

For Mobile Mapping

Trimble Business Center Office software
June 2026

Mobile mapping field-to-finish workflows with confidence

Leverage the power of mobile data along with other raw geospatial and construction data in a single, robust software environment to confidently deliver project after project with Trimble® Business Center (TBC) office software. With your professional reputation, financial well-being and requirements on the line, use TBC's capabilities to aggregate your mobile mapping data with other survey data and stand out to your clients.



+ Data integration

In a single software package, combine raw measurements from your Trimble mobile mapping system then, add in data from GNSS, total stations and levels, unmanned aerial vehicles (UAVs) and terrestrial laser scanners, all of which is scaled to your survey data. No need to import and export between multiple software packages. No need for training, renewals or support for different applications from different providers. TBC provides the capabilities you need to deliver accurate mobile mapping and survey data.

+ Confidence-inspiring results

Work with the raw mobile mapping sensor data to optimize point cloud generation and produce deliverables. Process trajectories, register mobile mapping data to control points, or run to run. View panoramic images. Extract classified point cloud regions and use ground classified points to create ground surface models. Use measure and cutting plains to QA/QC your data. Run automatic road pavement inspections and IRI report generation. Visualize your data in context with Google Earth™ or import open (WMS) background maps and imagery. Don't put up with fragmented data sets or disjointed workflows that cause costly mistakes and jeopardize your productivity. Combine your mobile mapping data with data from other survey sources and have the traceability to backup your office and field work for every project, every time.

+ Robust deliverables

When “good enough” is not acceptable, TBC enables you to deliver diverse results with point clouds, immersive imagery, digital surface models, corridor designs and extracted features and linework. Export to Trimble MX software for asset and GIS data extraction or work with other industry-leading software packages from Autodesk®, Bentley®, Esri®, TopoDOT and more with import and export support for a variety of third-party file types. When it's time to submit, clean up, archive and share projects online to Trimble Connect® cloud software, Trimble Sync Manager™ software or Bentley ProjectWise®, all initiated with TBC.

Subscription licensing for every need

Offerings positioned to suit your workflows. Each subscription edition includes Trimble Connect for online collaboration, viewing, and interaction with your data. Your license is always current so you can utilize the latest enhancements and updates. With the online license management, account administrators can assign and remove users.

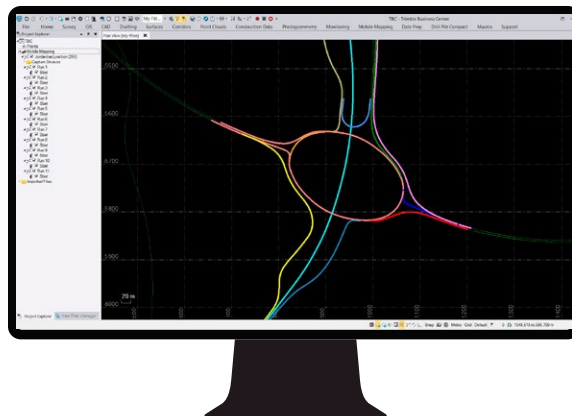


Mobile Mapping Workflows

Import your raw mobile mapping data

Import your raw mobile mapping data from Trimble MX60 mobile imaging systems or MX90 mobile mapping systems.

- Import all raw data simply by pointing to your .mxdb project database file (Trimble MX60 and Trimble MX90).
- The mxdb maintains your data integrity between trajectory, lidar data, and panoramic images.
- Full synchronization between original sensor data is maintained for data runs as collected in the field.

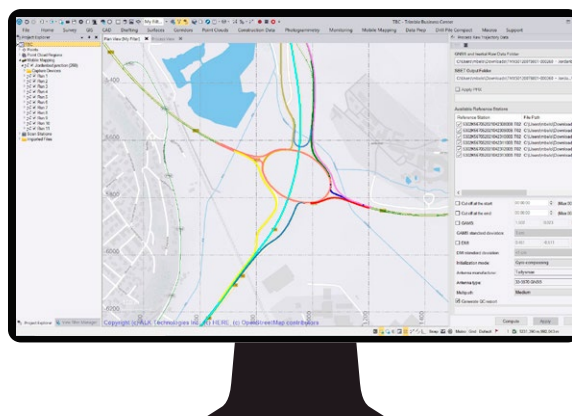


Integrity between captured data runs is maintained

Vehicle trajectory processing

Take advantage of the TBC Mobile Mapping subscription to process the complete workflow in TBC. You can also still use your standalone POSpac Complete.

- Load raw trajectory data directly into TBC, with base station data now optional when using PP-RTX processing.
- Process trajectory data without leaving TBC.
- Run trajectory reports and QA/QC from within TBC.
- Run lidar QC to achieve the highest level of georeferencing accuracy with lidar sensors.

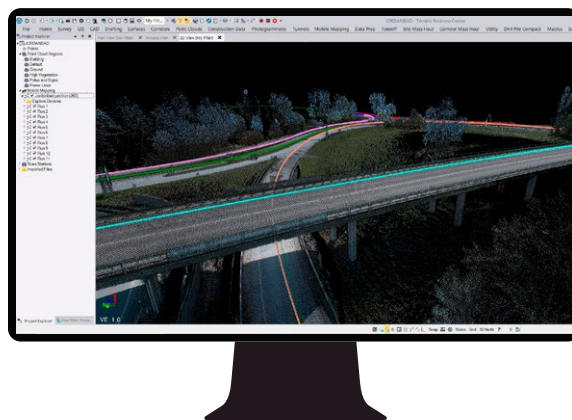


Simplify your workflow by processing vehicle trajectories in TBC

Generate scans

Use the precise vehicle trajectory to generate scans for individual runs or for all runs in your project.

- Generate scans and apply filters for sun and fog.
- Create a masking template for point cloud colorization.
- Colorize point clouds using RGB from 360° imagery.
- When needed, delegate computation tasks to batch processing.



Generate accurate point clouds from raw lidar data

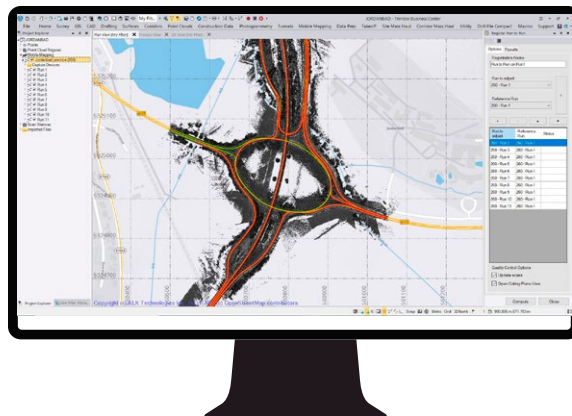


Mobile Mapping Workflows

Register point clouds

Optimize your captured mobile mapping data to reduce, or eliminate, IMU drift by registering mobile mapping runs to fixed control points.

- Generate survey-grade deliverables from mobile mapping data.
- Register to precise fixed control points using the TBC smart picking tool and the integrated POSpac PFix engine.
- Batch register several runs together in order to minimize anomalies between common runs in the same geographical location from one mission or from multiple ones.
- Update scans based on registration constraints.

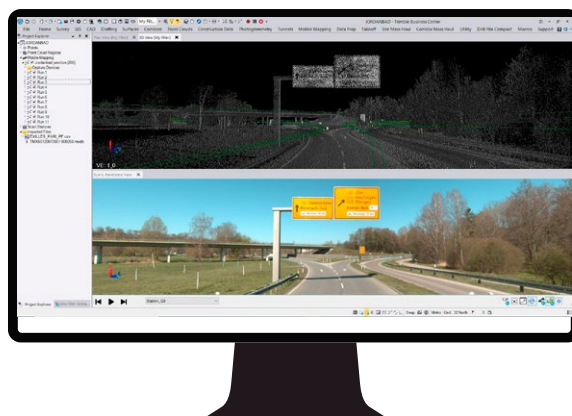


Register runs to meet the most demanding project requirements

View 360° panoramic images

Use complementary image data to provide additional context and help navigate through your rich mobile mapping data sets.

- Overlay point clouds on images for feature verification and object inspection.
- Use imagery to provide contextual information and clarity of smaller detailed objects.
- Use imagery to inspect asset condition.
- Navigate your mobile mapping data synchronizing your 360° panoramic with the point cloud 3D view.

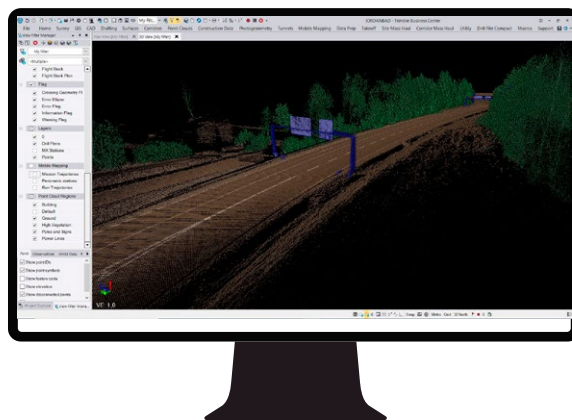


Panoramic images can provide valuable contextual information

Extract classified point cloud regions

Use TBC's simple automated classification tool to help manage your point cloud data and assist with further processing and feature extraction workflows.

- Create extraction regions such as: Buildings, Ground, High Vegetation, Poles, Signs, Power Lines, Guard Rails, Jersey Barriers and Noise, including vehicles and people.
- Create your customized classification regions based on deep learning models. Create, train and validate your models to classify and extract features specific to your application or region.
- Use the extracted Ground Point Cloud region to optimize the process of generating surface- and corridor-related deliverables such as digital surface models.
- Use the extracted High Vegetation region for assisting with vegetation clearance applications and landscape management.
- The Power Lines and Poles region will help with power line and pole extraction.



Classified point cloud regions assist with data management and feature extraction

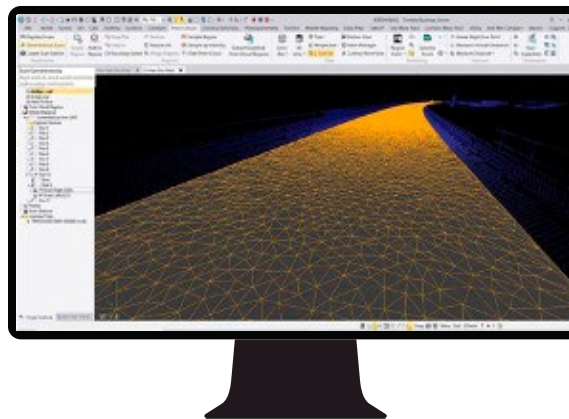


Mobile Mapping Workflows

Surfaces, CAD and drafting

Create, process and deliver complex surface models from your mobile mapping data for field devices, machine control systems, and third-party export, and produce your final CAD deliverables and roadway design plots with ease.

- Quickly draft and edit points, 2D or 3D linework and CAD geometry with the keystroke-based CAD Command Line.
- Use Dynaviews to place your model space data into sheet plots.
- Add dynamic labels, line and curve tables, scale bars, and other map elements.
- Automatically plot profiles and cross-sections for alignment-based surfaces or corridors.
- Create digital deliverables such as DWG CAD files or print deliverables like plan sets or 3D PDFs for communication and collaboration.

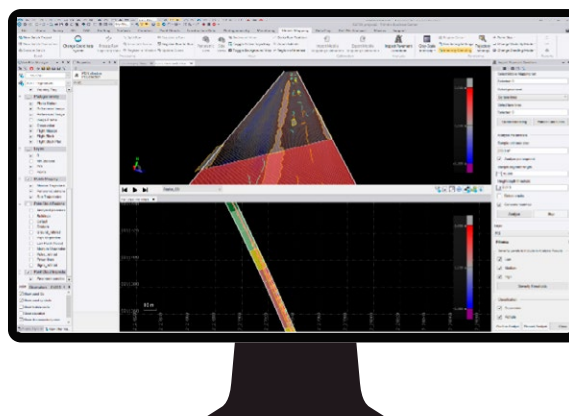


Draft plan and profile sheets with Dynaviews

Pavement inspection and IRI report

Detects, classifies and evaluates severity of pavement distresses; calculates Pavement Condition Index score based on ASTM D6433.

- Automatically detects and evaluates the severity of potholes, rutting, various types of cracking, including linear and alligator, corrugation, bumps and depressions.
- Calculates pavement condition index based on the ASTM D6433.
- Generates vector outlines for each condition and document in detailed Excel and PDF reports for analyzed pavement.
- Produce International Roughness Index (IRI) report directly from your scan data.

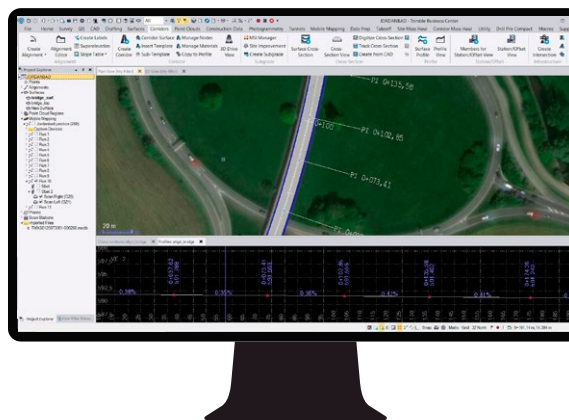


Extract, classify and analyze road distresses with the Pavement Condition Inspection tool

Alignments and corridors

Model and manipulate alignments and parametrically-designed corridors based on mobile mapping data.

- Define horizontal and vertical alignments from scratch or existing CAD linework with support for station equations and superelevations.
- Enter corridor template instructions with interactive, graphical feedback.
- Handle complex roadway designs with conditional instructions and slope and node tables.
- Design corridor features such as interchanges, ramps and intersections with parameter prompts.
- Generate corridor earthwork reports, apply material properties and create subgrade surfaces.



Mobile mapping data, by definition, is an ideal base for modeling and visualization of simple or complex alignments and corridors

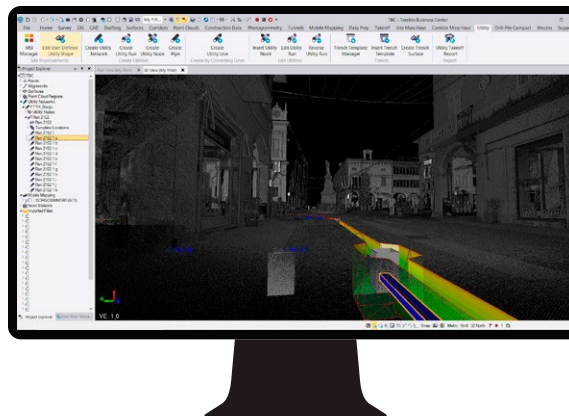


Mobile Mapping Workflows

Utility modeling

Use mobile mapping data to help plan, design, inspect and rehabilitate utility and fiber networks.

- Create fiber and utility networks.
- Customize utility shapes and structures.
- Design parametric trench templates and surfaces.
- Add utility models to existing sitework, CAD geometry, and surface context.
- Generate customized utility takeoff reports.

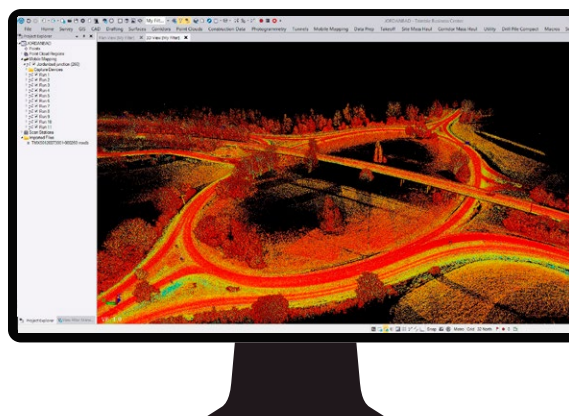


Model fiber networks, structures, and trenches in 3D based on mobile mapping data

Scanning and point clouds

Combine mobile mapping data with terrestrial or aerial scan data and view, manipulate, and extract information from the combined point cloud.

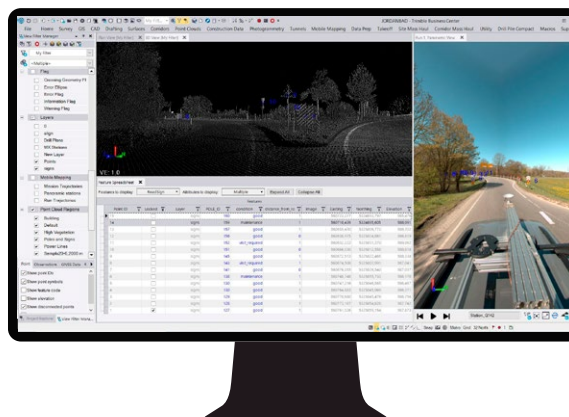
- Colorize, register, georeference, and adjust Trimble SX-series scan data.
- Import and register Trimble TX-series, Trimble X7, X9, X12 and third-party terrestrial laser scanner data.
- Scale scan and point cloud data to survey data in an integrated project environment.
- Classify regions, segment point clouds, and use limit boxes to manipulate scan data from formats like *.las, *.pts, *.e57 and more.
- Extract points, attributes, and linework with user-defined planes and automatic and semi-automatic feature extraction tools.



Extract features from scans and point cloud data

GIS

- Integrate GIS within survey data and provide deliverables to an Esri-based environment.
- Extract schemas and convert to feature definition code libraries.
- Connect to different GIS sources, File Geodatabase, Postgres database, Shapefile and Enterprise Geodatabase.
- Post-process *.ssf GNSS data from Trimble TerraFlex® software and other Trimble GIS field sources.
- Map metadata from data source connections.



Use mobile mapping data as a source to create an asset database

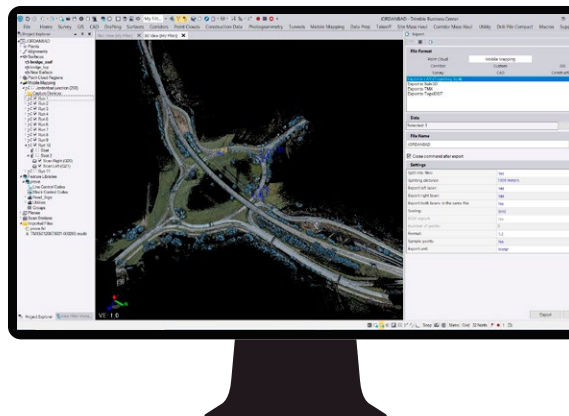


Mobile Mapping Workflows

Data export

Export data to a wide range of CAD, GIS and mobile mapping formats.

- Export to Trimble MX format to extract data using asset and GIS workflows and for data sharing via TMX Publisher.
- Export to other mobile mapping software like TopoDOT, Horus, or Mapillary.
- Export extracted data to host CAD and GIS system formats.
- Blur vehicles and people in exported images in line with GDPR requirements for data sharing.
- Publish data to the multi-pane viewer, use the 3D view to delve into point cloud data, explore paths and trajectories, and interact with panoramic views.



Export to CAD, GIS or mobile mapping formats

System requirements

Please reference the following for detailed requirements:

Processing MX9 & MX50 Data in Trimble Business Center - Bulletin

Operating system

- Microsoft® Windows® 11 (64-bit version)
- Microsoft Windows 10 (64-bit version)

Processor

- Dual-core Intel 1.80 GHz or better recommended
- Quad-core Intel 2.80 GHz or better recommended (additional cores with hyper-threading support highly recommended for Aerial Photogrammetry, Mobile Mapping and Scanning modules)
- AMD Ryzen processors are not supported

Random-access memory (RAM)

- 4 GB or more recommended
- 32 GB or more recommended for Aerial Photogrammetry, Mobile Mapping, and Scanning modules
- Require 192GB of RAM for lidar QC usage

Hard drive

- 10 GB free or more recommended
- 100 GB free or more on solid-state drive (SSD) required with overall capacity of 500 GB or more recommended for Aerial Photogrammetry, Mobile Mapping and Scanning modules

Graphics

- DirectX 11 compatible graphics card with 512 MB memory or more
- OpenGL version 3.2 or later required when working with point cloud data (latest version recommended)
- 8 GB graphics card or higher (NVIDIA Quadro P4000 or similar) required for Aerial Photogrammetry, Mobile Mapping and Scanning modules

Monitor

- 1280 x 1024 or higher resolution with 256 or more colors (at 96 DPI)

Supported languages

- | | | |
|------------------------|------------|--------------|
| • Chinese (Simplified) | • Finnish | • Norwegian |
| • Czech | • French | • Polish |
| • Danish | • German | • Portuguese |
| • Dutch | • Italian | • Russian |
| • English US | • Japanese | • Spanish |
| • English UK | • Korean | • Swedish |

Learning Resources

Interested in TBC but wondering where to start? Want to learn more? We offer a variety of helpful resources to make you productive quickly. Learning TBC has never been easier.

Website:

Your home for everything TBC—downloads, support information and bulletins, as well as customer testimonials and videos: geospatial.trimble.com/en/products/software/trimble-business-center

Learn more about Trimble mobile mapping hardware and software solutions: geospatial.trimble.com/products-and-solutions/mobile-mapping

Learn platform:

Complete free, self-paced workflow-based courses with hands-on guided software experiences:

learn.trimble.com/pages/422/trimble-business-center-tbc

Access the Mobile Mapping Knowledge Base here:

help.trimblegeospatial.com/mobilemappingkb/tbc.htm

Trimble Community page:

Join your fellow TBC users and ask questions, showcase a project, and learn from peers in this open online forum:

community.trimble.com/groups/tbc-group

Power Hours:

A live monthly session where a Trimble or industry expert showcases a workflow in TBC. All sessions available afterwards and on-demand, for free:

geospatial.trimble.com/en/resources/webinar

Tutorials:

Follow along with sample data and PDF instructions as we explain and illustrate specific workflows and introductions to TBC: help.fieldsystems.trimble.com/tbc/learn-tutorials.htm

YouTube channel:

Watch and learn as our team explains how a specific function works or what's new in our latest release:

www.youtube.com/user/tbcsurvey

Watch mobile mapping videos and tutorials:

www.youtube.com/trimblemobilemapping

For more information

Contact your local Trimble sales representative

geospatial.trimble.com/mobile-mapping-contact-sales or visit geospatial.trimble.com/en/products/software/trimble-business-center

To learn more about Trimble Mobile Mapping solutions visit geospatial.trimble.com/mobile-mapping

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