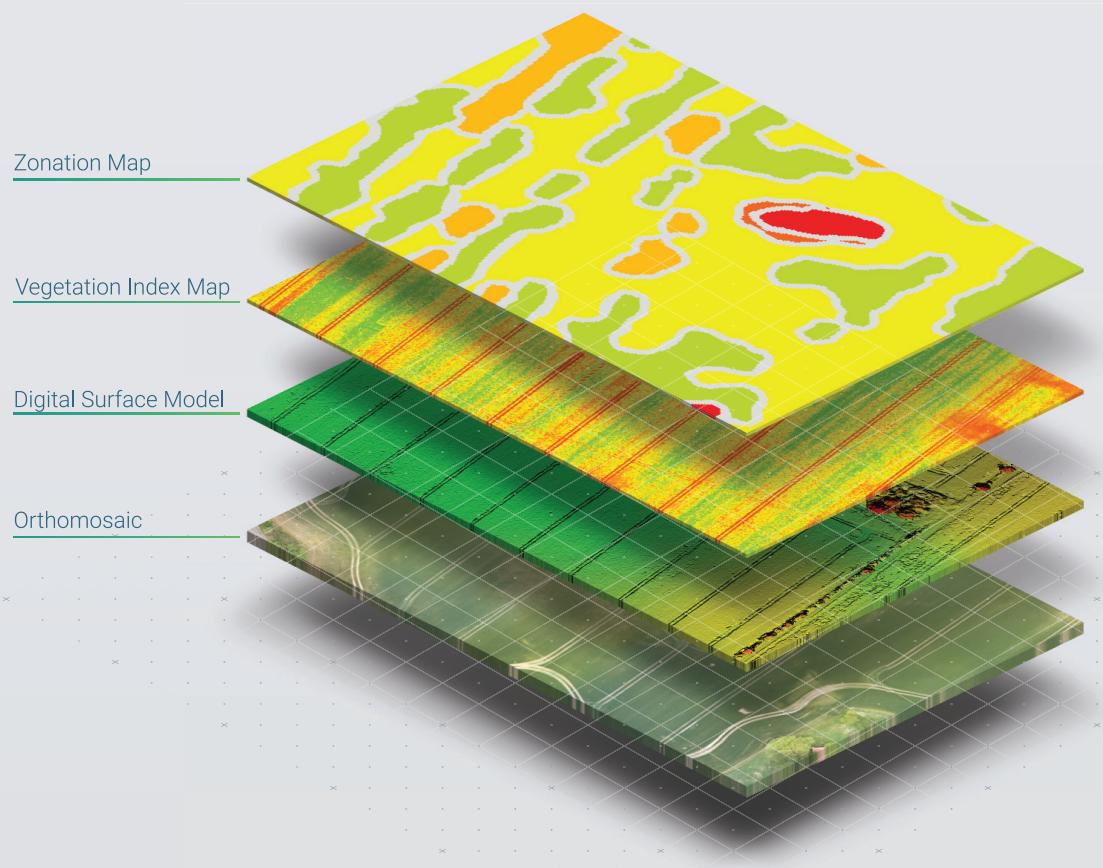

PIX4D
AGRICULTURE
Digitize your field,
the first step towards the
future of digital farming.
Immediate
digital scouting
Multispectral crop
protection analysis
Zonation and
prescription functionality
Pix4Dfields
pix4d.com/pix4dfields

Pix4D and the future of Agriculture

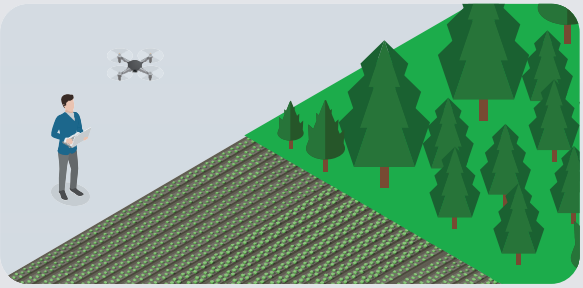
The state-of-the-art photogrammetry techniques working for agriculture. Tackling the industry challenges by converting drone images into orthomosaics, digital surface models, index maps, zones and prescription maps to maximize operational efficiency.



All the decisions start in the field

Addressing the most common fields of application like digital scouting and crop protection, crop production, insurance, breeding, irrigation and erosion, and 3D mapping with a powerful suite of products.

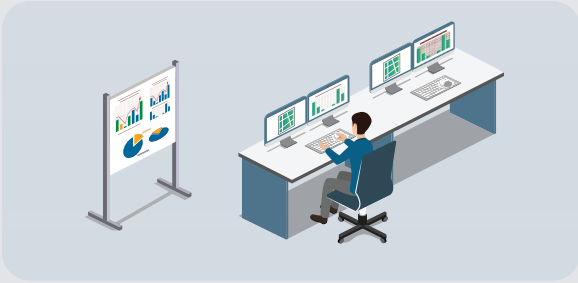
In-field activities



1 Crop scouting with instant stitching in the field

2 Crop protection with high resolution index maps and comparison tools

Office analysis



3 Crop production with zonation and prescription maps

4 Export to your tractor or your Farming Management Platform

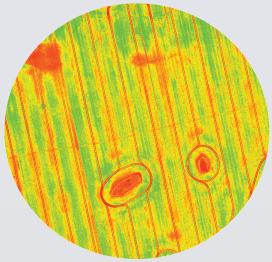
Pix4D Agriculture

Fields of application

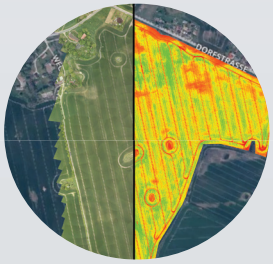
DIGITAL SCOUTING AND CROP PROTECTION



Identify issues faster by scouting with timely and high-resolution drone maps.



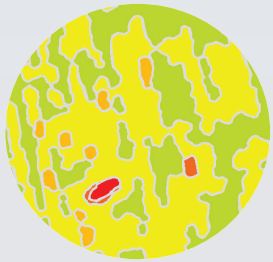
Understand your plant's distress by exploring the different vegetation index maps.



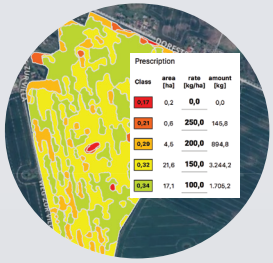
Link vegetation index maps to plant features by comparing and interpreting different layers of information side by side.

CROP PRODUCTION

Obtain management-ready maps by aggregating information into zones.



Create comprehensive Variable Rate Application Maps for a more targeted use of inputs.



Connect with your Farming Management Platform and export any map in various industry standard formats.

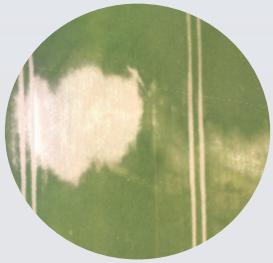




Pix4D Agriculture

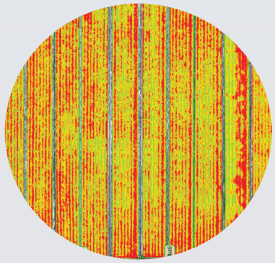
Fields of application

INSURANCE



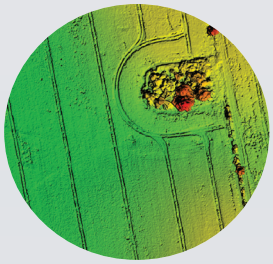
Generate maps immediately to validate and sustain your insurance claims with visual proof.

BREEDING



Benefit from a new layer of information in your trials thanks to vegetation index maps and their custom vegetation indices.

IRRIGATION AND EROSION CONTROL



Detailed Digital Surface Model to plan and manage your irrigation and to structure your field and minimize soil erosion.

3D MAPPING



Obtain an accurate 3D representation of your crops and forest to better understand your operation in context.



Pix4Dfields

From the input of farmers, agronomists and breeders

Fast and accurate maps while in the field, with a simple yet powerful interface fully dedicated to agriculture.

ACCURACY

Converting full resolution images into consistent and comparable maps throughout the season with Pix4Dfields.

INSTANT RESULTS

With the new instant processing engine, generate high-resolution maps while you are in the field.

Available for selected multispectral and RGB cameras.

AGRICULTURE INTUITIVE

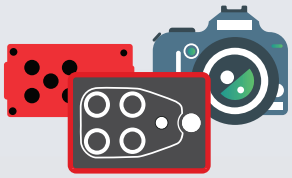
Layer comparison, zonation and prescription tools to help you interpret and manage your maps better.



Pix4Dfields comparison tool.

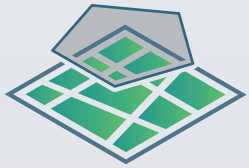
Pix4Dfields

Technical specifications



MULTISPECTRAL AND RGB CAMERAS

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

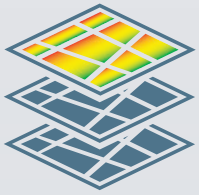


FIELD BOUNDARIES

Import field boundaries from your farming management platform, or draw them directly in Pix4Dfields.

COMPATIBLE WITH PIX4D SOFTWARE

Import orthomosaics, DSMs and index maps.



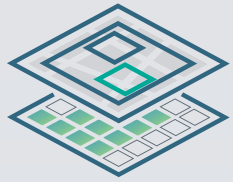
VEGETATION INDICES AND LAYER COMPARISON

Vegetation indices (NDVI, NDRE, VARI, TGI, SIPI2, LCI, BNDVI, GNDVI). Split and double screen for easy interpretation.



INSTANT MAPPING

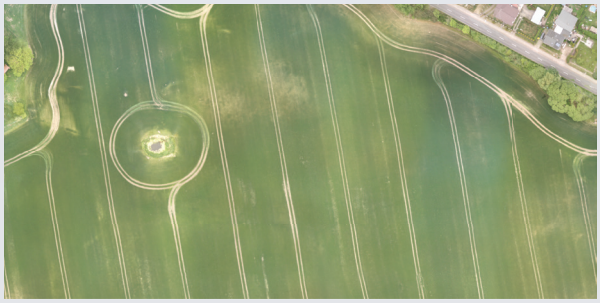
Start generating maps instantly in the field with the new processing engine. No internet required.



ZONATION AND PRESCRIPTION

Aggregate the information from the vegetation index maps into zones and assign application rates.

Pix4Dfields
Outputs



ORTHOMOSAIC

An intuitive representation of your farm.

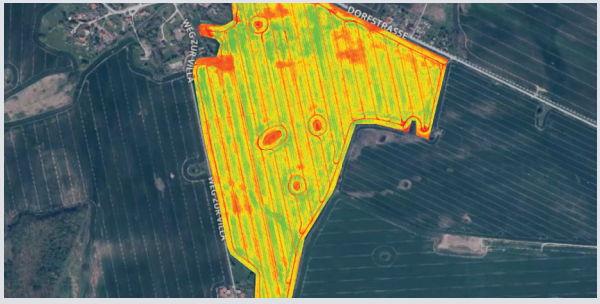
Export format: tif (GeoTIFF)



FIELD BOUNDARIES

Import or draw your field boundaries to focus your analysis only to your areas of interest.

Export format: SHP (shapefile), GeoJSON

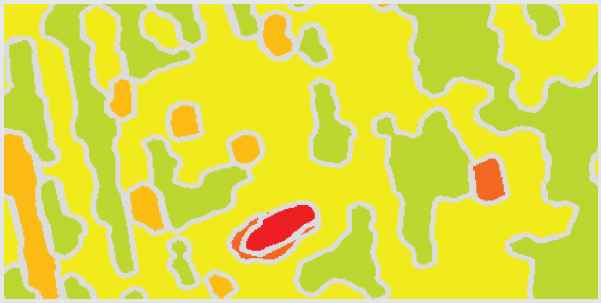


VEGETATION INDEX MAPS

Understand and visualize your field beyond what you can see with your naked eye.

Export format: tif (GeoTIFF)

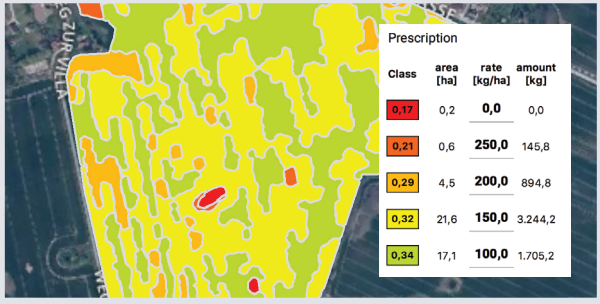
Pix4Dfields
Outputs



ZONATION MAPS

Generate zones based on vegetation index maps.

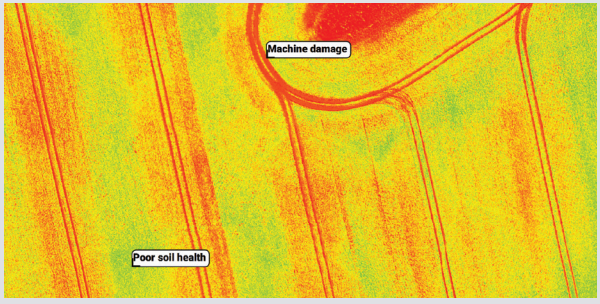
Export format: SHP (shapefile), GeoJSON



PRESCRIPTION MAPS

Assign application rates for use in a Variable Rate Application Map.

Export format: SHP (shapefile), GeoJSON, KML



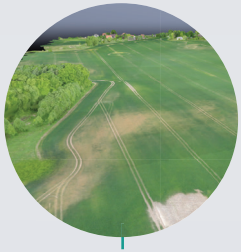
ANNOTATIONS

Convey more valuable and actionable information by adding annotations to your maps.

Export format: SHP (shapefile), GeoJSON

Compatible with Pix4Dmapper

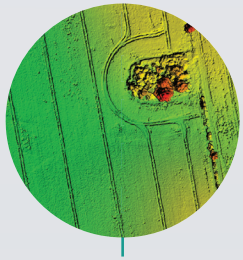
Photogrammetry software for professional drone-base mapping



3D MAPPING

A 3D representation of your fields and forest.

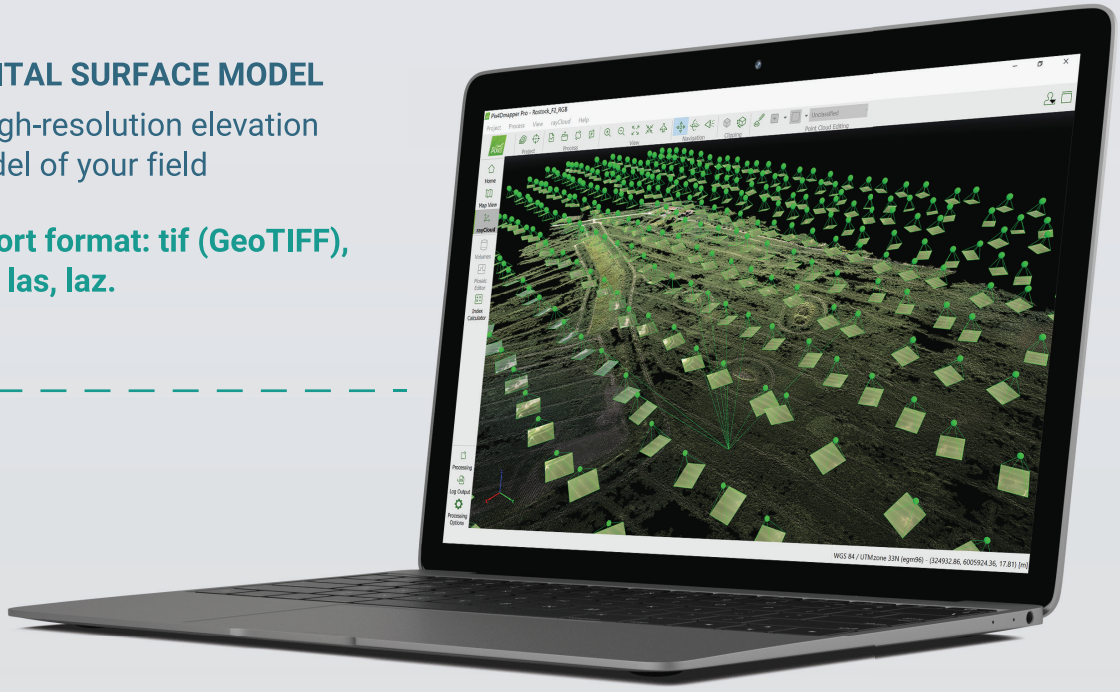
Export format: ply, fbx, dxf, obj, pdf.



DIGITAL SURFACE MODEL

A high-resolution elevation model of your field

Export format: tif (GeoTIFF), xyz, las, laz.



Complete solution



Parrot Sequoia+
Multispectral image
acquisition.

PIX4D CAPTURE

Flight planning.

Pix4Dfields

Agriculture drone
mapping.

PIX4D MAPPER

Photogrammetry
drone mapping.

Interested in a complete solution for agriculture or product bundles?
Visit our store at **Pix4D.com** or contact us at **sales@pix4d.com**

PIX4D ENGINE





PIX4D ENTERPRISE

Seamless integration to power your workflows.

Build your own industry - or customer - specific drone mapping applications using our Pix4D photogrammetry engine. Host your own or host with us.

EDUCATIONAL

Learn. Teach. Research.

Special discounts to support people in the world who are doing good things. We offer licenses for qualified educational, non-profit, and non-governmental organizations.

SUPPORT AND TRAINING

Continuous learning for drone mapping professionals.

Self-paced, instructor-led, and custom training available onsite, online and in multiple languages


Pix4Dfields
PIX4D