

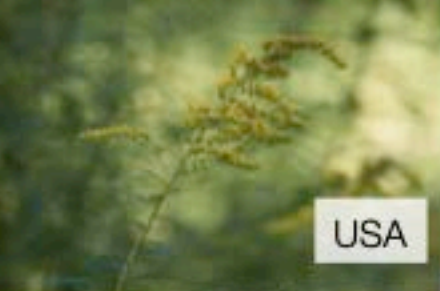


Building the Data Pipeline: Managing Drone Layers

Planet Labs, San Francisco

Customer Success Manager -
Agriculture

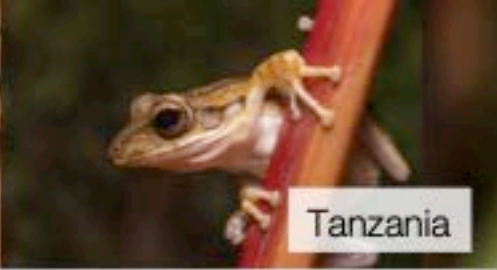
gregory@planet.com



USA



Costa Rica



Tanzania



South Africa



Belize



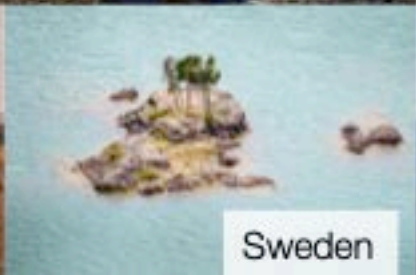
India



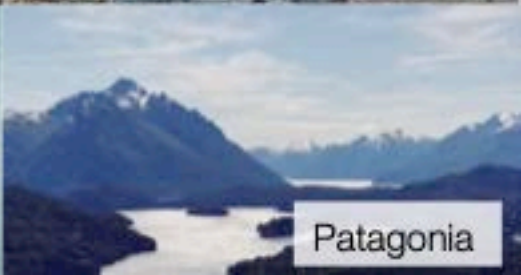
Canada



Kenya

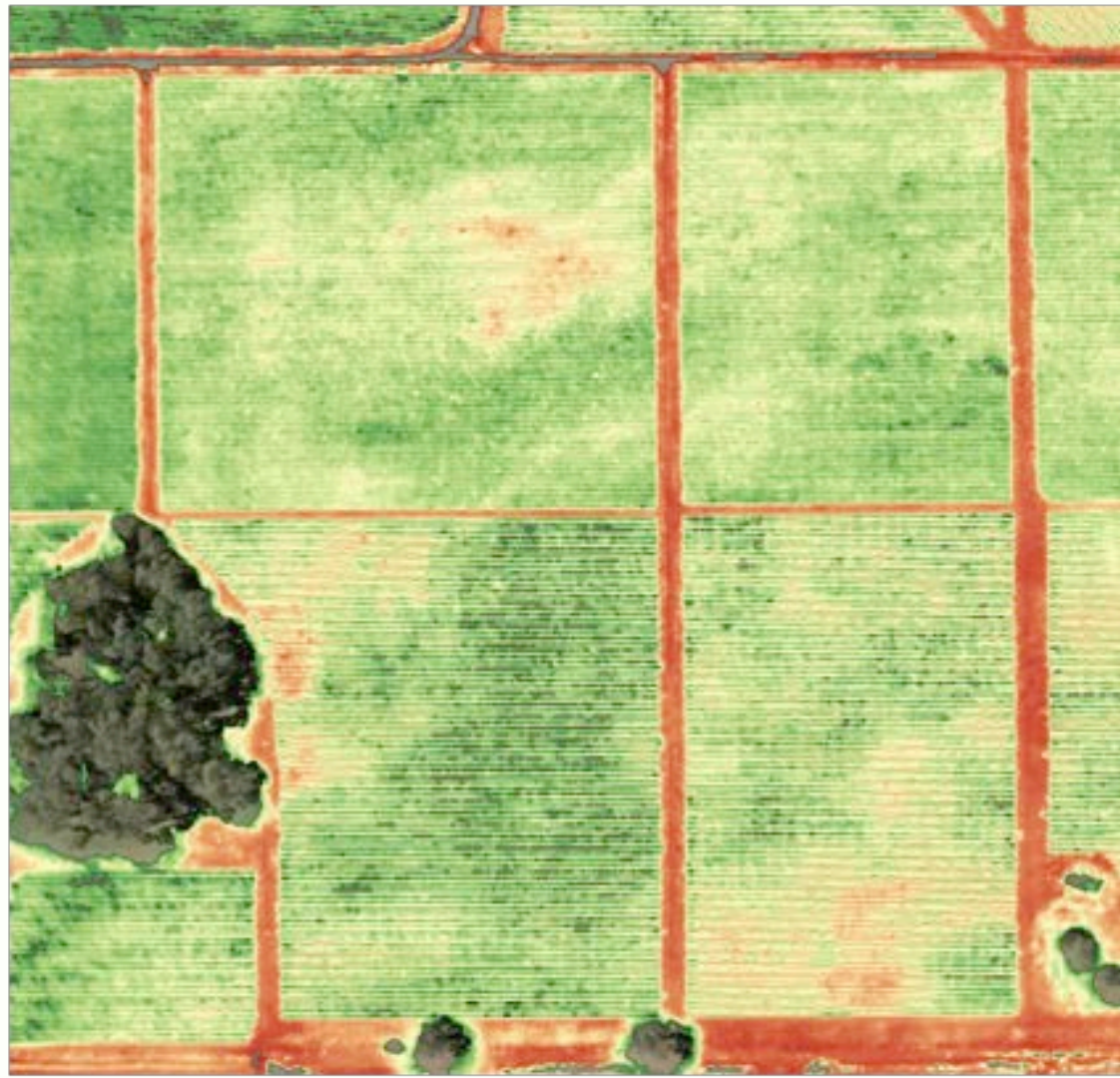


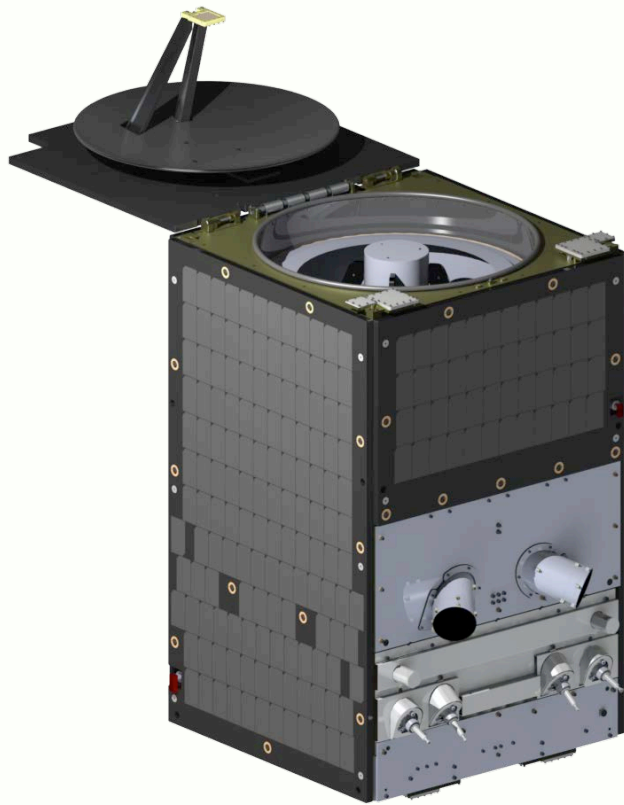
Sweden



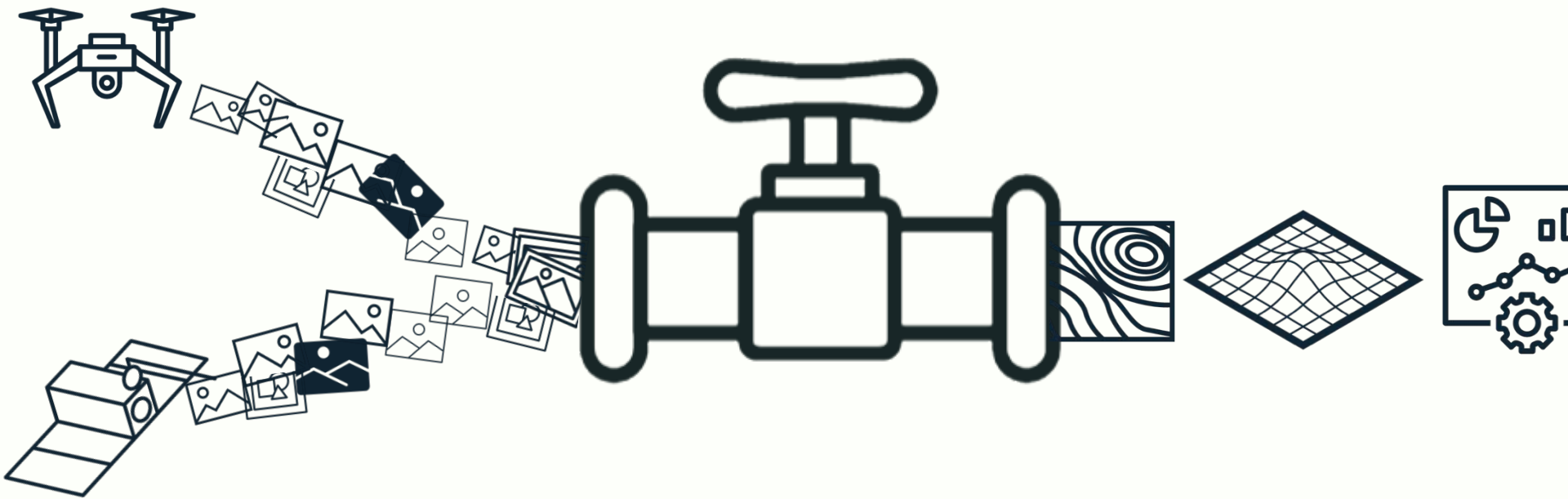
Patagonia







Building an imagery pipeline



Drone Data Workflow

Providing an end-to-end workflow for drone imagery

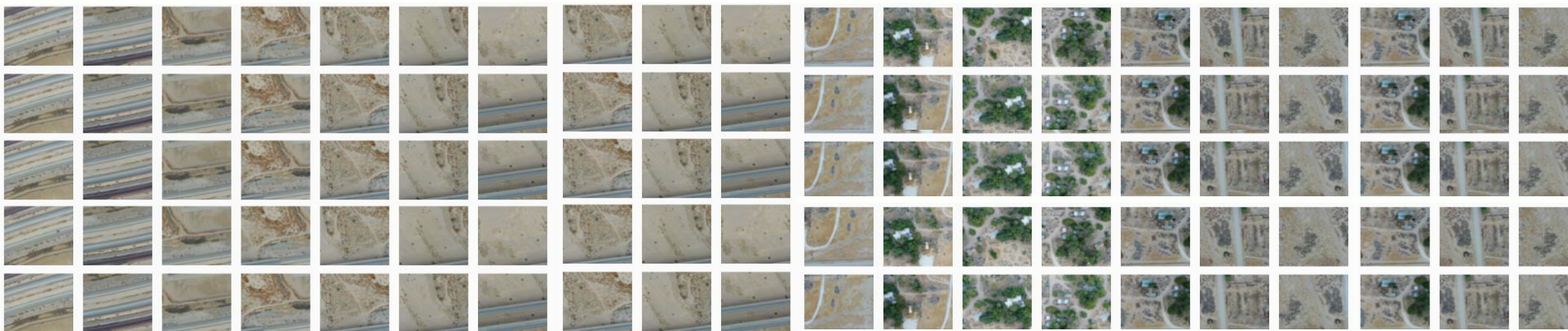
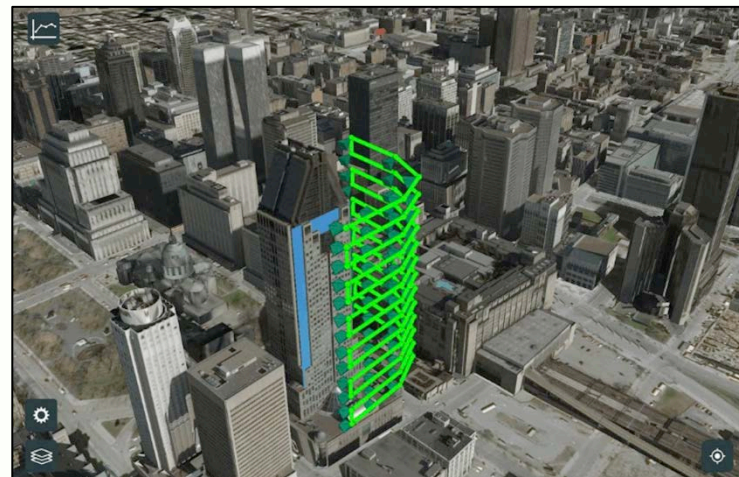
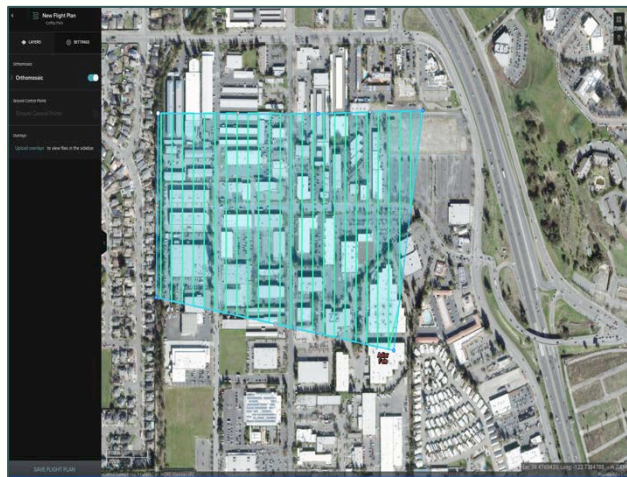
1 Plan & Capture



Flight Apps



Optimizing drone data collection - photos!





RGB



Multispectral



Thermal



Micro SDs



External storage



Direct through LTE



Drone Data Workflow

Providing an end-to-end workflow for drone imagery

1 Plan & Capture



Flight Apps

+



Drone Data Workflow

Providing an end-to-end workflow for drone imagery

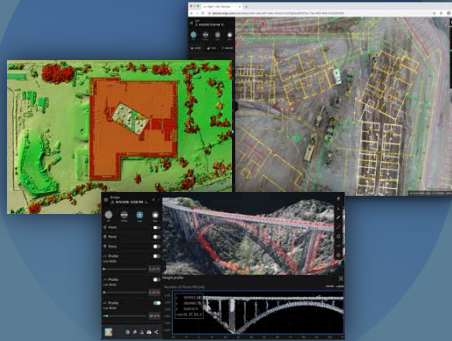
1 Plan & Capture



Flight Apps

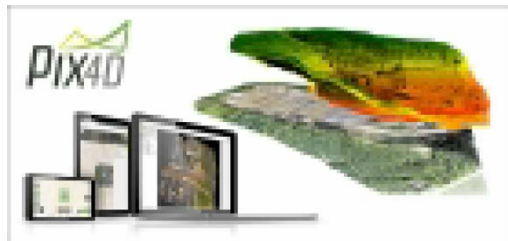


2 Process, Manage, & Analyze





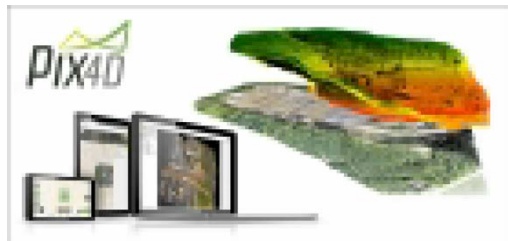
Agisoft
Metashape



Locally



Agisoft
Metashape



Locally



Pix4D**cloud**



OpenDroneMap



DroneDeploy

Cloud Processing



Agisoft
Metashape



Locally



Pix4D**cloud**

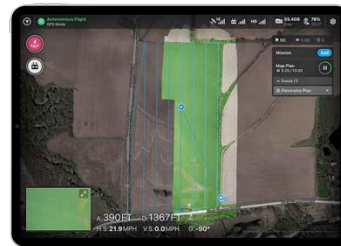


Open**DroneMap**



DroneDeploy

Cloud Processing



DroneDeploy

Real time

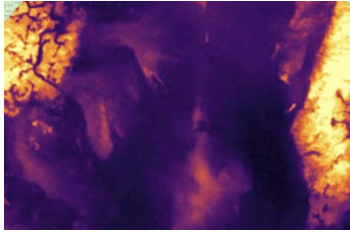
2-Dimensional

3-Dimensional

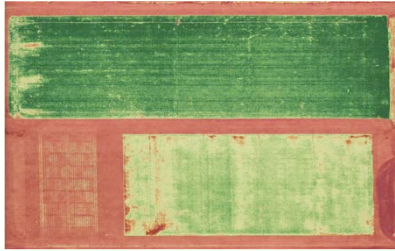
2-Dimensional



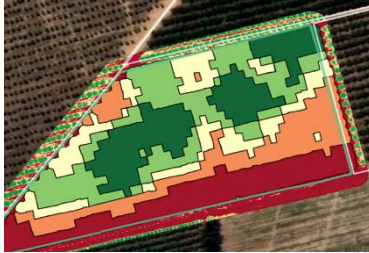
Orthomosaic



Infrared



Reflectance (Index)



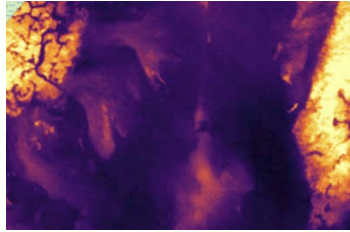
Prescription zones

3-Dimensional

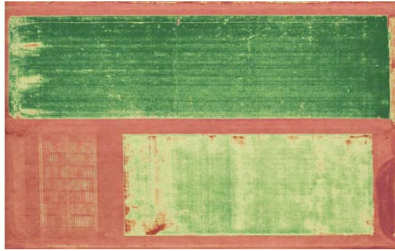
2-Dimensional



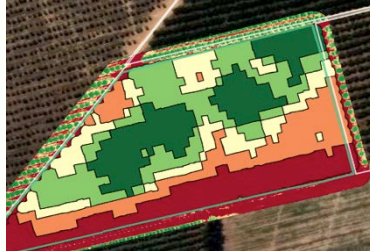
Orthomosaic



Infrared



Reflectance (Index)

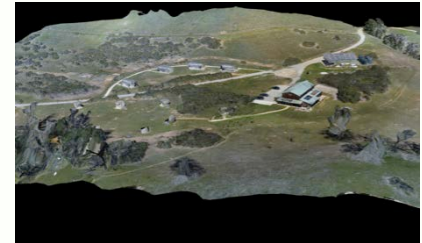


Prescription zones

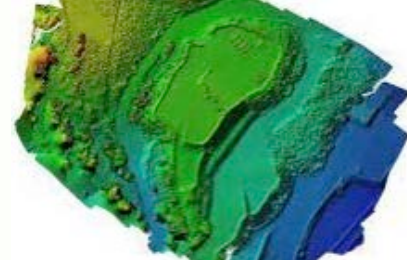
3-Dimensional



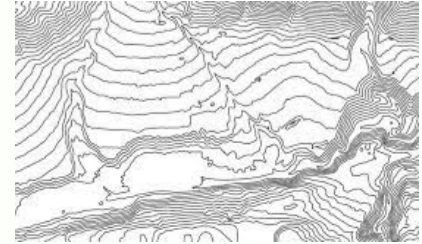
Point cloud



Textured mesh



DEM/DTM

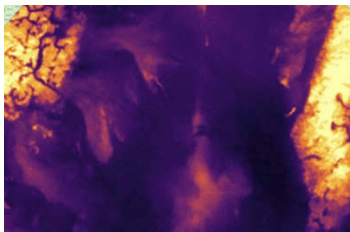


Contours

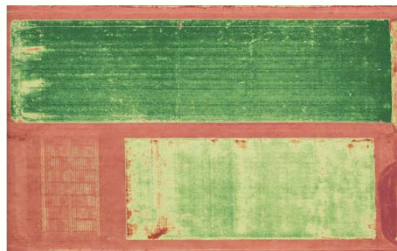
2-Dimensional



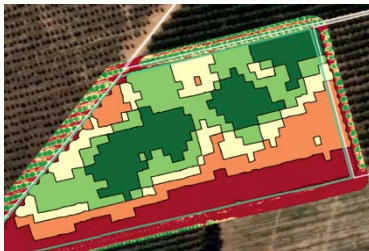
Orthomosaic



Infrared



Reflectance (Index)



Prescription zones

GeoTiff (.tif), .kml, .shp

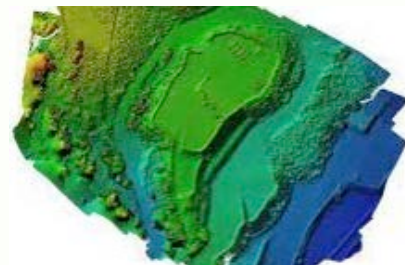
3-Dimensional



Point cloud



Textured mesh



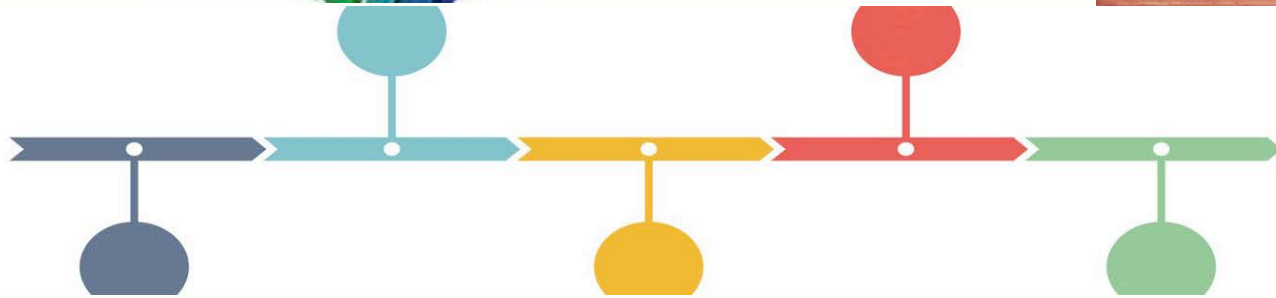
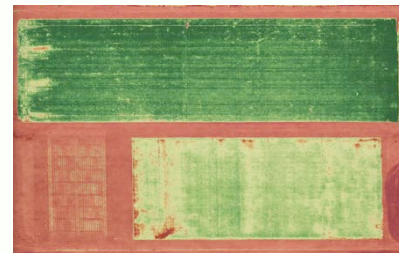
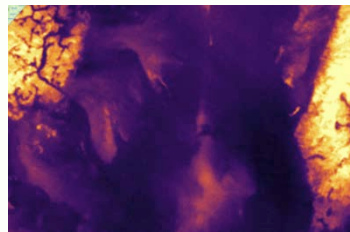
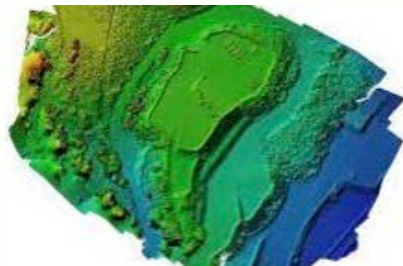
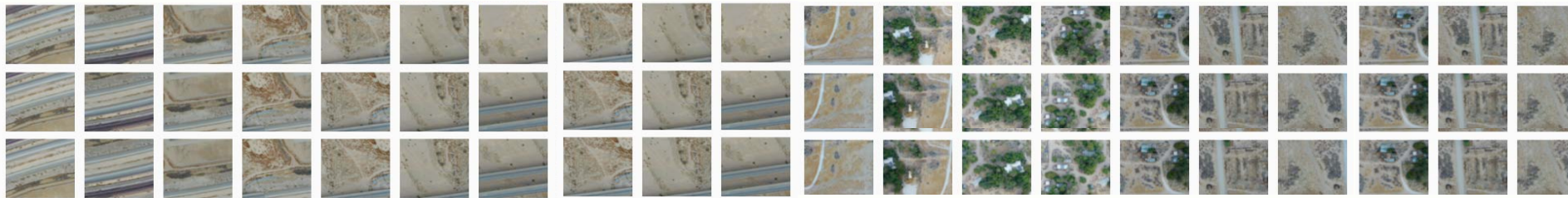
DEM/DTM



Contours

.GeoTiff (.tif), las, .laz, .ply, .obj, xyz, .shp, .dxf, .pdf

From photos to lots of output files...over time!



Drone Data Workflow

Providing an end-to-end workflow for drone imagery

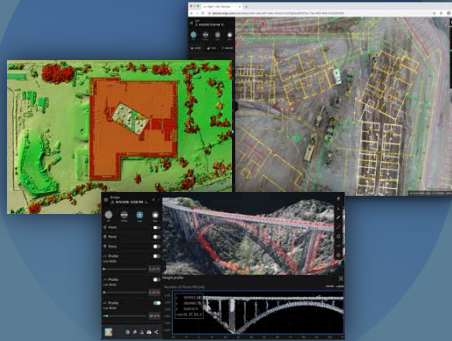
1 Plan & Capture



Flight Apps



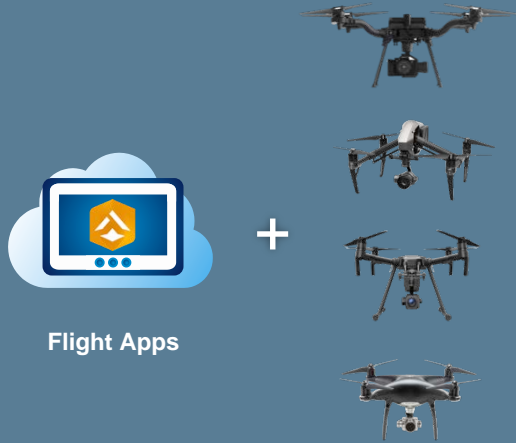
2 Process, Manage, & Analyze



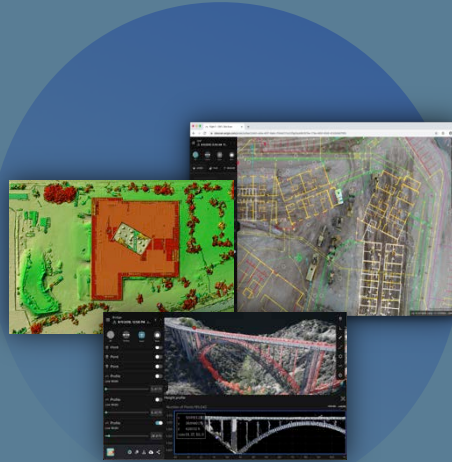
Drone Data Workflow

Providing an end-to-end workflow for drone imagery

1 Plan & Capture



2 Process, Manage, & Analyze

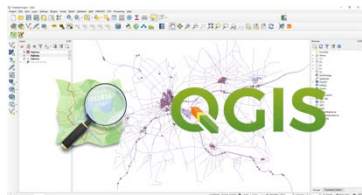


3 Disseminate & Collaborate





Locally



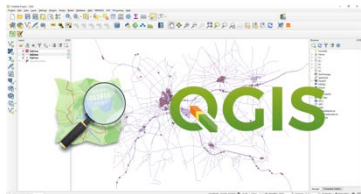
Locally



Pix4Dcloud



SaaS provider



Locally



Pix4Dcloud



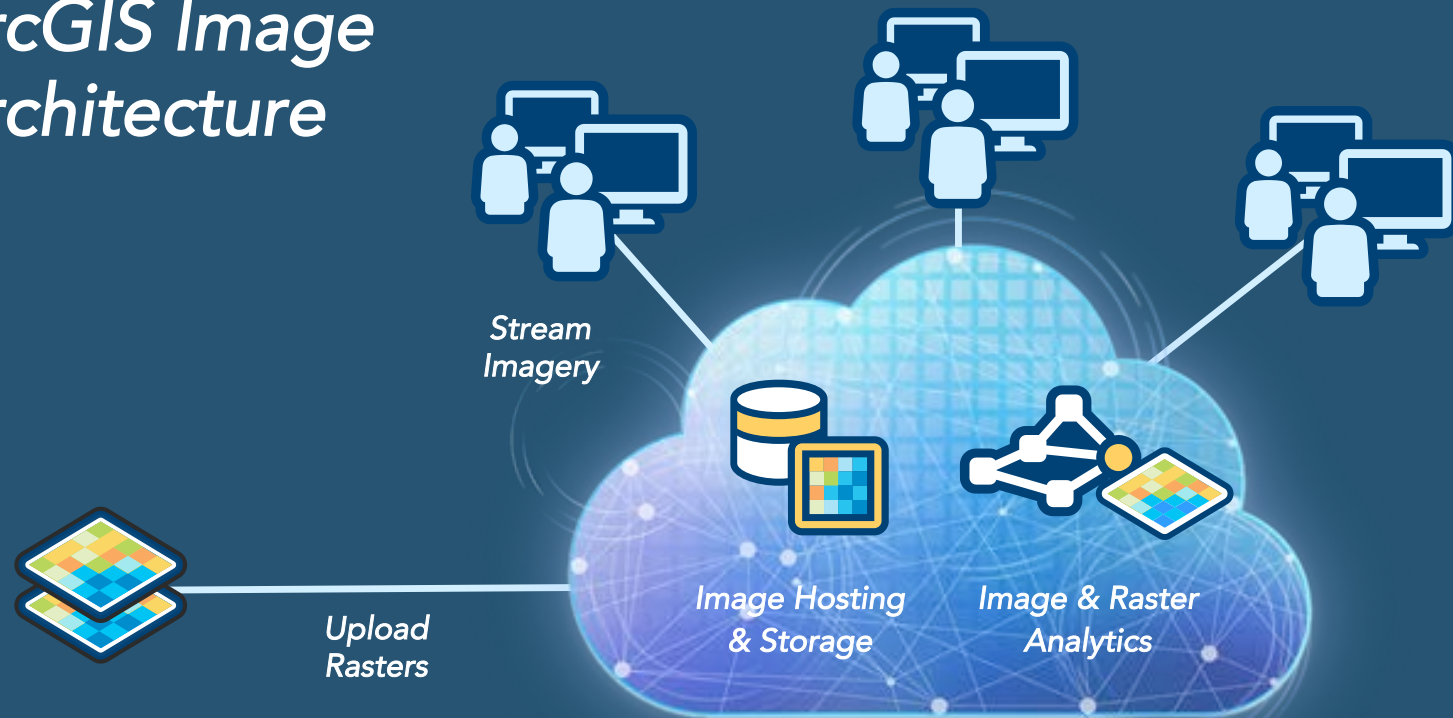
SaaS provider



ArcGIS Online

Partner/Cloud Storage

ArcGIS Image Architecture



ArcGIS
Online



+



ArcGIS Image for
ArcGIS Online

Drone Data Workflow

Providing an end-to-end workflow for drone imagery

1 Plan & Capture



2 Process, Manage, & Analyze



3 Disseminate & Collaborate





Building the Data Pipeline: Managing Drone Layers

Planet Labs, San Francisco

Customer Success Manager -
Agriculture

gregory@planet.com