

SHAPING DIGITAL REALITIES



"To be smart, cities must be digital, safe and connected," said Hexagon President and CEO Ola Rollén "At Smart City Expo World Congress, we will demonstrate how our sensors and data, industry expertise and technologies and platforms empower cities to reach their fullest potential."



Shaping smart **change** by
empowering the mobile
workforce

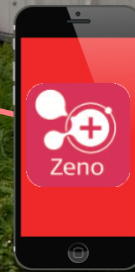
50cm

5cm

1cm



Bluetooth™



Zeno Collector - High-Accuracy Data Collection in ArcGIS

esri ArcGIS Industries About Support Sign In

ZenoCollector

High-Accuracy Data Collection in ArcGIS

[Learn More](#)

ZenoCollector combines a high-accuracy data collection device with an industry-leading software platform, so you can boost efficiency of field crews, reduce errors in data collection, and always have the latest information at your fingertips.

o be right

Leica
Geosystems

City centre power cut cost up to €1m, business group says

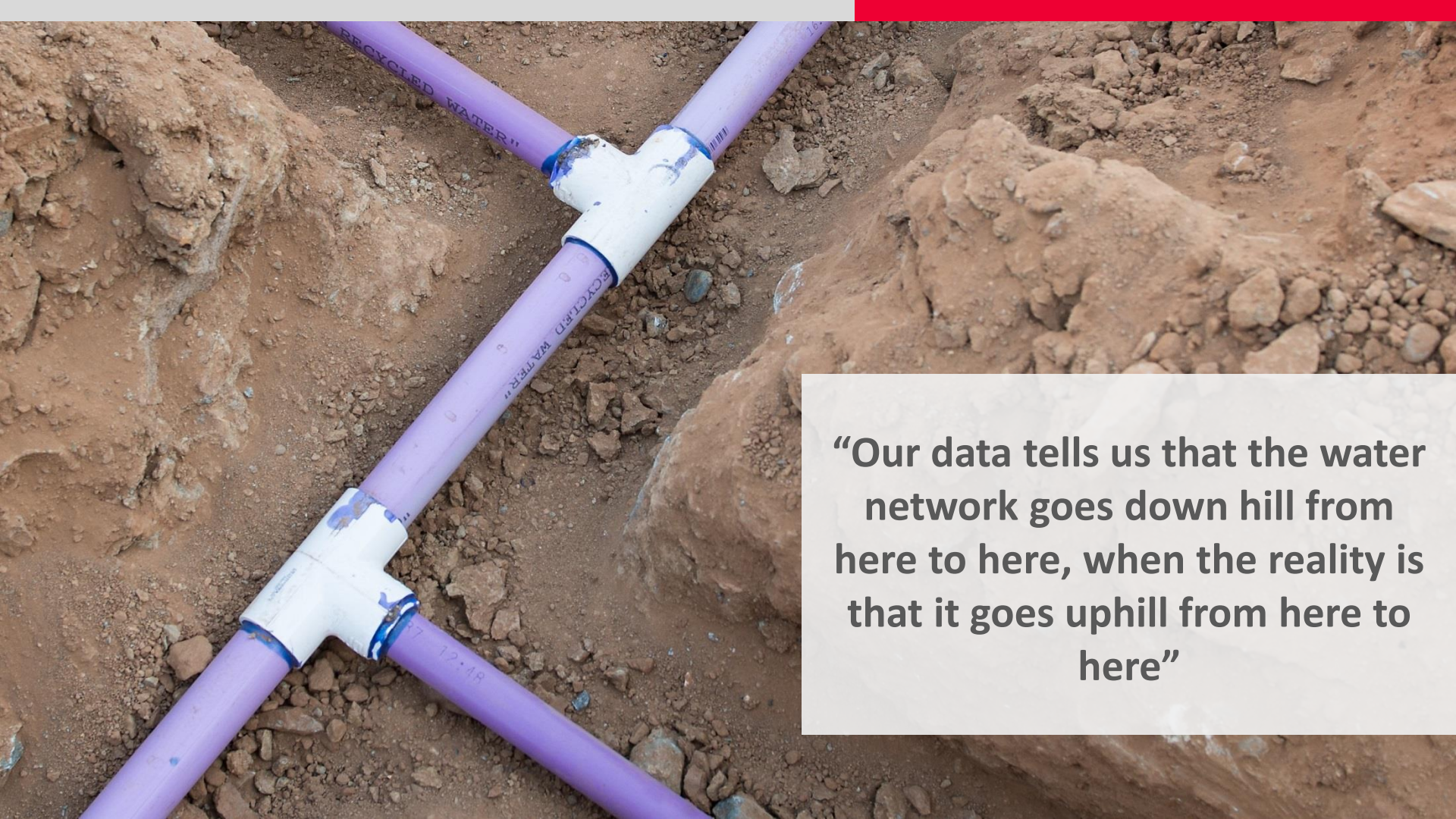
Updated / Monday, 19 Feb 2018 16:34



Traffic lights are out of action in parts of the city centre

While you're there, **measure**
new installed assets whilst the
ground is open






“Our data tells us that the water network goes down hill from here to here, when the reality is that it goes uphill from here to here”



Digitising the **Unseen**

‘An estimated **4 million** holes are dug each year by utilities companies...’

*www.energynetworks.org



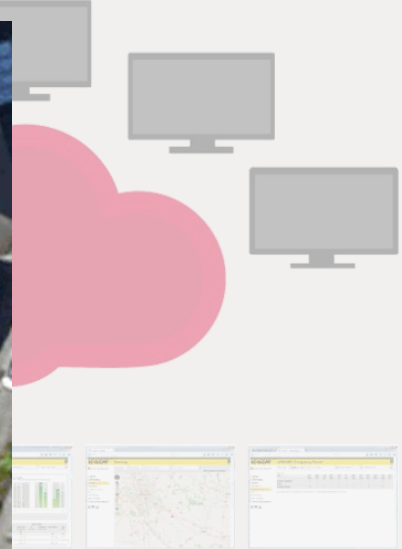
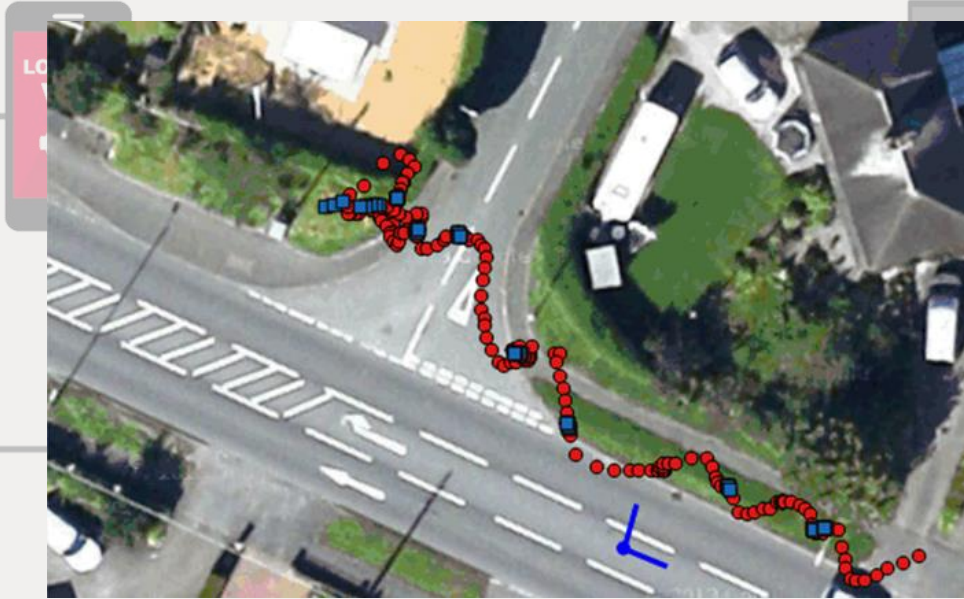
‘An estimated **60,000**
underground cable strikes occur
every year...’

*www.wwtonline.co.uk



Balfour Beatty

 **VolkerWessels**



Mobile

Windows platform

Cloud platform



Report Information
This report is generated from information extracted from loc...

The difference between the actual time and the time on the f... adjustments need to be considered.

Locator Usage for Day of Incident

SerialNumber	ActivityDate	FileIndex	UserId
310620	10/06/2015	148	CABLE
310620	10/06/2015	149	CABLE
310620	10/06/2015	150	CABLE
310620	10/06/2015	151	CABLE
310620	10/06/2015	152	CABLE
310620	10/06/2015	153	CABLE
310620	10/06/2015	154	CABLE
310620	10/06/2015	155	CABLE
310620	10/06/2015	156	CABLE

LogDate	CalDue	Est	Battery	Mod
10/06/2015 15:54:44	7	No	6	3:30
10/06/2015 15:54:45	7	No	6	Auto
10/06/2015 15:54:46	7	No	6	640i
10/06/2015 15:54:47	7	No	6	Power
10/06/2015 15:54:48	7	No	6	Power
10/06/2015 15:54:49	7	No	6	Power

VolkerWessels

‘Our cable strike rates
reduced by 75%’

Balfour Beatty

‘No recorded incidents since
November 2015’

Leica Geosystems complete detection and underground mapping solution



+



+



+



=



 **PROTECT**
by Leica Geosystems

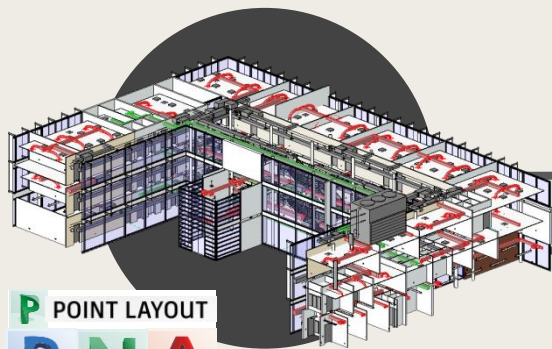
 Swiss
Technology



icon
intelligent CONstruction

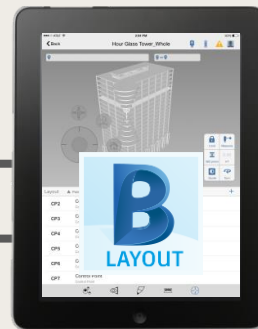


2375-1026



P POINT LAYOUT
RNA

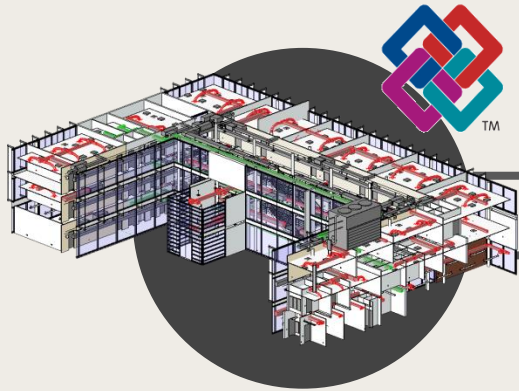
3D Digital Model
+ Digital Layout Points



BIM / VDC Focused Solution for
BIM Professionals



Leica iCON 50 or 60
Robot



IFC 3D Digital Model:
Most 3D Modelling Software



Leica iCON Workflow:
Construction Focused Solution

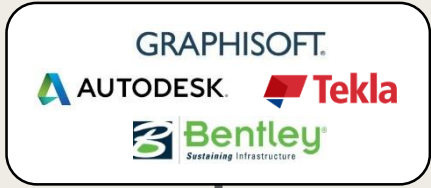


Leica iCON50 or iCON60

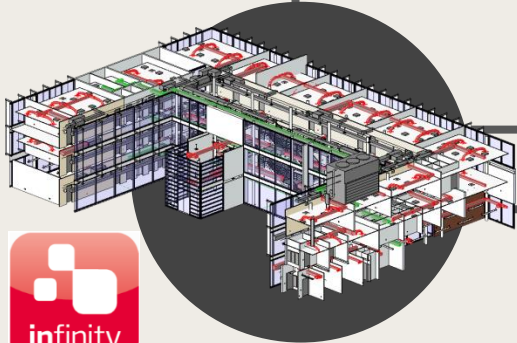
Machine Control







.IFC File Format



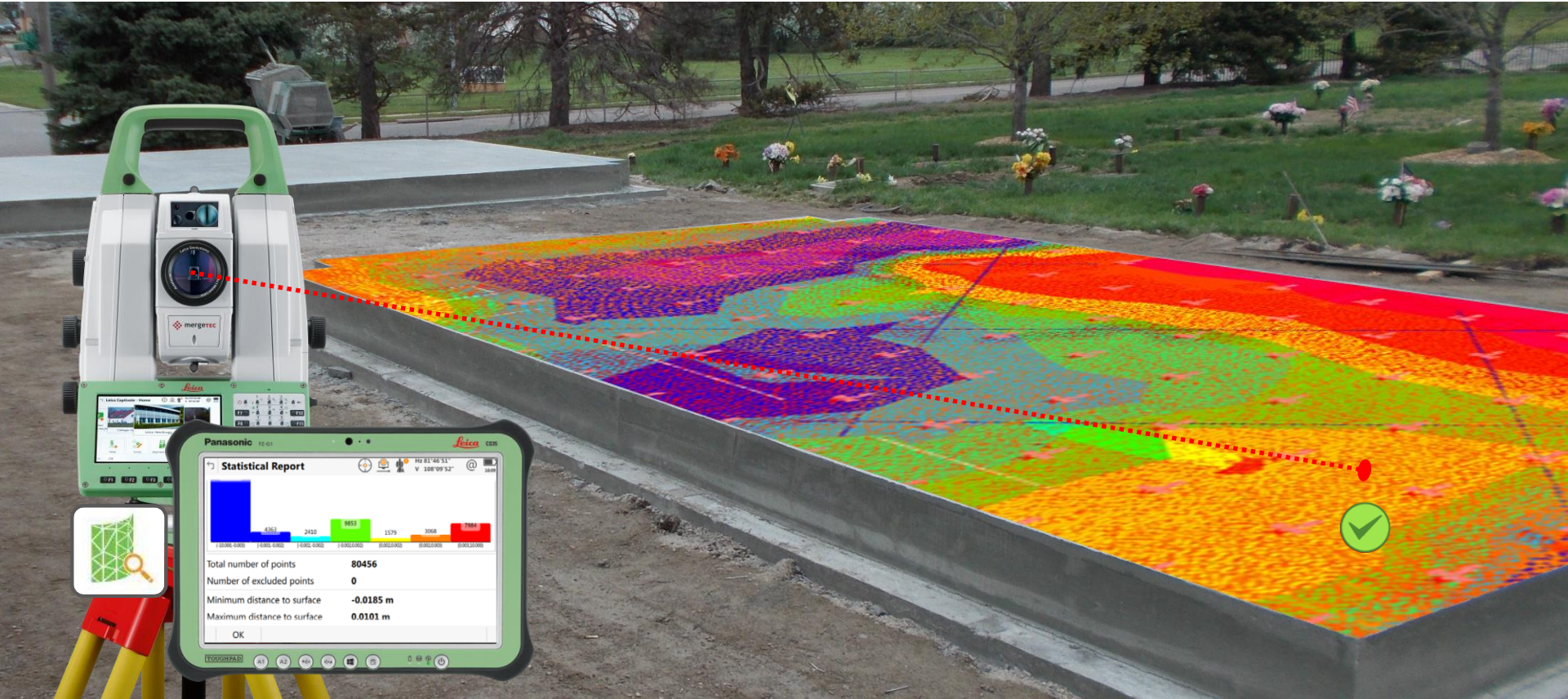
3D Digital Model
+ Digital Layout Points:
Leica Infinity



Leica Captivate Workflow:
Leica Exchange Cloud Solution
to Captivate Controller



Leica TS16 or MS60



Machine Control



Drillers & Pilers

GNSS solution for drill, piling, ground stabilisation rigs.

Rollers

Achieve highest compaction quality as basis for long-lasting infrastructure projects or buildings of any kind.

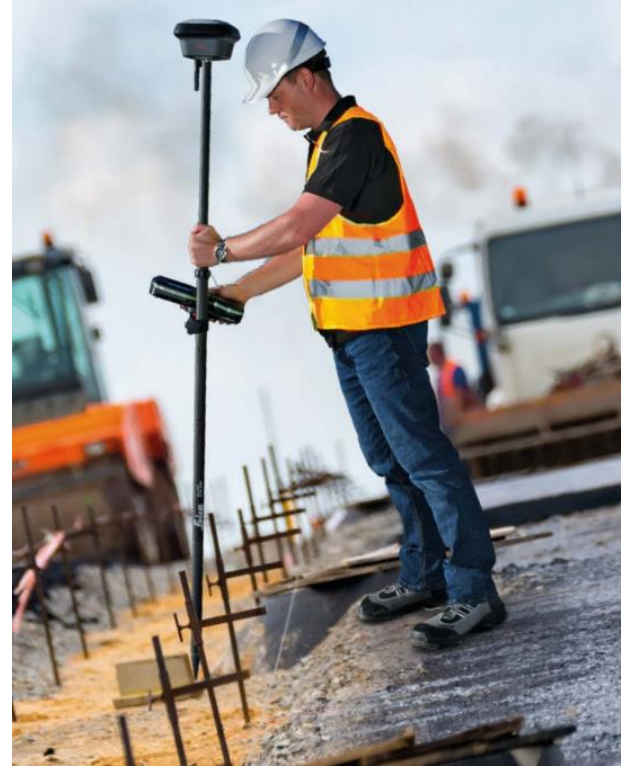
Pavers & Cold Planers

Integrated paving and milling control systems that automatically provide the smoothest surfaces.

Next Gen GNSS

Leica GS18 T

“Forget the bubble”



- when it has to be **right**

Leica
Geosystems





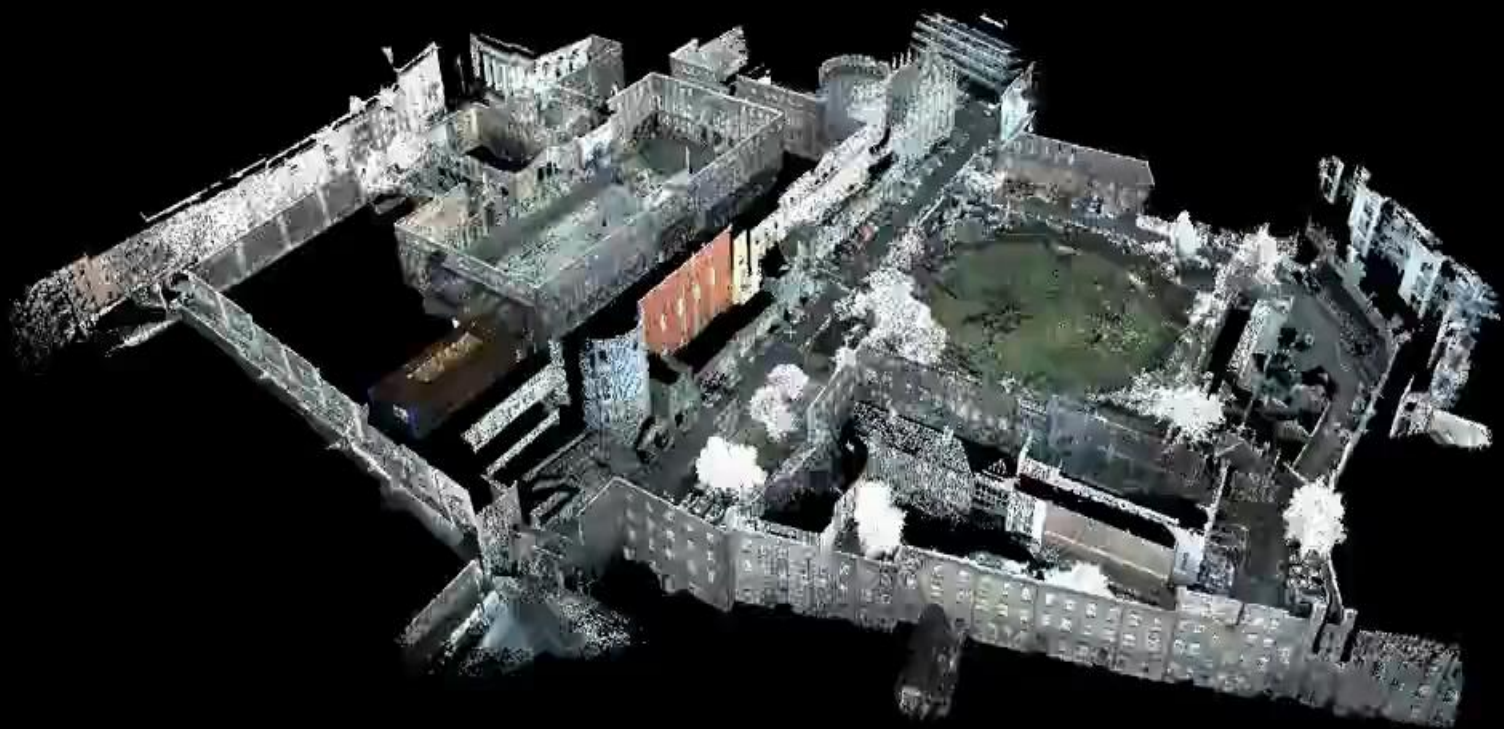
Collecting accurate data quickly...



reddot award 2016
winner

Wichmann
Innovations
Award





Complete Freedom





Countless possibilities

Infrastructure



Building Construction



Asset Collection



Energy



Disaster Recovery



Virtual Industrial Training



Accident Simulation



Urban Planning



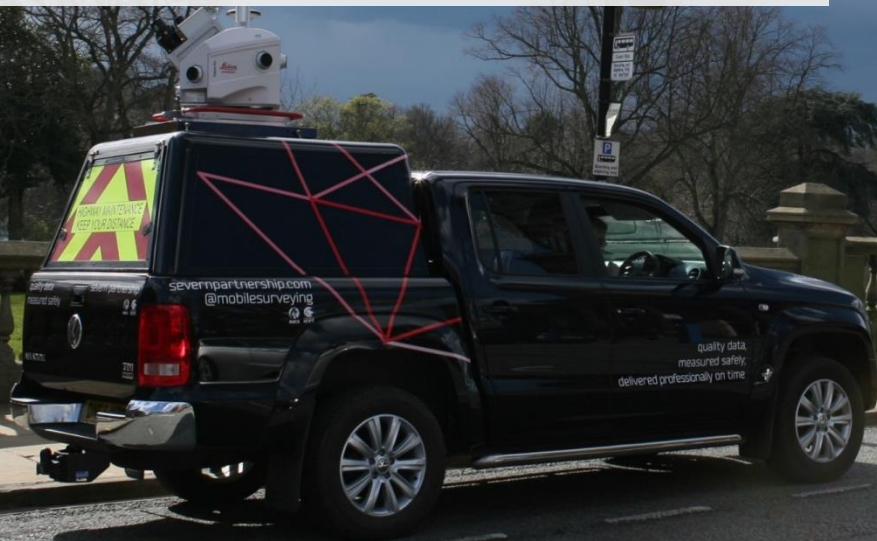
Forestry/Environmental



Safety & Security



Capturing the **As-Built**



severn partnership





‘Spaghetti Junction was scanned completely in **one afternoon** with no traffic management’

severn partnership



severn partnership



Capture Reality

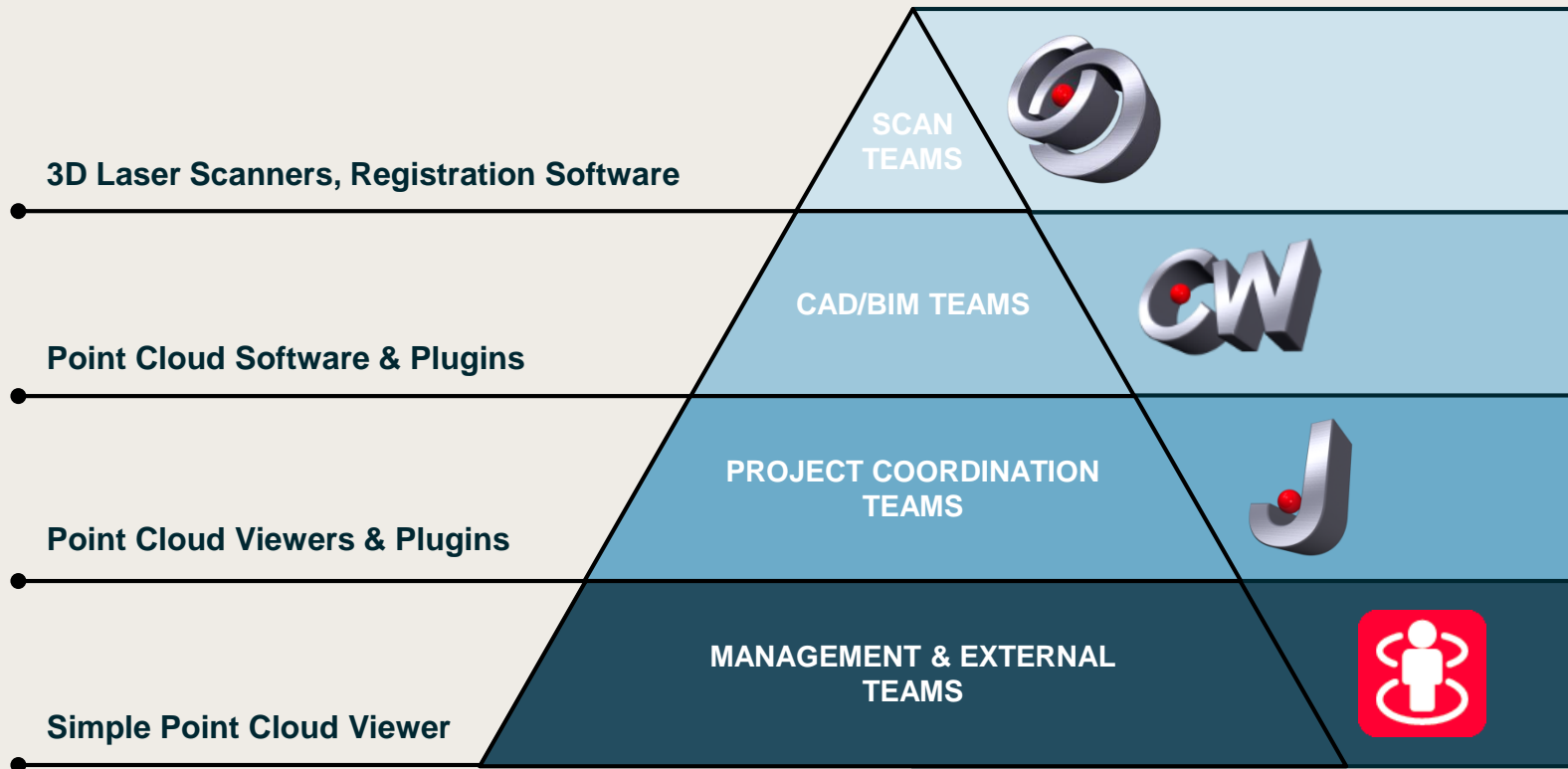
Extract Features

Build Database

Maintain Assets







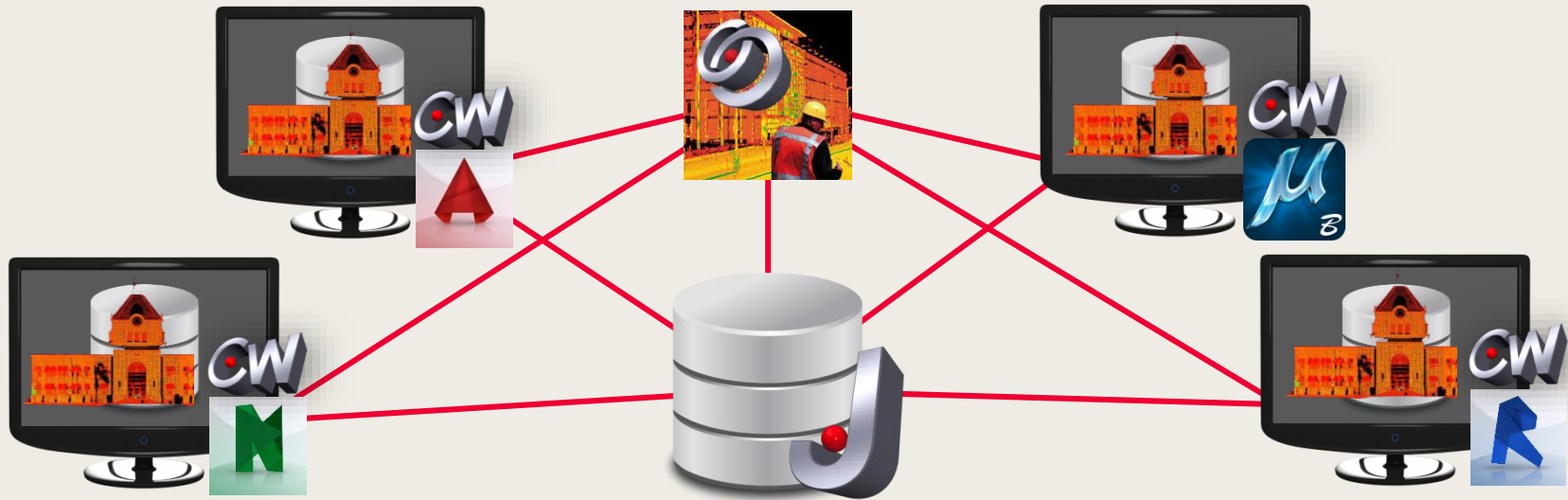




BIG DATA LOADING



Performance : Manage : Archive : Share





INSTANT

Live image and scan data streaming
< 3 min for complete reality capture

1KG

100 mm x 165 mm



SIMPLE

One button

360° activity indicator





SPHERICAL

3-camera system

full dome view 360° by 300°

HDR

LED flash



THERMAL

Longwave infrared panorama image

Broad scene temperature range

High thermal sensitivity

MILLIMETER PRECISE

360'000 3D points per second

Full dome 3D 360° by 300°

60 m range

Invisible infrared laser

Laser class 1 eyesafe





INDEPENDENT

No cables

Storage for 70+ reality captures

Battery for 50+ reality captures

Indoor and outdoor use



INDEPENDENT

No cables, MIMO wireless
Storage for 70+ reality captures
Battery for 50+ reality captures
Indoor and outdoor use

AUTOMATIC

Tilt
Positioning
Altitude





CLICK

Fast, secure tripod mounting
upright and upside down use

BLK360

SWISS MADE









Leica



Review cloud projects

Store for offline uses

Take measurements

Make comments

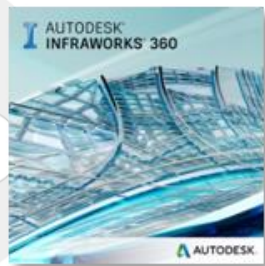
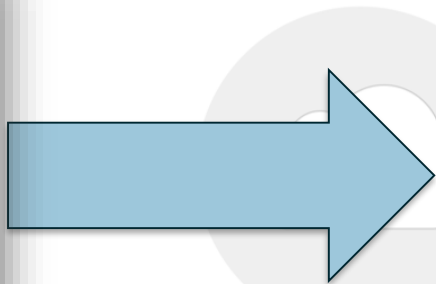
Collaborate



Designed for iPad Pro.

- when it has to be **right**

Leica
Geosystems



NEW Product Announcements



Leica Cyclone REGISTER 360



Leica Cyclone Cloud & TruView Cloud Services



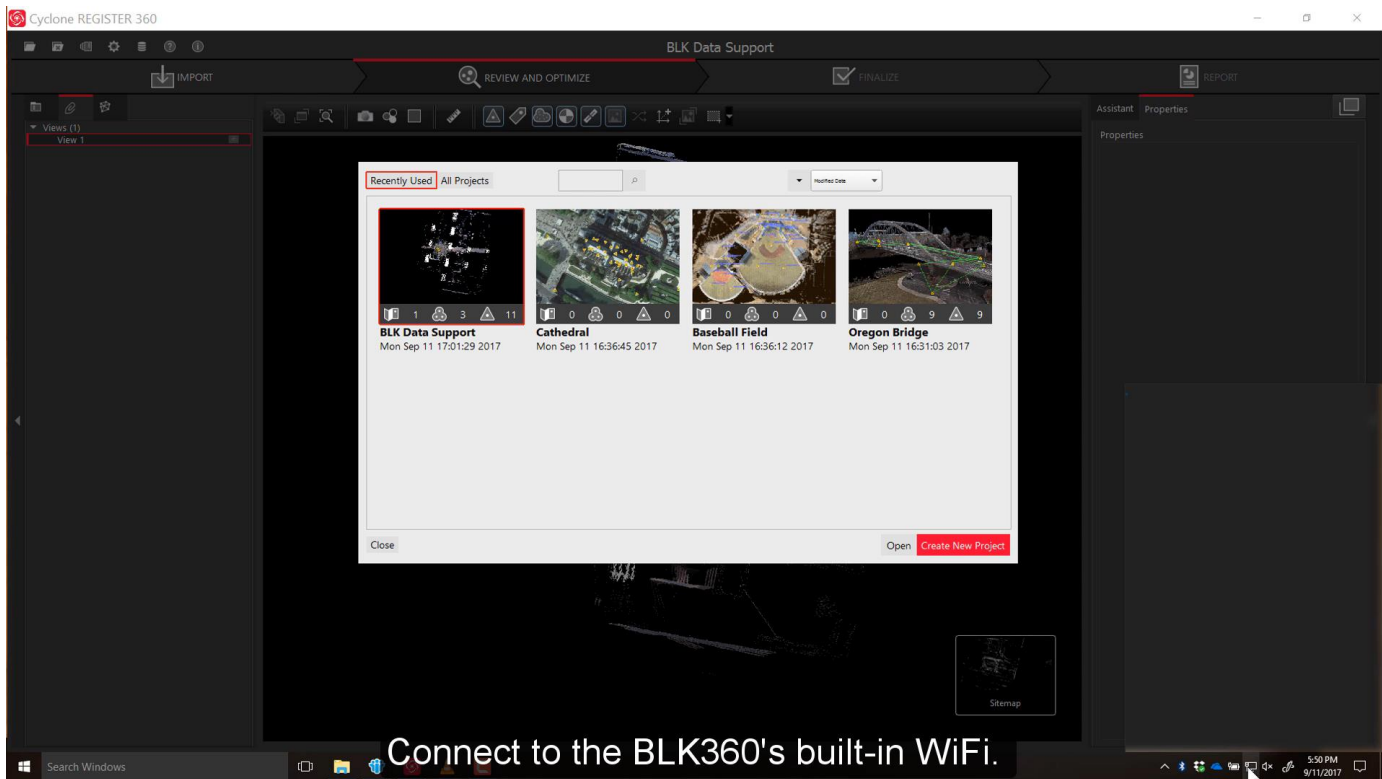
Leica Cyclone MODEL VR



Leica CloudWorx Ultimate
and CloudWorx Basic for 3DReshaper

- when it has to be **right**



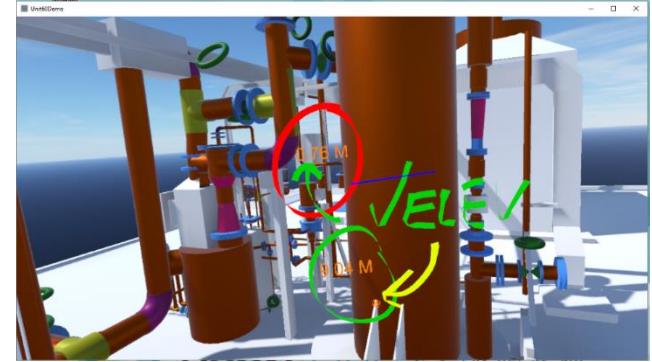


Connect to the BLK360's built-in WiFi.

Excited to Announce...

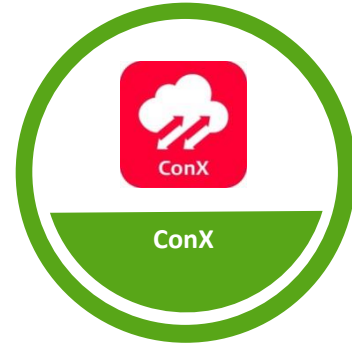
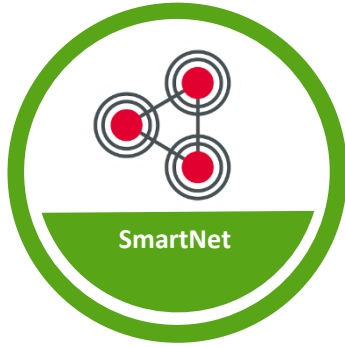
First VR Product compatible with HTC Vive

- Publishes Cyclone Models
- Free Viewer
 - Teleportation Navigation
 - Interactive Measuring
 - Markups - Simple text, shapes, arrows, etc.
 - Pick points to get Elevations & Pipe Diameters
 - Snapshots
 - GeoTags



- when it has to be **right**

Leica
Geosystems



TRUSTED SERVICES





@LeicageoJohn



John Kerrigan

Thank You

Questions?

