

Trimble SiteVision

AUGMENTED REALITY SOFTWARE



Instant visualization for immediate insights.

Trimble® SiteVision® is a real-time, in-field visualization software for collaborating on project progress and detecting design changes or conflicts. Select your hardware configuration to collect images, GNSS points, EDM points or LiDAR scans. Discover how Trimble SiteVision can help you solve your industry's most complex challenges and uncover opportunities to work smarter.

Find out more at:

civilconstruction.trimble.com/sitevision



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Architecture

Bring your models to life

Unlock the full potential of your 3D models with an augmented reality experience that lets you and your clients explore designs in a real-world environment—right from your mobile device.

Any model, anywhere

3D models don't belong in a 2D world. SiteVision allows you to place true-to-scale (1:1) models in any environment so you can visualize 3D data with ease. Take a tour of your design on-site in real time and bring every detail to life.

True collaboration for all stakeholders

With support for a wide range of data types, SiteVision makes the perfect on-site data communication tool for architects, contractors, engineers, builders and clients to share ideas, collaborate and problem-solve in real time. You'll speed up the process and minimize issues from miscommunication and misunderstanding.

SiteVision integrates with all your existing tools

SiteVision integrates with data from SketchUp®, Autodesk® Revit® and industry standard IFC models through Trimble Connect® so you can use all your favorite 3D modeling software to create models for visualization and client/contractor engagement on-site.

Features that work for you

- Visualization tools
- Cloud connection
- Reporting
- Works with a range of BIM file formats

See what you can do with Trimble SiteVision

- Works with industry standard IFC models
- Trimble Connect Integration
- Indoor and outdoor use
- Electronic distance measurements when paired with the Trimble HPS2 handle*
- Supports iOS or Android™ AR-capable smartphones and tablets
- Supports iOS LiDAR functionality

*Applies only to iOS devices with LiDAR, or the Trimble HPS2 handle with Android smartphones



Building Construction

Build with confidence

Transform complex data into simple and clear visualizations that give context to critical information on the jobsite—all from a user-friendly augmented reality app on your mobile device.

Faster. Safer. Better.

Give greater context and understanding to projects on the jobsite at 1:1 scale to make projects safer, QA/QC easier and errors and wasteful change orders minimized. The visualization of complex data, positioned with high-accuracy GNSS or QR markers, makes it easy to view spatial relationships more accurately to identify and mitigate structural, mechanical, electrical and plumbing (MEP) clashes sooner.

Features that work for you

- Supports BCF topics
- Visualization tools
- Model positioning
- Reporting
- Works with a range of BIM file formats

Real-time communication, real-time results

Increase productivity and profitability by enabling collaborative conversations between subcontractors, workers and teams. Visually identify problems and make informed decisions to solve issues in real time, on-site.

Get more value on-site from BIM models during construction with SiteVision

SiteVision uses data from your BIM models stored in Trimble Connect, and enables you to communicate and collaborate with your project team and sub-contractors through an easy-to-understand visualization of all the details in the data model.

See what you can do with Trimble SiteVision

Works with models from SketchUp, Tekla Structures, Autodesk AutoCAD, Autodesk Navisworks and Autodesk Revit

- Visualize PDFs on the site at real-world scale
- High accuracy position and orientation
- Supports iOS or Android AR capable smartphones and tablet
- Supports iOS LiDAR functionality
- Trimble Connect Integration
- Log and assign issues with BCF Topics support

Civil Construction and Inspection

See your plan for success

Trimble SiteVision is a simple, augmented reality system that uses your field device to visualize complex construction, road, rail and site designs with superior accuracy. From bulk earthworks to finished final grade surfaces, you can communicate and problem-solve in real time.

On-site and in context

SiteVision enhances project understanding and efficiency at all construction stages. It supports new designs, field crew changes, temporary works, inspections, productivity assessments, grade checking, and quick as-built measurements. You can view and share designs at any phase or create in-field designs at 1:1 scale. SiteVision also aids in planning, visualization, progress checking, measuring, and issue identification, reducing costs and boosting efficiency. Achieve high-accuracy GNSS measurements by pairing SiteVision with a Trimble DA2 GNSS receiver. Moreover, unlock the ability to measure points remotely with the integrated EDM in the Trimble HPS2 handle. As a system this enables confident mobile device operations from concept to completion.

Ready for real-time reporting?

With real-time reporting from the field to the office, you can eliminate delays with instant change order requests to more efficiently manage costs and minimize safety hazards. Just capture a geolocated augmented reality photo of a problem area showing the design in the context of the actual site conditions and send it as a traced, actionable request for change.



SiteVision integrates with data from Trimble Business Center, Autodesk Civil 3D®, OpenRoads, and Trimble Novapoint so you can use all your favorite 3D modeling software and office tools for visualization and client/contractor engagement.

Features that work for you

- Works with a range of file formats
- Field to office connectivity
- In-field design
- Visualization tools
- Measure, record and inspect as-built
- Stockpile volume measurements
- Reporting

See what you can do with Trimble SiteVision

- High-accuracy position and orientation
- Supports iOS or Android AR-capable smartphones and tablets
- Supports iOS LiDAR functionality
- Works with Trimble Business Center data, Earthworks and Siteworks
- Electronic distance measurements when paired with the Trimble HPS2 handle*
- Trimble Connect Integration

*Applies only to iOS devices with LiDAR, or the Trimble HPS2 handle with Android smartphones

Landscape Architecture and Construction

See your business grow

Explore your designs in real-world environments through augmented reality right on your mobile device to accurately view how a design will look in its surroundings, season to season and year to year.

Don't miss a single detail

With interactive, 1:1 scale models that come to life in real environments, you'll get a true-to-life experience of your design before you break ground. See every detail from garden furniture down to the smallest shrub, visualize how softscape and hardscape elements merge with existing terrain and explore your design from all perspectives.

SiteVision integrates with data from SketchUp and Autodesk AutoCAD, so you can use your favorite 3D modeling software and office tools to create landscape models for on-site visualization and client/contractor engagement.

Collaboration & communication are a breeze

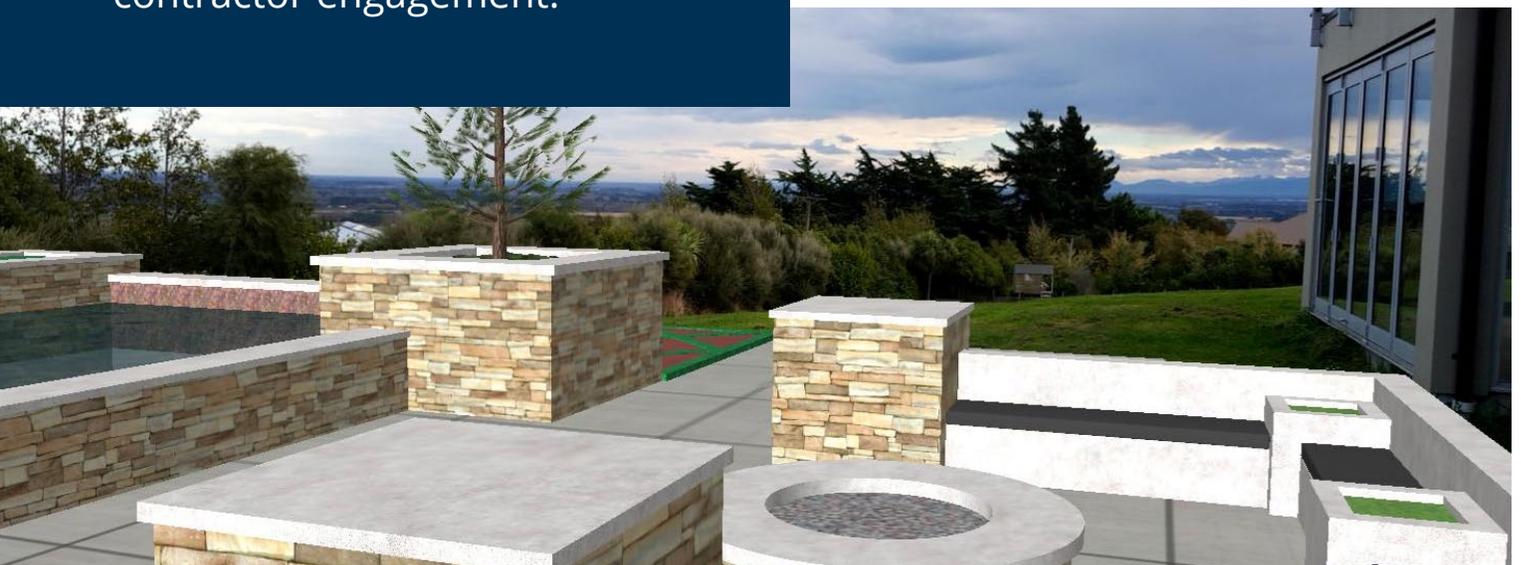
SiteVision inspires collaborative problem solving between contractors, engineers and landscape architects through simple information sharing and communication. And for people with varying levels of technical knowledge—such as clients and the general public—it's easy to see and understand how your designs will transform an existing space into a flourishing environment.

Features that work for you

- On-site conceptual design
- Works with a range of BIM file formats
- Reporting
- Visualization tools
- Model positioning
- Reporting
- Layout

See what you can do with Trimble SiteVision

- Works with your SketchUp models or PDFs
- High accuracy position and orientation
- Trimble Connect Integration
- Layout for construction using PDFs or 3D models
- Email integration (for PDFs)





Residential Development

Tour homes before they're built

SiteVision brings your development to life before you break ground. Explore models with a user-friendly augmented reality mobile experience. Walk prospective purchasers through a development and its amenities to help make their buying decision easier.

Stay ahead of the industry

Gain a competitive advantage by being among the first in the industry to offer virtual home showings at 1:1 scale in real environments. Potential buyers can explore models inside and out with interactive tools such as transparency view and cross-sectioning to tour any of your homes more in-depth than if they were in an actual model home.

All of the reward, none of the risk

Being able to visualize your plans in true-to-life fashion makes communication and compliance effortless, especially when it comes to mitigating risks and adhering to restrictive zoning laws. Community leaders, consenting authorities and other stakeholders can easily understand the impact on surrounding environments, and ensure you get approval to move forward with development.

SiteVision integrates with your existing tools

SiteVision integrates with data from SketchUp, Autodesk, Trimble Business Center and Esri ArcGIS office software so you can use all your favorite 3D modeling software and office tools for visualization and client and contractor engagement.

Features that work for you

- Visualization tools
- Real-time collaboration
- Model positioning
- Review your design
- Reporting
- Works with a range of BIM file formats

See what you can do with Trimble SiteVision

- Community stakeholder engagement
- Works with Trimble Business Centre, SketchUp and Autodesk AutoCAD data
- Electronic distance measurements when paired with the Trimble HPS2 handle
- Communicate complex 3D information in an intuitive way

Surveying and Mapping

Bring geospatial data to life

Trimble SiteVision is an easy-to-use outdoor and indoor augmented reality system that lets you see issues before they arise and enriches the data you see in the field to take more accurate measurements. SiteVision empowers decision making through collaboration and engagement of project stakeholder.

Confidence in your data

SiteVision's AR capabilities enhance communication and reporting, from boundary location communication to quick site measure-ups. With direct access to property and utility databases through the web feature service interface, surveyors can access up-to-date information on-site, reducing data preparation time. It allows visualizing and inspecting measured points or surfaces in real-time. During construction inspections or as-built surveys, SiteVision helps identify and communicate discrepancies between designs and the current site.

Real-time data, real-time collaboration

A picture is worth a thousand words—demonstrate to your team and external stakeholders with an interactive view. SiteVision's information visualization capabilities make it easy to demonstrate your proposed designs—and preferred alternatives—at every phase of a project.

SiteVision integrates with data from Trimble Business Center, Autodesk Civil 3D, OpenRoads, Trimble NovaPoint, and GIS systems like Esri ArcGIS so you can use your favorite 3D modeling software, GIS databases, and office tools for visualization and client/contractor engagement.

Features that work for you

- Works with a range of BIM file formats
- Cloud connection
- Reality capture
- Visualization tools
- Reporting
- Data collection and measurement tools

See what you can do with Trimble SiteVision

- High-accuracy position and orientation
- Works with Trimble Business Center or your GIS database, Earthworks and Siteworks
- Supports iOS LiDAR functionality
- Electronic distance measurements when paired with the Trimble HPS2 handle
- Trimble Connect integration





Urban Transportation and Planning

Move forward with confidence

SiteVision lets you visualize complex data to effectively communicate and demonstrate your designs throughout the duration of a project to promote buy-in and help facilitate efficient project development.

A clear picture of the big picture

With the visualization tools to overlay design data into real-world settings at true-to-life scale in real time, you can quickly create and communicate an accurate picture of how your plans will come to life. From new intersection designs to road realignments, new bridges and tunnels, SiteVision makes it easy to communicate with all stakeholders.

Buy-in, every step of the way

From the preliminary design stage to the public consultation stage, securing buy-in and support to facilitate a project is always a challenge—until now.

Features that work for you

- Visualization tools
- Model positioning
- Reporting
- Works with a range of BIM file formats

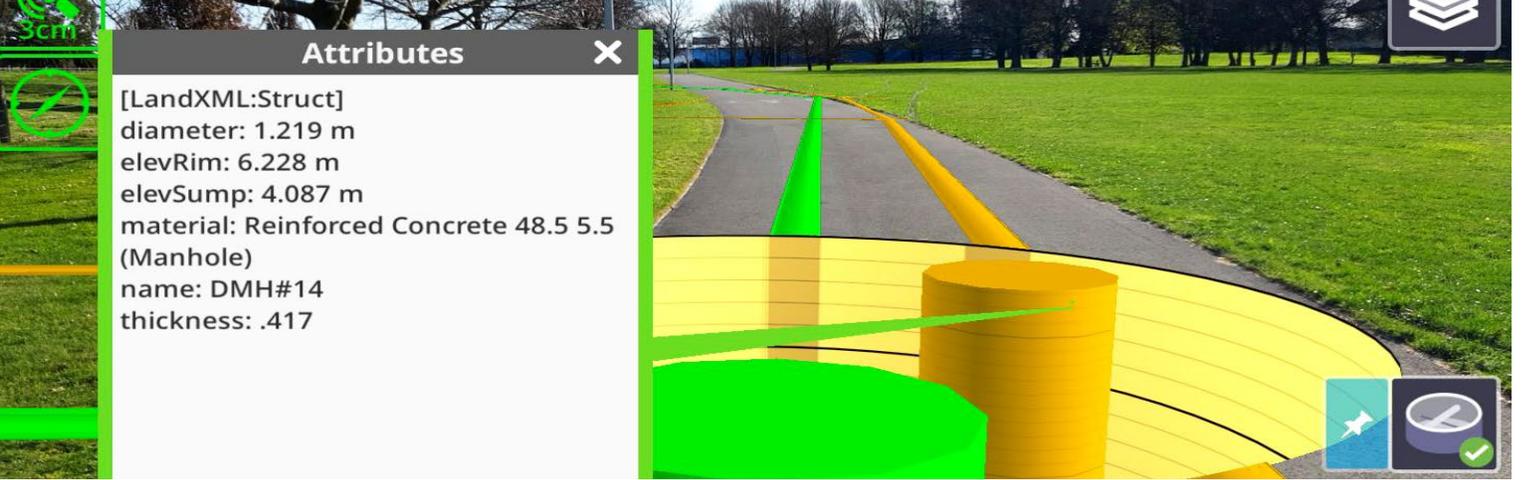
SiteVision's information visualization capabilities make it easy to demonstrate your proposed designs—and preferred alternatives—at every phase of a project.

SiteVision integrates with your existing tools

SiteVision integrates with data from your City GIS and your design software, so you can leverage your investment in GIS for visualization and stakeholder engagement.

See what you can do with Trimble SiteVision

- Works with Trimble Quadri, SketchUp and your GIS data
- High accuracy position and orientation
- Electronic distance measurements when paired with the Trimble HPS2 handle
- Trimble Connect Integration
- Supports iOS or Android AR-capable smartphones and tablets
- Supports iOS LiDAR functionality



Utilities

See what your data can do

SiteVision lets you confidently access and visualize the full potential of your data both above ground and below in real time and in the real world—right from your mobile device.

Accuracy with ease

Replace paint marks and 2D plans with visualizations from high-accuracy augmented reality enabled by the Trimble DA2 GNSS receiver and Catalyst™ GNSS positioning service. With the tap of a button, information is displayed at scale and in context. Pair SiteVision with the Trimble HPS2 handle to take remote measurements with the integrated distance measurement technology. Capture points and verify information quickly and from a safe distance.

Features that work for you

- Create concepts
- Reporting
- Measure & model positioning
- Visualization tools
- Plan construction
- Works with a range of BIM file formats

Access at any moment

Whether it's planning, inspection, collaboration or reporting, SiteVision enables users to quickly pull up data directly from GIS databases to view and share—no more searching plan sheets or drawings. If it's in the model, the user can simply tap and view the attributes to confirm database integrity, improve safety and enhance awareness on-site.

SiteVision integrates with your existing tools

SiteVision integrates with data from Trimble's utility systems, including Trimble NIS software solutions for electric utilities, Trimble Unity for water utilities, and Trimble Business Center for utility construction, as well as your commonly used GIS systems like Esri's ArcGIS so you can leverage all your utility management systems and favorite 3D modeling software for visualization for public and contractor engagement.

See what you can do with Trimble SiteVision

- High-accuracy position and orientation
- Supports shapefiles, geodatabases, web feature services, Autodesk DWG™ and LandXML data
- Electronic distance measurements when paired with the Trimble HPS2 handle
- Trimble Connect Integration
- Supports iOS or Android AR-capable smartphones and tablets
- Supports iOS LiDAR functionality





Find out more at:
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