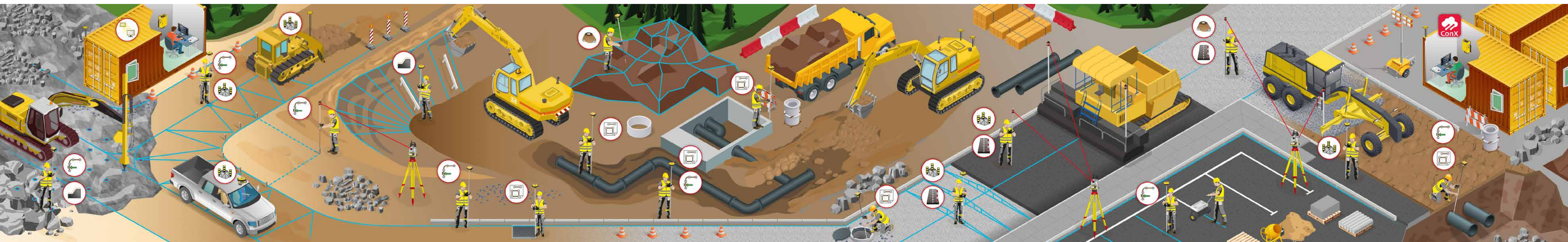


# Leica iCON site

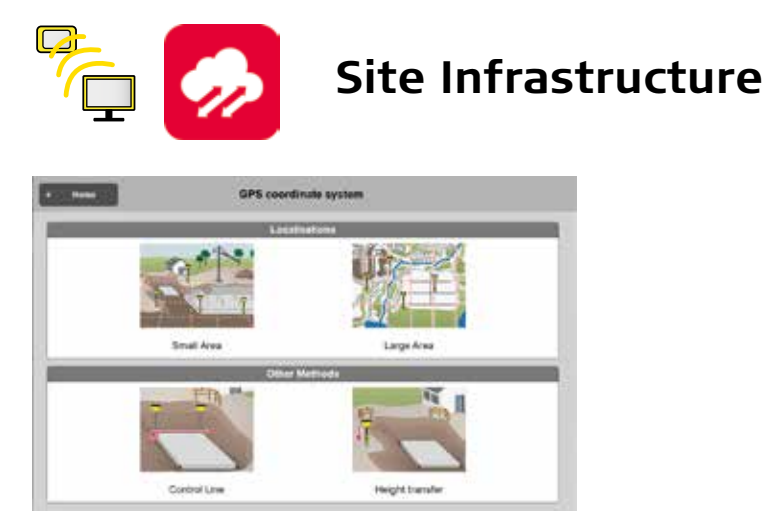
The complete solution for all positioning and measuring tasks on site



## Leica iCON. Understanding construction.

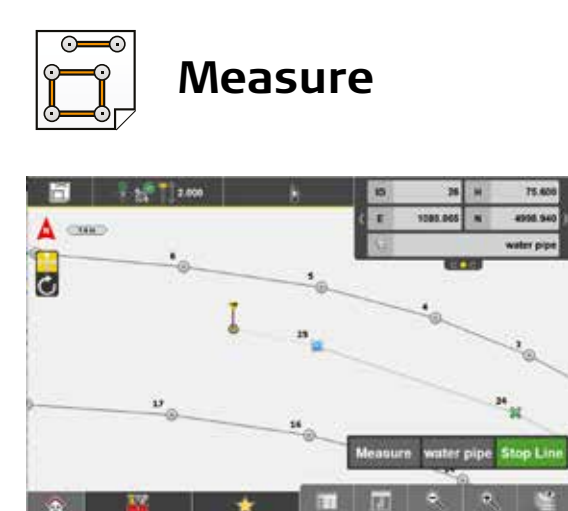
Leica iCON site provides unmatched versatility and flexibility. It enables you to carry out all positioning related tasks with just one solution. In addition, each iCON site application offers unique features and benefits, performance and accuracy.

**Customize and extend your iCON field toolbox.**  
iCON site is part of the unique iCON field toolbox, providing you with one solution for all your construction tasks across the entire job site. iCON field offers you the possibility to extend and customize applications according to your needs.



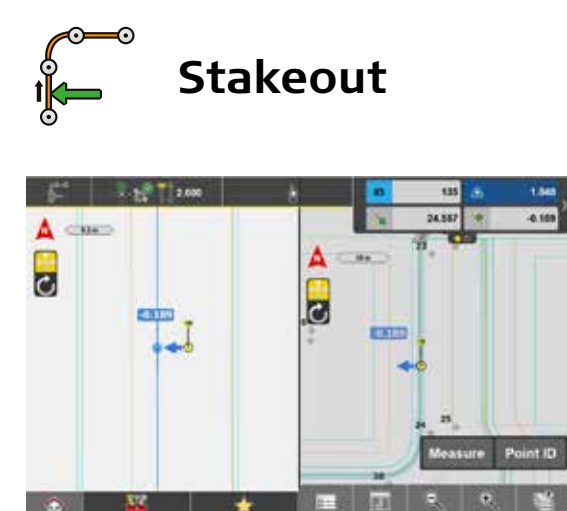
- Applications**
- Remote data transfer from office to field and vice-versa via Leica ConX.
  - 24/7 GNSS reference station on site container.
  - Transmit GNSS corrections via RTK Network.

- Benefits**
- Fast reaction on design changes.
  - Distribute coordinate system to all machines without machine visit.
  - RTK corrections for all GNSS rovers and machines on site.
  - No radio interference causing range limitations on site.



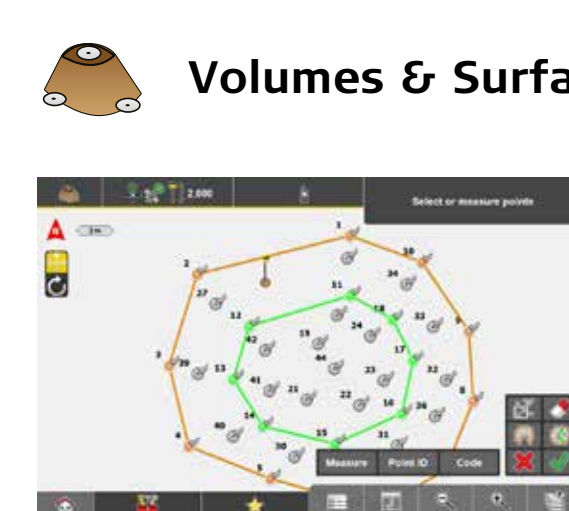
- Applications**
- Measure points, lines or arcs in one step with immediate graphical representation.
  - Apply codes and attributes per point. Capture images for points of interest.
  - Advanced automatic logging by distance or time.

- Benefits**
- Create 3D maps on the field as a basis for road construction work planning.
  - Store and share all necessary point information including images.
  - Improve speed of topographic surveys.



- Applications**
- Select reference points, centre lines, parallels or arcs directly from the map.
  - Apply horizontal and/or vertical offsets, including stationing.
  - Stake out points with use of a reference line.
  - Clear color-coded results shown for the applied tolerances checks.

- Benefits**
- Intuitive and simple element selection from the map for staking out.
  - Rebuild and extend incomplete structures.
  - Better orientation on site using reference to a line.
  - Increase accuracy and reduce human errors.



- Applications**
- Advanced automatic logging to densify the surface.
  - Add breaklines to the surface for natural modulation.
  - Calculate volume of a stockpile or pit.
  - Volume comparison between surfaces or to an elevation.
  - Apply compaction factor in relation to your material.
  - Read out balanced site elevation.

- Benefits**
- Quick surface creation with a quad bike or a 4 wheel drive vehicle.
  - Accurate and flexible volume calculation, independent of size, shape or material.
  - Balance out Cut & Fill for optimised material and machine usage.
  - Monitor the ongoing progress of your earthworks.



- Applications**
- Check actual surface against design surface or elevation.
  - Cross and long section view for foreman application.
  - Surface coverage with colour-coded Grid Logging.
  - Indicated machine guidance for Dozer and Scraper machines.

- Benefits**
- Optimise material savings by checking sub-ground elevation.
  - Better orientation using Cross and Long section views.
  - Easy identification of areas for adding or removing material.
  - Save costs by using the same positioning solution for On and Off machine use cases.



- Applications**
- Accurate stakeout of road design including points, road lines, cross sections and cross slopes.
  - Cross section view for better visibility and orientation.
  - Quickly adapt on design changes with hold of cross slope or applying horizontal and/or vertical offsets.
  - Create cross sections for road profile checks.
  - Road model creation from reference data.

- Benefits**
- Ensure high quality of constructed road.
  - Efficiently stake out road design.
  - Create accurate road models and share them with the machines.



- Applications**
- Cross section view for better checks on a defined slope.
  - Mark the design slope by installing a board onto two pegs.
  - Find the daylight line where the slope intersects with the existing terrain.
  - Find the daylight point where the line intersects with the existing terrain for pile ramming or drilling.

- Benefits**
- Easily find and mark the slope area for the excavation works.
  - Guide a Drilling or a Piling machine to the daylight point.

[www.leica-geosystems.com/icon](http://www.leica-geosystems.com/icon)



**Leica iCON CC70 & CC80**  
Robust, extremely lightweight field controllers with multi-touchscreen and versatile communication capabilities.



**Leica iCON gps 70 T**  
GNSS Rover featuring permanent tilt compensation, resistance to magnetic interferences and calibration free operation.



**Leica iCON gps 60**  
Versatile SmartAntenna for multi-purpose positioning tasks.



**Leica iCON gps 30**  
Compact and lightweight entry-level GNSS RTK rover.



**Leica iCON iCR80**  
High-end robotic construction total station with unmatched automated-aiming, lock and re-lock technology and iCON on board.



**Leica iCON iCR80S**  
High-end robotic construction total station with unmatched automated-aiming, lock and re-lock technology.



**Leica iCON gps 80 GNSS machine receiver**  
Versatile, powerful GNSS receiver for machine control.

- when it has to be **right**

**Leica**  
Geosystems