



# The leading visual intelligence platform for field trials

## Platform overview

<b>Aggregate</b> Easily centralize all your data from any source in one platform	
<b>Drone agnostic</b>	The platform is designed to aggregate, manage and analyze data from all professional drones
<b>Native compatible drone data</b>	UX11 RGB, UX11 Ag (Multispectral)
<b>Certified compatible drone data</b>	DJI Phantom 4 Pro series and Mavic 2 Pro series, Quantum Systems, Wingtra One
<b>Compatible drone sensors data</b>	Micasense Rededge-MX, Micasense Rededge-Mini, Micasense Rededge 3, Airinov multiSPEC 4C, Airinov PRI, Parrot Sequoia, Parrot Sequoia+, FLIR Tau 2, FLIR Vue Pro, FLIR Vue Pro R, RGB sensors
<b>Other compatible data inputs</b>	RGB georeferenced data-sets from land-based and handheld devices, such as DSLR cameras or smartphones. Las Point Clouds to standards 1.2 & 1.4, obtained from airborne LiDARs or ground-based laser scanners raw data. IoT sensor data

## Manage

Harness the power of visual data

<b>User management</b>	Assigned permissions based on specific user needs: manager, user, operator, contributor	View permissions, Upload/download data permissions, Manipulate data permissions
<b>Processing configuration</b>	Set your parameters and choose the best photogrammetry engine for your data processing	PIX4D Engine Agisoft Metashape Coordinate system: EPSG/ESRI, local coordinates GCP tagging RTK/PPK processing
<b>Georeferencing</b>	Advance geospatial referencing system	EPSG/ESRI coordinate system, local coordinates system
<b>Visualize</b>	Gain a holistic view of your sites, progress and operations across your company	Orthomosaic, Dynamic Digital Surface Model, Slope Map, Custom contours, Source images, Comparison view, Change map, 3D Mesh, 3D Point Cloud, Specific Overlays
<b>Collaborate</b>	Add comments to annotations and assign them to the right member of your team	Assign annotations, Notify, Review annotations
<b>Storage</b>	Secure and scalable storage capacity. Monitor your total data storage from the administration console: images, products, reference files	
<b>Archiving</b>	Secure cloud archiving , 24h SLA for data access from archive	

## Develop and integrate

Use delair.ai as a backend for your application, deploy custom analytics or exchange data with your information system

<b>APIs</b>	Interact with delair.ai from your platform, using the APIs from any programming language	Public APIs enable you to : access GIS data : rasters, vectors, point clouds, .... – launch analytics – manage projects, users – annotate data – - measure volumes and profiles – share raster tiles
<b>SDK</b>	Python SDK provides you with the boiler plate to use the APIs in Python and the ability to deploy custom analytics	Integrate custom analytics Leverage delair.ai computing resources

## Analyze

Proven ready-to-use applications for extracting business intelligence

<b>Annotate</b>	Draw annotations, add descriptions and tag them to easily find them	Spatial elements: point, line, poli-line, polygon
<b>Measure</b>	After drawing annotations, get instantaneous measurements	Perimeter, surface area, volume, distance, elevation profile
<b>OFF-THE-SHELF ANALYTICS</b>		
<b>Scouting maps</b>	Get an overview of your fields with a visual analysis of crops behaviour at the macro-field level	Bird View (RGB), Crop Vigor (NDVI), Green Biomass (MCARI2), Greenness (VARI), Chlorohyll content (NDRE), Chlorophyll concentration (CCCI) or Colored Infrared (CIR) or Soil Adjusted Crop Vigor (MSAVI2) or Photochemical Reflectance Index (PRI)
<b>Microplot vectorization</b>	Automatically digitalize and georeference microplot boundaries	Microplots boundaries, Microplot customer id from the customer experimental plan is linked to each microplot
<b>Statistics / microplots</b>	Automatically extracted statistics around scouting maps and straits	Min, Max, Average, Standard deviation, Variance
<b>Plant height</b>	Automatically estimate plant height	Height statistics
<b>Plants and gap counting</b>	Automatically determines plant count & gaps	Plant count, gaps geolocation and length, geolocation of gaps at line end or not
<b>Flowering characterization</b>	Estimate % of yellow flowering for row crops	Flowering layer, Flowering % per microplot for yellow flowers
<b>Emergence characterization</b>	Estimate % of green at early stage of crops to characterise seedling vigor	Emergence layer, Emergence % per microplot
<b>Stay green</b>	Automatic assessment of crops remaining green late in the season	Stay green % per microplot
<b>Fraction of vegetation cover</b>	Automatically measure the fraction of ground covered by vegetation	Biomass mask, FCover per microplot

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