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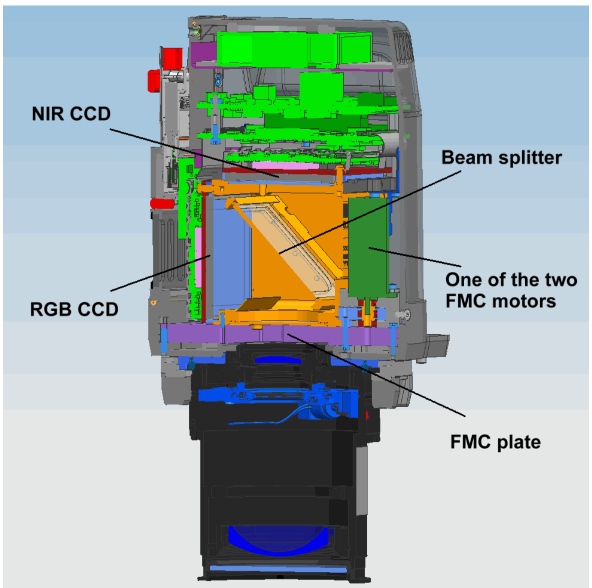
The Leica City Mapping Solution

Ruedi Wagner

26.08.2013

Leica RCD30 – modular design



RCD30 Oblique
RCD30 Trio Configuration

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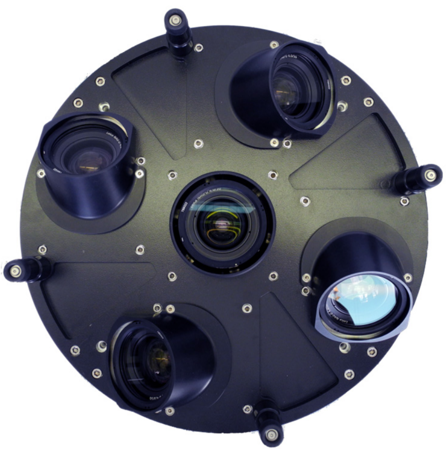
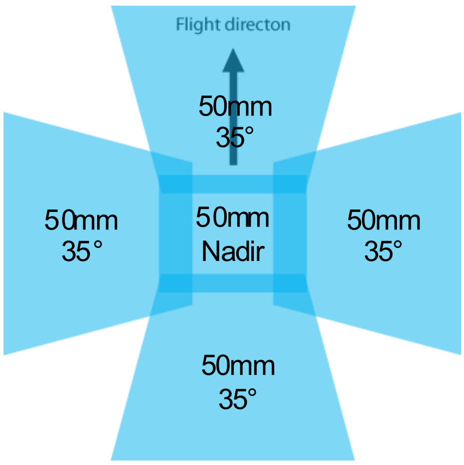
RCD30 Oblique
RCD30 Penta Configuration





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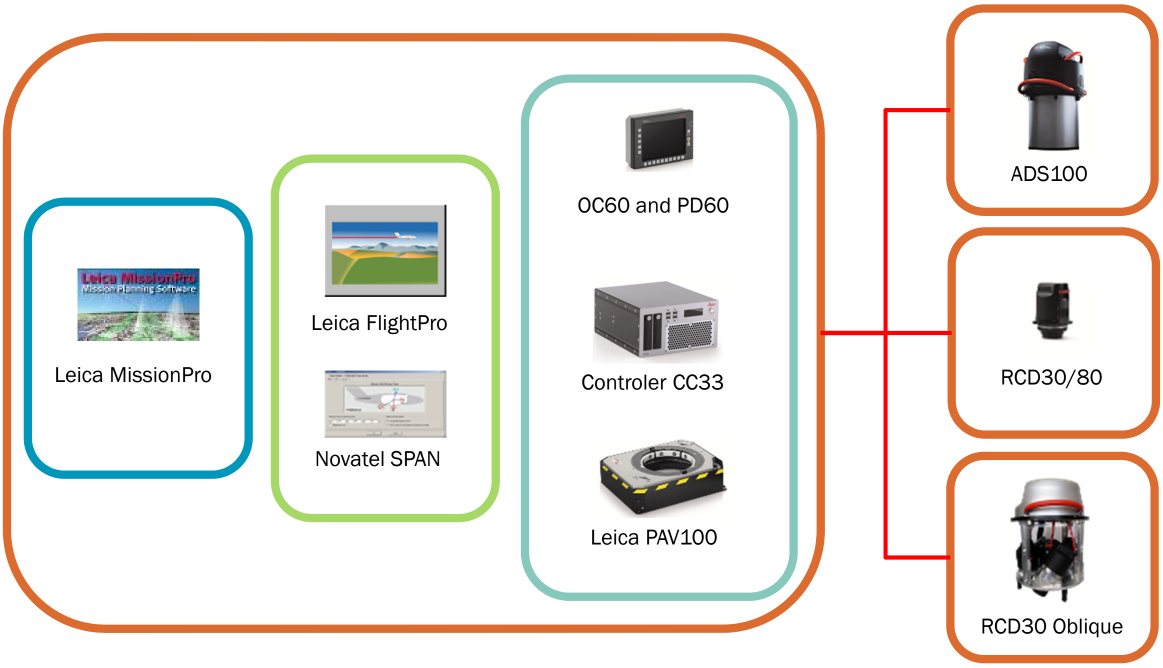
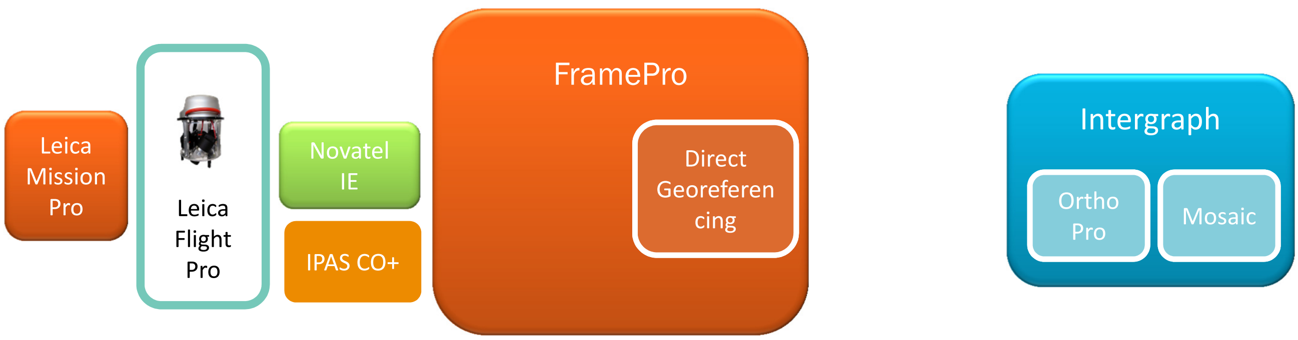
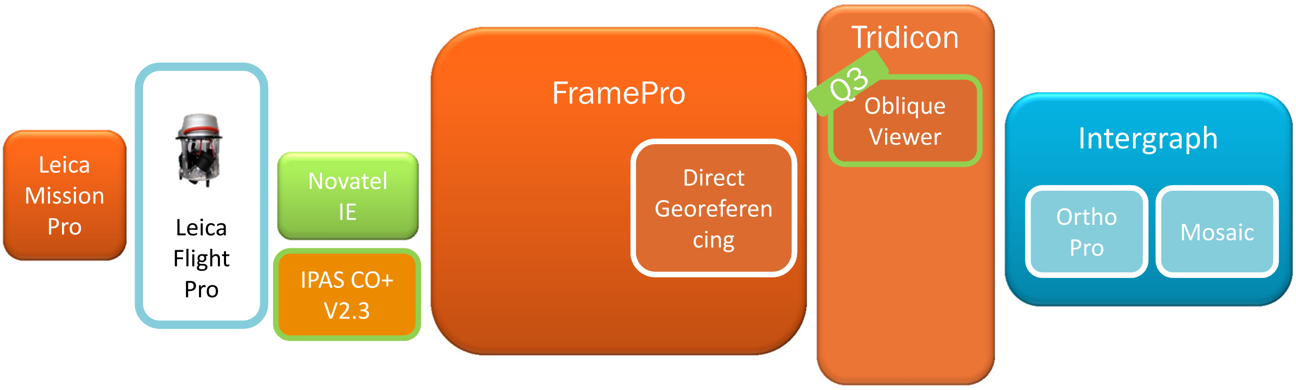
Leica RCD30 Oblique



Humble beginnings……



Oblique Workflow – Some logical parts



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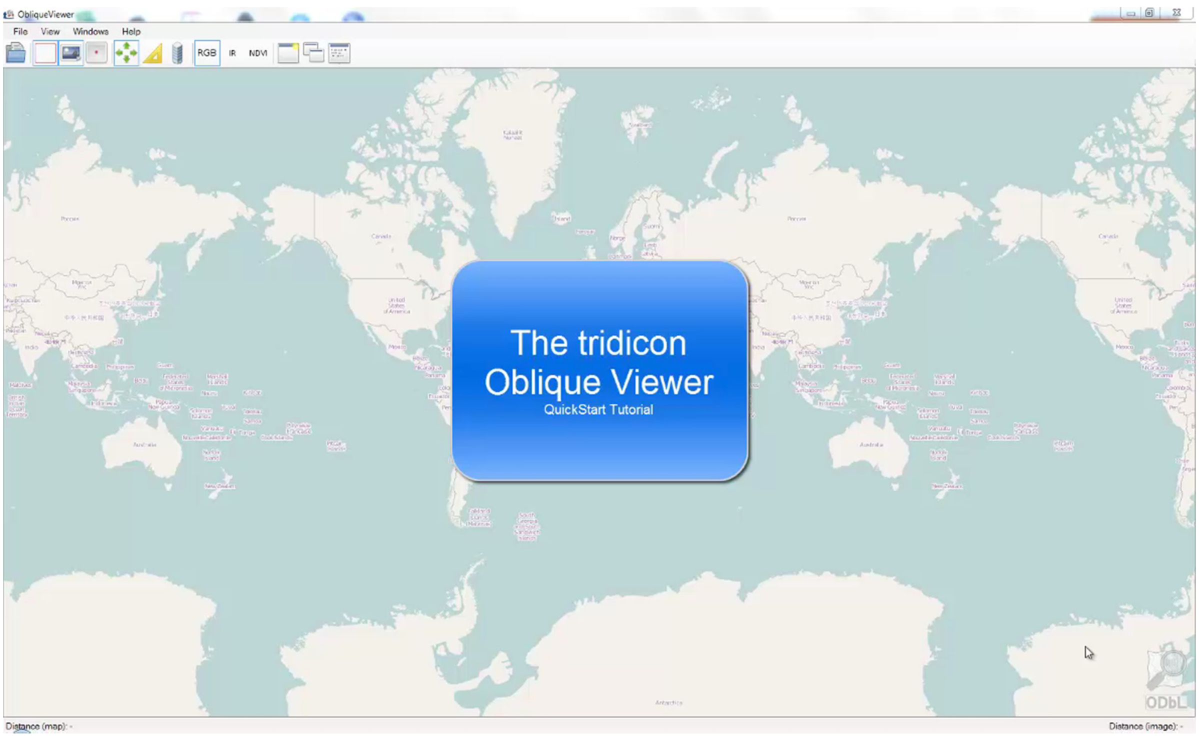
tridicon® | Oblique Viewer

tridicon



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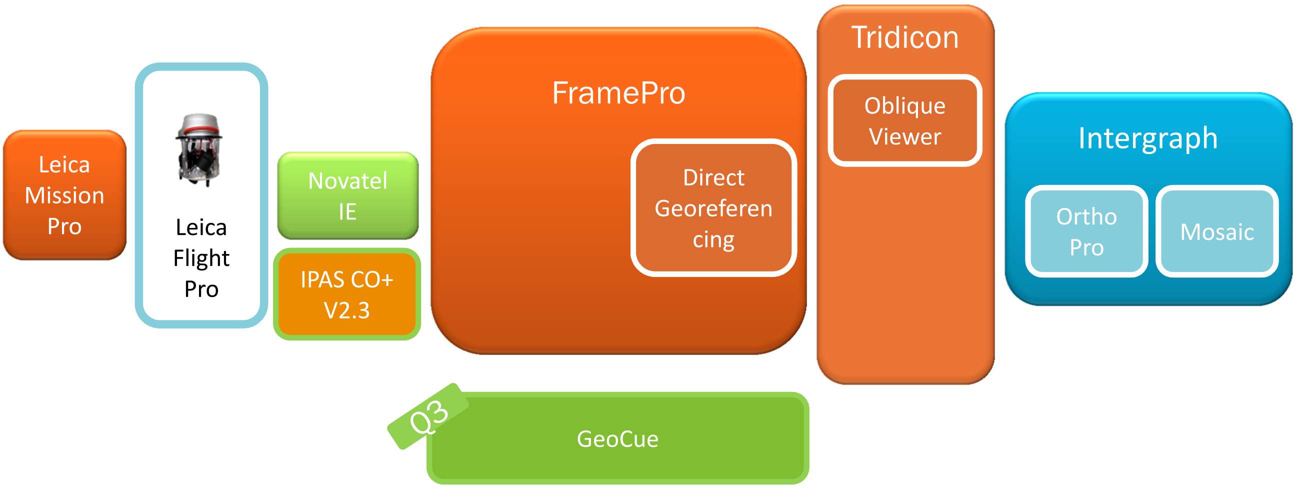
Oblique Workflow – Some logical parts



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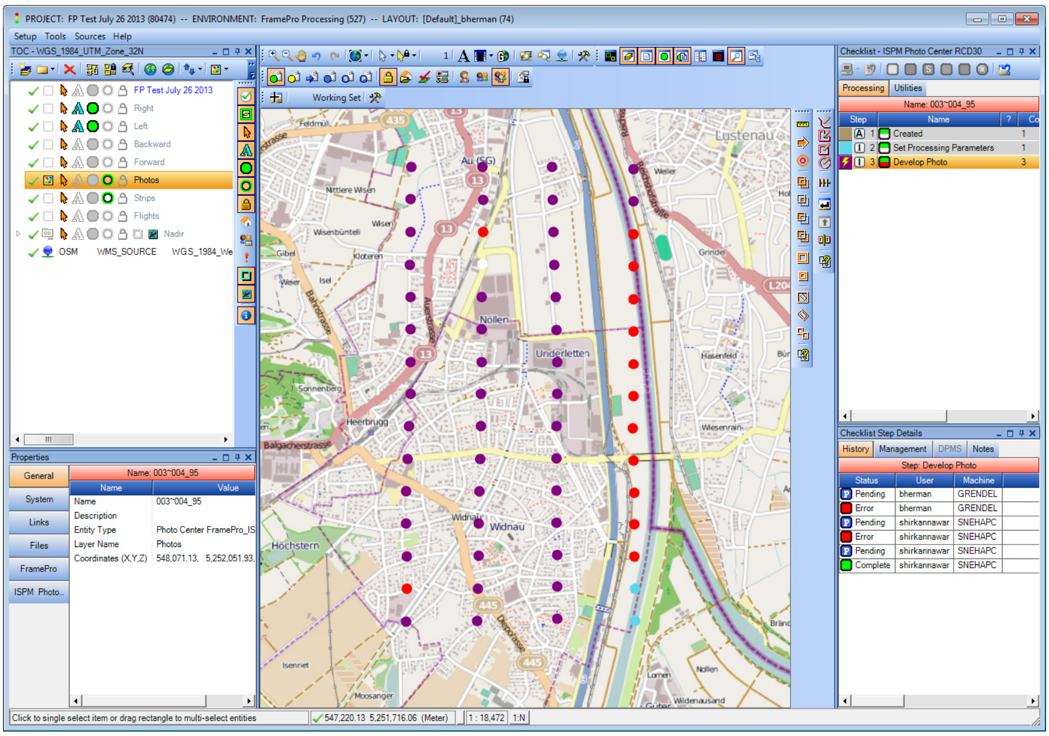
Geocue CuePack for FramePro



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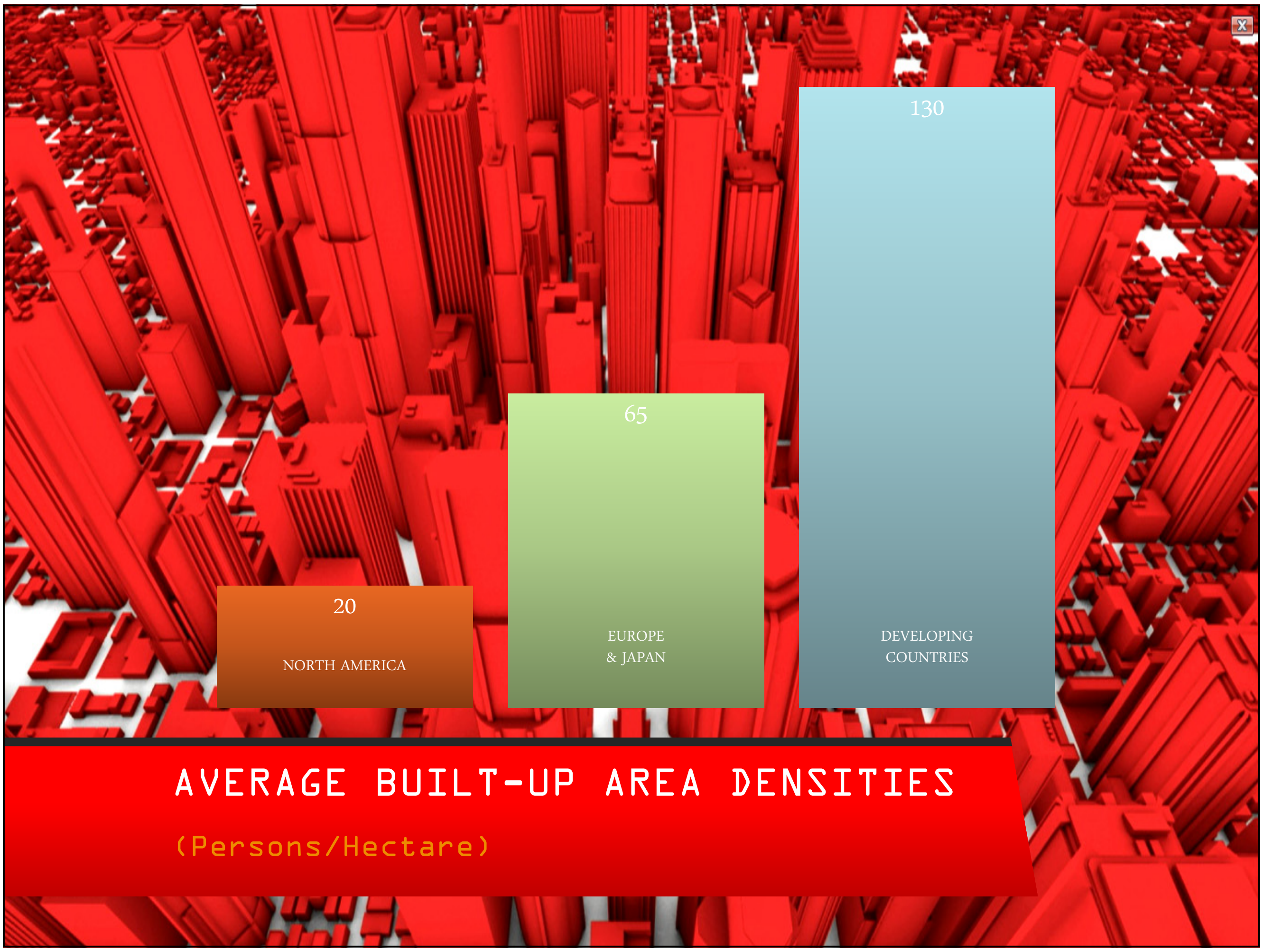
Geocue CuePack for FramePro

Why 3D Urban Mapping?



Oblique Views from RCD30

3D City Models

tridicon® | City Modeller

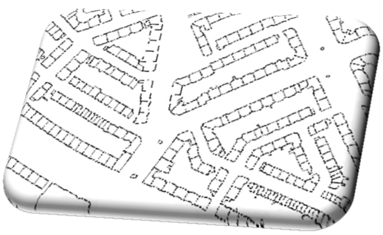
tridicon

Stereo Imagery

automatic

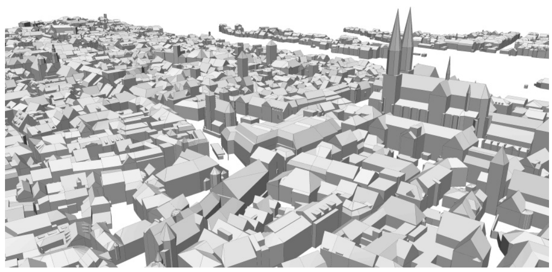
(Semi Global Matching algorithm)

3D-point cloud/DSM
(if available also from LiDAR)



Building footprints

automatic



3D city model in LOD 2

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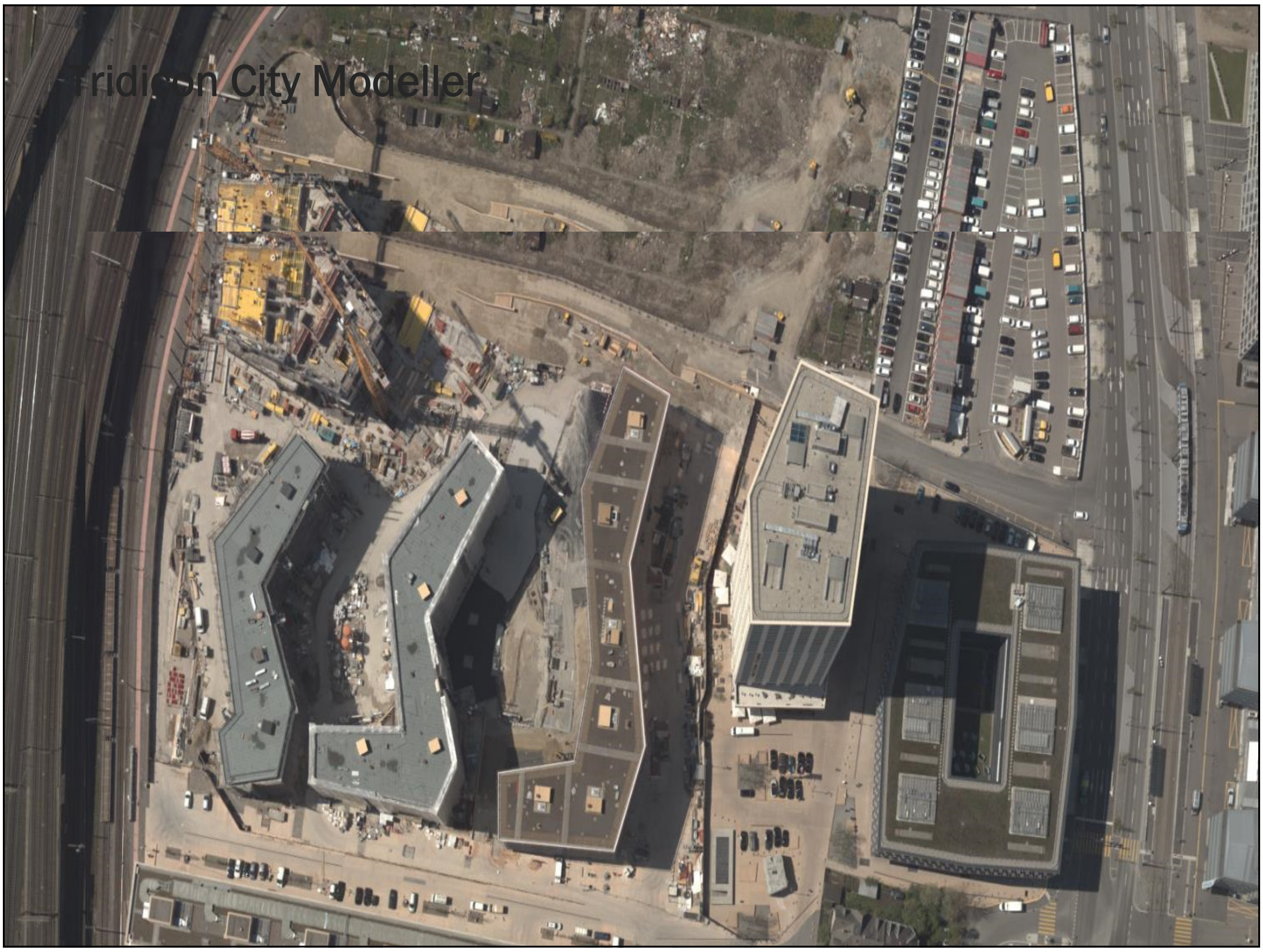
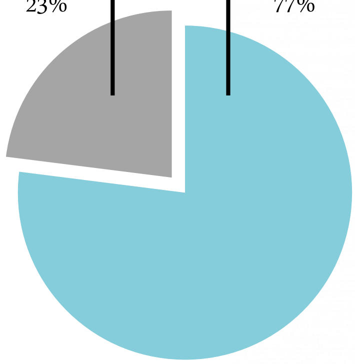

Tridicon City Modeller


Tridicon City Modeller



Source: Investing Across Borders database.

SHARE OF ECONOMIES WITH LAND INFORMATION SYSTEM (LIS)

tridicon® | Building Finder (Q3)

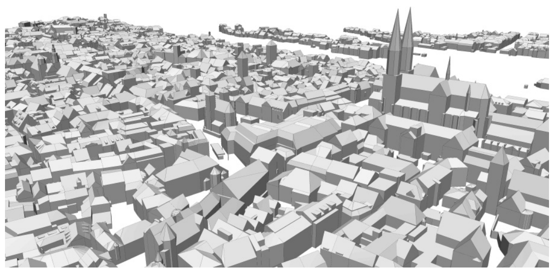
tridicon

Stereo Imagery

automatic

(Semi Global Matching algorithm)

3D-point cloud/DSM
(if available also from LiDAR)



3D city model in LOD 2

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Oblique Workflow – 2D to 3D fully automatic!

Tridicon Building Finder
Does not require existing footprints

Tridicon City Modeller
requires existing footprints

Leica Mission Pro

Leica Flight Pro

Novatel IE

IPAS CO+

FramePro
- Radiometry
- Direct Georeferencing
- Atmosphere

Tridicon
- Oblique Viewer
- APM Trio
- Point Cloud Generator (oblique

Intergraph
- Ortho Pro
- Mosaic

GeoCue

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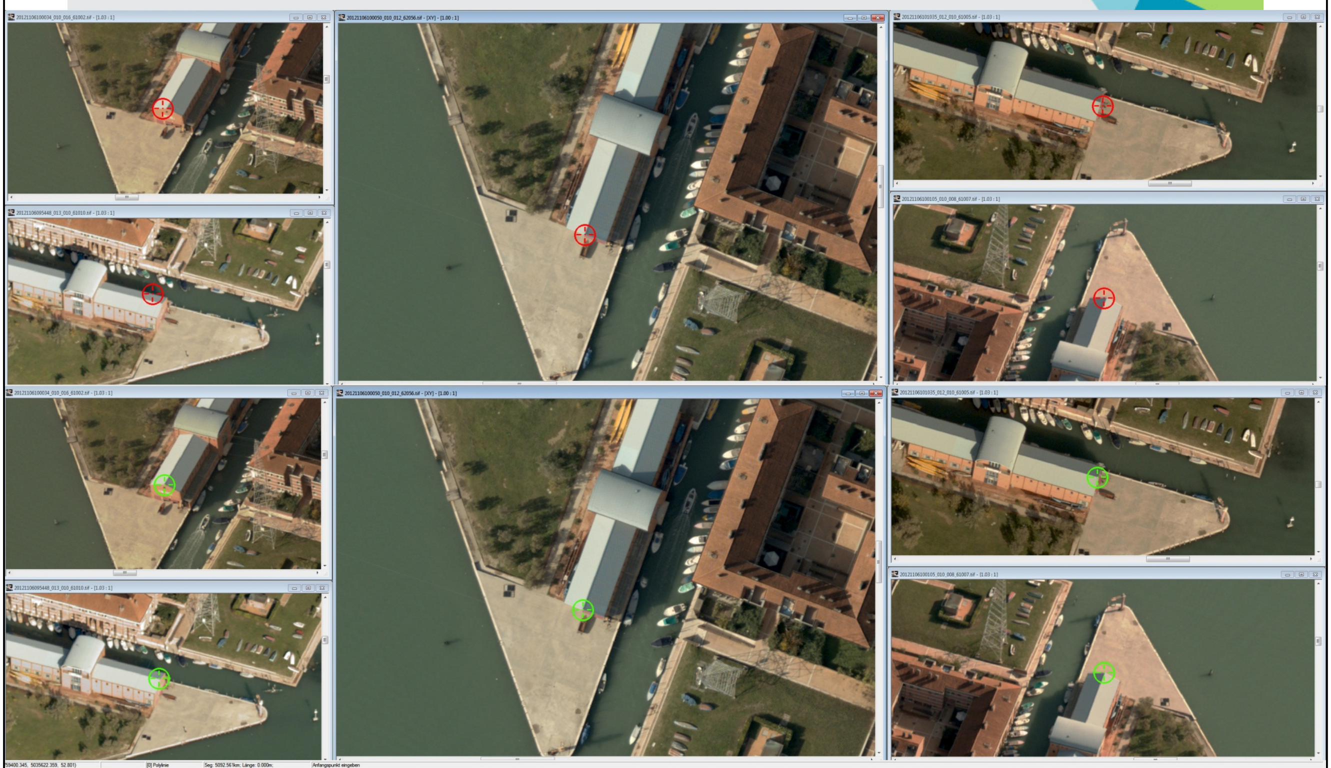
tridicon® | oAPM

tridicon



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tridicon® | oSGM

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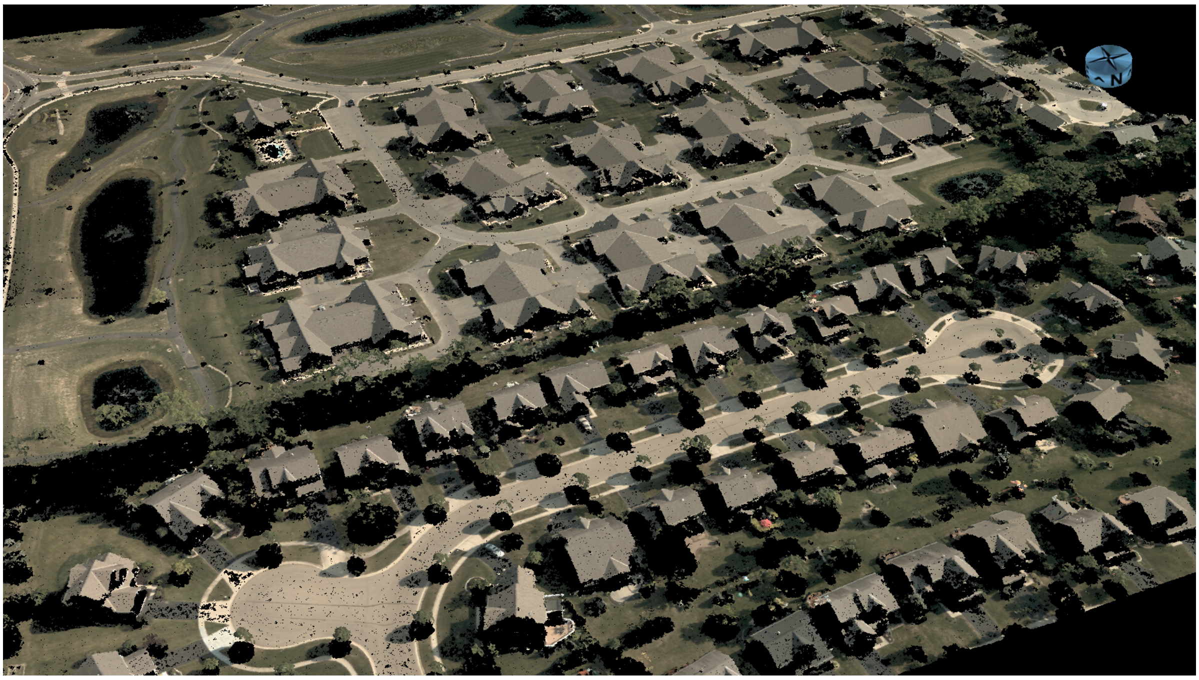
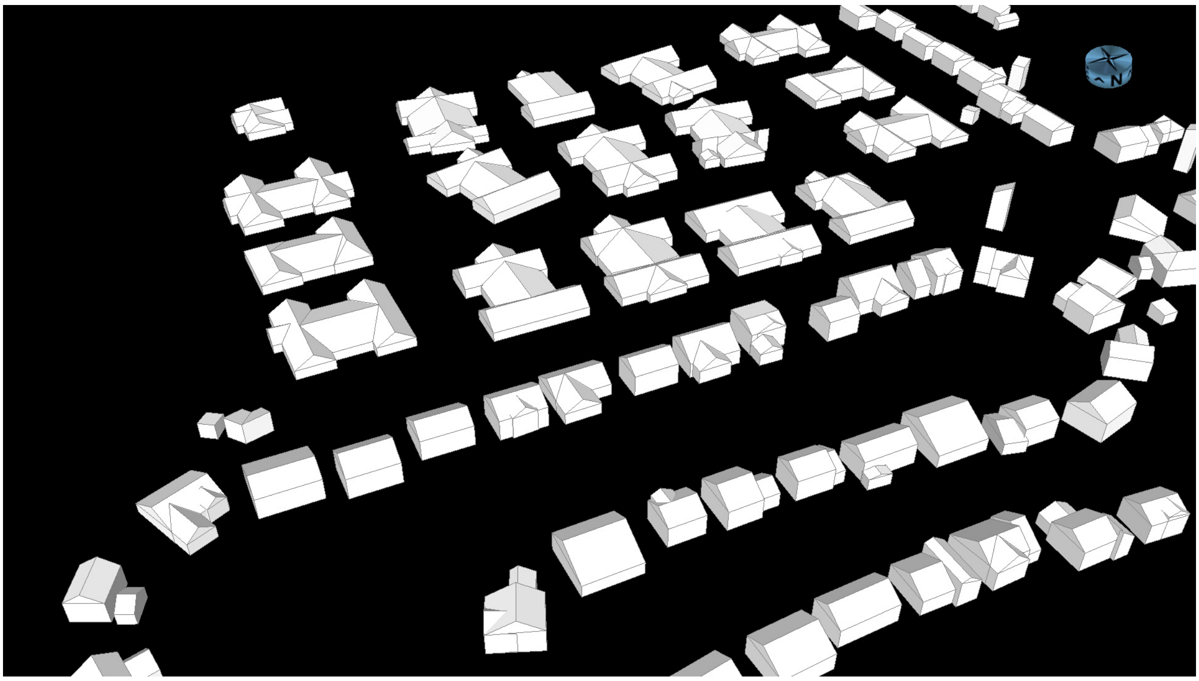
Tridicon Building Finder Q3 2014

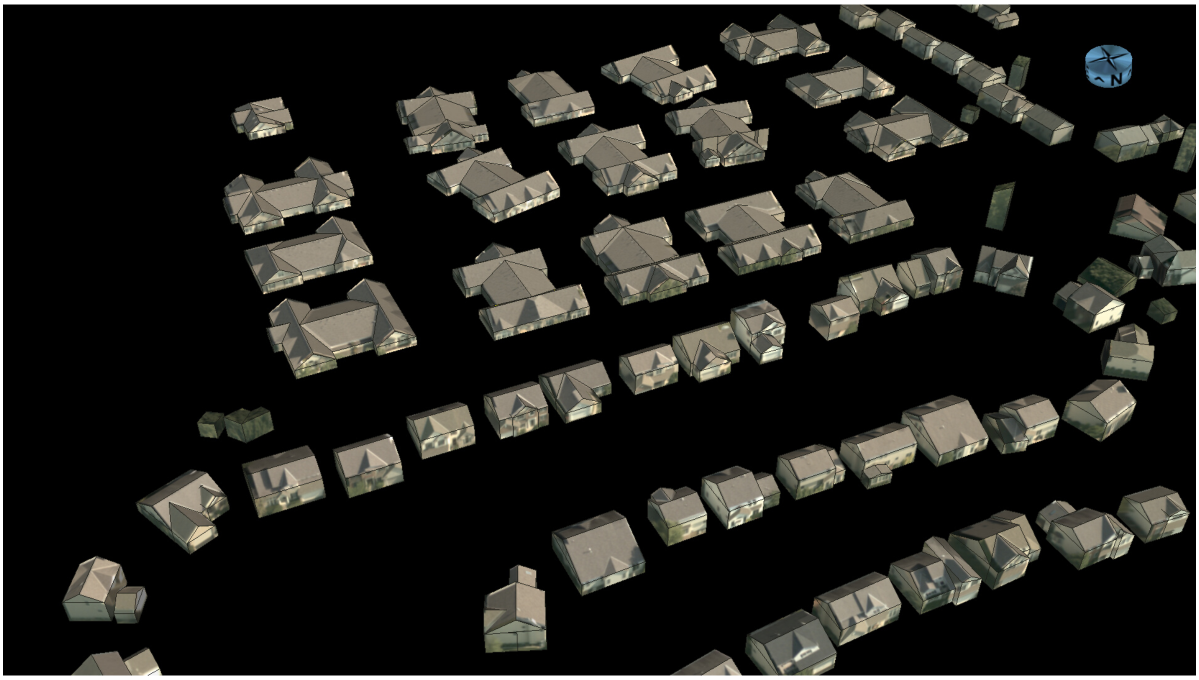
US Data



US Data



US Data



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US Data

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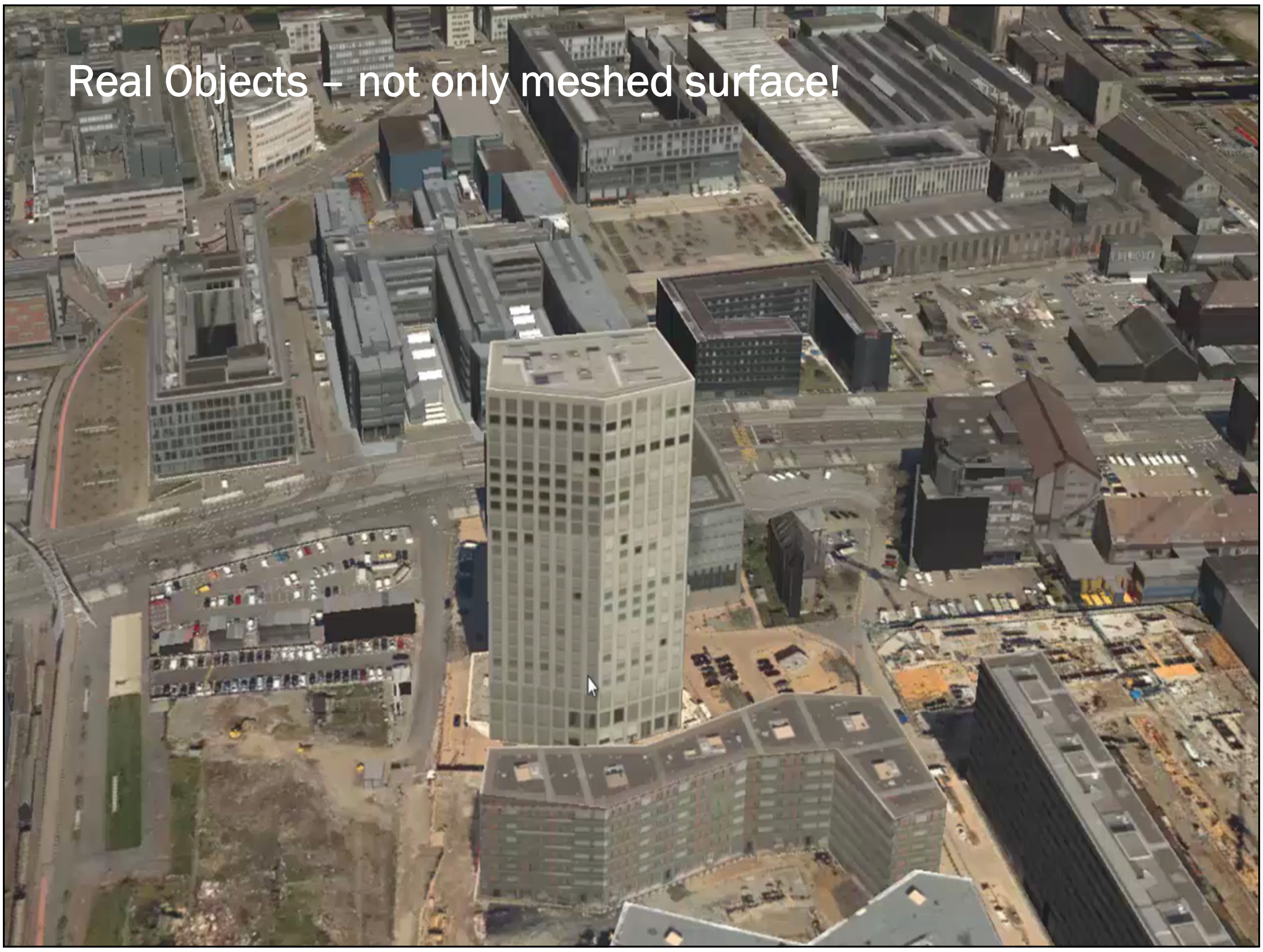

Building Model plus floorplan – connected!
Intelligent Infrastructure

Rapid and ongoing building updates
Aibotix X6 and tridicon Landmark

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Leica Geosystems

INTERGRAPH®

We
Make the
Digital world

REAL
&
MOBILE

THANK
YOU!