

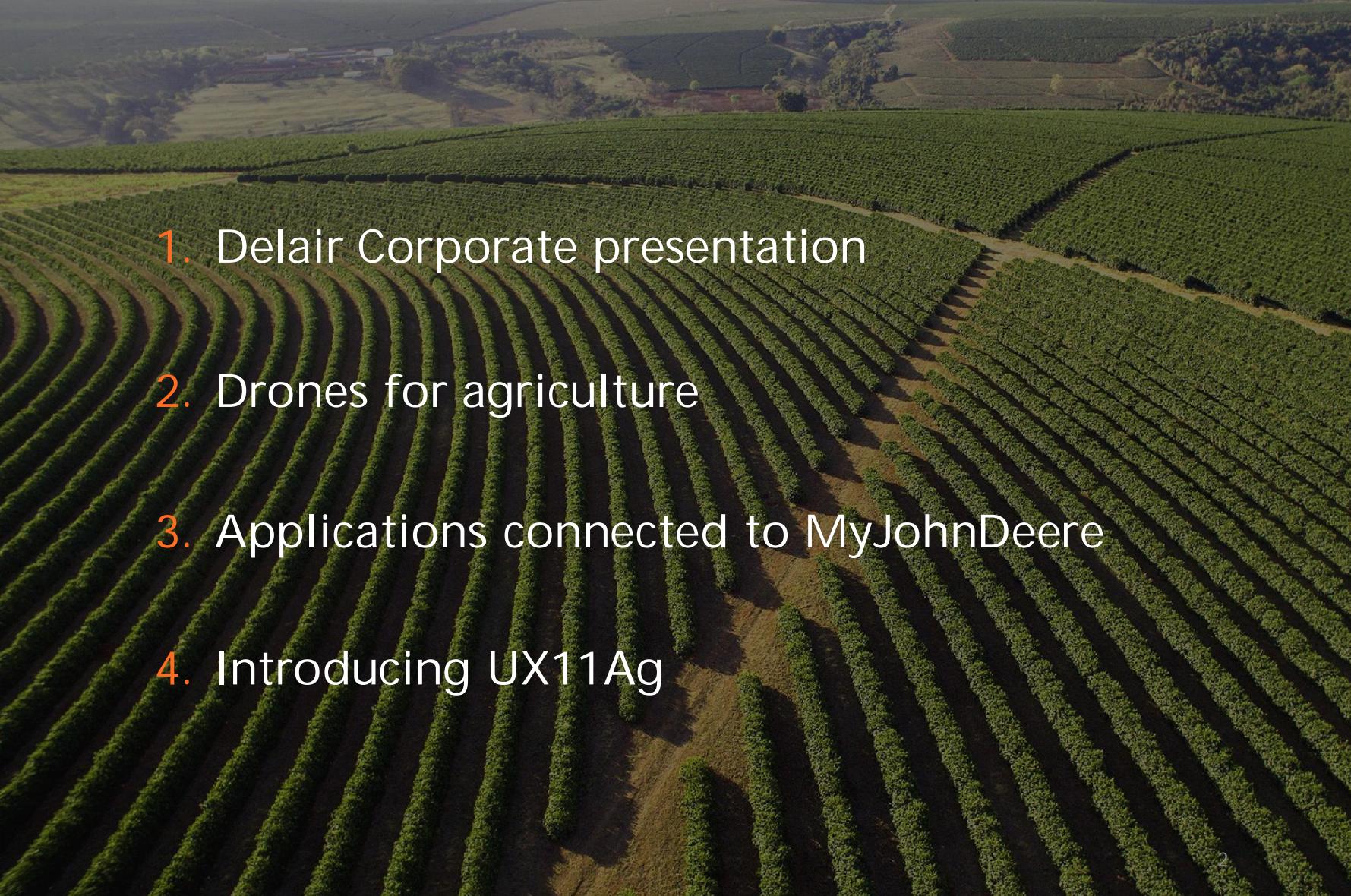


MyJohnDeere

and

DELAIR™
AERIAL INTELLIGENCE

... BETTER CONNECTED!

- 
1. Delair Corporate presentation
2. Drones for agriculture
3. Applications connected to MyJohnDeere
4. Introducing UX11Ag

Delair – Who are we?

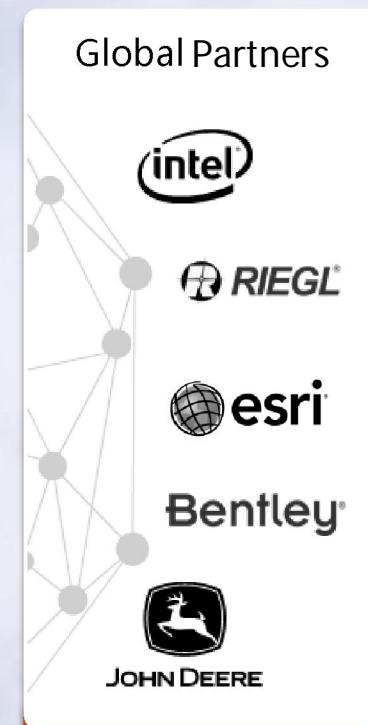
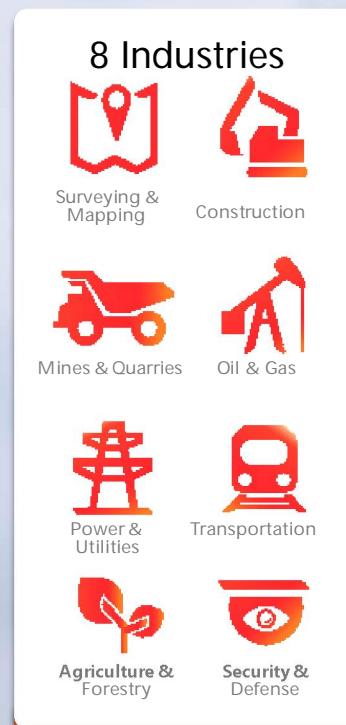
A worldwide aerial intelligence company



Global fast-growing market leader



Delair Key figures



Delair - leading provider of drone business solutions

A unique expertise in the entire drone value chain with 3 independent activities

HARDWARE SOLUTIONS

A complete range of fixed-wing
drones for industry

SOFTWARE SOLUTIONS

Cloud-based enterprise platform
for high value business insights

INTEGRATED SERVICES

Strategic consultancy and hands-on
services covering the entire drone
value chain

Drones for agriculture

Ideas worth spreading

The 3 dimensions of drone business value

Third eye in the sky

Exhaustive view of the field

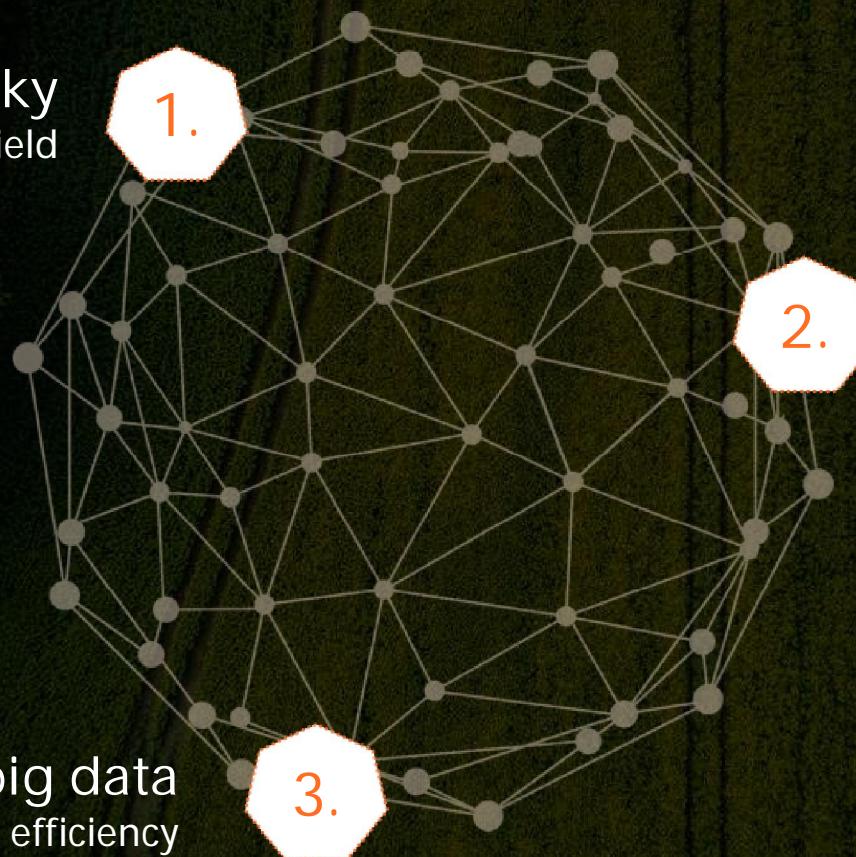
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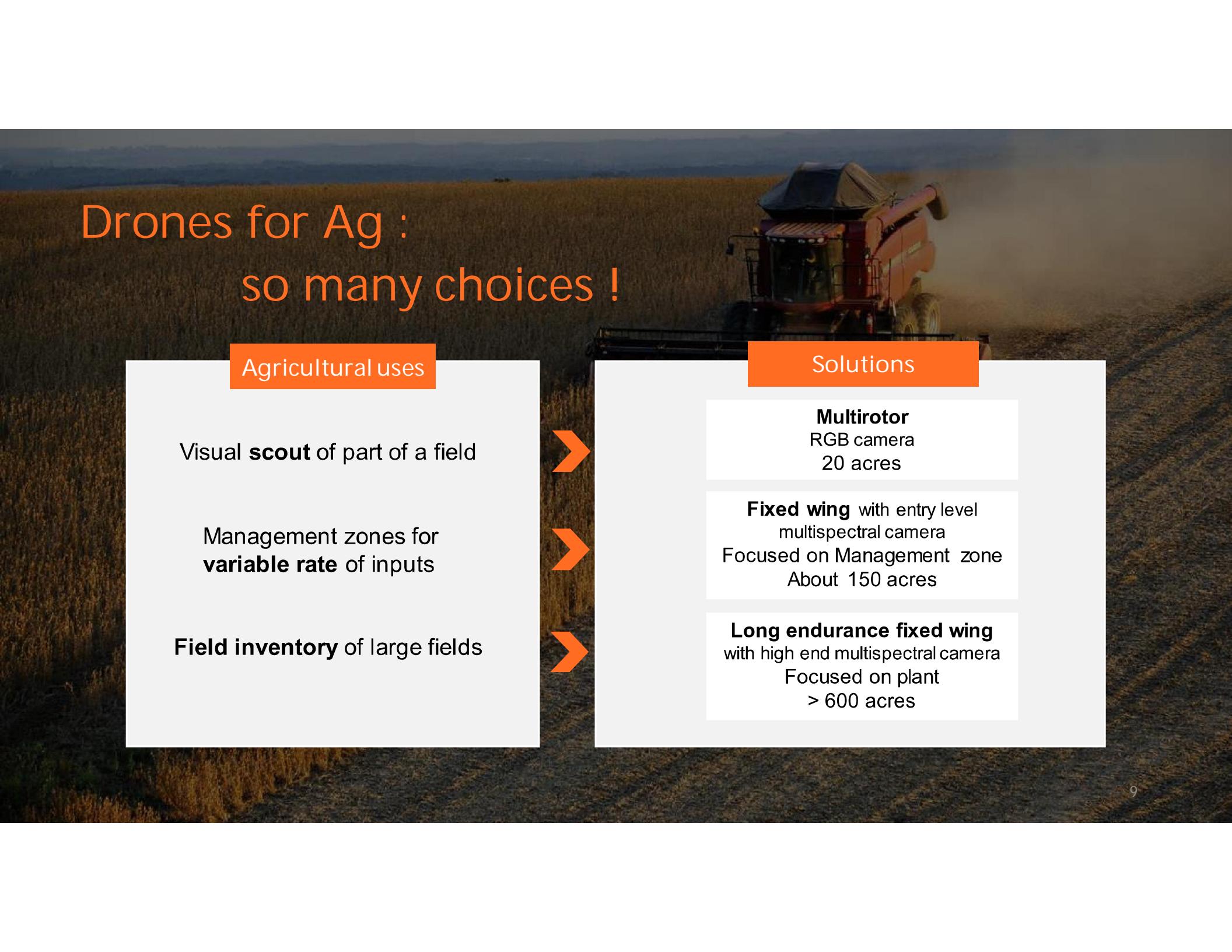
2.

3.

See beyond the visible
Equipped with « plant focus » lenses

Embrace big data
Improved efficiency





Drones for Ag : so many choices !

Agricultural uses

Visual **scout** of part of a field

Management zones for
variable rate of inputs

Field inventory of large fields



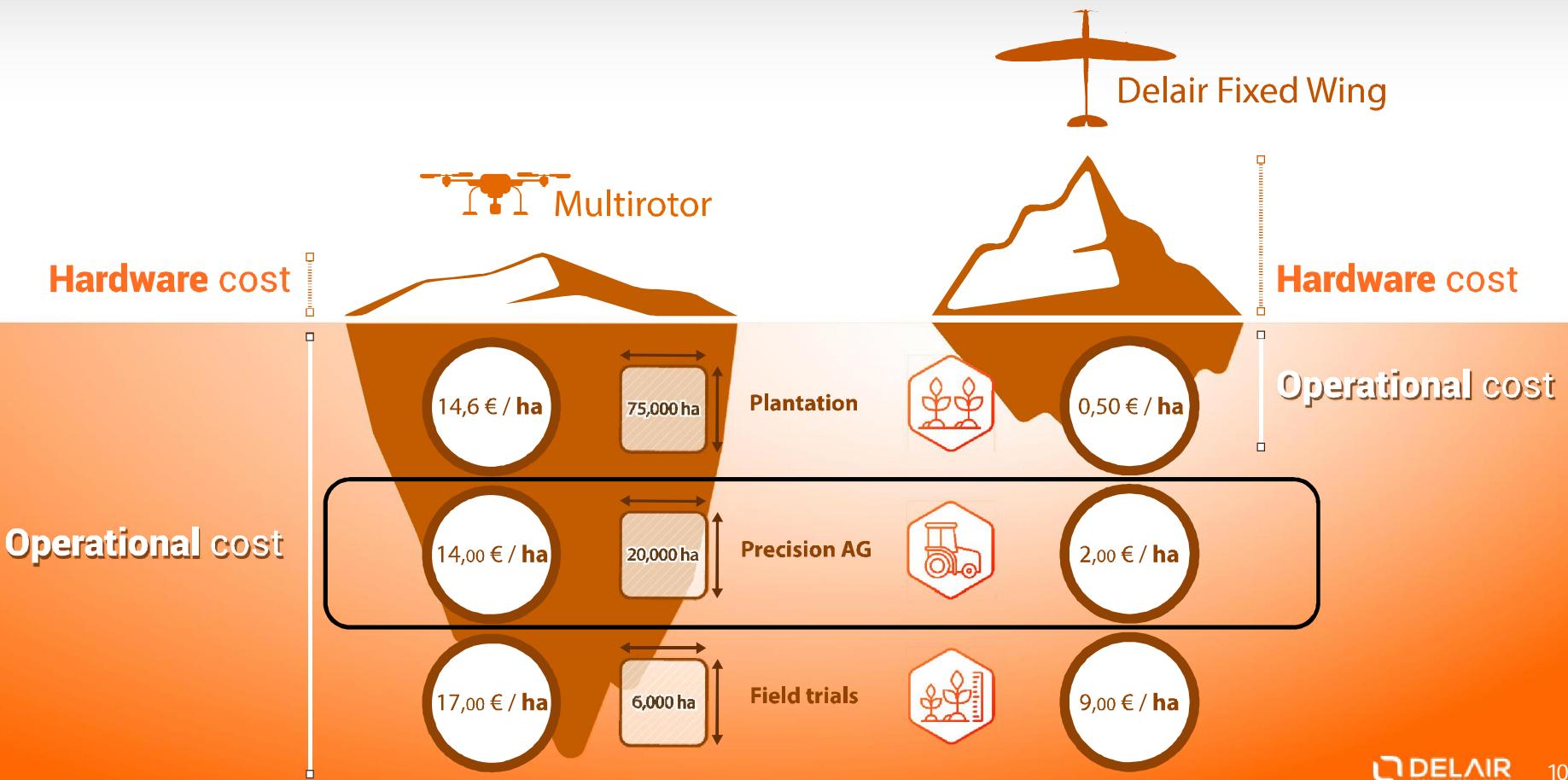
Solutions

Multirotor
RGB camera
20 acres

Fixed wing with entry level
multispectral camera
Focused on Management zone
About 150 acres

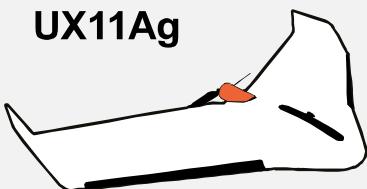
Long endurance fixed wing
with high end multispectral camera
Focused on plant
> 600 acres

TCO from our customers use cases



Delair Offer for Precision Ag

Drones



Insights



1. MAP and SCOUT: field visualization tools

Ortho, dsm, scouting maps (crop vigor, chlorophyll content, green biomass...)



2. FIELD INVENTORY: generate an inventory of fields or microplots

Field boundaries, microplot vectorization, field rows, gap detection, plant counting, plant height



3. PRECISION AG TOOLS: from drone to tractor

Management zones, sampling points, MyJohnDeere connection



4. TRACEABILITY FOR SUSTAINABILITY

Check, track and showcase what has been done in the field

Applications

Get the most out of your precision ag equipment

Use case 1 : Weed control (1/2)

Study on post emergence weed control

Who: Research project within Precidrone stakeholders
+ Farmer equipped with John Deere GreenStar 3 2630

What: 2 corn fields with Blue grass and Bindweed

How:

Flight with
multispectral
camera

30/05/2018



Corn
4 leaves

Data
processing and
weed zoning

31/05/2018



Delivery on
MyJohnDeere

Spraying

02/06/2018



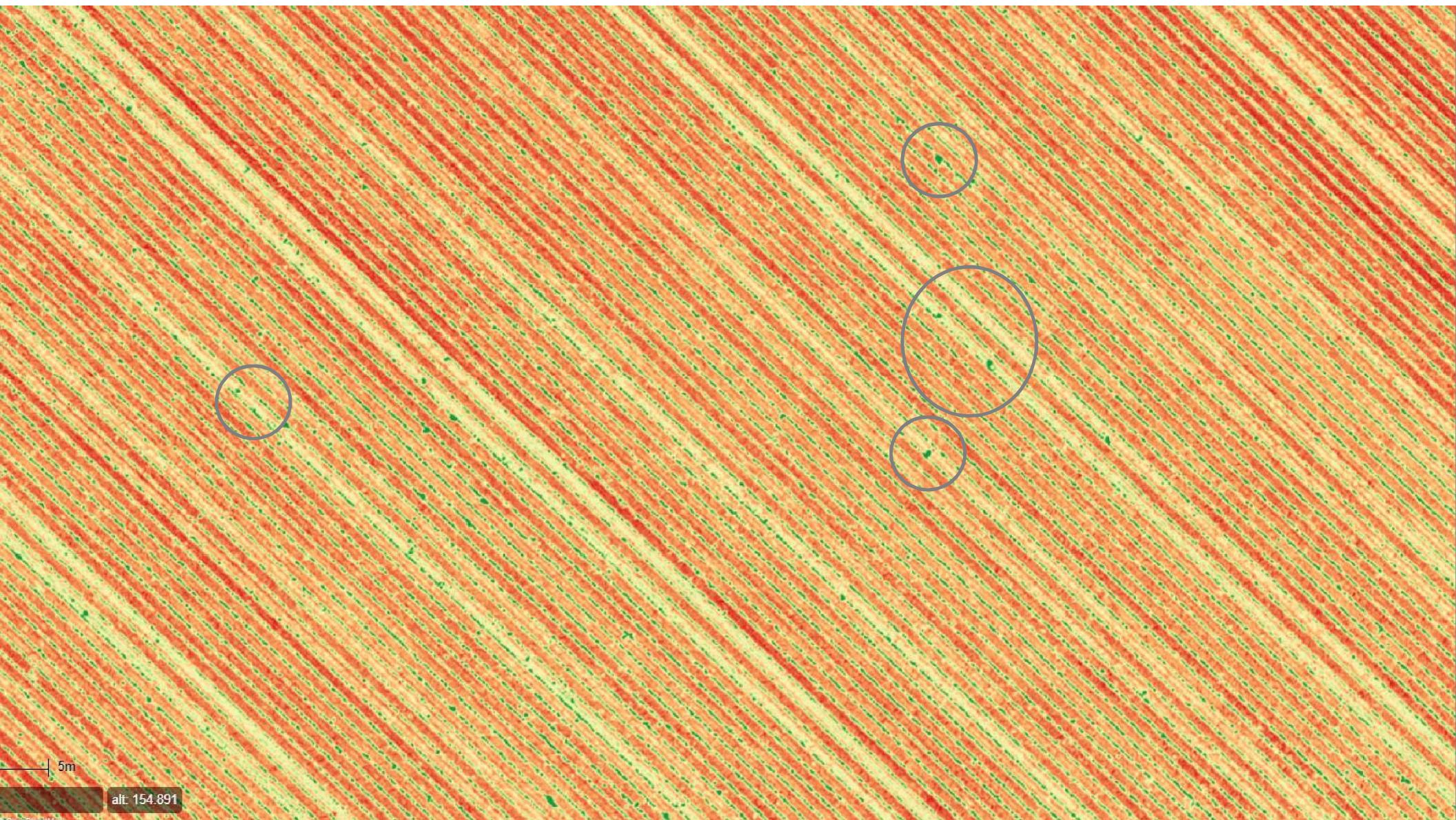


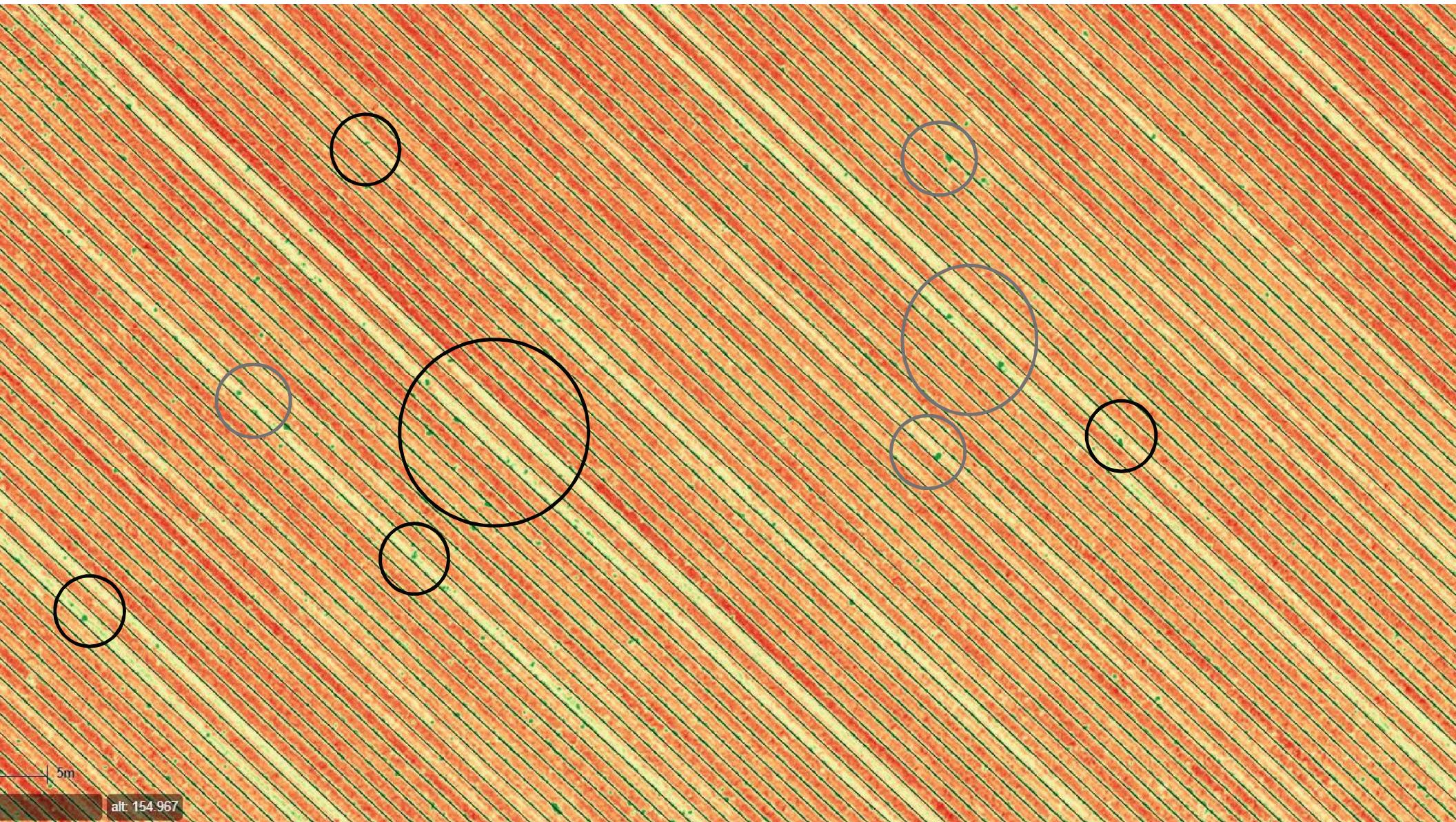
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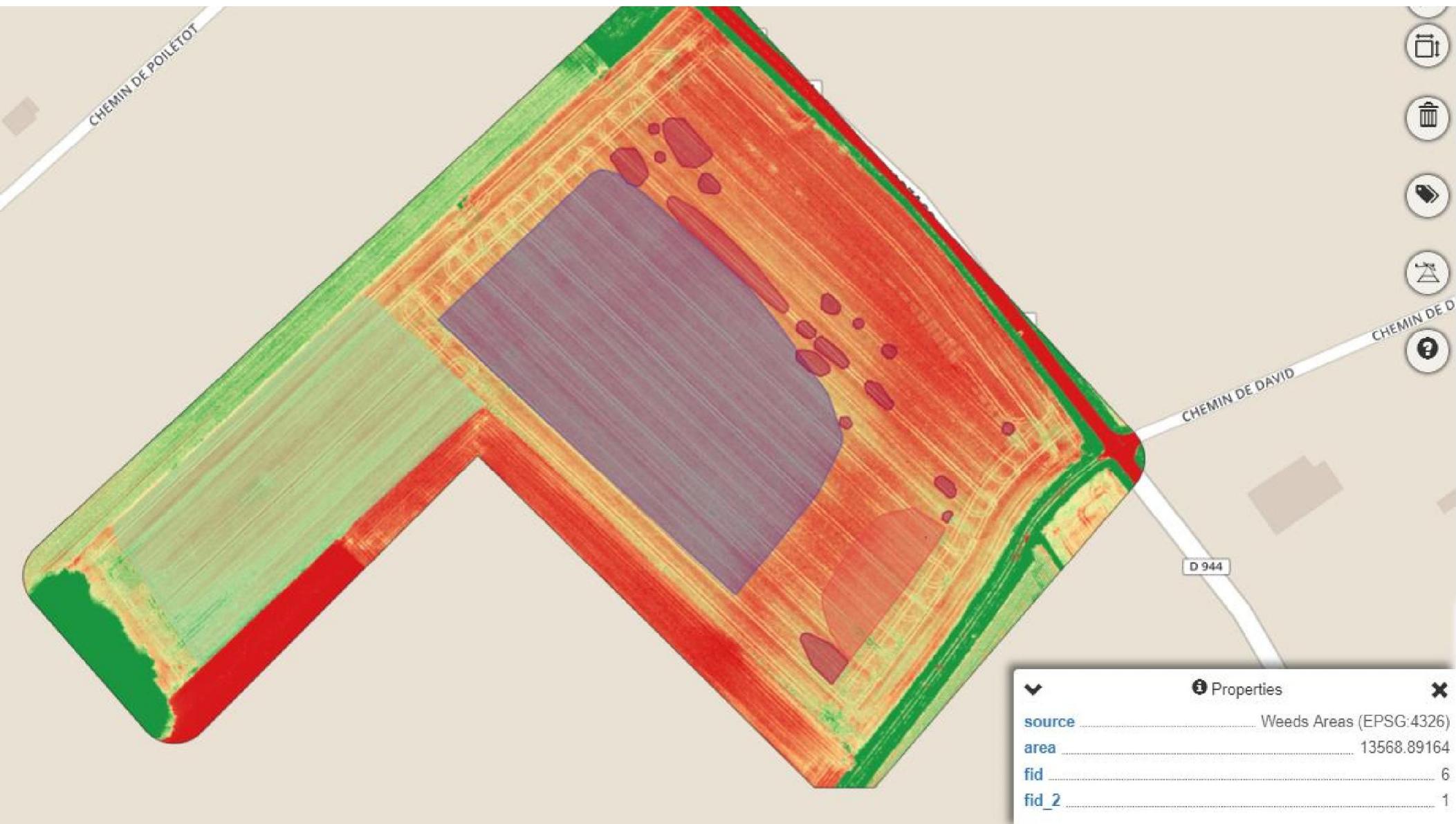
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OpenStreetMap

Gallery







Use case 1 : Weed control (2/2)

Results – farmer feedback

- Good sensing and detection of weeds
- Tank volume calculation before going to the field appreciated
- Agronomical and economical benefits:
 - No product waste
 - **50% of total volume applied**
 - Economical benefit

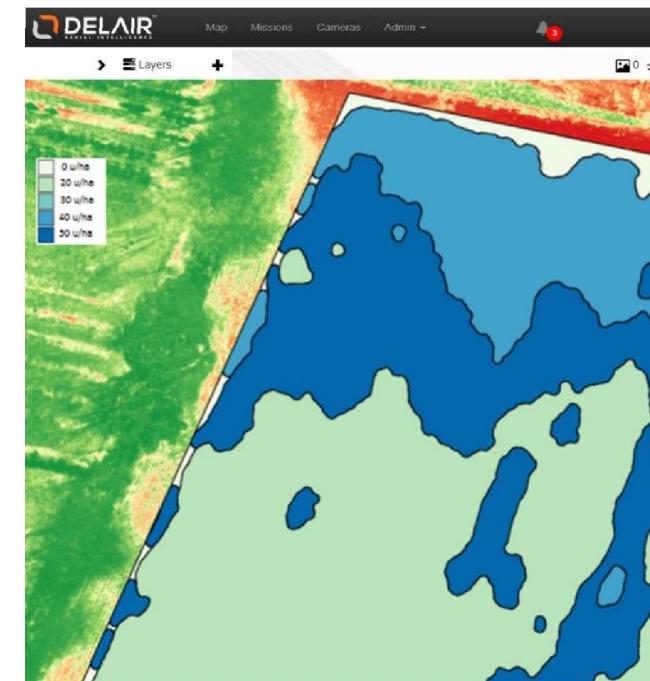


Use case 2 : Inputs - The right dose with management zones

Underperforming zones? Overperforming zones?

Adjust inputs rates:

- with management zones
- calculated on biomass / chlorophyll / crop vigor / ...
- depending on the targeted input



► To optimize: inputs effectiveness, costs and profit

Other applications

Many!

Depending on the crops, size of farms, local context...

- Drainage and irrigation
- Network design
- Machine guidance
- Crop scouting
- Damage estimates
- Crop monitoring
- Replanting decision
- Yield estimate

Coming soon!



Introducing

DELAIR
UX11 AG

The Smartest Flying Camera Ever
Made for Plant mapping



The smartest plant mapping drone ever

Cover 150 ha (370 acres) with 8 cm GSD at 120 m (394 ft) flight height

Quality-centric and futureproof features

Fully-integrated
Micasense camera

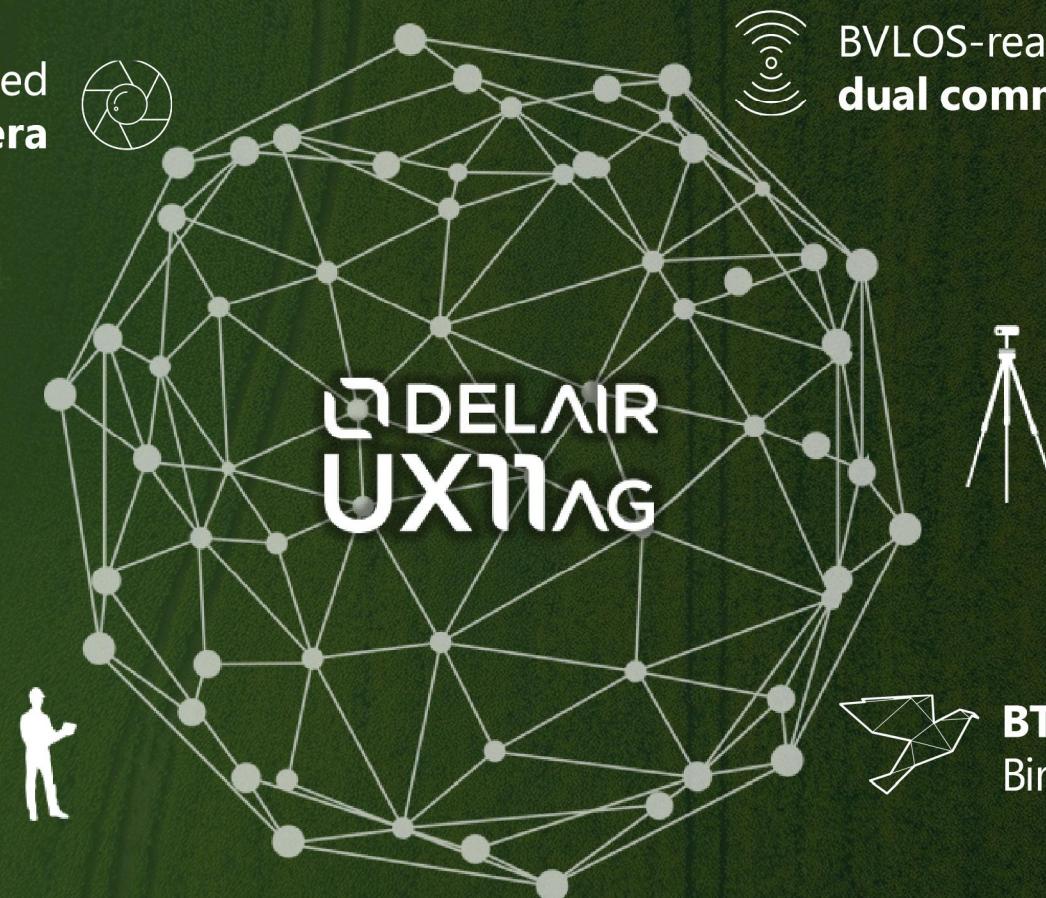
Easy workflow
from field to office

Data quality reporting
throughout

BVLOS-ready
dual communications system

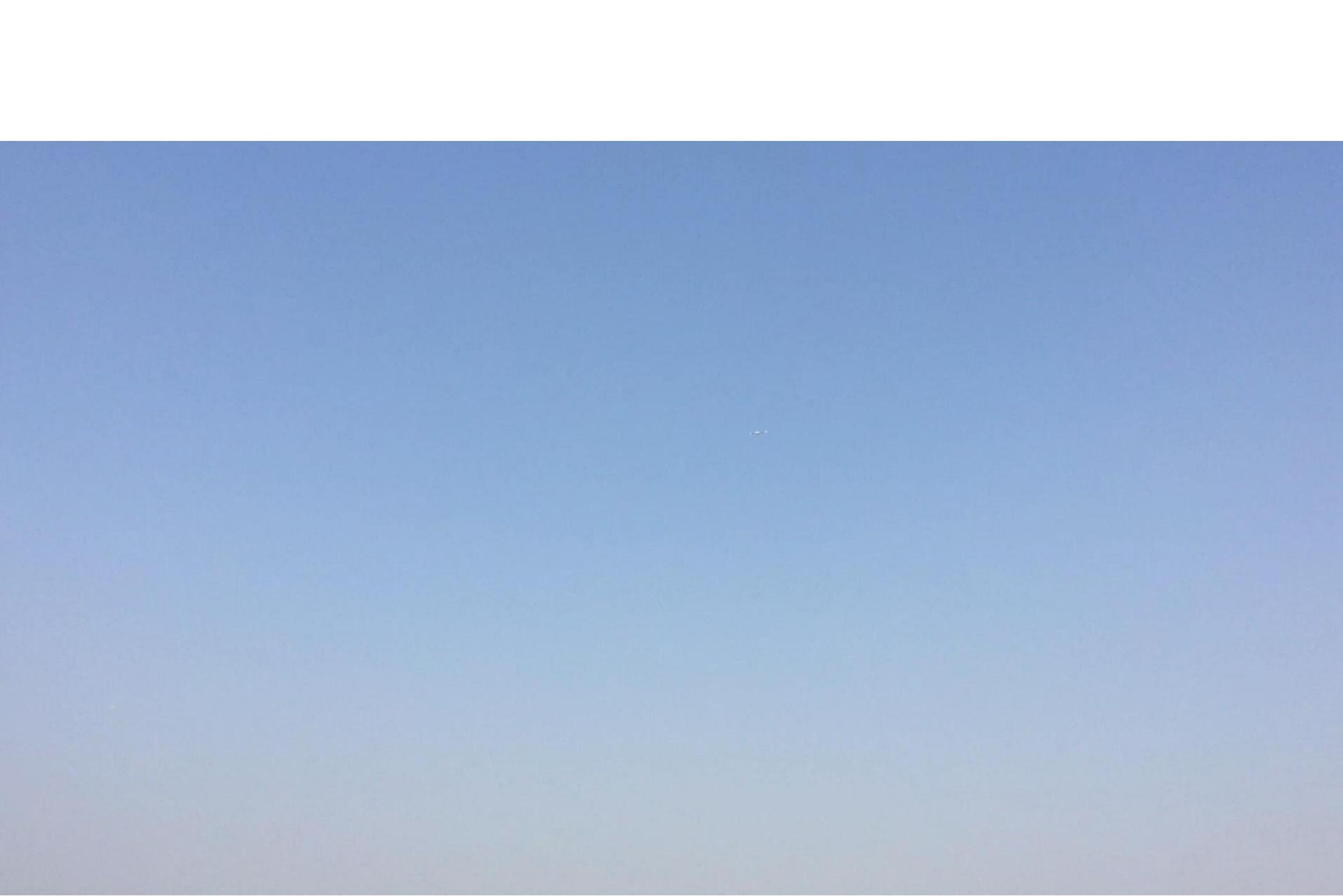
PPK as you go

BTOL
Birdlike takeoff and landing



Takeoff





Thank you

Any questions?

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