Presenting Pix4D's New Professional Products

Webinar April 8th, 2020

Pix4Dmatic Pix4Dsurvey Pix4Dscan Pix4Dinspect Pix4Dreact Pix4Dfields

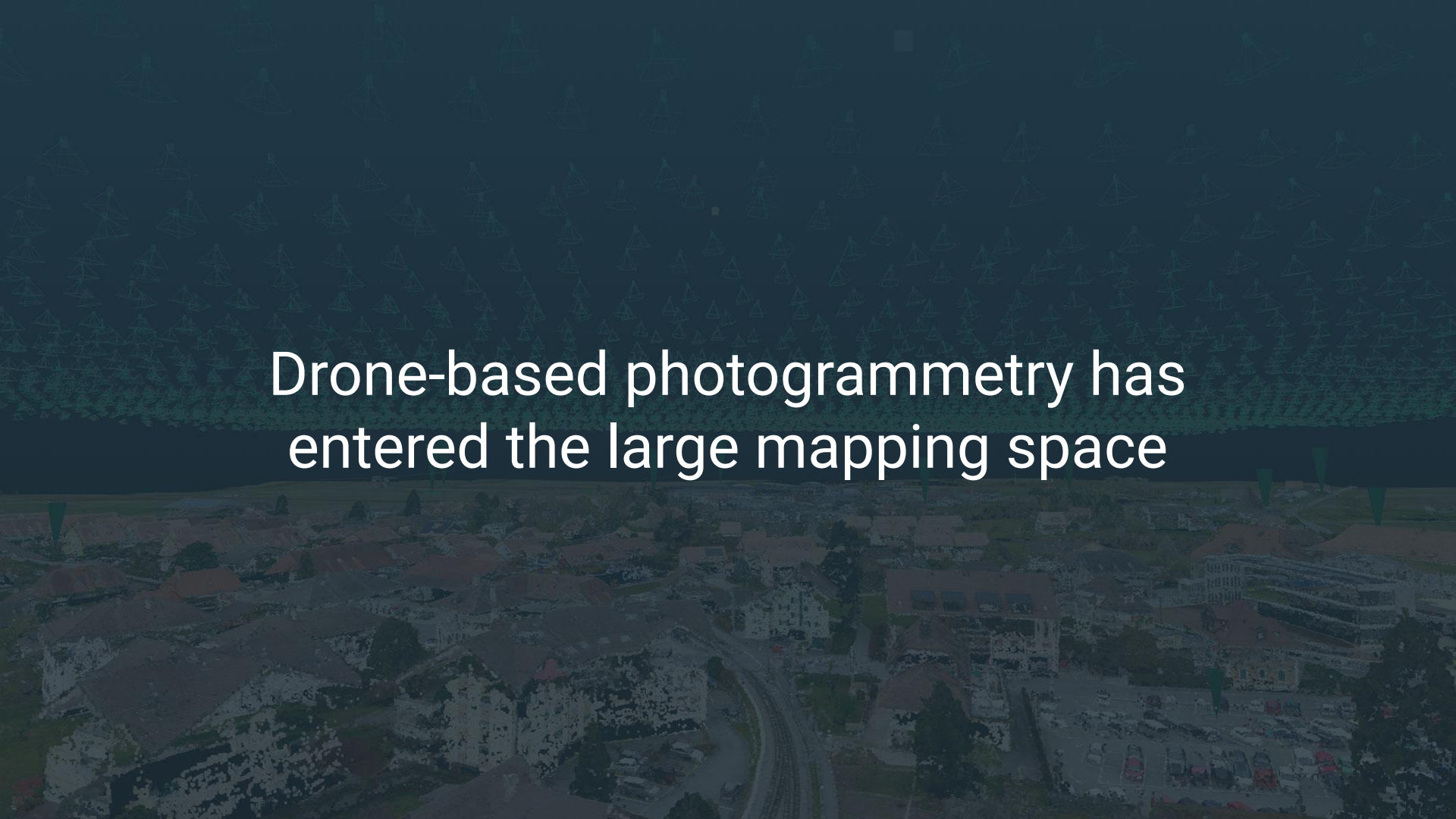
Agenda

1. Pix4D**matic**
2. Pix4D**survey**
3. Pix4D**scan** & Pix4D**inspect**
4. Pix4D**react**
5. Pix4D**fields**
6. Pix4D **Training**

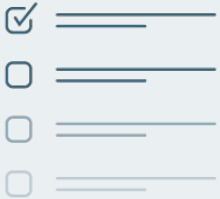
Pix4Dmatic

Photogrammetry at a large scale

Amritha Narayanan
Product Owner

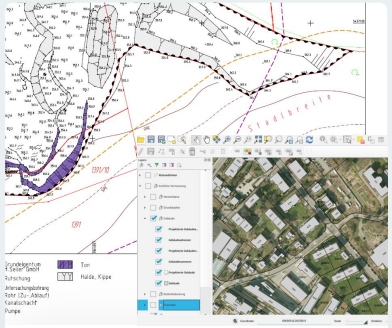

Drone-based photogrammetry has
entered the large mapping space

Acquire large dataset with more than 5000 images

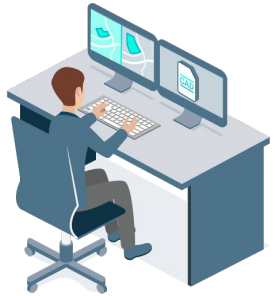


I'm frustrated that I cannot process in one go

I'm trying to make my exports manageable



CAD/GIS



Challenges faced with large data mapping today

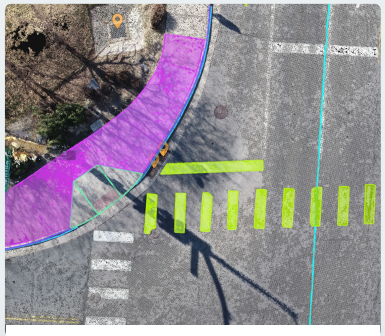
- Cumbersome workflows to manage the large data
- Trade-off with accuracy
- High uncertainty on the success of a project
- Time lost in waiting
- Making exports manageable

Pix4Dmatic's highlights

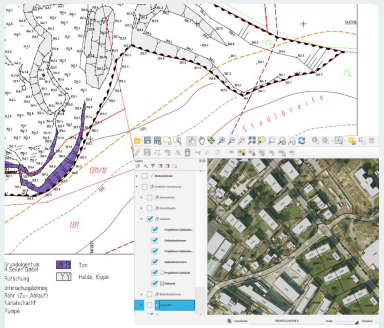
- Optimised for datasets with more than 5000 images without compromising on the accuracy
- Integrated workflow with Pix4Dsurvey: Convert your large dense point cloud to manageable vectors for your CAD deliverables

Acquire large dataset with more than 5000 images

Process



Vectorize



CAD/GIS

Pix4D**matic**

Photogrammetry at a large scale

Designed for the next generation of mapping, covering larger and larger areas.

Pix4Dmatic's highlights

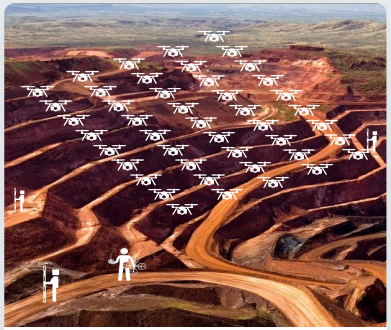
- Supports the major drone manufacturers:
  - Parrot
  - SenseFly
  - Wingtra
  - DJI
- For Windows and macOS


Pix4Dmatic
BETA
Commercial release this summer

Pix4Dsurvey

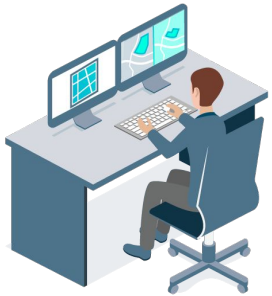
Bridging the gap between photogrammetry and CAD

Nate Moore
Product Owner

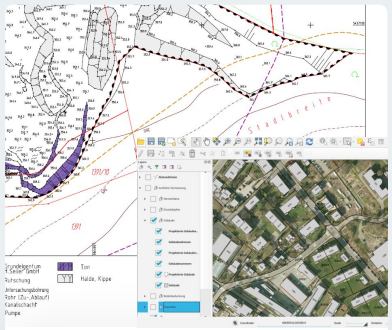


Acquire

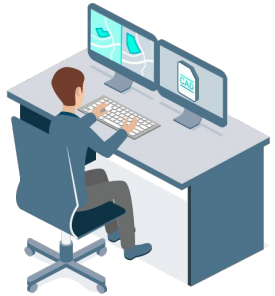
Process



This step takes 2/3rds of the time!!

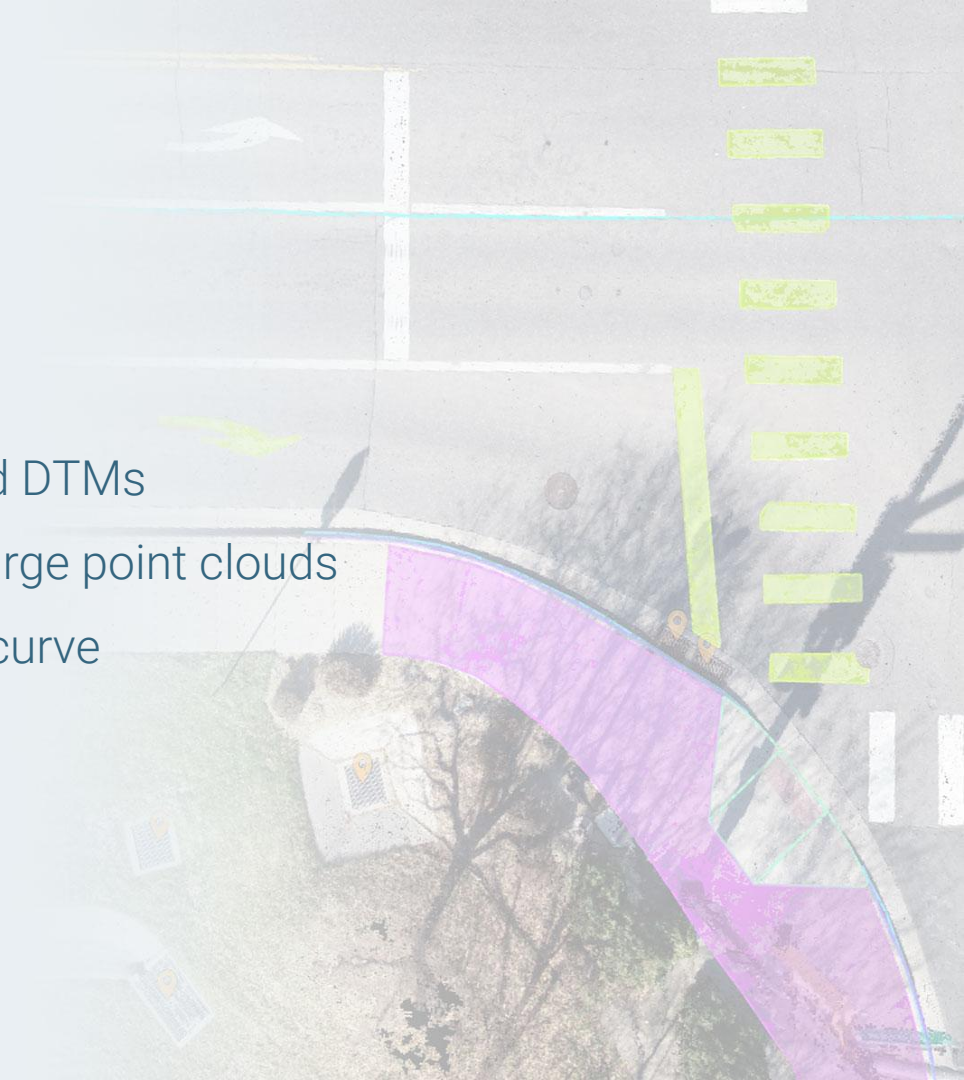


CAD/GIS



Why does this gap exist?

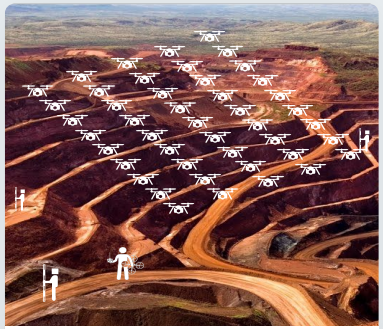
- Big sets of images
- Huge point clouds, orthomosaics and DTMs
- CAD software cannot easily handle large point clouds
- Many software tools = long learning curve
- Disconnected workflows



Pix4D**survey**

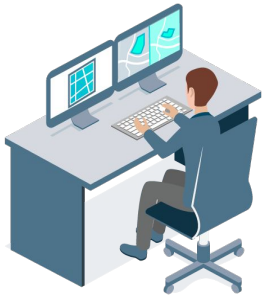
Extract the data you need

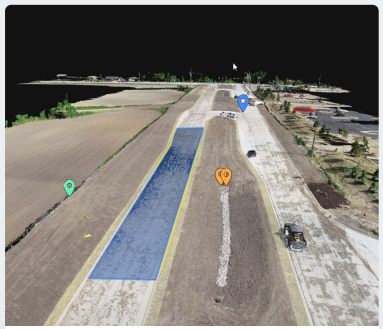
A next step in Pix4D photogrammetry workflows to simplify your connection to GIS and CAD, making planning and design easier.



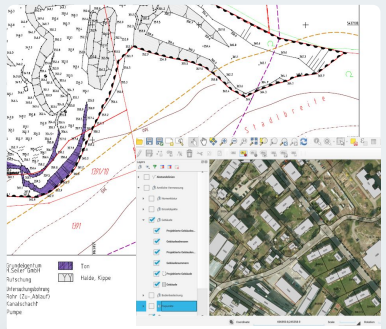
Acquire

Process





Vectorize



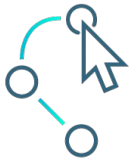
CAD/GIS

Import projects from Pix4Dmapper, or any .las or .laz file

.p4d

Any point cloud source (aerial or terrestrial LiDAR, photogrammetry, total station, etc)

Beyond the point



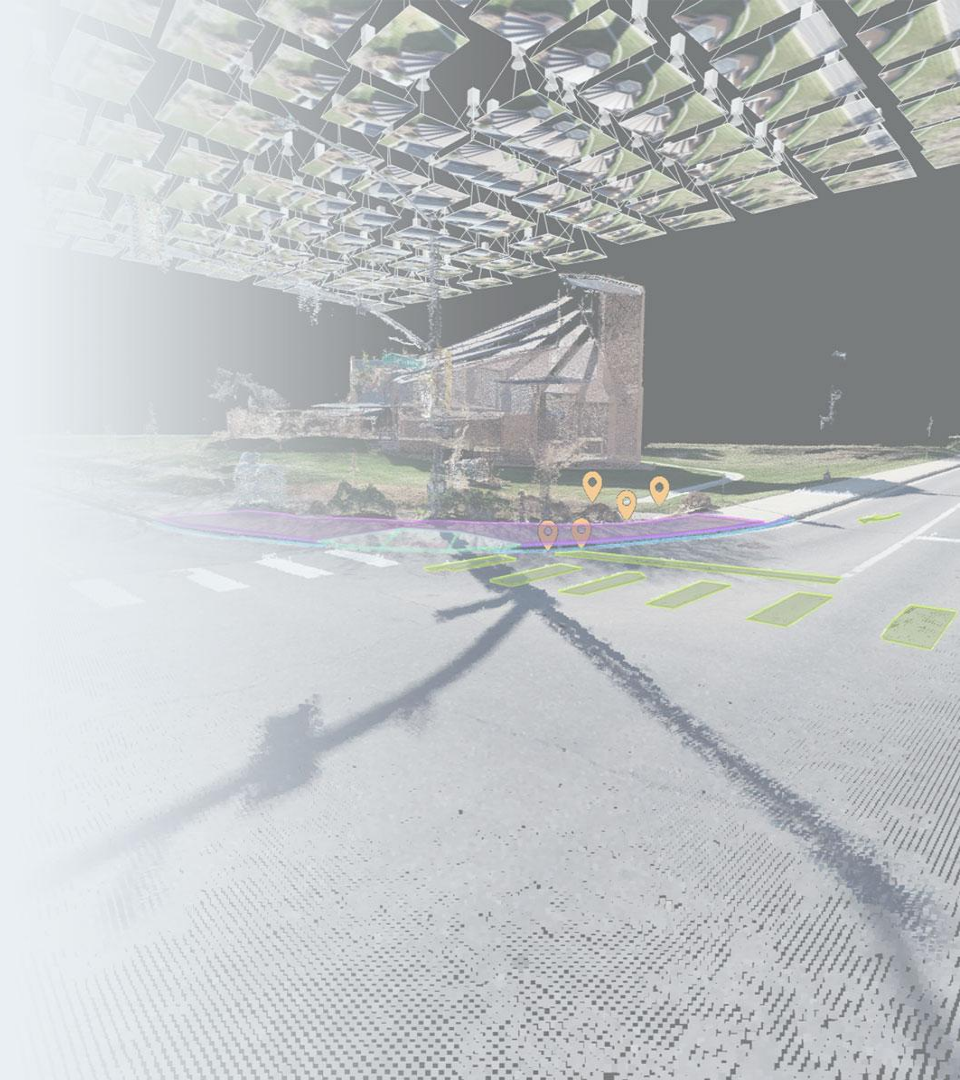
Vectorize anything

Flexible & scalable

CAD ready

Outcomes

- Reduce overall surveying time
- Improve the compatibility with GIS and CAD tools
- Simplify the 3D data reduction/extraction process
- Leverage the power of the rayCloud^{tm} for detailed vectorizing
- Expand possibilities



Pix4D**scan**

Pix4D**inspect**

Automating industrial inspection and asset management

Alexis Castilla
Head of Product

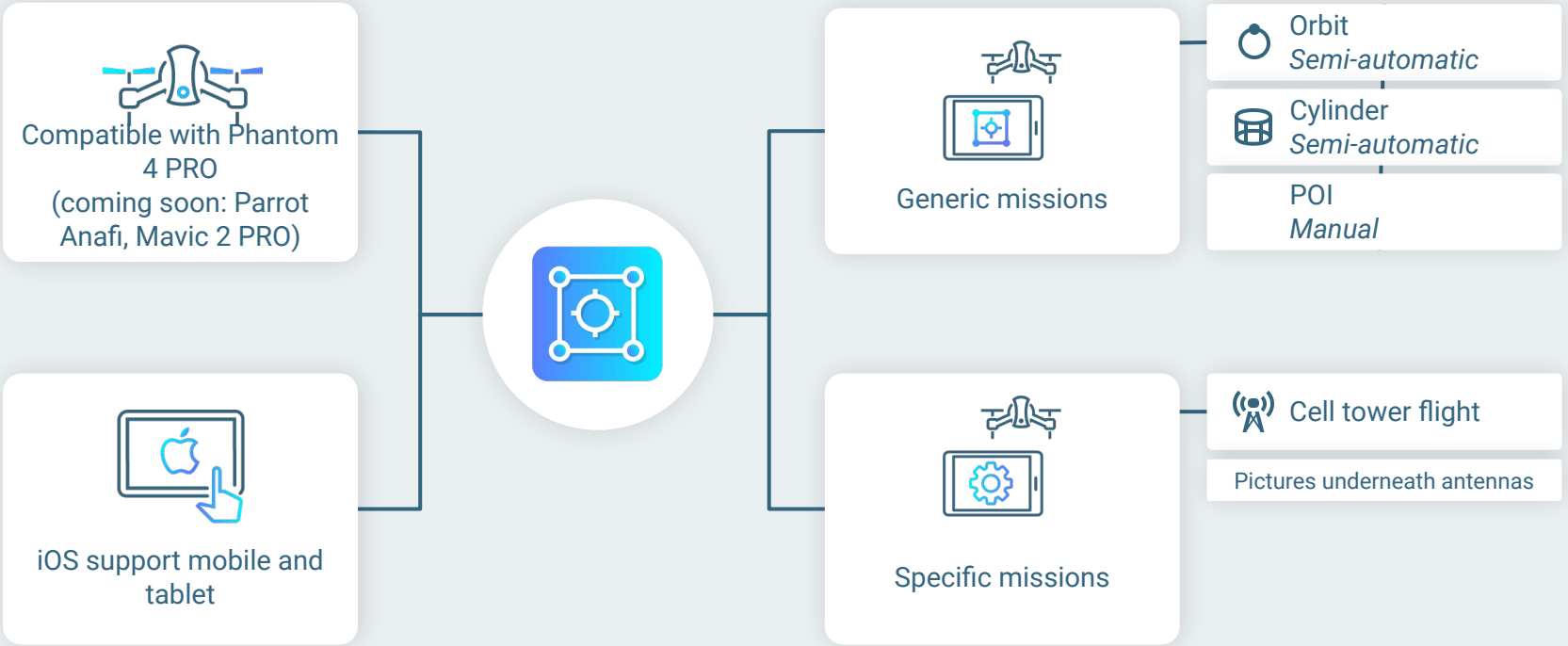
Pix4D**scan**

The professional drone flight app for industrial inspection

Pix4Dscan workflow

1. Select a mission
2. Adjust your flight
3. Start and fly
4. Upload your data

Pix4Dscan app key features



Pix4D**inspect**

Automating industrial inspection and asset management

Pix4Dinspect workflow

1. Upload images
2. Process
3. Inspect
4. Report
5. Store & share
6. Manage

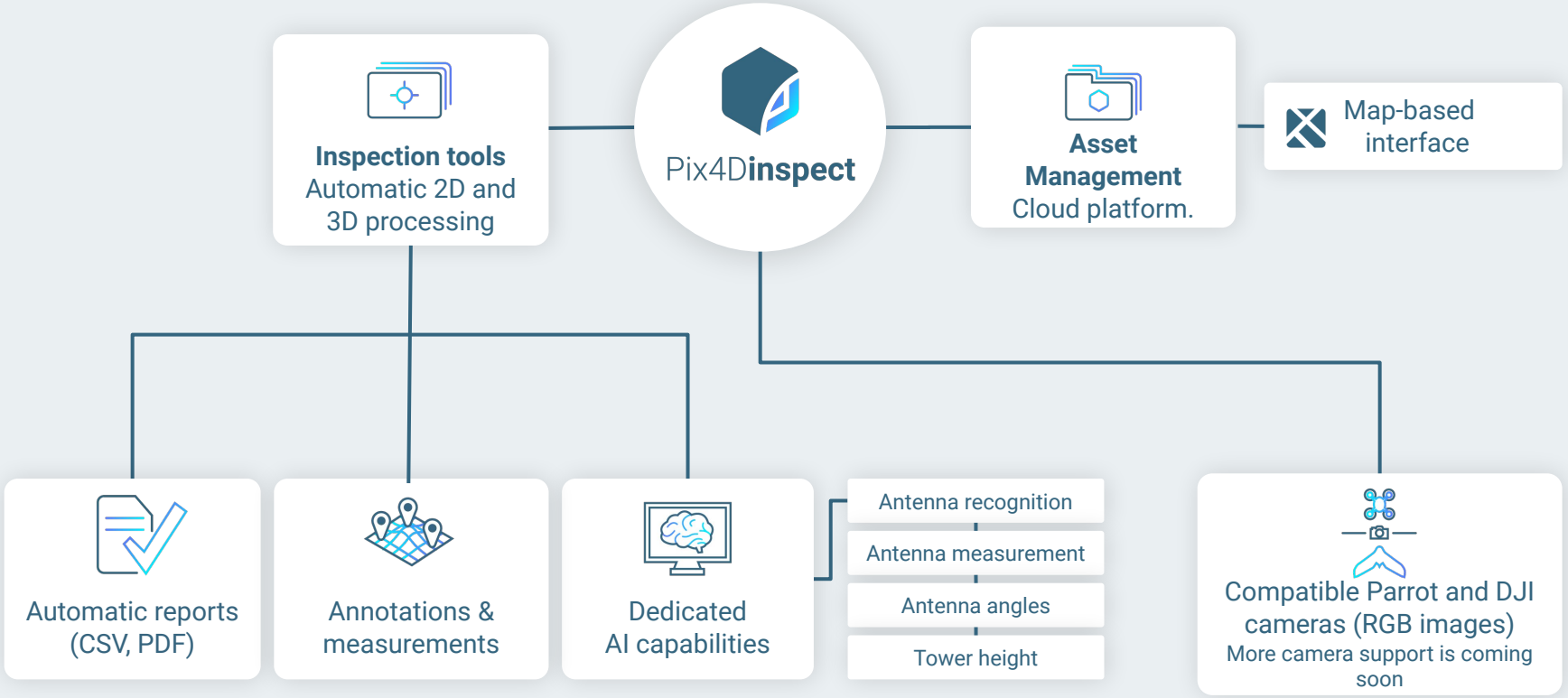
Telecom towers

- Automatic detection of **antenna** angles and measurements: **downtilt**, **azimuth**, plumb, heights, length, width.
- Available space review: measure antennas and asses tower capacity for collocation. Ensure regulatory compliance.
- Make **inventory** and lease validation through antenna identification.
- Analyze tower **pre and post-construction** and modifications. Mount mapping and analysis.
- Structural analysis: analyze mast and antenna conditions for repairs and replacement.

General applications

- Perform remotely **highly-accurate**, **end-to-end visual inspections**: 2D and 3D measurements and annotations and automatic reports.
- **Digitize your portfolio**: access and share your assets information anytime and anywhere. Keep track of your **inspection history** for predictive maintenance and informed decisions.

Pix4Dinspect key features



Pix4Dreact

2D fast-mapping for emergency response and public safety

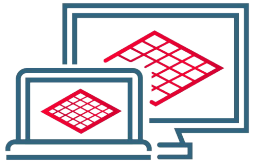
Florian Muehlschlegel
Account Executive

Pix4Dreact

Fast

Simple to use

Affordable



Works on existing hardware

Pix4D**react** workflow

Pix4D**capture**

Plan your mission and fly your drone

Retrieve your dataset from the SD card or plug in your drone with the USB cable

Process and explore the map using the desktop software

Pix4D**react**

PDF Export

Orthomosaic
with markers

Pix4Dreact

Marker details

No. of markers	6
Layer	Orthomosaic

2

Markers

Pix4Dreact

Name: Eastern Access Road
Length: 964.02 ft

Name: Engine
Location: 32.5005358, -83.7512408

Name: Western Road
Length: 599.09 ft

5

Pix4D**mapper vs** Pix4D**react**

- Demonstrative map, scale map or 3D model?
- Will measurements be used as evidence in a criminal or civil proceeding?
- Are vertical measurements required?
- Does the project require additional deliverables?
- Is the operational need immediate?

Pix4D**mapper**

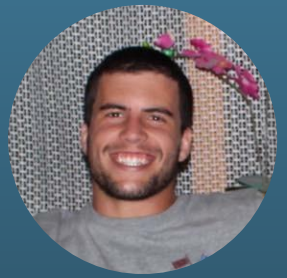
vs

Pix4D**react**

Pix4Dfields

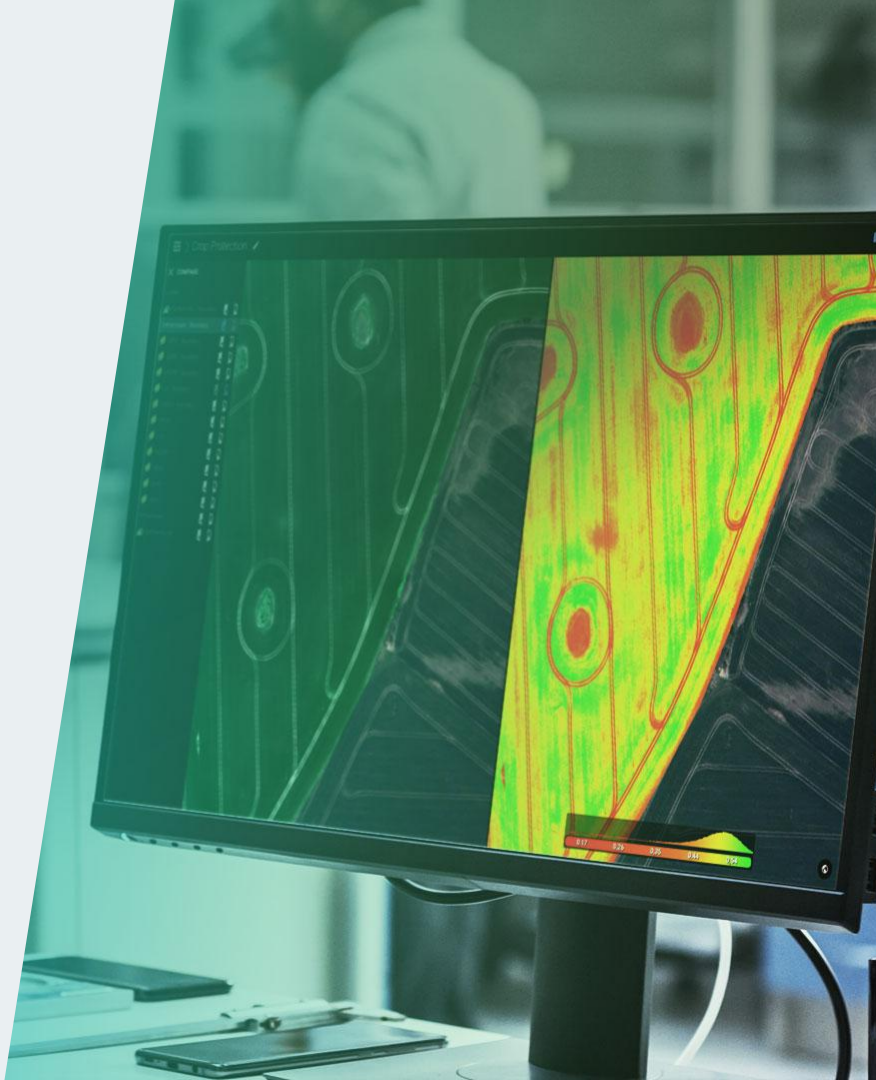
Drone mapping for digital agriculture

Jorge Fernandez
Head of Product

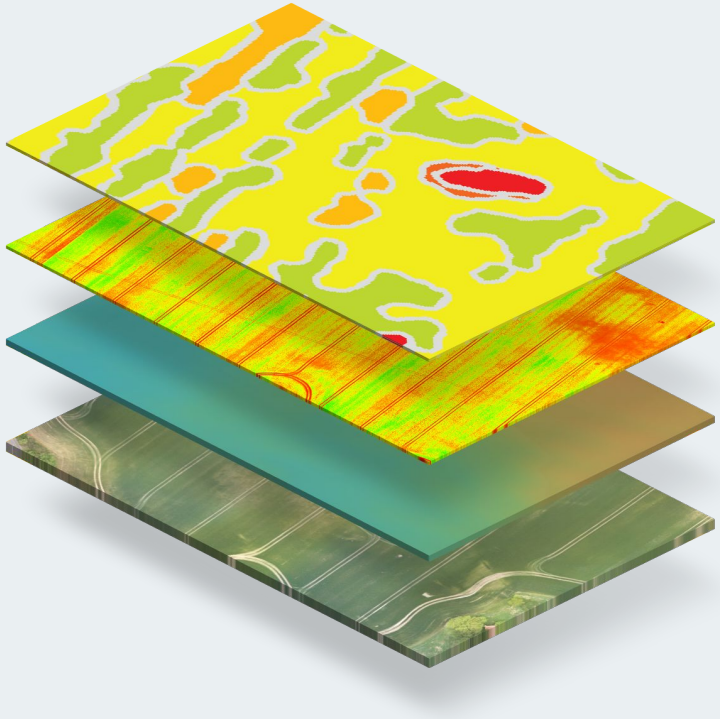


Pix4Dfields

Advanced agriculture mapping software for aerial crop analysis and digital farming



- **Desktop software (MacOS & Windows)**
  - Available in: english, german, spanish and japanese
- **Inputs:**
  - Standard RGB sensors
  - Multispectral sensors (RedEdge, Sequoia, Altum, P4MSP, Sentera single, etc)
  - Calibration targets
- **Tools:**
  - GSD control, Index generator, comparison, annotations, zonation, prescription, pdf report, DataSync, John Deere integration and more
- **Outputs:**
  - Orthomosaics, DSMs, Index maps, Zonations, and Prescriptions



What makes Pix4Dfields unique #1?

In field results

Create maps rapidly (no internet connection required) for faster decision making and action, without leaving the field

"[...] Being able to work offline is crucial [...]"

Nick Guadagnoli,
Technology Solutions Manager for 4Rivers Equipment

What makes Pix4Dfields unique #2?

Reliable maps

Always get maps of your fields and crops at any critical stage regardless of satellite availability and cloud cover.

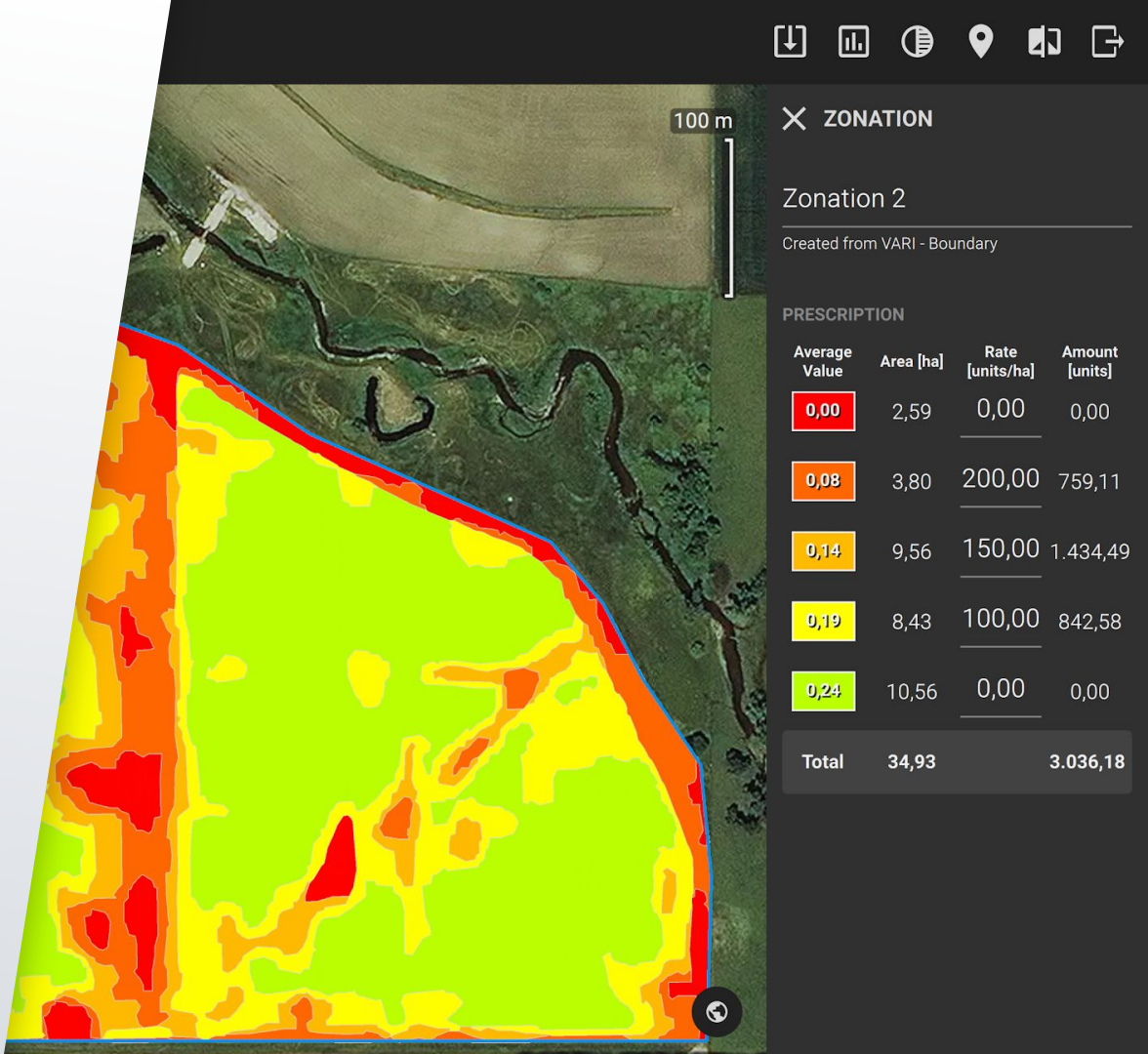
“Processing speed coupled with great analytics, [...] No other software can achieve this level of efficiency”

Nicholaus Helwig
Owner Pinpoint Aerial Solutions

What makes Pix4Dfields unique #3?

Trusted results

Eliminate guesswork by analyzing crop health maps and measure issues using calibrated multispectral or full resolution RGB images.



Radiometry matters

Pix4Dfields is continuously being developed to meet the needs of the agriculture industry, focusing on reducing the speed of processing while incorporating the highest radiometry standards backed up with years of scientific research

What makes Pix4Dfields unique #4?

Connected

Connect your data to platforms like the John Deere Operations Center, synchronize and access your data in-office and in-field for streamlined collaboration

“it also eliminates mistakes caused by handwritten documentation [...] which can lead to costly crop destruction due to under or over-application of the product.”

Agriculture Enterprise Solutions

In-field activities

Data sync

Office analysis

Data capture

Digitial scouting

Aerial crop analysis

Crop data assessment

Report generation

We can’t tell you enough stories in 10 min.

Check out the blog

Usine drone mapping for crop insurance

Enhance your agriculture workflow with Pix4Dfields

Drone mapping with the John Deere Operations Center

Internet of Fields: Drone & variable rate application

Precision farming for remote sugarcane plantations

Pix4Dfields 1.7: best practices for digital agriculture

Streamlined learning experience

Andrew McIntyre
Technical trainer

New training.pix4d.com

An all encompassing platform for everything related to training

Instructor-led workshops or private training

Self-paced online courses

Certification exams

Instructor-led workshops

- Available in different countries or online, and in multiple languages
- Learn about the theory with instructor-led presentations and then put it into practice with hands-on exercises
- Network with other professionals in your field

Private training

- In-person or online sessions are available to fit your schedule
- Get a deeper understanding of concepts that are related to your projects and gloss over the topics that are irrelevant to you

Self-paced online courses

- Learn at your own pace at your home or office
- Learn about the theory with introductory videos and hands-on exercises
- Collaborate with other students or a trainer by starting a discussion in one or more lessons

Certification exam

- Benchmark your skills and technical knowledge
- Lend yourself credibility in professional market
- Is composed of multiple-choice questions and requires at least 80% to receive a certificate

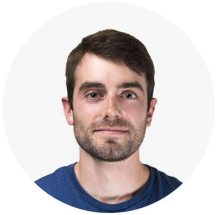
Additional resources

- Pix4D’s support documentation contains a wealth of information about all Pix4D products
- Video tutorials highlight the most critical features and workflows

Contact

- Learn more at **training.pix4d.com**
- Questions about training? Contact us at **training@pix4d.com**

Ana Soares
Head of Training



Andrew McIntyre
Technical Trainer

Justine Cuevas
Technical Trainer

Rhéa Garratt
Technical Trainer

Aaron Woods
Technical Trainer

Thank you

pix4d.com/contact-us