



Drone mapping for digital agriculture

Immediate digital
scouting

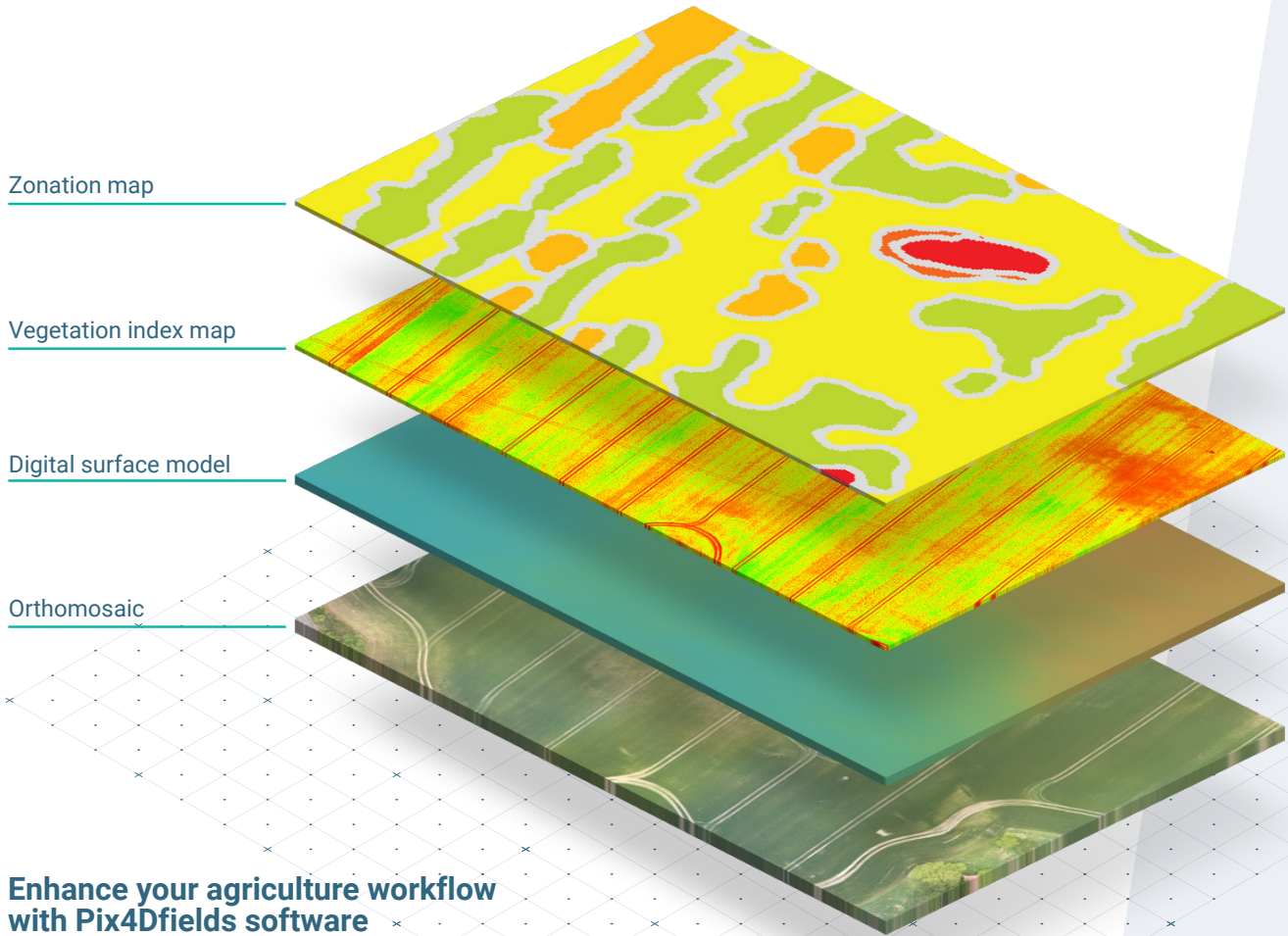
Multispectral crop
protection analysis

Zonation and
prescription functionality



Pix4D**fields**

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.



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.



Instant results

Process imagery with the Pix4Dfields new instant processing engine for results in minutes.



Spatial awareness

Convert drone images into precise and actionable maps.



Operational efficiency

Optimize your workflow with Pix4Dfields tools designed for agriculture such as the index calculator and comparison tool.

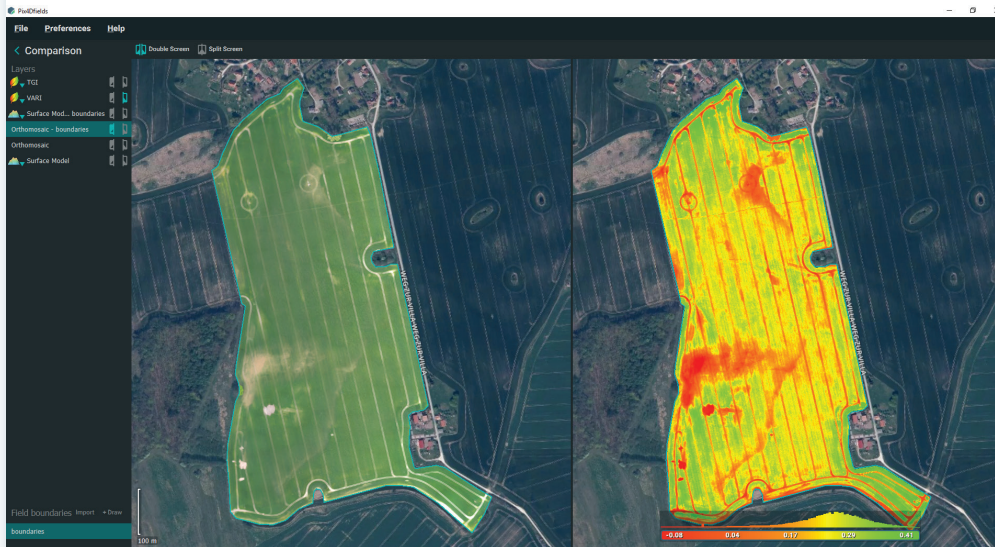


FMP Integration

Seamlessly work with Pix4Dfields results within your Farming Management Platform.

Pix4Dfields applications

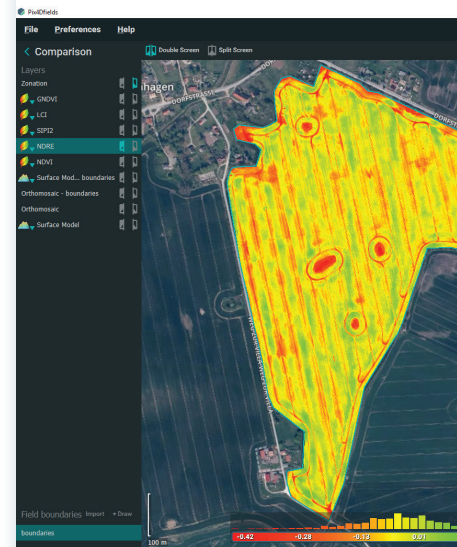
Digital scouting



- 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 plug in your own custom index formula to better understand your plants stress levels.



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

Crop production



- Create custom zones with information from vegetation index maps.
- Create comprehensive Application Rate Maps for a more targeted use of inputs.

Pix4Dfields applications

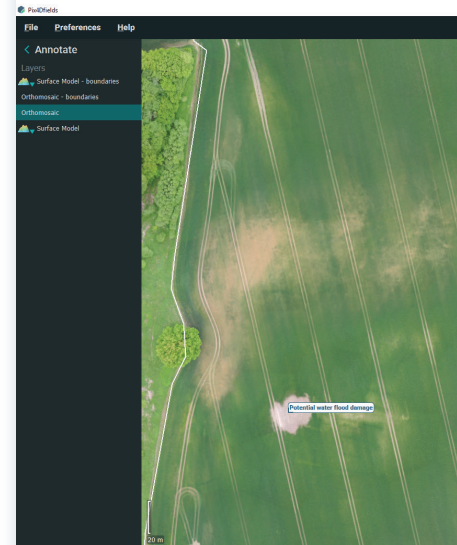
Irrigation and Erosion control



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

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

Insurance

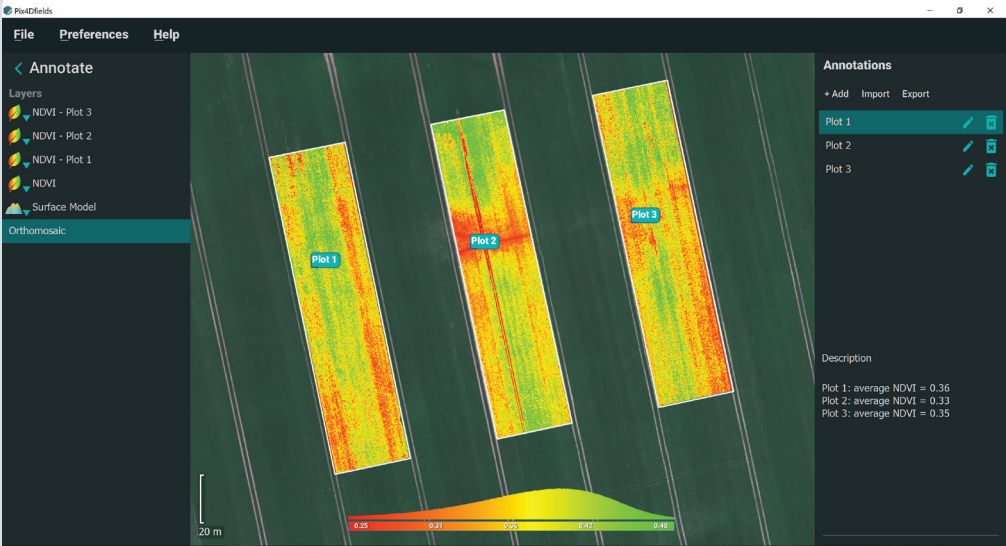


- Generate maps instantly to validate and sustain your insurance claims with visual proof.



- Categorize areas of concern with the zonation tool and understand the area size for insurance cases.

Breeding



- Generate custom indices specific to your crops.
- Monitor your trial plots and compare maps to see trends over time.

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 plug in custom indices



Generate zones and assign application rates



Annotate crop focus areas

OUTPUTS



Orthomosaic



Vegetation index map



Zonation map



Prescription map



Digital surface model

SHARE & INTEGRATE



Share your maps with all project stakeholders for seamless collaboration.



Download all outputs and import into your Farming Management Platform in your choice of industry standard formats.

Pix4Dfields outputs



Orthomosaic

- An intuitive representation of your field
- Scout and identify issues faster

Fields of application: digital scouting, crop protection, insurance



Field Boundaries and Annotations

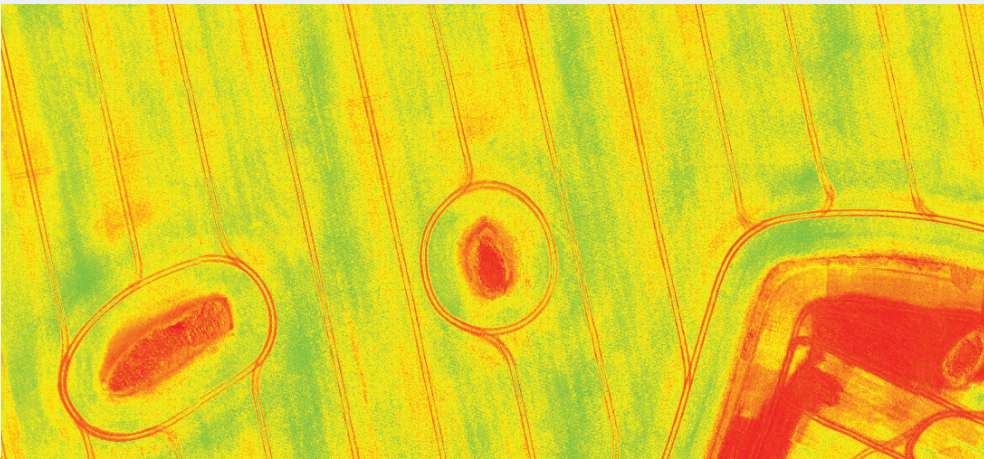
- Import or draw your field boundaries
- Annotate areas of focus for in depth inspection

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

Vegetation Index Map

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

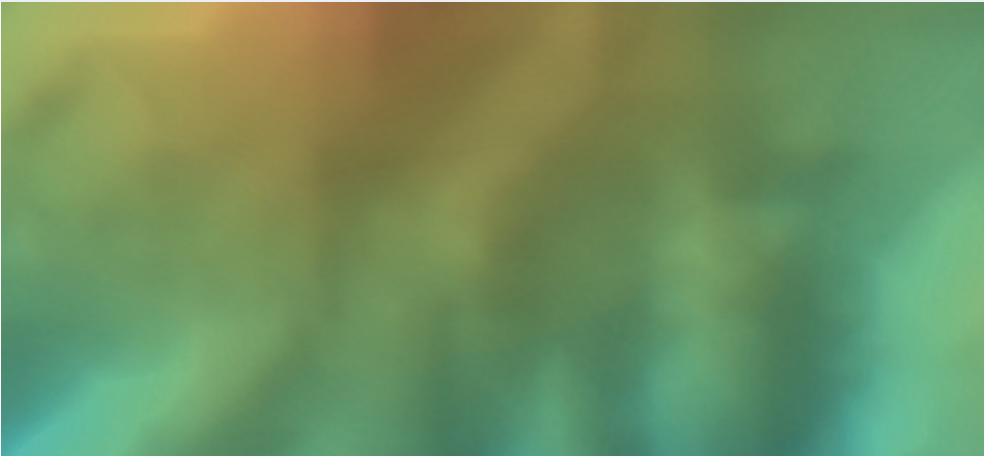
Fields of application: crop protection, crop production, breeding



Digital Surface Model

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

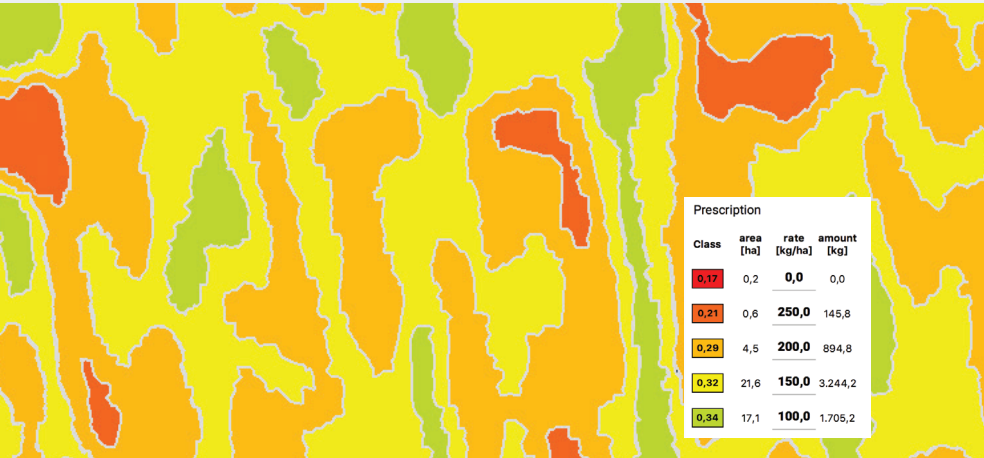
Fields of application: irrigation and erosion control



Zonation and Prescription

- Generate zones
- Assign application rates

Field of application: crop production



Prescription			
Class	area [ha]	rate [kg/ha]	amount [kg]
0,12	0,2	0,0	0,0
0,21	0,6	250,0	145,8
0,29	4,5	200,0	894,8
0,32	21,6	150,0	3.244,2
0,34	17,1	100,0	1.705,2

An aerial photograph of a vast agricultural field, likely a cornfield, showing distinct diagonal rows of crops. The field is a vibrant green color. In the center of the image, there is a white text overlay.

pix4d.com/agriculture