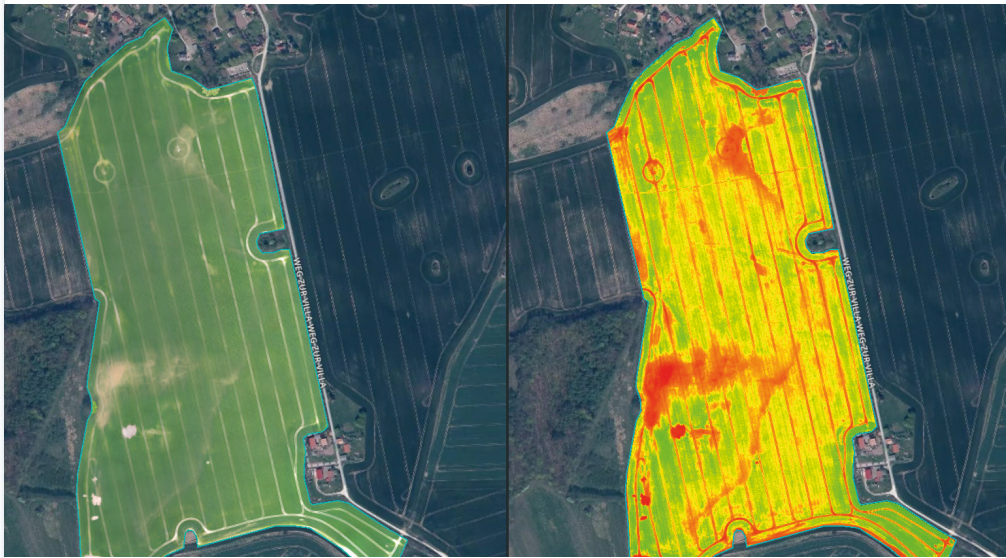
FMP Integration

Seamlessly work with Pix4Dfields results within your Farming Management Platform.

Pix4Dfields applications

Digital scouting

• High-resolution drone images allow you to view your fields from anywhere and identify issues faster.

• Trim your focus areas to your field boundaries and use annotations for a more in depth inspection.
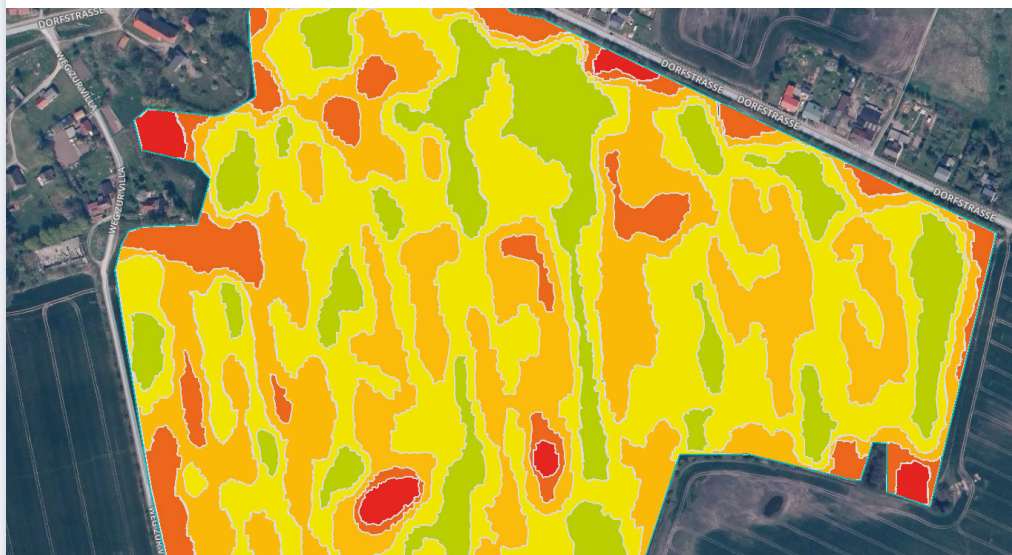
Crop protection

• Use a predefined list of indices or input custom index formulas to better understand your plants stress levels.

Crop production

• Link different layers of information and easily compare crop trends over time in a split or a double screen.

• Create custom zones with information from vegetation index maps.

• Create comprehensive Application Rate Maps for a more targeted use of inputs.
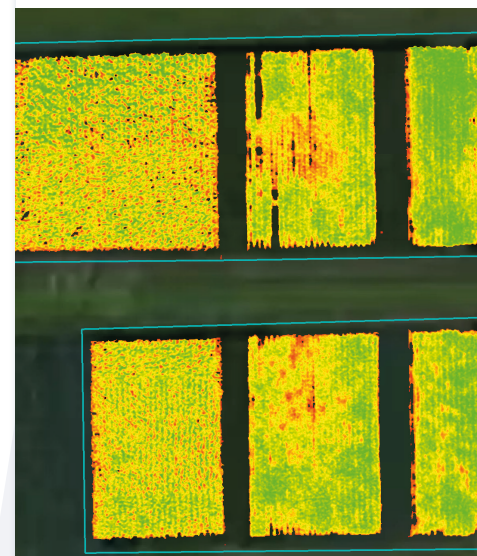
Pix4Dfields applications
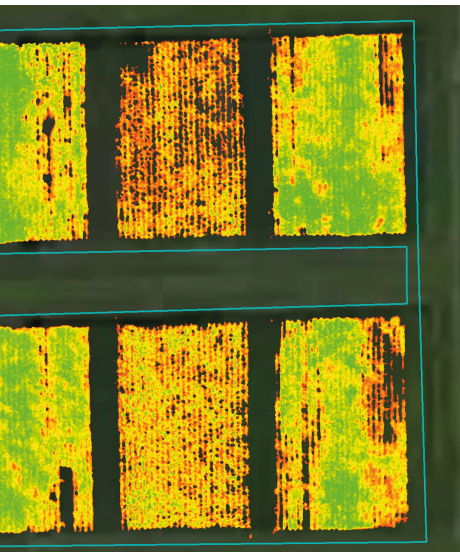
Irrigation and erosion control

• Get more details about irrigation variability for better understanding of crop moisture levels.

• Pinpoint erosion-prone areas with an elevation model of your field.
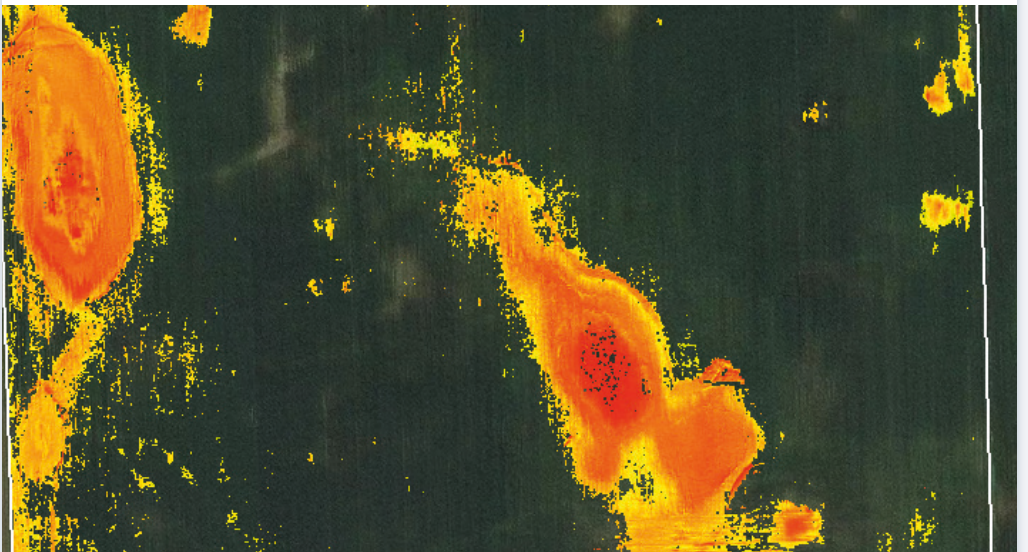
Breeding

• Generate custom indices specific to your crops.

Insurance

• Monitor your trial plots and compare maps to see trends over time.

• Generate maps instantly to validate and sustain your insurance claims with visual proof.

• Quantify damage severity with the zonation tool and identify areas for an in-field inspection.

Workflow

CAPTURE

Pix4Dcapture for flight planning

Fixed-wing drones

Rotary drones

RGB cameras

Multispectral cameras

PROCESS & ANALYZE

Process high-resolution orthomosaics instantly

Compare different maps side by side

Explore predefined or input custom index formulas

Generate zones and assign application rates

Add annotations and measure important farm areas

PIX4DFIELDS OUTPUTS

Orthomosaic

Vegetation index map

Zonation map

Prescription map

Digital surface model

SHARE, CONNECT & INTEGRATE

Share your maps with all project stakeholders using Pix4Dfields PDF report tool

Data sync

Synchronize your data between multiple devices for streamlined collaboration

Choose outputs to download and import into your Farming Management Platform in your choice of industry-standard formats
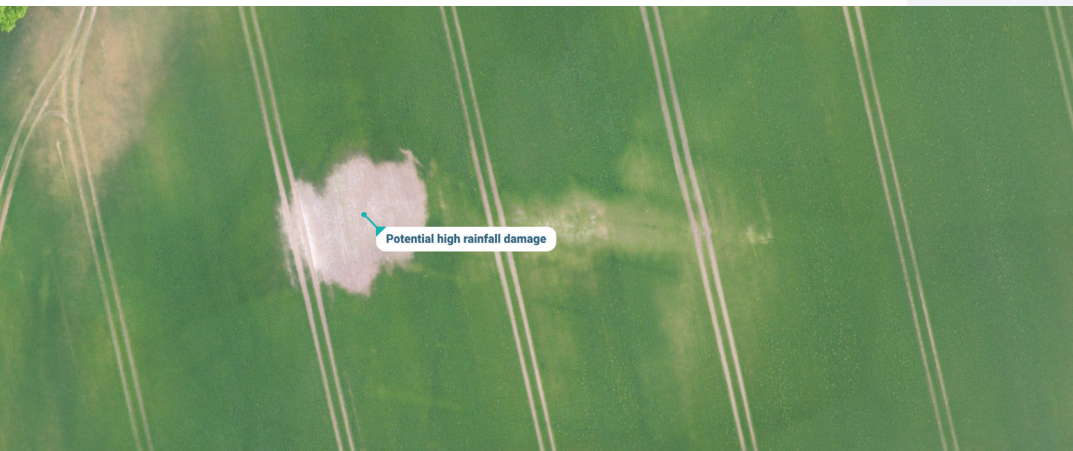
Pix4Dfields outputs

Orthomosaic

• An intuitive representation of your field

• Specify the desired Ground Sample Distance (GSD) for a more or a less detailed output

• Scout and identify issues faster

Fields of application: digital scouting, crop protection, insurance

Potential high rainfall damage
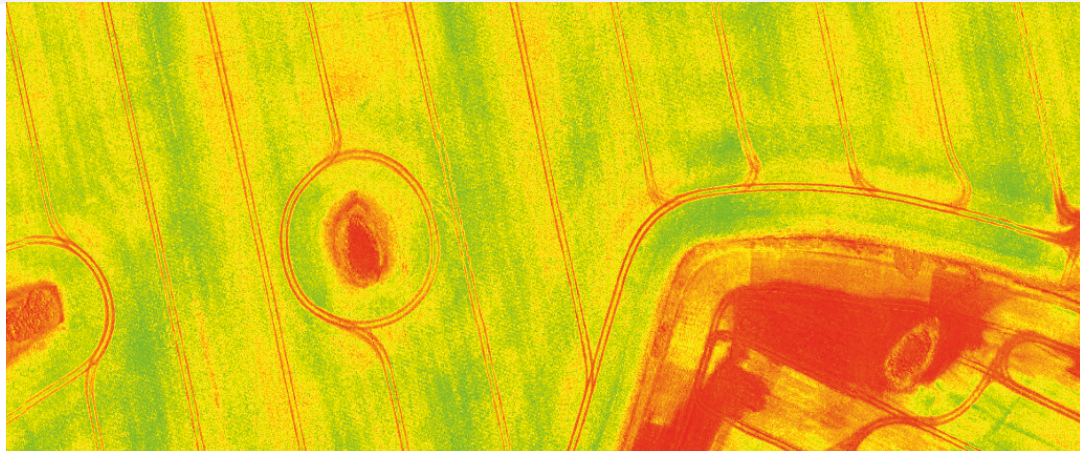
Field Boundaries and Annotations

• Import or draw your field boundaries

• Annotate areas of focus for in-depth inspection

Fields of application: digital scouting, crop production, crop protection, insurance

Vegetation Index Map

- Understand your plants stress
- Generate predefined indices
- Create custom indices

Fields of application: crop protection, crop production, breeding

Digital Surface Model

- Get more detail about your irrigation variability
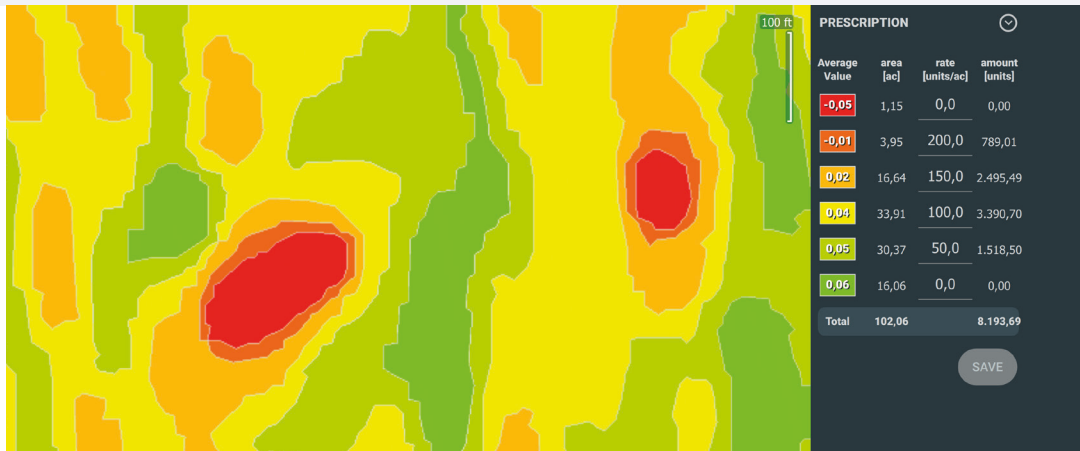- Pinpoint erosion prone areas

Fields of application: irrigation and erosion control

Zonation and Prescription

- Generate zones
- Assign application rates

Fields of application: crop production, insurance

100 ft			

PRESCRIPTION

Average Value	area [ac]	rate [units/ac]	amount [units]
-0,05	1,15	0,0	0,00
-0,01	3,95	200,0	789,01
0,02	16,64	150,0	2.495,49
0,04	33,91	100,0	3.390,70
0,05	30,37	50,0	1.518,50
0,06	16,06	0,0	0,00
Total	102,06		8.193,69

SAVE

PIX4D

pix4d.com/agriculture