

# 塑造智慧变革



HEXAGON

海克斯康



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[2018.hexagonchina.com.cn](http://2018.hexagonchina.com.cn)

# Laser Scanning – Capture Today for Preparing Tomorrow

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11, 09, 2018

# Agenda

1. Leica Geosystems Reality Capture Solutions
  - a) Overview
2. Terrestrial Laser Scanning
  - a) Challenge
  - b) Technology
  - c) Applications
3. General Solution Categories
  - a) Hardware
  - b) Software
    - i. Field
    - ii. Office
4. Leica Solution Summary



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# Leica Reality Capture Solutions

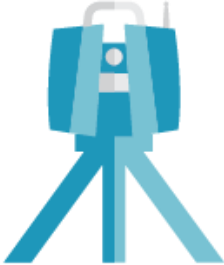
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Overview





# Leica Reality Capture Solutions



# Terrestrial Laser Scanning

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Is it mainstream?









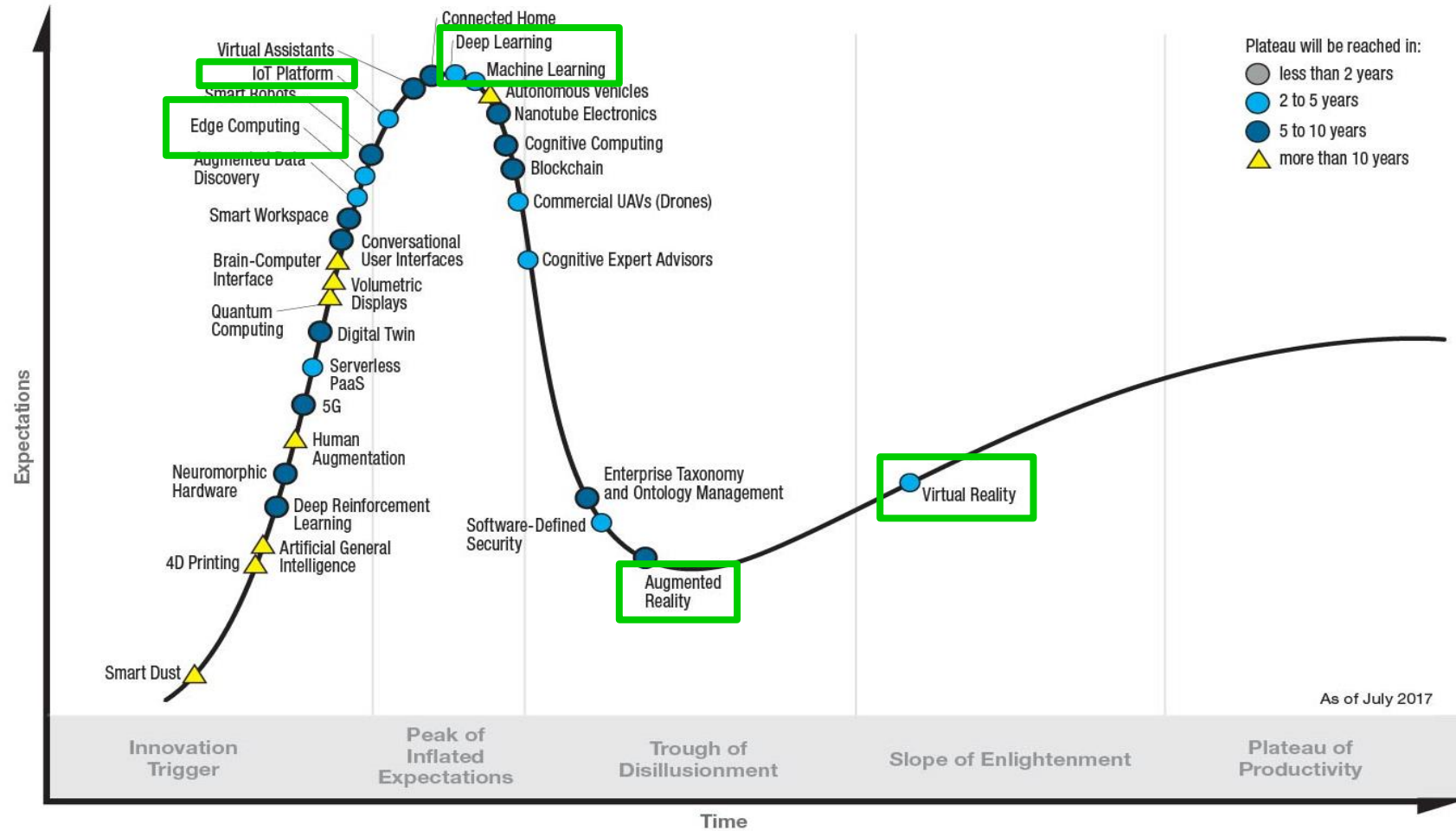
# Gartner Technology Cycle 2015



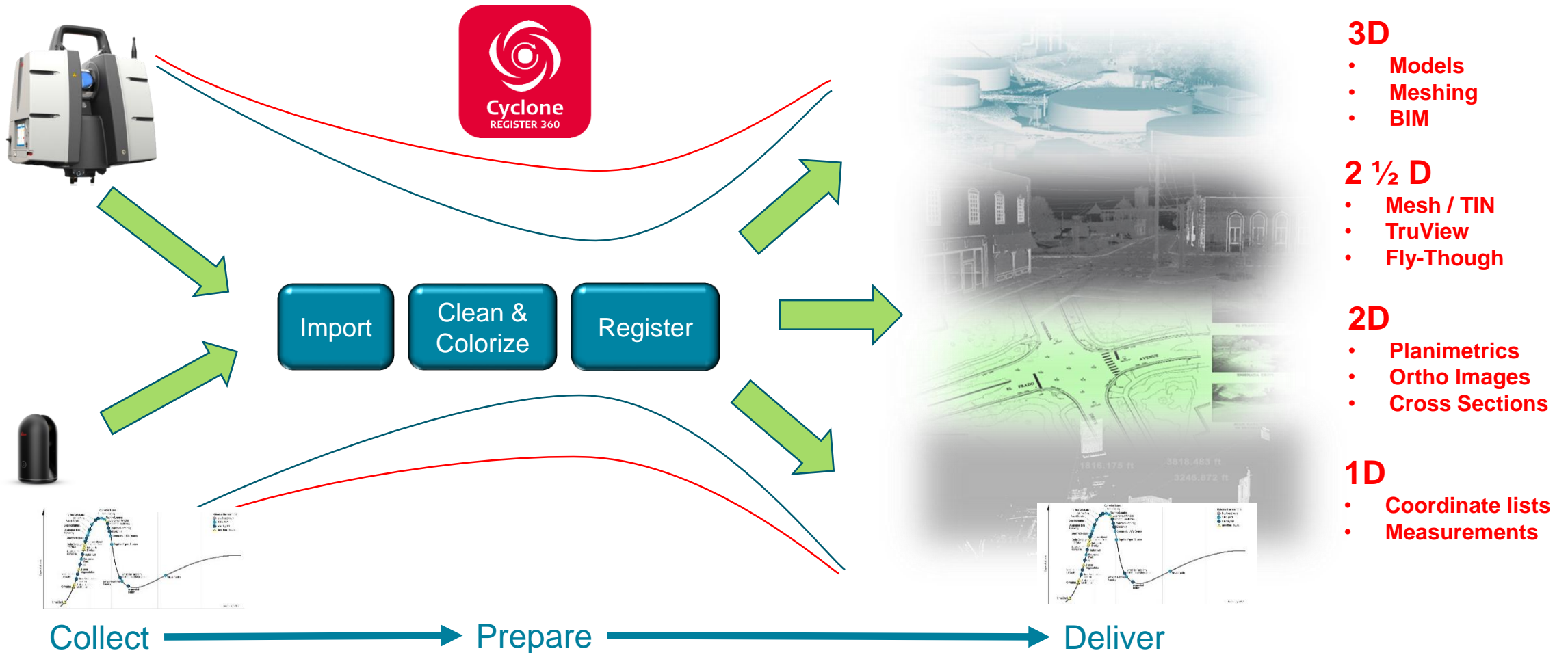
Plateau will be reached in:

- less than 2 years
- 2 to 5 years
- 5 to 10 years
- ▲ more than 10 years
- ⊗ obsolete before plateau

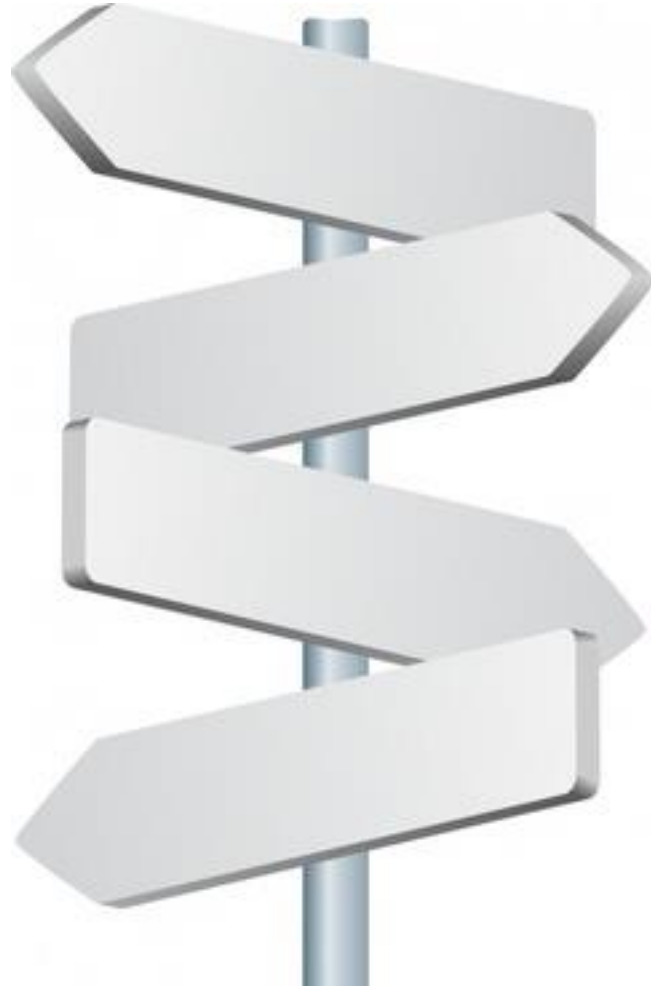
# Gartner technology Cycle 2017



# Scanning Work Flow – “Path to Money”



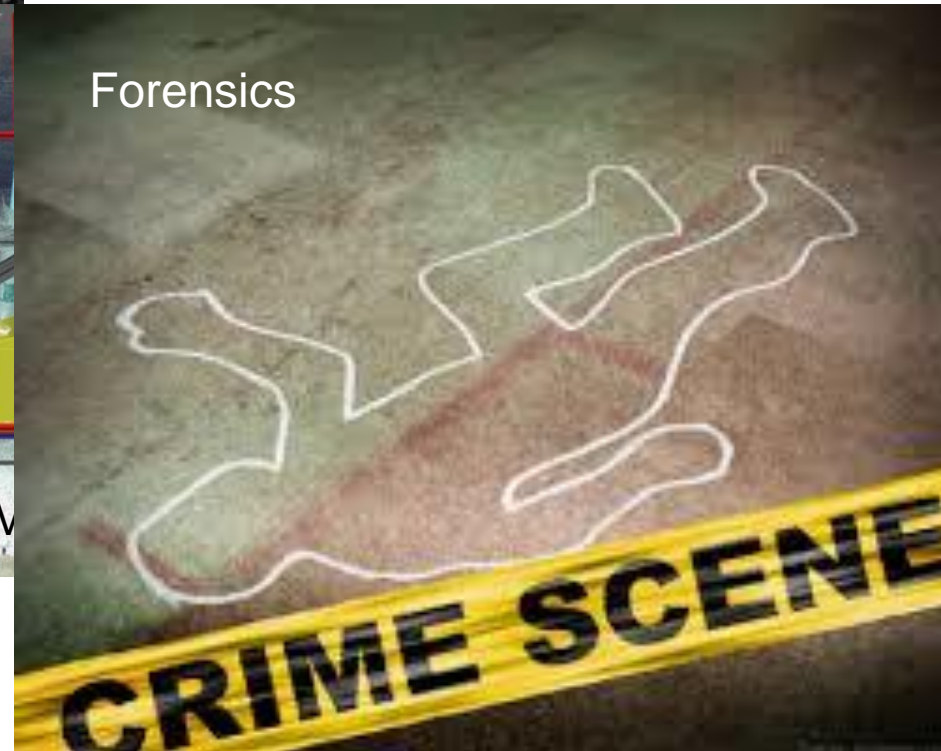
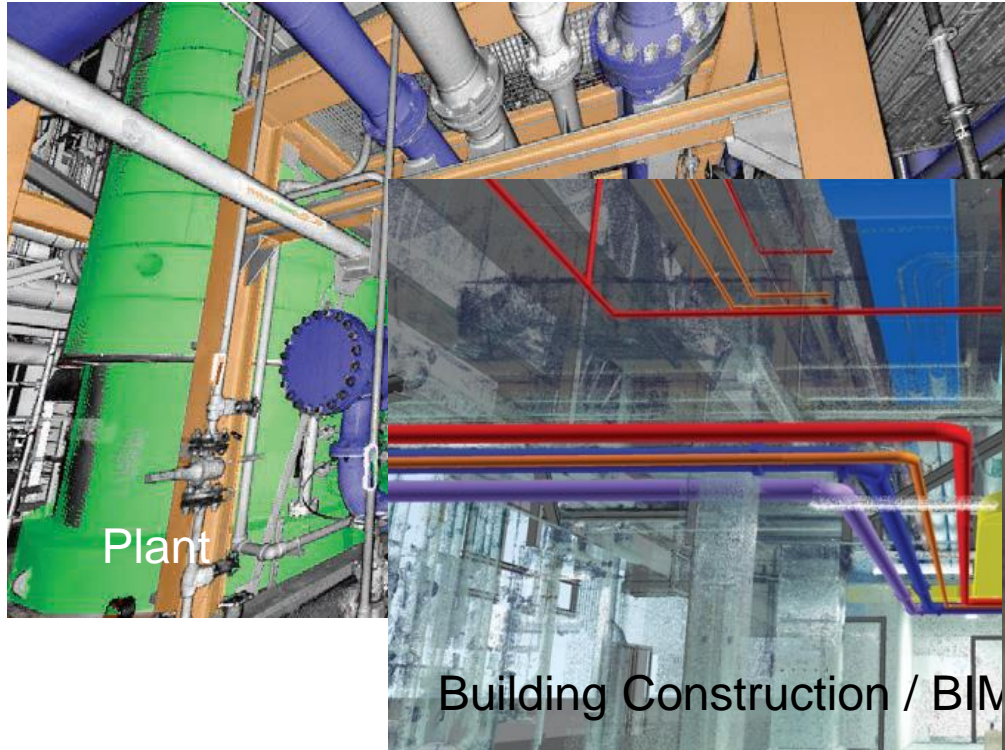
## Laser Scanning - where does it go?



...pretty much everywhere



## «Classic» applications for terrestrial laser scanning



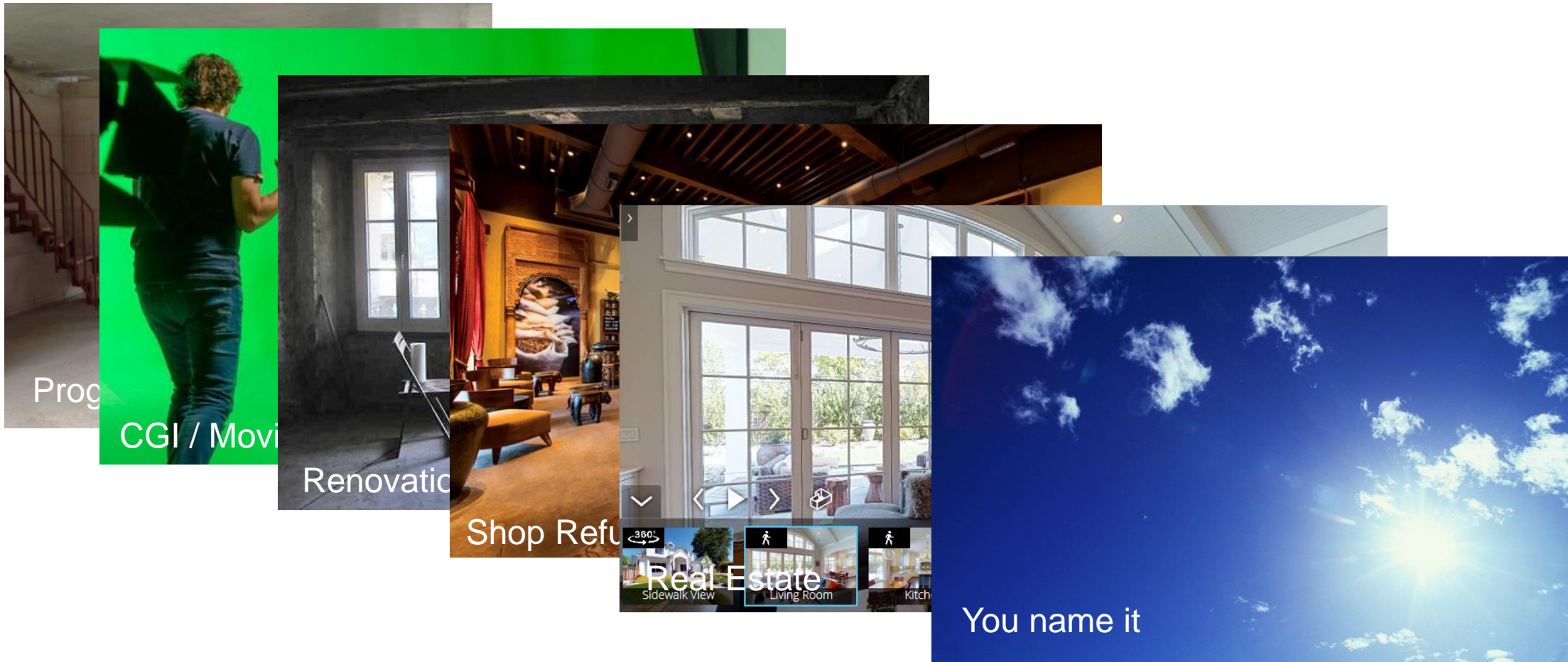


# Terrestrial laser scanning for «surveying» applications

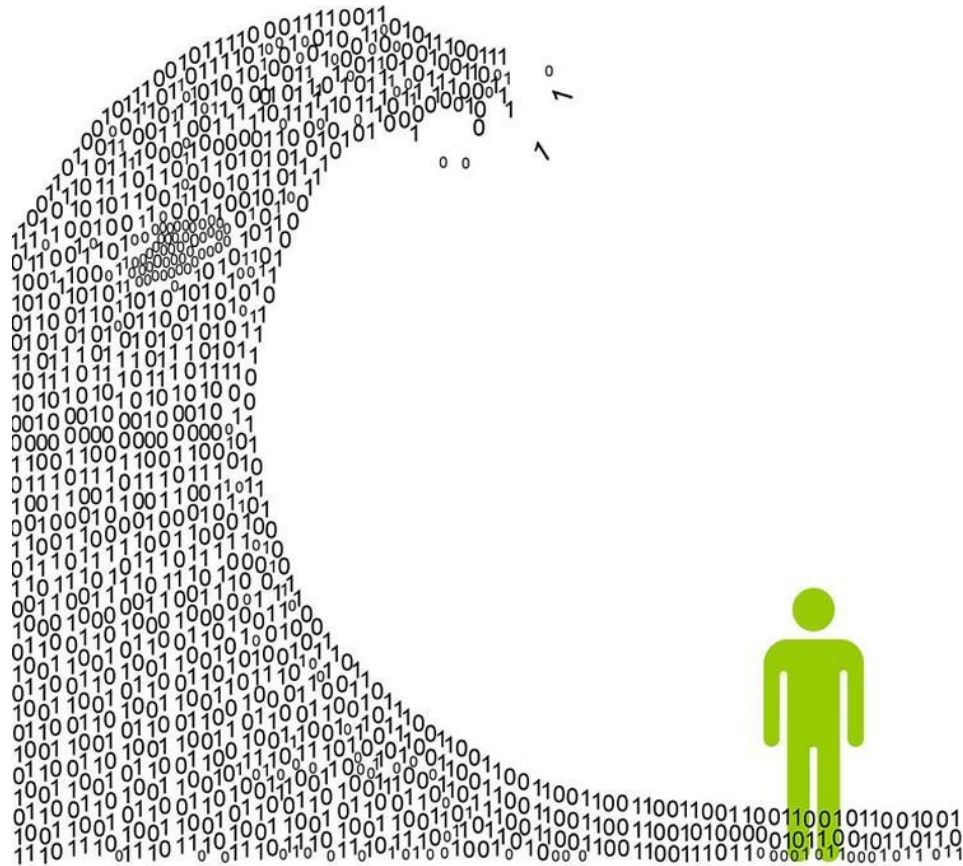




...but there is more



## Where does it go? - «Point Clouds for all people»



- Ease of use & accessibility drives adoption of 3D reality capture in general
- It tends to also create the impression that all sensors are the same
- 3D Laserscanners will fall more and more into two distinct categories
  - «Surveying» Scanners
  - Scanners for «3D Documentation»

## Solution Categories

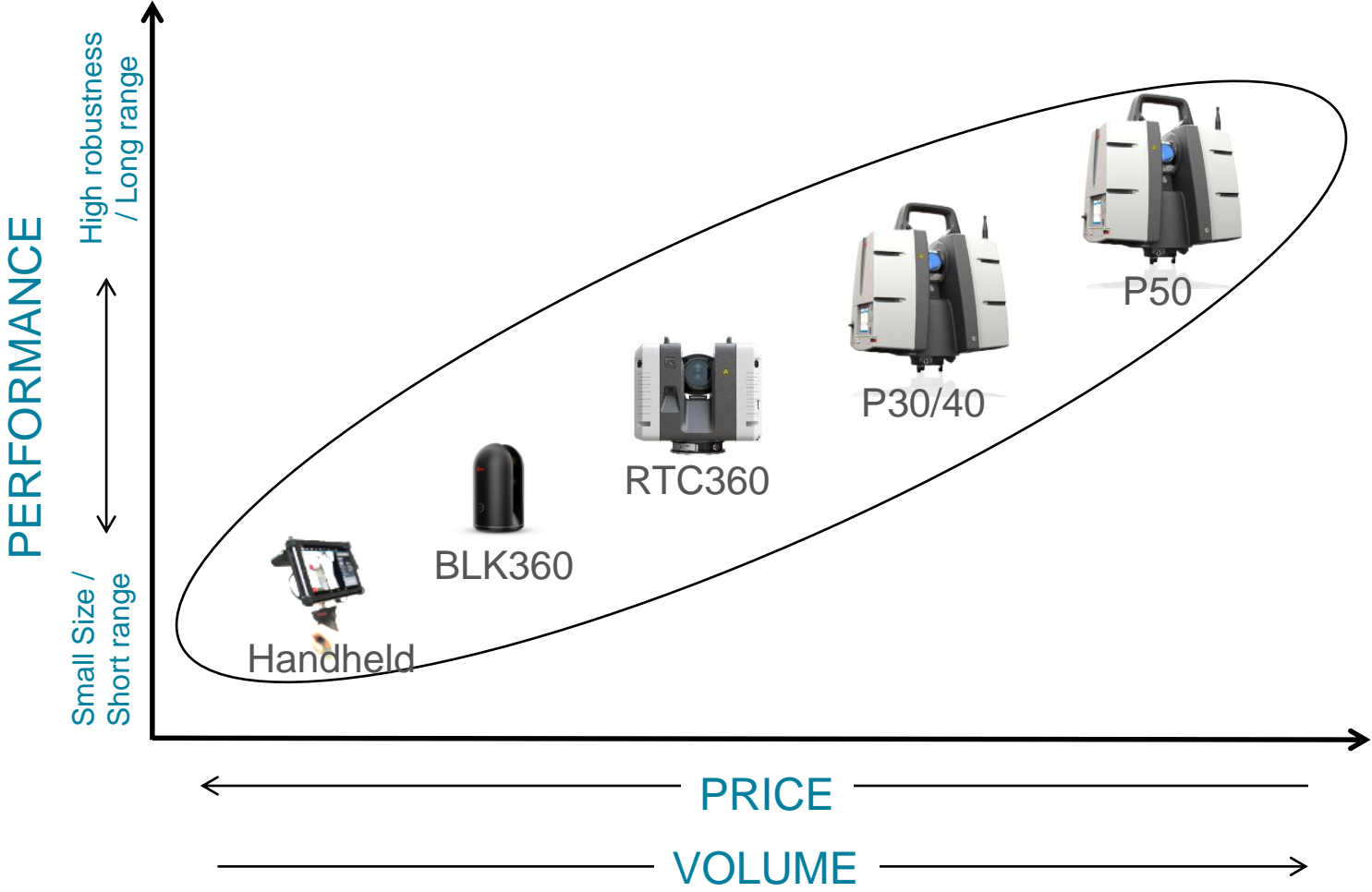
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trying to get structure into the world of laser scanners

# Terrestrial Laser Scanners today

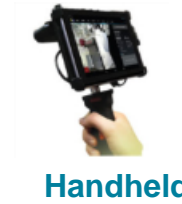


# Terrestrial Laser Scanning – Product Categories





# Terrestrial Laser Scanning – Product Categories



← Size, Weight, Robustness, Range, Price →

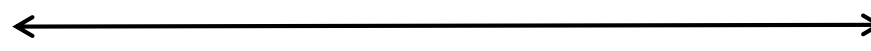
← Image utilisation →

← 3D data quality →

← «TPS» workflows →

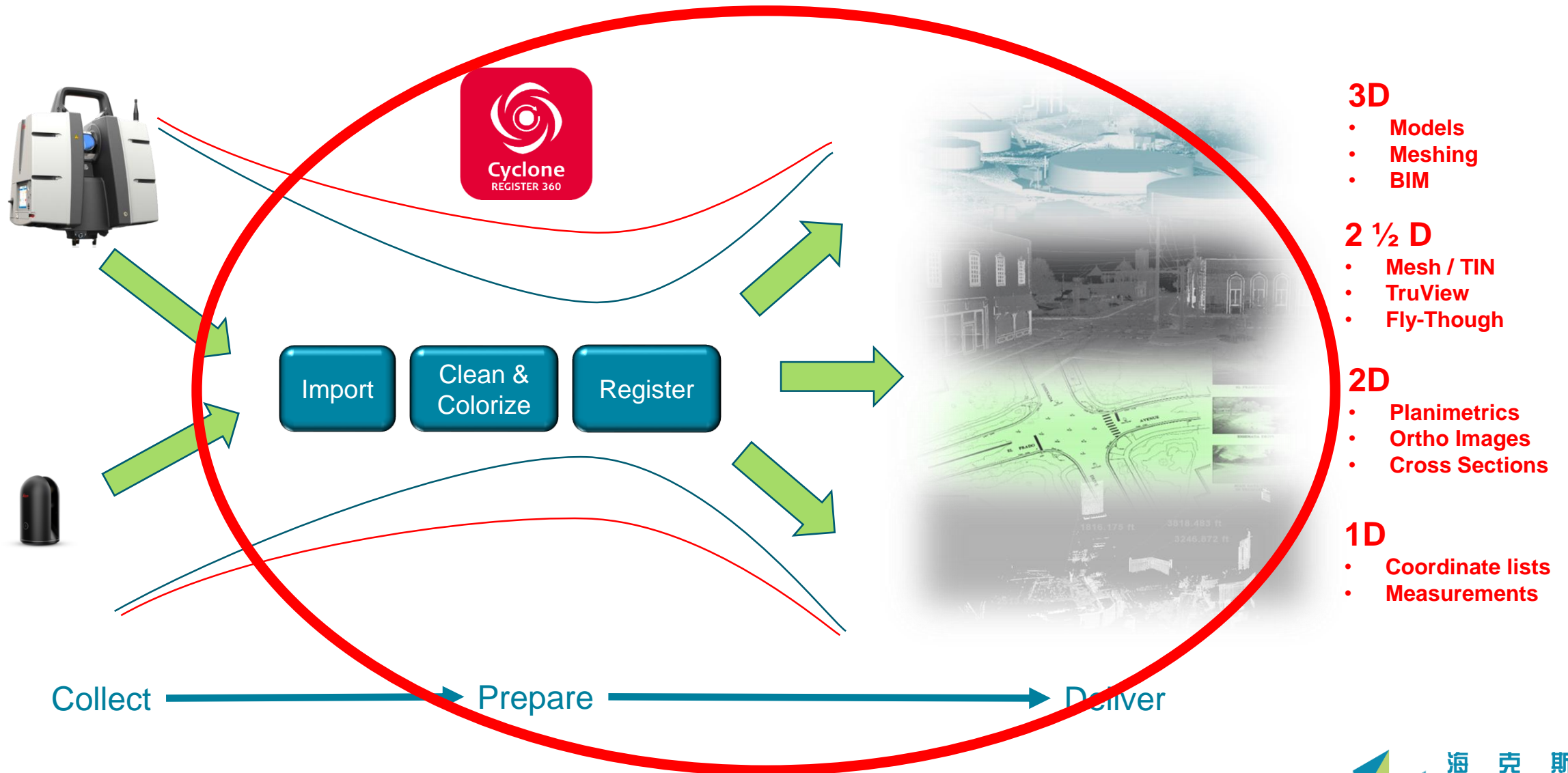
← «Camera» workflows →

«Surveying»



«3D Documentation»

# Reminder: Software is Key for Scanning Productivity

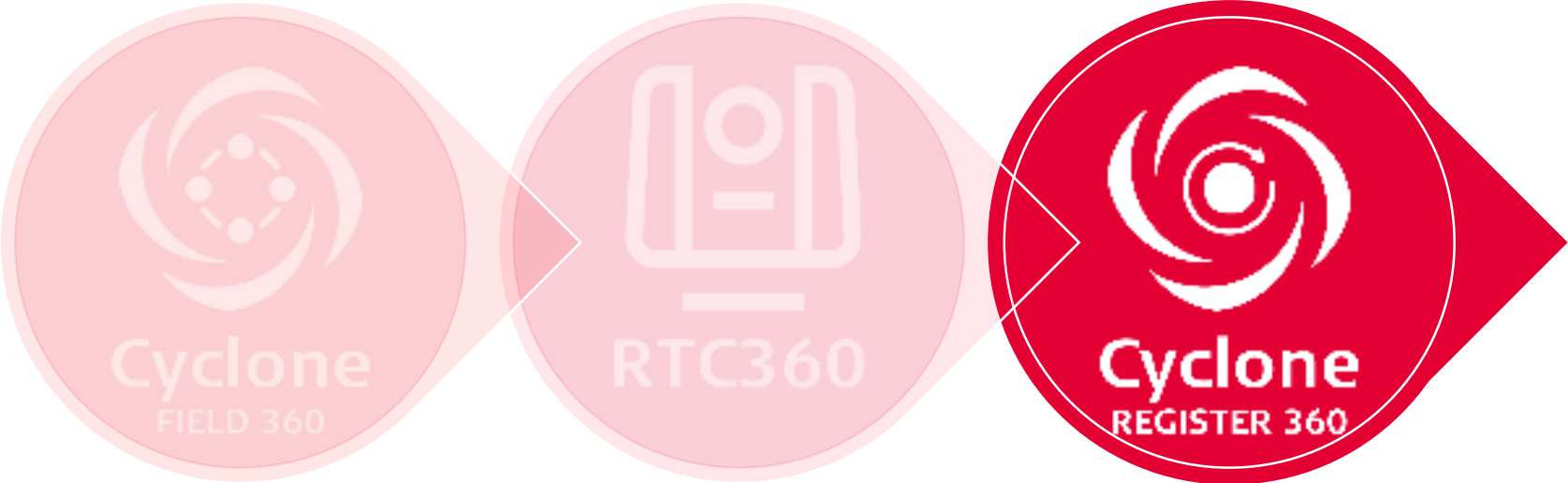








# Example: Cyclone Register360

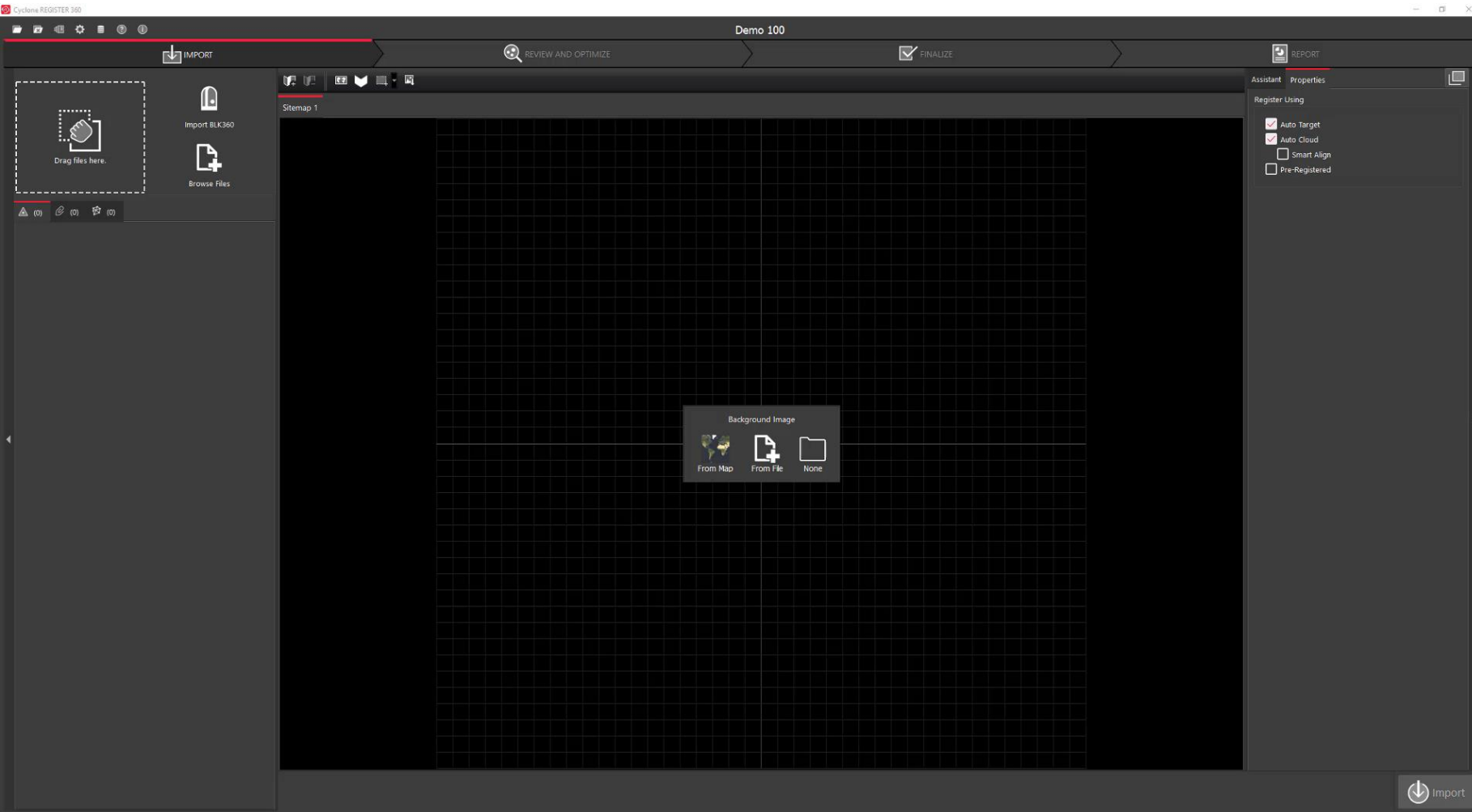


# Leica RTC360 Solution – Cyclone REGISTER 360

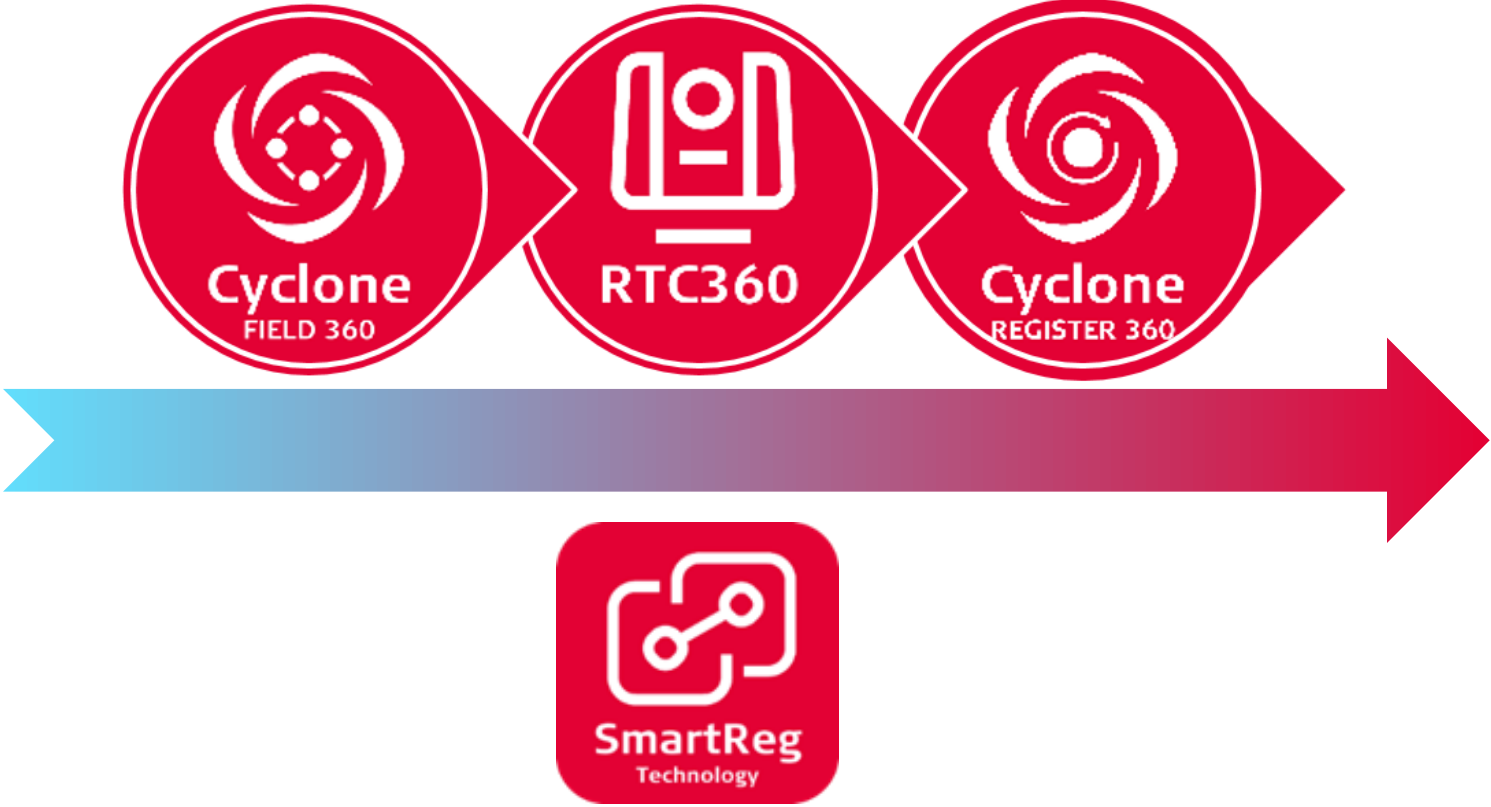


- DRAG
- DROP
- DONE

# Cyclone REGISTER 360 – Import & Registration



# Solution Example: RTC360 «SmartReg» Workflow



# Leica Geosystems Terrestrial Laser Scanning

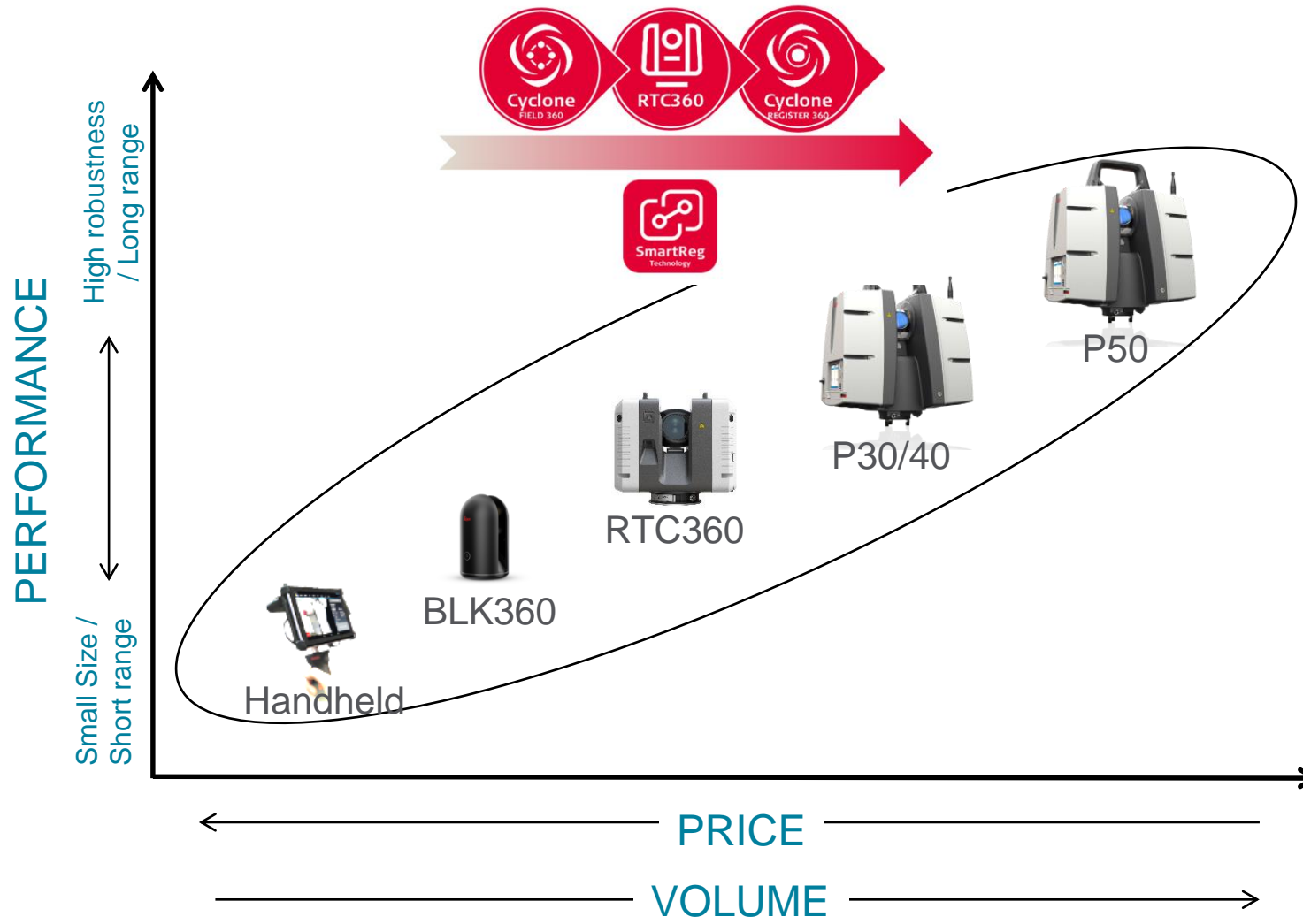
## Solution Overview

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A choice of solutions optimized for your special jobs



# Terrestrial Laser Scanning – Product Categories



# Terrestrial Laser Scanning – The right Tools for the right Jobs



P30/40/50



RTC360



BLK360



Thank You!





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