

## Digital tools for your industry and applications

### The Intersection Of Infrastructure and Technology

Many companies are at the crossroads of growing infrastructure demands and having the technology to meet them. It's a growth opportunity for any company willing to adopt the new technologies needed to stay competitive.

Integrate the right digital solutions for you and your company. Together, we can efficiently build the infrastructure needed for today and tomorrow.

### Topcon Workplace: Digital construction workflow tools

Topcon Workplace digital tools support both surveying and construction end-to-end workflows and put you in control of making smart and productive decisions. Make your jobs easier and more efficient with cloud connectivity between your positioning technology and everyone on your team.

We partner with global and regional industry leading companies to address your company's diverse digital needs and mixed fleet solutions. That means you can use the software you're comfortable with and combine workflows across platforms.

More than just software:

- Field-based sensor control
- Connection services
- Asset management
- Design and modeling creation
- Planning and oversight



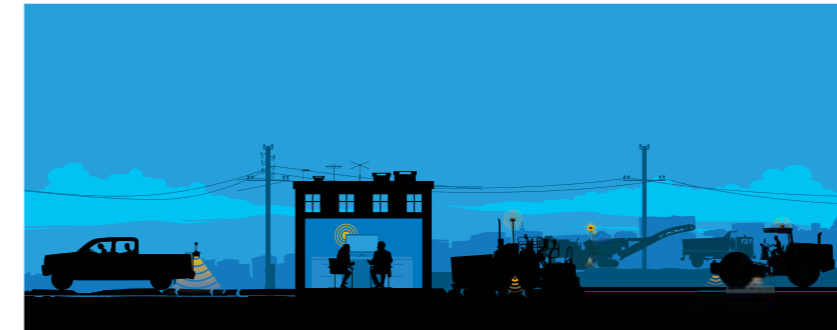
### Survey, Mapping and Inspection

Solutions that connect field and office in real time to get the most out of your data. Easily increase productivity and simplify data collection and processing workflows.



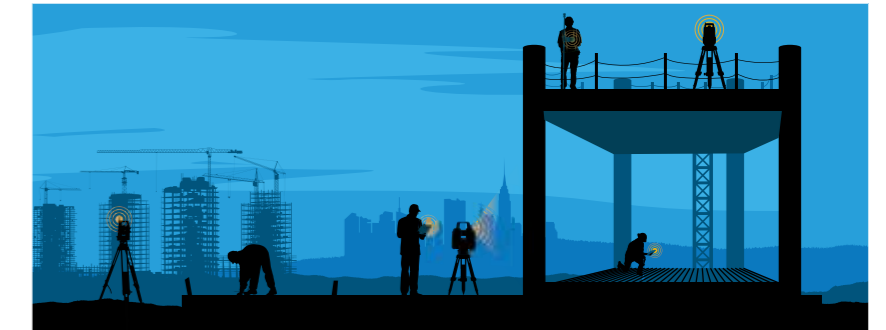
### Earthworks Construction

Solutions that prepare and execute your 3D design data and get the most out of machine control systems that doze, grade, and excavate to millimeter accuracy.



### Paving Construction

From milling to asphalt and concrete paving to final compaction passes, stay in total control on each phase of your project while maximising your data and resources.



### Vertical Construction

Simplify the layout process whether you start your workflow from printed plans, PDF's, or fully coordinated Building Information Models. Moving the construction data from the office to the field and back again has never been easier.





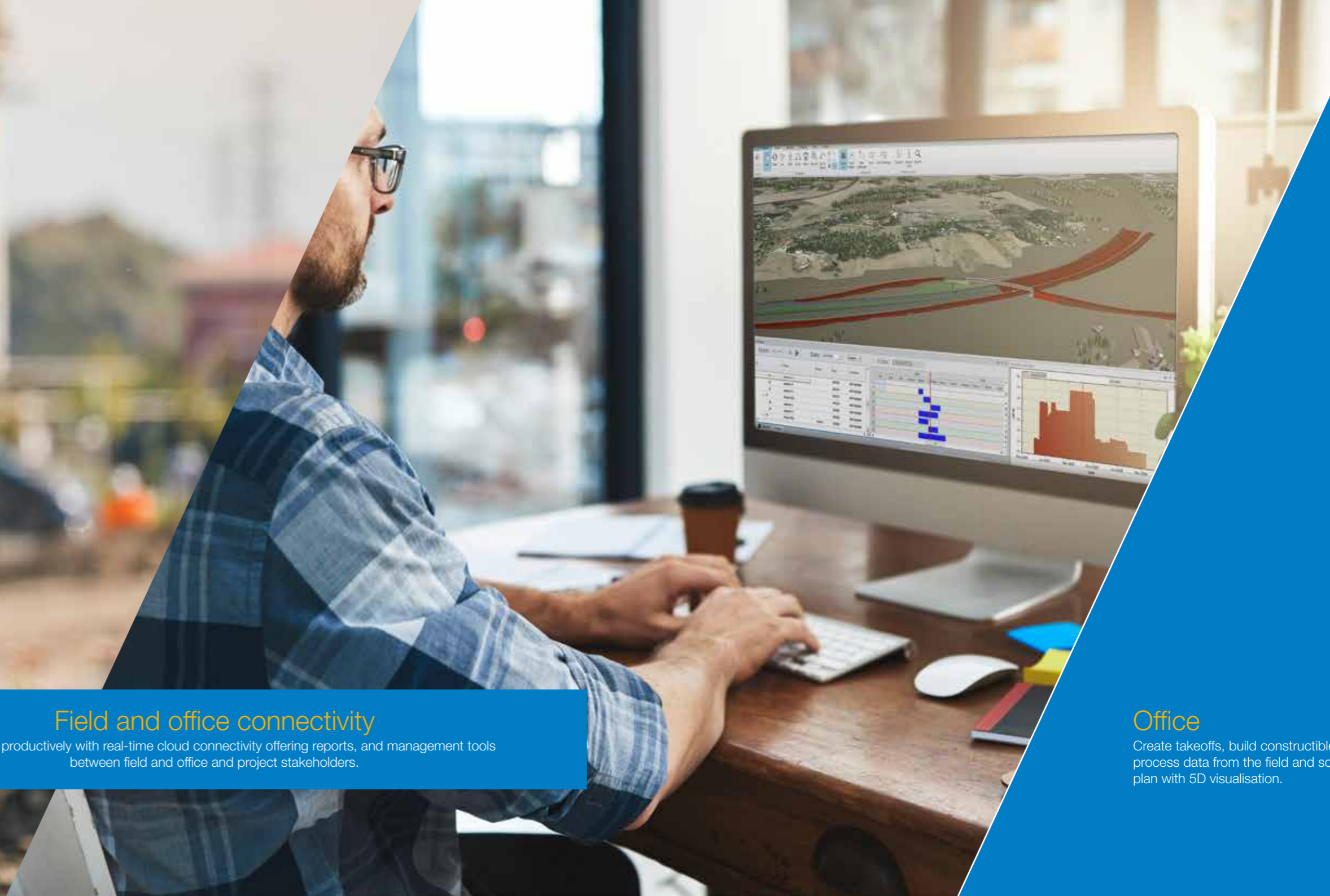
## Field

Develop infrastructure with precisely automated machine control guidance. Collect and utilise valuable data from GNSS, total stations, scanners, and UAV.



## Field and office connectivity

Work more productively with real-time cloud connectivity offering reports, and management tools between field and office and project stakeholders.



## Office

Create takeoffs, build constructible models, process data from the field and schedule and plan with 5D visualisation.



## Seamless Integration With Your Existing Software

We actively collaborate with global and regional industry leaders to better address your needs. Together with our partners, we deliver integrated solutions that improve productivity, efficiency, and profitability.



We partner with Bentley Systems to deliver integrated measurement, positioning, and software solutions that better connect and improve the workflows of surveyors, engineers, contractors, and owners working on infrastructure projects.

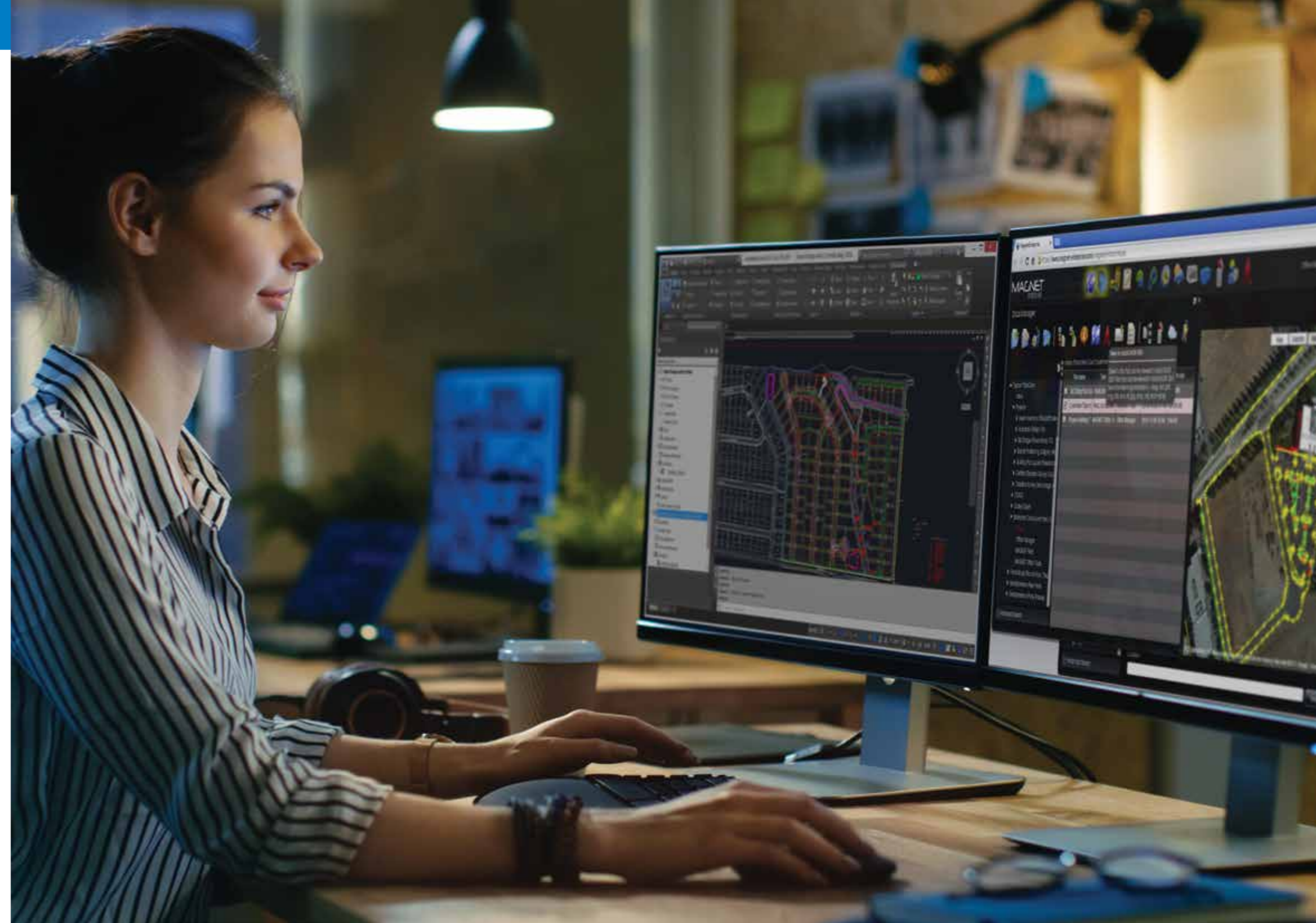
A direct cloud connection provides access to project data in real time, while compatible file formats make it easier to move data between software platforms without re-work. Integrated software for UAV mapping and inspection workflows deliver higher quality data and more insightful deliverables.



We partner with Autodesk to deliver measurement and positioning solutions to the vertical construction and civil earthworks industries.

These solutions form a tighter, more seamless connection between the office and the field, bringing increased efficiency and productivity to workflows. File compatibility, software integrations, and cloud connectivity are the key elements to delivering improved combined workflows.

**Together with our partners, we deliver integrated solutions that improve productivity, efficiency, and profitability.**





## Survey, Mapping, and Inspection

Solutions that connect field and office in real-time to get the most out of your data. Easily increase your productivity and simplify data collection and processing workflows.

**Applications include: stakeout, as-build, road and sitework, deformation monitoring, topographical maps, inspection, scan and UAV data processing, mass data web-based collaboration.**

### Field



Field

Collect survey mapping data and perform construction and road layout using total stations, levels, and GNSS receivers.

- Graphical intuitive software with low learning curve
- Direct connection to secure company account
- Microsoft Bing Maps® for satellite image background



Construct

Mobile app control of robotic total stations and GNSS with phone or tablet.

- For use with Apple iOS or Android OS devices
- Simple, easy-to-use interface
- Secure data transfer, both to and from the field



Enterprise

Connect field to office and get results to managers and supervisors in real-time.

- Easy creation of geo-referenced projects
- Direct transfer with Bentley ProjectWise and Autodesk's BIM 360 service
- Graphical map view of all project related files



### Industry leading file support

Bring in design files or third-party data directly to a field controller or via office software with minimal conversion effort or data loss.



### Your work connected

MAGNET® Enterprise is a secure web-service with unlimited file storage that advances connectivity, provides data oversight, and connects to thirdparty applications.



**MAGNET® software leads the industry with compatible file support**



## Spotlight

### Elite Survey Suite

This hybrid positioning solution makes your jobs faster and easier. The suite includes the GT series robotic total stations, HiPer HR hybrid GNSS receiver, FC-5000 field computer and MAGNET® software system. It's a fully integrated into the field-to-office workflow, so you can handle the measurement needs of the modern job site.

Taken together, each individual hardware element combined with MAGNET software running on Windows® software form a unique and powerful productivity tool. MAGNET software streamlines your most-used routines and assures a fast and easy data connection from office to field to office.



## Office



### Survey

Produce finished surveys with customisable drafting, design, and processing tools for property plots, subdivision design, and land development projects.

- Full sub-division design tools
- Contour and surface creation, volumetrics, and automated pad design
- User defined title blocks, symbols, and linetypes



### Tools

Data processing software that generates final coordinates from measurements taken using MAGNET Field and Pocket 3D software driving any of our total stations, digital levels, and GNSS solutions.

- Process GNSS and total station field measurements
- Visualise field work in Google Earth, 3D orbital view, CAD view, and more
- Create code libraries and generate customised reports



### Delta Watch Monitoring

A modular solution to monitor, manage, and evaluate automatic and/or manual monitoring data.

- Perform computations, alerts, and customised reports
- Observe, assess, and better understand and manage risk
- Notifications sent when measurements exceed thresholds

## Featured Integration

### Autodesk Civil 3D integration

MAGNET software integrates seamlessly into Autodesk's AutoCAD Civil 3D. Immediately transfer survey data from MAGNET to Civil 3D with a single button click. Conversely, the Exchange for Autodesk plug-in inserts a MAGNET ribbon directly into Civil 3D enabling cloud-based data transfer to mobile field crews or machine operators using Sitelink3D.



## Earthworks Construction

Solutions that prepare and execute your 3D design data and get the most out of machine control systems that doze, grade, and excavate to millimeter accuracy.

**Applications include: machine control and grade management, takeoff for site and road, 3D model building, real-time progress reporting, and construction planning.**

### Machine Control and Grade Management

Topcon Workplace includes our machine control software that's popular with the crews on the job site. 3D-MC, Pocket 3D and 3D Office help make dozing, excavating, grading simple and efficient.

#### Field



3D-MC

Produce finished surveys with customisable drafting, design, and processing tools for property plots, sub-division design, and land development projects.

- Full sub-division design tools
- Contour and surface creation, volumetrics, and automated pad design
- User defined title blocks, symbols, and linetypes



Pocket 3D

Get the power of GNSS based site management for foreman and grade checkers. Easily verify grades, reset stakes and locate utilities. Create machine control files from scratch on site.

- Most intuitive user interface in the industry
- Check grade, verify cut and fill
- Calculate volume quantities and as-builts

#### Office



3D Office

Create, edit, import/export, design, and prepare 3D job files for any job site.

- Export files to control box for immediate use in the field
- Import/Export 3D-MC files
- Import/Export road alignments



### Tokara

At Position Partners, we recognise that every project, site and customer has unique requirements, so we have created a modular solution to meet the evolving demands of your business.

Tokara is a scalable and expandable remote service and tracking system that uses both web and server infrastructure to provide a versatile, optimisation of your site and fleet of machines.

Tokara is a turn-key service providing an easy way to manage all your site and fleet information.

With the power to monitor, service and control your assets from the office and in real-time, Tokara™ guarantees a safer and more efficient working environment.





## MAGNET Office Construction Software

Software solutions from planning and oversight to preparation and execution of your 3D models. MAGNET Office software improves construction execution and connects directly to the field with Enterprise cloud integration.



### Project

A complete estimating and planning software package for earthwork construction.

- Map-based planning
- Intelligent production forecasts
- Optimised traffic planning



### Construction

A complete tool set for estimating and preparing site and road construction.

- Import and export multiple file formats
- Automated pad design with automatic site balance
- Direct connection to Sitelink3D service



### Site

A feature-rich constructible model building software solution for any machine control, land development, and road design project.

- Elevate 2D designs into 3D models
- Multiple volume routines
- Automated data cleanup



### 3D Exchange

Create, edit, import/export, design, and prepare 3D job files for any job site. 3D Exchange provides full file conversion and light model building capabilities.

- Import multiple industry standard formats
- Export to any Topcon machine control format
- Remote connect, file transfer, and messaging available



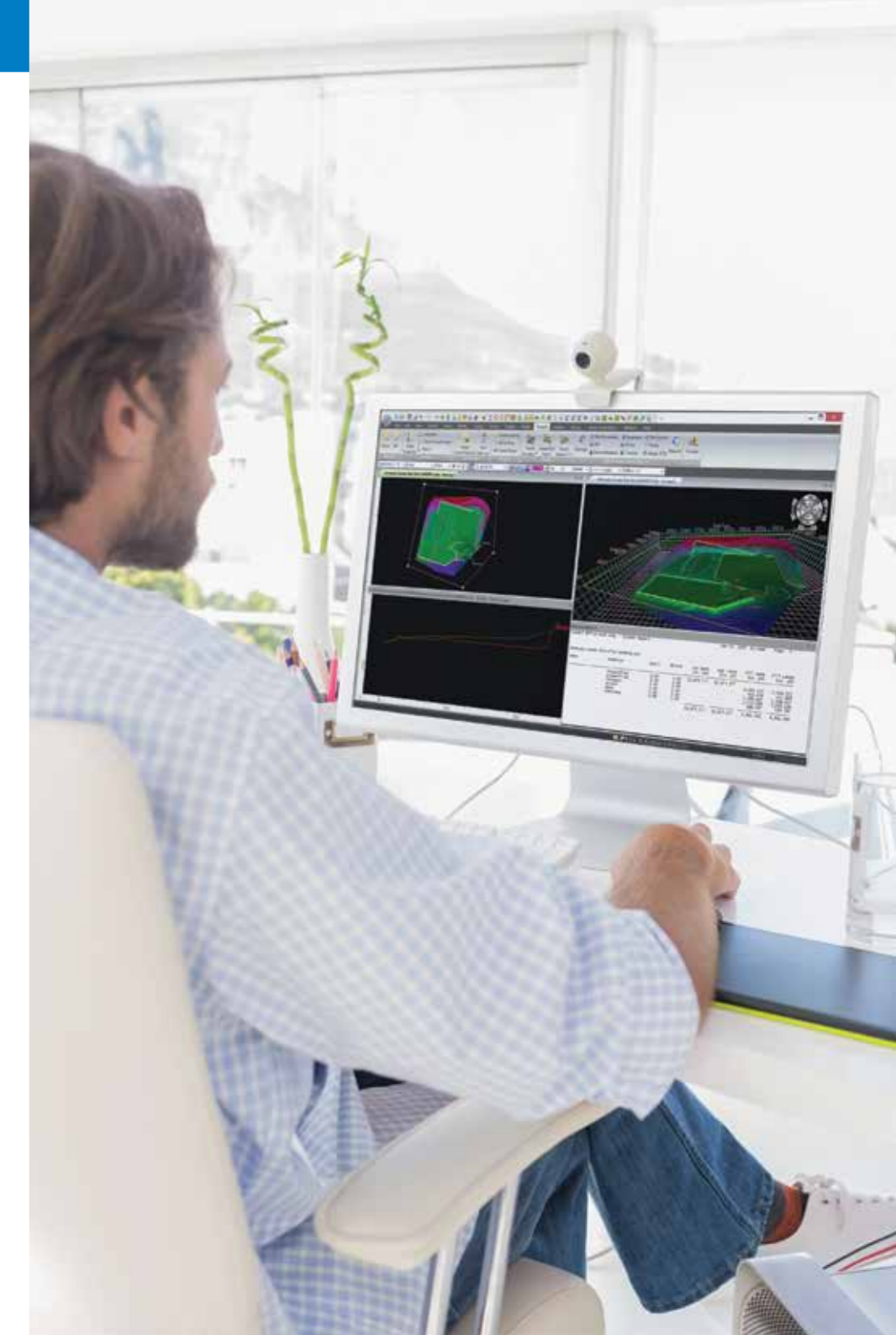
### Estimation, Model Building, and Data Prep

Bring your plans construction plans to life with confidence. Enter site specific construction materials and quickly build design surfaces, create cost and volume reports, and develop 3D models. Now you can bid and manage each project quickly, accurately, and successfully.



### Construction Management

Reduce risk while scheduling and planning more efficiently on your large scale construction and earthworks projects. Easily calculate mass haul distances, adjust the schedule, and update quantities or production rates. Our user-friendly software includes BIM for infrastructure capabilities such as clash detection and 5D value-based planning that benefits every phase of your project.



**MAGNET® Office software connects directly to the Field with Enterprise cloud integration**



## Paving Construction

From milling to asphalt and concrete paving to final compaction passes, stay in total control on each phase of your project while maximising your data and resources.

**Applications include: machine control, road surface scanning, resurfacing design and progress reporting.**

### Field



3D-MC

An easy-to-use interface for the operator, providing unmatched machine control ability.

- Increases productivity
- Easy to upgrade
- Backwards compatible with existing Topcon MC systems



Pocket 3D

Get the power of GNSS based site management for foreman and grade checkers. Easily verify grades, reset stakes and locate utilities on site.

- Most intuitive user interface in the industry
- Check grade, verify cut and fill
- Calculate volume quantities and as-builts

### Office



Collage

Import your 3D paving scan data, including adjusting density, smoothing, and reducing file size and then export data to office.

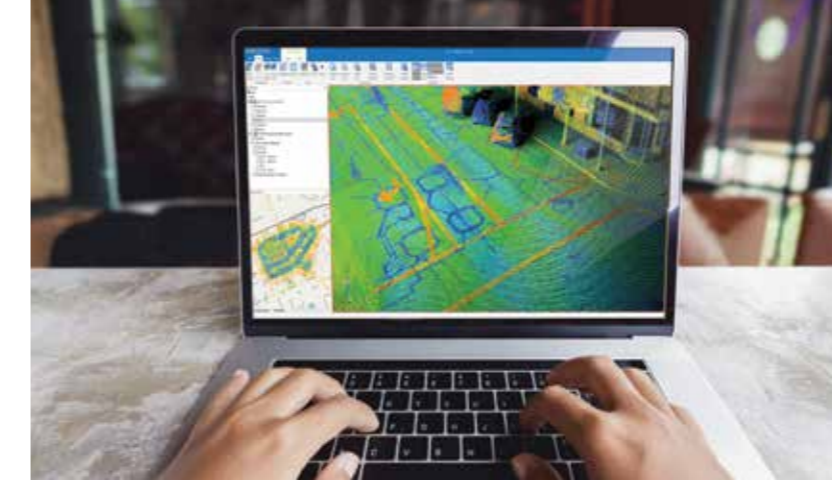
- Process data from RD-M1 vehicle mounted scanner
- Adjust data density and filter noise
- Fully prepare data for resurfacing design



Construction

Analysis and design tools for road surface projects for the most cost-effective milling and paving, saving heavily on material usage.

- Import dwg/dxf, text, PDF, and many more file types
- Fast calculations, cross slopes, transitions and smoothing, milling and lifts
- Instantaneous material quantities



## SmoothRide Asphalt Resurfacing

The world's most advanced road resurfacing hardware and software solution. With SmoothRide you have one seamless workflow to scan, design, mill, pave, and compact, all tied together by MAGNET Workplace.

The need for traffic lane closures is gone, quick 3D scanning replaces hours of cross-section measurements, and our intuitive software delivers better results throughout the resurfacing process.

Save time, lower costs, and increase safety, all while improving the results you deliver.





## Vertical Construction

Simplify the layout process whether you start your workflow from printed plans, PDF's, or fully coordinated Building Information Models. Moving the construction data from the office to the field and back has never been easier.

**Applications include: MEP layout, interior layout, concrete layout, quality control, as-built scanning.**

### Field



#### Field Layout

Get your robotic total station going from paper plan or 3D model to building layout faster than ever.

- Intuitive and graphical building layout menus
- Large file format support including DWG
- Fast creation of design points from lines



#### Construct

Mobile app control of robotic total stations and GNSS with phone or tablet.

- For use with Apple iOS or Android OS devices
- Simple, easy-to-use interface
- Secure data transfer, both to and from the field



#### Enterprise

Connect field to office and get results to managers and supervisors in real-time.

- Easy creation of geo-referenced projects
- Direct transfer with Bentley ProjectWise and Autodesk's BIM 360 service
- Graphical map view of all project related files

### Office



#### Layout

The ideal CAD software solution for making points from objects and confidently taking a building plan into the field for layout.

- Create points for construction layout applications
- Convert PDF files into vectorized linework
- Flexible CAD Functionality



### Field Layout with Autodesk compatibility

If you are working with Autodesk software including Revit, Navisworks, or AutoCAD; then Autodesk Point Layout software can be used to create layout location points files directly in the MAGNET Field software format.



### Mobile solutions for iOS and Android

The construct mobile app is ideal for BYOD (bring your own device) users seeking better job site layout productivity. Construct software provides a streamlined workflow with graphical real-time positioning to any point, line, or feature.





## Spotlight

### GLS-2000 with Collage and ClearEdge3D software

The GLS-2000 scanner, utilising Collage software for data processing and ClearEdge3D Edgewise for scan-to-BIM feature modeling, is an accurate, faster workflow for as-built scanning. Create models from scans of pipes, structural elements, ducts, conduits, and more.

Collage software also integrates with ClearEdge3D Verity to evaluate construction quality and provide as-built tolerance by comparing the point clouds against design and fabrication models. This approach yields 100% verification in the time it takes to spot check 5%.







## Employee Training Helps Your Business Grow

Employee training is a valuable investment in the growth of every business. When equipment or software is first delivered, users typically receive basic instruction and advice from suppliers to get them 'up and running.' Once the basics are mastered, however, they will benefit greatly from further training to learn the full system capabilities so that they can optimise their performance and increase output.

Campus training courses give customers the ability to improve their knowledge through formal structured learning and are combined with field exercises where appropriate. Course costs are kept to a minimum so that they are an affordable way for customers to improve their skills whilst maximising benefits for their company.

## Support

Position Partners offers a range of in-depth, tailored Support Packages to our customers.

These Support Packages include both telephone and site-visit responses from our Technical Support team, with various packages able to be tailored to suit your needs.

Casual, medium and long-term support packages are available upon request.

For more on our support packages please call your local Position Partners office.



## AllDayRTK: A National CORS Network

AllDayRTK is a national CORS network solution that benefits all industries requiring accurate, reliable GNSS positioning. AllDayRTK delivers cm-level accuracy anywhere within a networked area, eliminating the need to setup and maintain a temporary base station.

Position Partners has established an extensive network of Continuously Operating Reference Stations (CORS). In addition, we have collaborated with network RTK providers right around Australia, including state-owned infrastructure networks such as CORSnet and VICpos.

AllDayRTK provides a seamless link between these networks to bring you the most comprehensive network RTK solution available.

The AllDayRTK tailored products are designed for maximum flexibility and best value to meet a variety of our customers' needs:

- PLUS – a premium national product that includes access to multi-GNSS signals, from to all available CORS, with RINEX data for post-mission and web-based support tools;
- ADR – purpose built positioning infrastructure in high activity areas. Provides purpose built positioning infrastructure for customers working in high activity locations nationally, which saves you the time and expense of establishing your own base stations;
- SITE – flexibility to choose a site package suitable for combinations of multiple machines and time periods;
- RINEX – customers who only require post-mission RINEX products;







**Shaping New Dimensions**

**1300 867 266**

[www.positionpartners.com.au](http://www.positionpartners.com.au)

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