



Orbit GT User Group meeting

Hyatt Regency Aurora
Conference Center, Denver
February 8th, 2018

Agenda :

Welcome & Introduction : 9:00 AM – 9:30 AM

Orbit Product overview : 9:30 AM – 12:00 AM

Lunch break : 12:00 AM – 1:00 PM

Hands-on training : 1:00 PM – 3:00 PM

Conclusion - Q&A : 3:00 PM – 3:30 PM



Orbit Product overview :

- I. Introduction to Orbit GT
- II. Some Use Cases
- III. Why Orbit 3D Mapping software?
- IV. Orbit product workflow: Capture – Model – Share
- V. Q&A



Orbit Product overview :

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- V. ~~Q&A~~





Orbit GT since 1962

- Lokeren, Belgium

Global market since 2008

- 58 resellers
- Worldwide coverage for mobile mapping projects



12/21/2017 3:41:18 pm
3:41 pm 3:57 pm



Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat / Copernicus
Image IBCAO

Google Earth

Tour Guide

Imagery Date: 12/14/2015 29°33'50.57" N 108°32'25.67" E eye alt 20416.16 km



San Sebastián

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Google Earth



Tour Guide



2001

Imagery Date: 8/12/2016 43°19'06.00" N 1°58'52.43" W elev 0 m eye alt 13.48 km



Antwerp

Google Earth

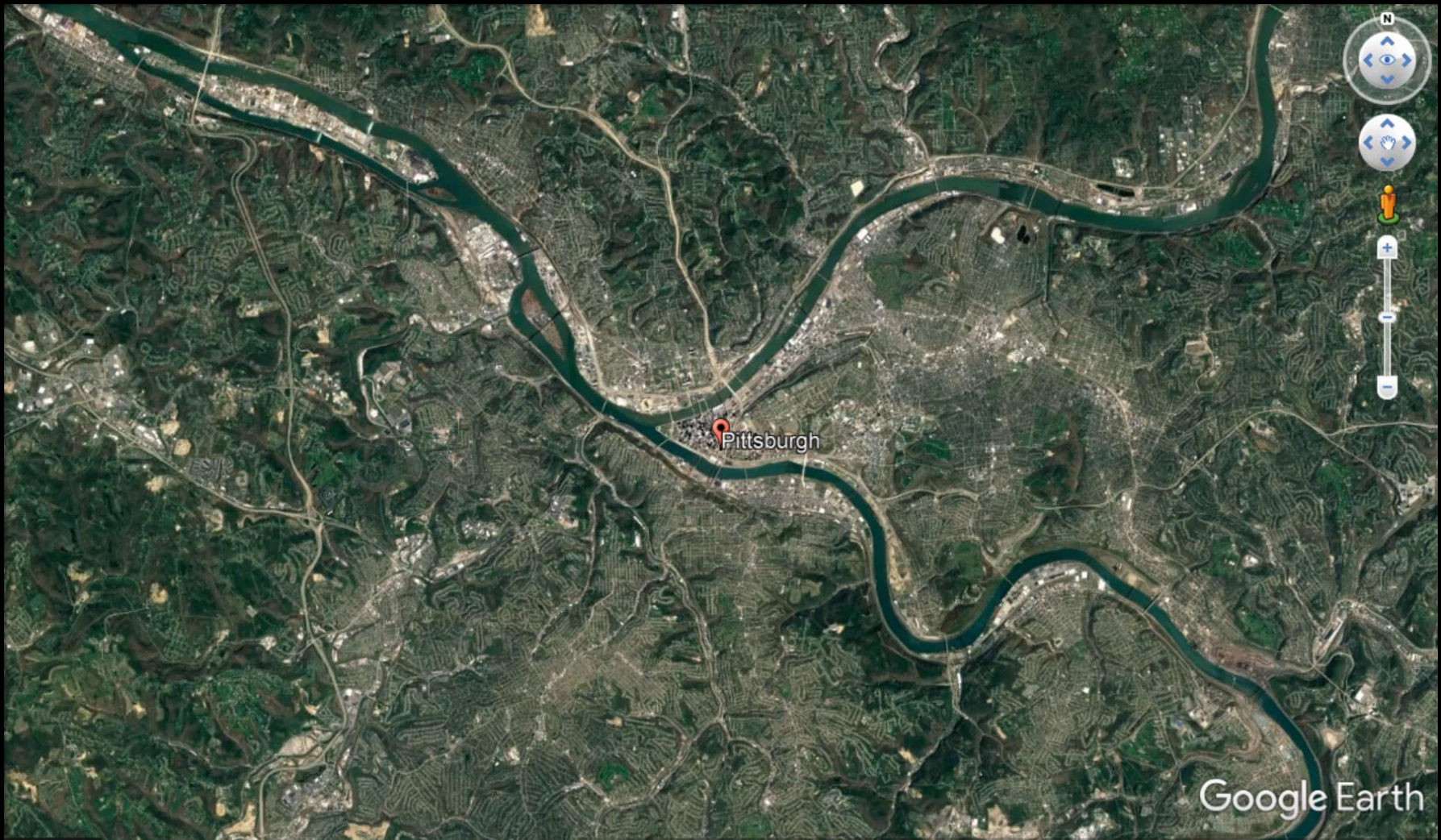




TARGETED

IDEAS

WIDE BUSINESS WORLDWIDE BUSINESS
END-TO-END SOLUTION



Navigation controls including a compass, a hand icon for panning, a person icon for street view, a zoom in (+) button, a zoom out (-) button, and a full screen button.

Pittsburgh

Google Earth

Why Orbit 3D Mapping software?

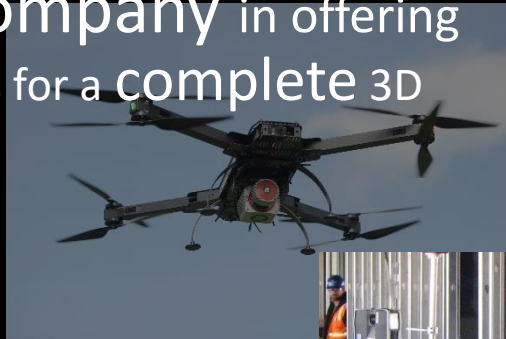


These days Mobile Mapping projects are common all over the world, covering countries, states, regions, cities.

Big projects are going on in Europe (e.g. Belgium, Sweden, Spain, Germany, Austria, Lithuania, Portugal, Italy, Turkey), United States, South & Latin America (Costa Rica, Honduras, Bolivia, Ecuador, Mexico), Asia (Singapore, Hong Kong, Thailand, Korea, China, India), MENA (Saudi Arabia, Morocco, United Emirates), ...



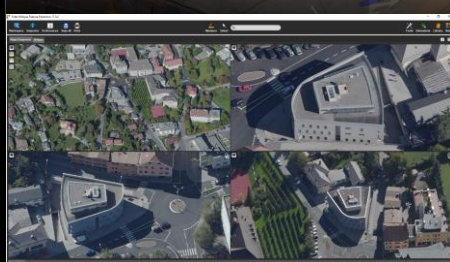
is the worldwide leading company in offering standardized Mobile Mapping software products for a complete 3D mapping workflow.



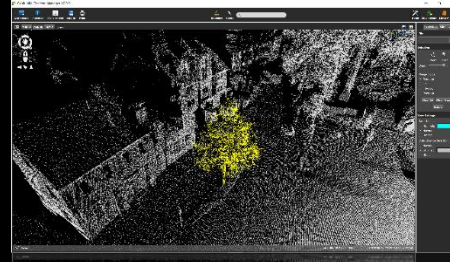
Mobile Mapping



Aerial Mapping



Terrestrial Mapping



Indoor Mapping



The support of different hardware setups is one, bringing all 3D mapping data together in one and the same project is the key thing. Flying, driving, walking, indoor, outdoor, underground, ...



Mobile Mapping



Aerial Mapping



Terrestrial Mapping

Indoor Mapping



CAPTURE

Mobile Mapping



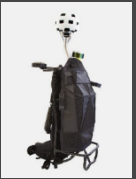
Aerial Mapping



Terrestrial Mapping



Indoor Mapping



Data Management

data acquisition experts

MODEL



Feature Extraction

data analysis technicians

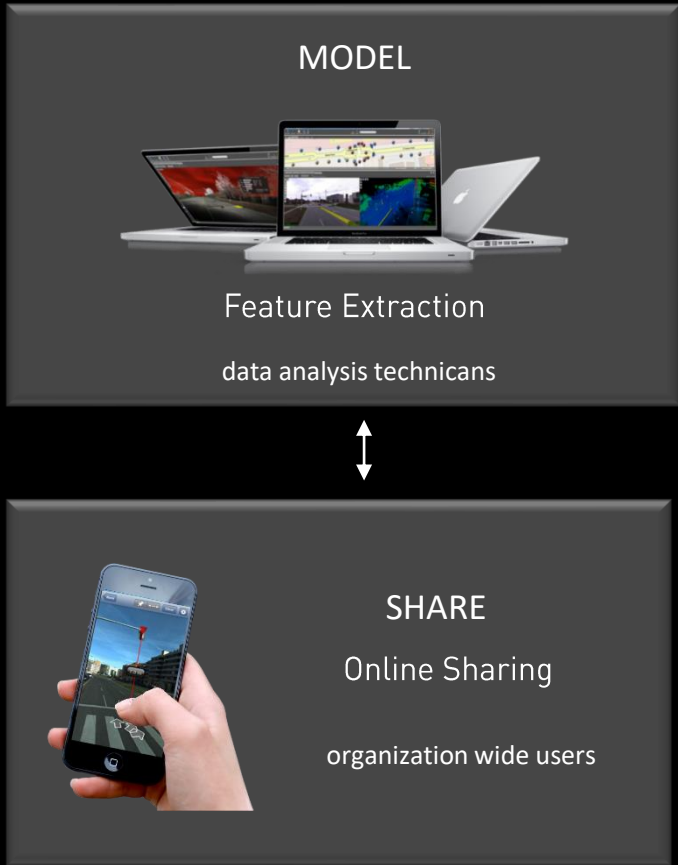
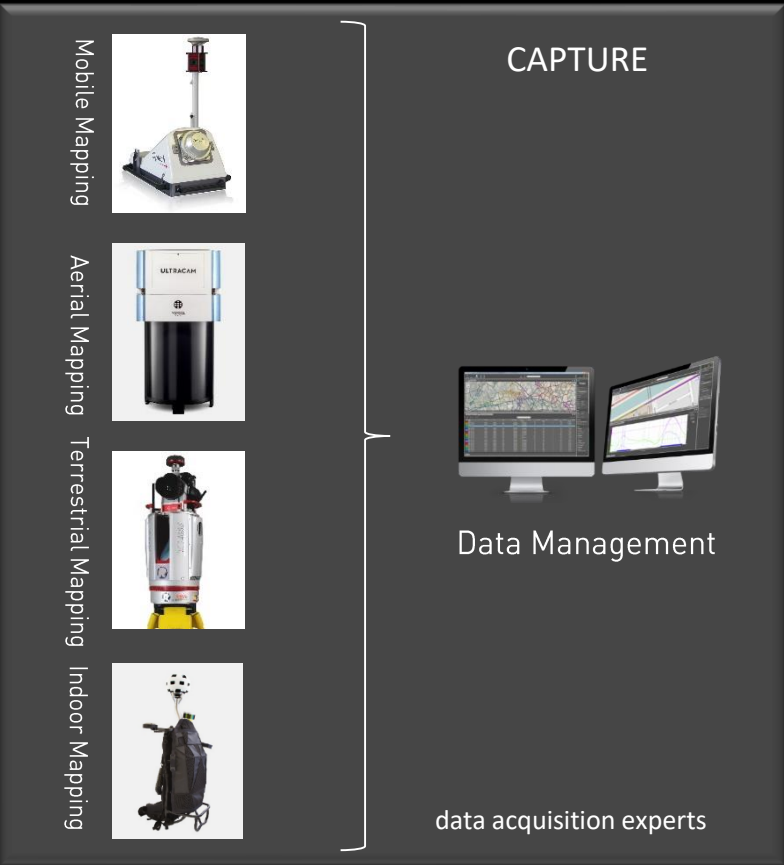
SHARE



Online Sharing

organization wide users

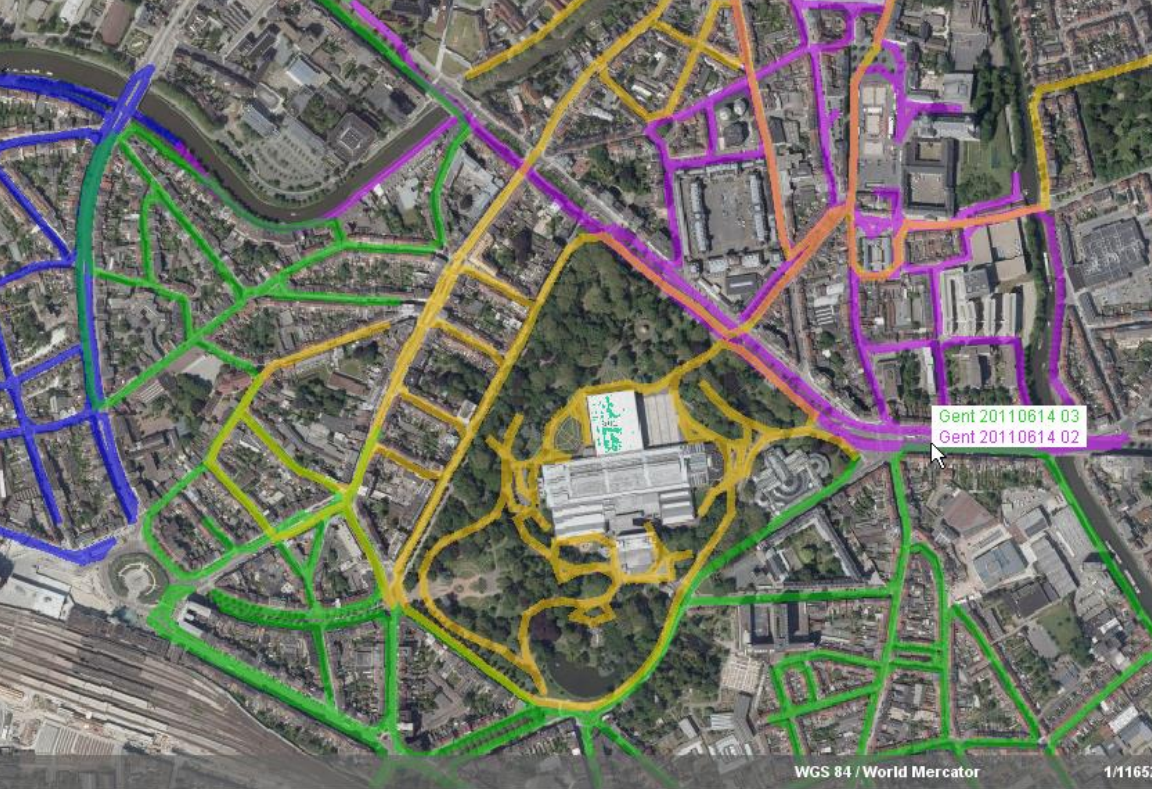






HARDWARE SETUP WITH LiDAR & IMAGERY





**PLANNING
JOB CONTROL
OPTIMIZATION
CLEANING
DATA DELIVERY**

Q Gent

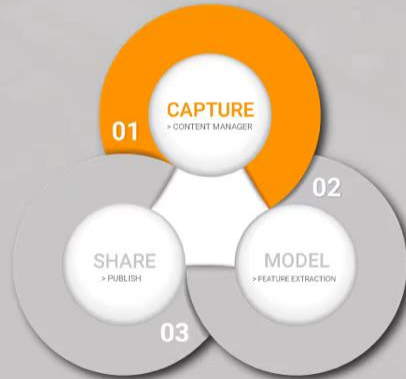
Collection date	Status	Sphericals	Planars	Point Cloud	Total
2011/06/14	In process		4459	0	134 m
2011/06/14	Imported		3306	0	82 m
2011/06/14	Imported		6368	0	130 m
2011/06/14	Imported		6230	0	158 m

Orbit 3DM Content Manager





Manage 3D Mapping Data after Capture



Import

all systems, sensors, size

Mobile, UAS, Indoor, Oblique, Terrestrial 3D data import

Explore

catalog overview, query, archive, view details

map view in 2D, 3D, slice viewing

use reference GIS data

Verify

positional accuracy analysis

trajectory accuracy graph

quality control via ground control points

Adjust

trajectory adjustment using GCP's

remove duplicates, auto point cloud ghost cleaning

georeference 3D data

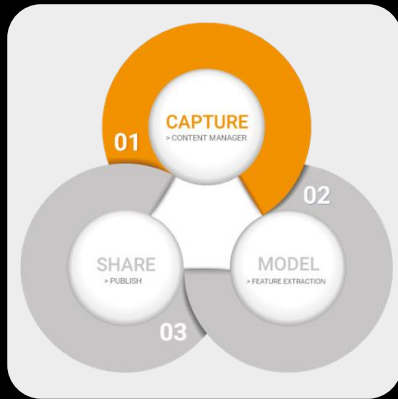
Consolidate & Deliver

prepare and optimize for feature extraction and publishing

upload to 3D Mapping Cloud

COLLECT / PRODUCE
> CONTENT MANAGER

DELIVERY



Combined projects
Clean image and LiDAR
No Overlaps
Ready for next steps





**MEASURE
EXTRACT
MODEL
ANALYSE
REPORT
TEAM WORK**

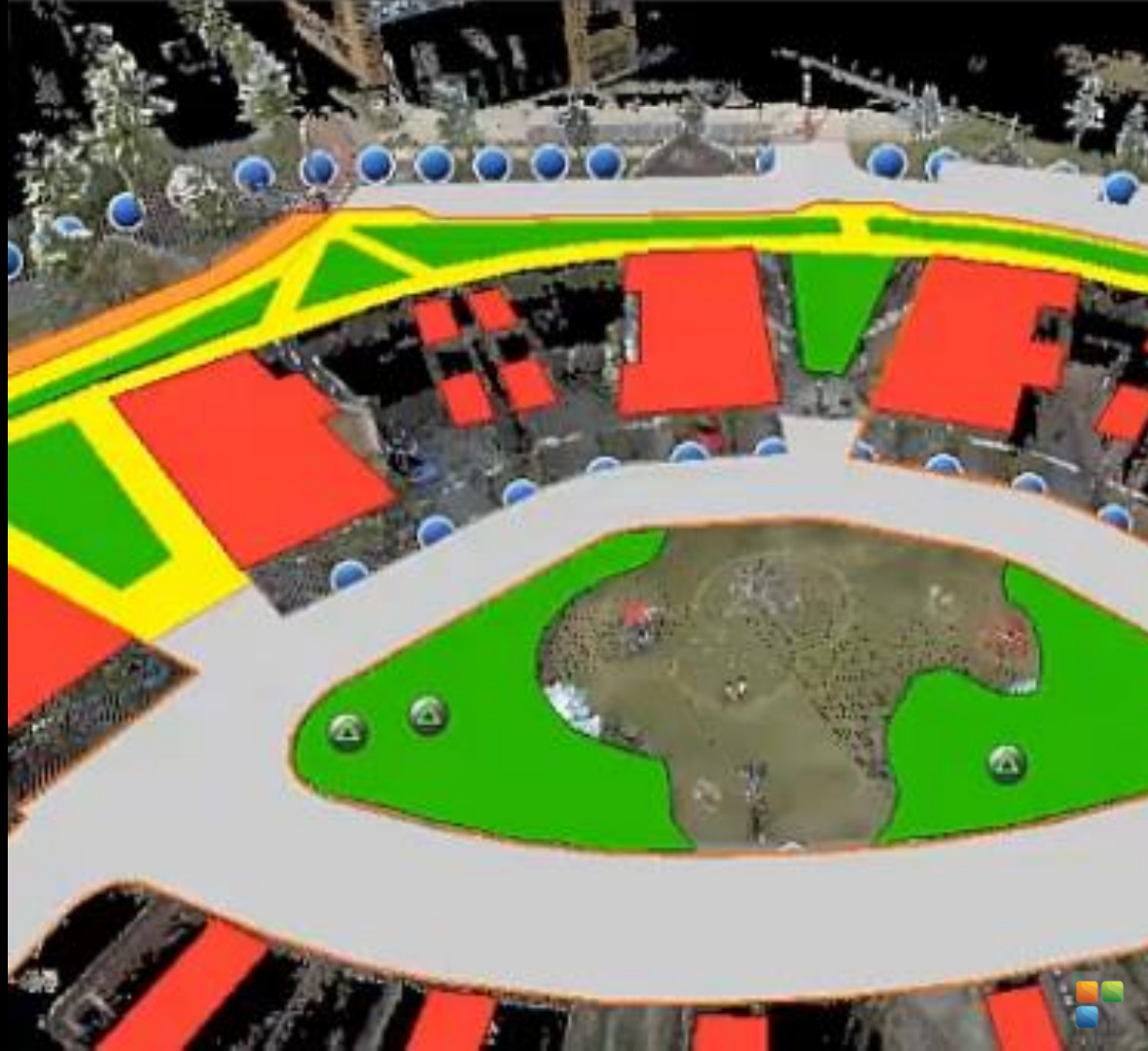
Orbit 3DM Feature Extraction



FEATURE EXTRACTION

Basic & Advanced

*Workflows &
(semi-) automated
processes*



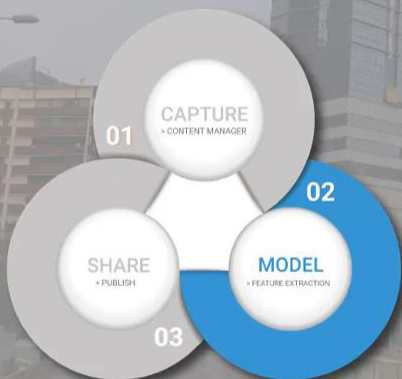
ORBIT 3DM FEATURE EXTRACTION

Import - Explore - Measure & Extract - Produce & Analyse - Deliver

Advanced Feature Extraction
for the Professional



Advanced Feature Extraction
for Mobile, UAS, Indoor, Oblique
and Terrestrial Mapping



Import

all 3D Mapping data: imagery & point cloud
add file, database and web based geo resources

NEW IN V18 !!!

Explore

map view in 2D, 3D, slice viewing
overlay reference GIS data

Measure & Extract

points, [poly]lines, catenary curves, areas, volumes, circles
ridge, edge and corner detection and measurement
slice, point cloud, and imagery only measurement

NEW IN V18 !!!

Produce & Analyse

asset inventory workflow, parallel auto-extraction
profiles, contours, volumes, cross section analysis
clash detection, floor plan builder

automated pole detection, template-based classification
automated traffic sign detection

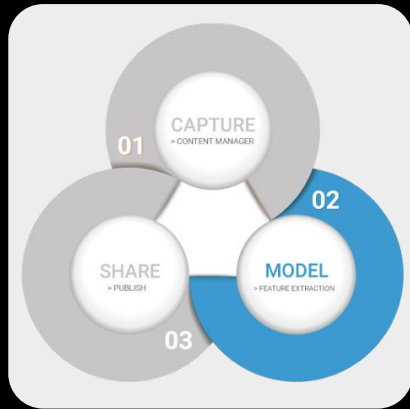
NEW IN V18 !!!

Deliver

deliver extracted features for publishing
export data (flythrough movie, vector files, snapshots, ...)

EXTRACT / PROCESS
> FEATURE EXTRACTION

DELIVERY



GIS & CAD Data
Profiles & volumes
Analysis reports
Documents



PUBLISH ONLINE
SHARE VIA WEB
INTEGRATE VIA API
PLUG-IN ARCGIS
PLUG-IN AUTOCAD
PLUG-IN QGIS

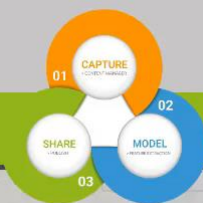
Orbit 3DM Publisher
Orbit 3DM Cloud



ORBIT 3DM PUBLISHER - ON-PREMISES

Configure - Publish - Webclient - Plugins - SDK

Share Online without Limits



More Data
More Content
More Users



Configure 3D Mapping publications

add an Orbit Indoor, Mobile, Oblique, UAS project

- add GIS reference data
- define user & access credentials
- customize viewer, layout, tools
- enable logging and server load monitoring

NEW IN V18 !!

Publish

- share 3D Mapping data via unique **webpages**
- share 3D Mapping to mobile devices
- share via plugins and SDK

NEW IN V18 !!

Plugins

- AutoCAD plugin
- ArcGIS for Desktop plugin, **ArcOnline Widget**
- QGIS Plugin
- Latitude Geocortex Plugin
- Microstation Plugin

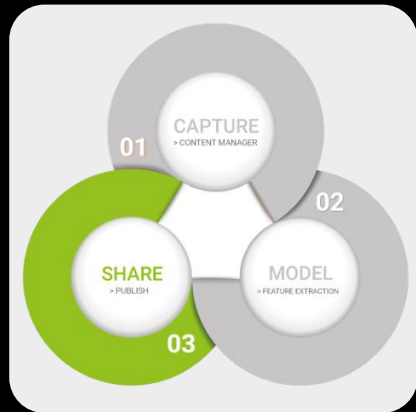
NEW IN V18 !!

SDK (API)

integrate Orbit 3DM Plugin in any 3rd party software

SHARE / DELIVER
> PUBLISHER

DELIVERY



Make 3DM content useful
to thousands
Repetitive business



 **orbit** brings Reality Capture as a standard 3D mapping resource in the entire mapping workflow.



Data Collection by Surveying Staff or Consultants



Analysts create Asset Inventory Databases

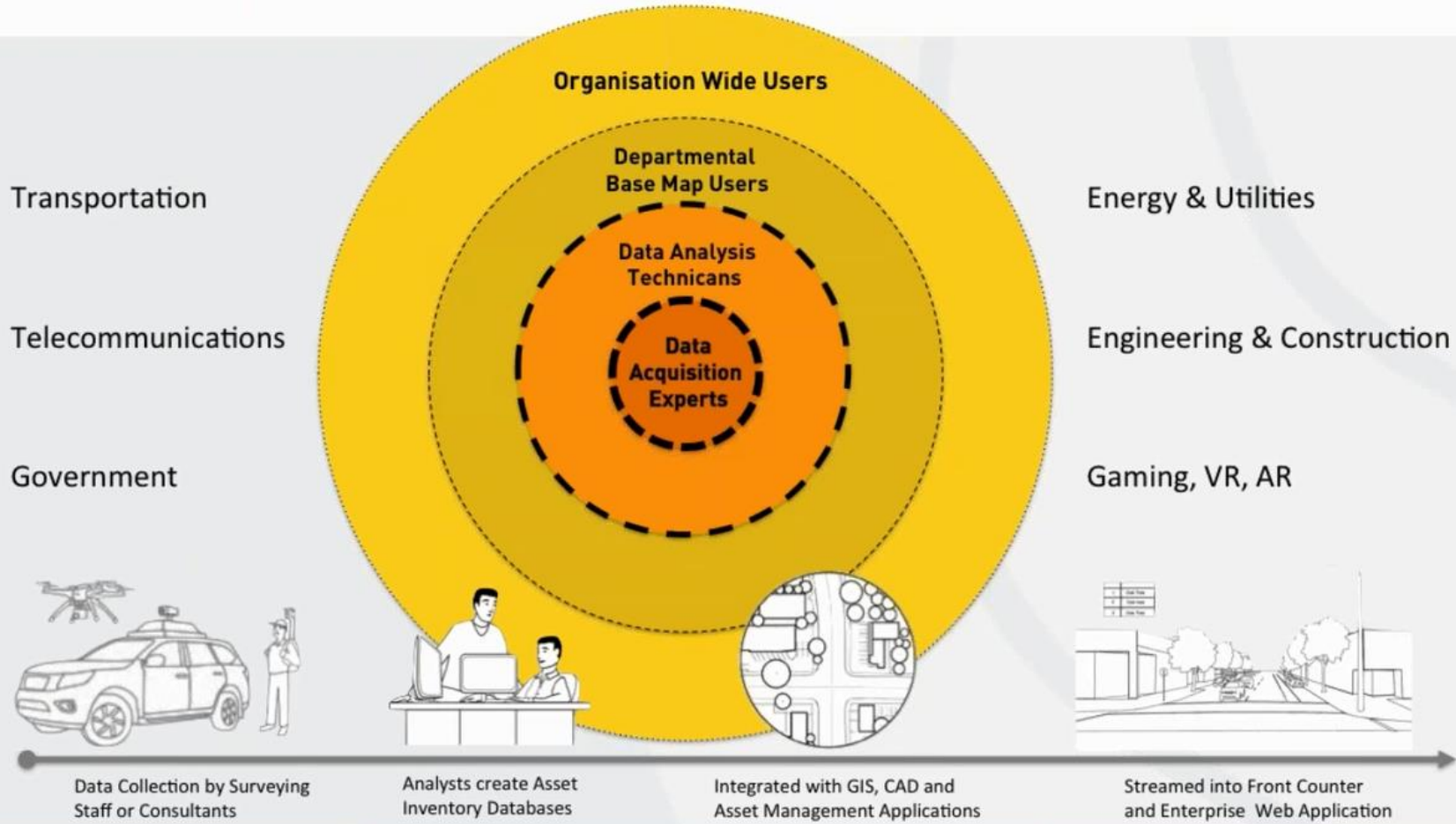


Integrated with GIS, CAD and Asset Management Applications



Streamed into Front Counter and Enterprise Web Application





Transportation

Telecommunications

Government

Organisation Wide Users

Departmental Base Map Users

Data Analysis Technicians

Data Acquisition Experts

Energy & Utilities

Engineering & Construction

Gaming, VR, AR

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Streamed into Front Counter and Enterprise Web Application



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