

VISIONLINK



integrated operational management

VISIONLINK® Powered by Trimble

The VisionLink® fleet, asset and site productivity management solution from Trimble tells you where your equipment is, what it's doing and how productive it is.

VisionLink features user-friendly management tools combined with GPS-based positioning and wireless technology hardware to provide near real-time equipment, material and site productivity information.



As part of the Connected Office solution, VisionLink has powerful tools that allow you to import a digital design file from Business Center - HCE, monitor site productivity, and share an overview of progress with the entire team. Using the Trimble Connected Office solution, a complete view of site productivity can be shared across the organization to enable rapid decision-making and better communication.

AN INTEGRATED, MIXED FLEET SOLUTION

Centralizing and simplifying the management of on-site operations maximizes efficiency, raises productivity and lowers costs for your entire fleet. VisionLink allows you to manage both your site and your equipment, regardless of manufacturer, in a secure, web-based application.

- Monitor asset utilization and minimize idle times to reduce equipment depreciation and eliminate unnecessary and costly fuel burn.
- Monitor excavator and wheel loader payloads to optimize haul operations.
- Monitor tire pressure and temperature conditions and schedule cost-effective preventative maintenance.
- Manage and make informed decisions about production efficiency.
- See continuously updated surface models based on machine activity.

RUGGED HARDWARE

TRIMBLE SNM940 CONNECTED SITE GATEWAY

Robust communication for heavy equipment.

The Trimble® SNM940 Connected Site® Gateway brings the office and the machine together with wireless data sync, GNSS corrections for grade control operations, asset and fleet management, and 2D and 3D Project Monitoring.



TRIMBLE SNM451 CONNECTED SITE GATEWAY

Monitoring light assets and haul vehicles.

The Trimble SNM451 Connected Site Gateway communicates location, utilization, cycle times, and productivity of site assets such as smaller machines, site vehicles and haul trucks.

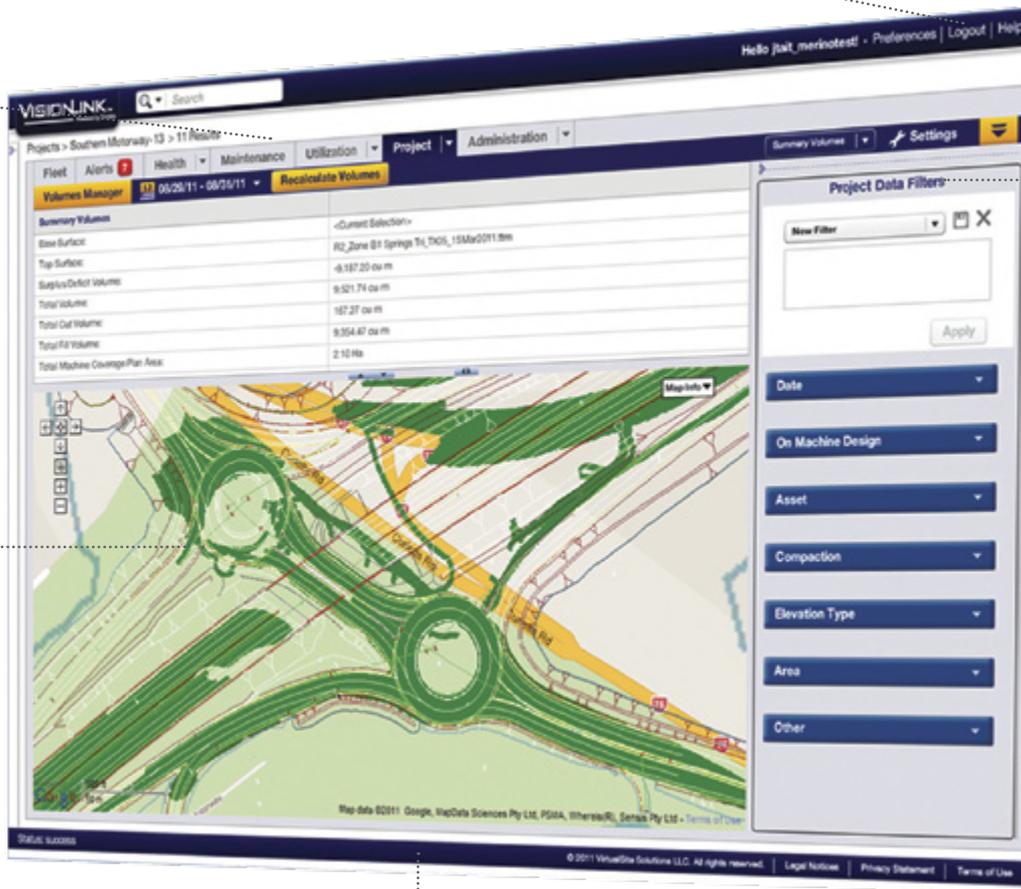


SECURE DATA HOSTING BY TRIMBLE
WITH BUILT-IN REDUNDANCY

INTEGRATED
PRODUCTION
OUTPUT
AND ASSET
MANAGEMENT
INFORMATION

EASY-TO-USE
INTERFACE

ADVANCED DATA
VISUALIZATION



WEB-BASED SOFTWARE,
AVAILABLE 24/7



maximize your uptime

FLEET AND ASSET MANAGEMENT SUBSCRIPTION PLANS

No matter what your operational needs are, VisionLink can help you reduce costs and increase efficiency.

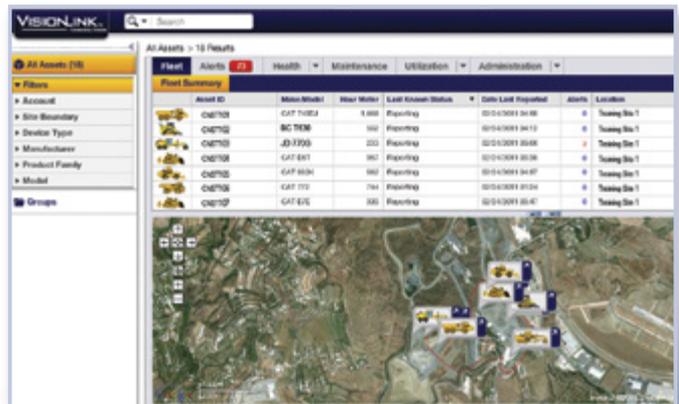
BASIC (LOCATION, HOURS AND MAINTENANCE) PLAN

- See where your equipment is, bill it to the correct project, and locate it for pickup, maintenance or refueling.
- Use site boundaries to create triggers for theft mitigation, inappropriate machine use and compliance with avoidance zones.
- Monitor machine hours to manage equipment maintenance and decrease equipment depreciation costs.
- Minimize idle time to help with fuel economy, and identify equipment that would be better utilized on other sites.
- Integrate report data into ERP or project management applications to automate data sharing and ensure accuracy.

UTILIZATION PLAN

- Remotely manage payload reporting from Trimble LOADRITE® X2350 Excavator Scales and L2180 Wheel Loader Scales.
- Reduce owning and operating costs with visibility to estimated fuel usage.
- Compare runtime hours, and working versus idle time to improve equipment utilization and increase productivity.

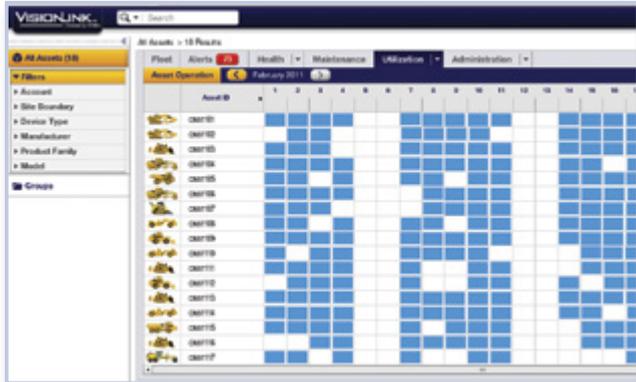
Requires Trimble SNM451 Connected Site Gateway or SNM940 Connected Site Gateway. Payload reporting is available through the SNM940 only.



The screenshot displays the VisionLink software interface. At the top, there is a search bar and navigation tabs for 'Fleet', 'Alerts', 'Health', 'Maintenance', 'Utilization', and 'Administration'. Below the navigation, a table lists assets with columns for Asset ID, Asset Model, Hour Meter, Last Known Status, Date Last Reported, Alerts, and Location. The table contains several rows of data for different asset models like CAT 110E2, CAT 110E, CAT 110, CAT 110E, CAT 110, CAT 110, and CAT 110. Below the table, there is a map showing the location of the assets on a terrain map.

Asset ID	Asset Model	Hour Meter	Last Known Status	Date Last Reported	Alerts	Location
CAT110E2	CAT 110E2	4,888	Reporting	02/03/2011 04:50	0	Trucking Site 1
CAT110E	80C 110E	990	Reporting	02/03/2011 04:50	0	Trucking Site 1
CAT110	JD J350	200	Reporting	02/03/2011 04:50	0	Trucking Site 1
CAT110E	CAT 110E	960	Reporting	02/03/2011 04:50	0	Trucking Site 1
CAT110	CAT 110	960	Reporting	02/03/2011 04:50	0	Trucking Site 1
CAT110	CAT 110	704	Reporting	02/03/2011 04:50	0	Trucking Site 1
CAT110	CAT 110	588	Reporting	02/03/2011 04:50	0	Trucking Site 1





VISIONLINK MOBILE

Fleet and asset information in the field

- Included in your subscription plan.
- Locate assets, monitor utilization and service due, and view asset alerts on your smart phone or tablet.



MACHINE HEALTH PLAN

- Monitor tire pressure and temperature of every rubber tire in your fleet.
- Proactively manage and schedule preventative maintenance to extend the tire life, promote fuel efficiency and avoid dangerous blowouts.



monitor your materials

2D PROJECT MONITORING SUBSCRIPTION PLAN

Track material movement and quantity.

- Monitor cycle times and load counts to track actuals against targets, and monitor job site productivity.
- Track load counts using proximity to ensure correct material movement, and use structural and non-structural materials in the correct site location.
- Rectify problems in a timely manner and estimate completion times more accurately to keep jobs on schedule.
- View individual machine performance or aggregate fleet data to see an entire site at a glance. Maintain production schedules by monitoring productivity against plan and making decisions in near real-time.
- Scheduled reporting of business-critical information for easier and more accurate billing.



Requires the Trimble SNM940 Connected Site Gateway or SNM451 Connected Site Gateway.

Includes VisionLink Asset and Fleet Management Universal subscription plan and VisionLink Mobile.



VISIONLINK MOBILE

Production supervisors take the power of VisionLink to the field.

- Included in your 2D Project Monitoring subscription plan.
- View 2D Project Monitoring data in the field on your smartphone or tablet.
- See average site loads, volumes, haul distances and idle times, or drill down to individual assets to compare production rates between assets.



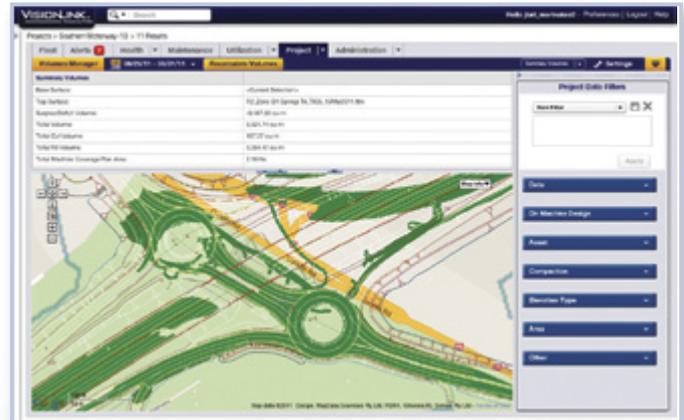
monitor your site

3D PROJECT MONITORING SUBSCRIPTION PLAN

A complete view of volumes and compaction data.

VOLUMES MANAGER

- Continuously monitor and record 3D earthmoving, grading and finishing operations throughout the life of the project, and use the information to make timely decisions regarding project progress, and equipment utilization and deployment.
- Create near real-time 3D surface model, elevation and cut/fill maps to show progress towards completion, eliminate drive time to the site and ensure you have the most current information.
- Accurately capture all work completed including over-excavation and backfill, overfill or surcharge, and cut back operations so you get paid for all the work you do.
- Scheduled reporting of volume and quality assurance data for easier inspections and project progress and payment.



Requires the Trimble SNM940 Connected Site Gateway, and a Trimble or Cat® AccuGrade™ GCS900 Grade Control System, or a Trimble or Cat® AccuGrade CCS900 Compaction Control System.

Includes VisionLink Asset and Fleet Management Basic subscription plan, VisionLink Mobile and 2D Project Monitoring subscription plan.





VISIONLINK MOBILE

Production supervisors take the power of VisionLink to the field.

- Included in your 3D Project Monitoring subscription plan.
- View 3D Project Monitoring data in the field on your smartphone or tablet.
- Quickly view aggregated cut/fill maps or compaction coverage and pass count maps to improve quality and decrease cycle times.



COMPACTION MANAGER

- Continuously monitor pass counts and compaction meter values over the entire area of compaction and on all material layers to improve testing success, reduce rework and lower ongoing maintenance costs.
- Reduce over-compaction to optimize fuel use and machine time.
- Ensure uniform lift thicknesses and consistent compaction pass counts and meter values to increase the surface quality and operational life.
- Monitor temperature maps for asphalt compactors fitted with temperature sensors to ensure compaction per the temperature range specified on the project.



connect for more profit

CONNECTED SITE SOLUTION COMPONENTS



CONNECTED OFFICE

A connected office lets you be in two places at once.

When you're in your office you can monitor everything that's going on at the site. You're managing your fleet. You're getting real-time information on material usage and placement. You're seeing compaction data as it happens. If changes have to be made, or field crews need technical support, you don't have to waste time getting to the site because controllers and machines are always connected to the office via the Internet. You can even prepare 3D models and send them instantly. All from your office. You're saving time and money. You're eliminating mistakes and costly rework.



CONNECTED CONTROLLER

Make sure your crews are in the loop with connected controller.

When you sync data between your office and your site, suddenly everyone is on the same page. A site engineer can get the design file, create new measurements and check the results with your office. He'll know instantly if they're good to go. When designs change, the office can send them over the Internet to the controller. If the field crew has questions, a support person can troubleshoot right from the office. No waiting around for someone to drive over to the site. Everyone keeps working. Schedules are met. And your bottom line stays in the black.



CONNECTED MACHINE

Connected machines have a lot to tell you.

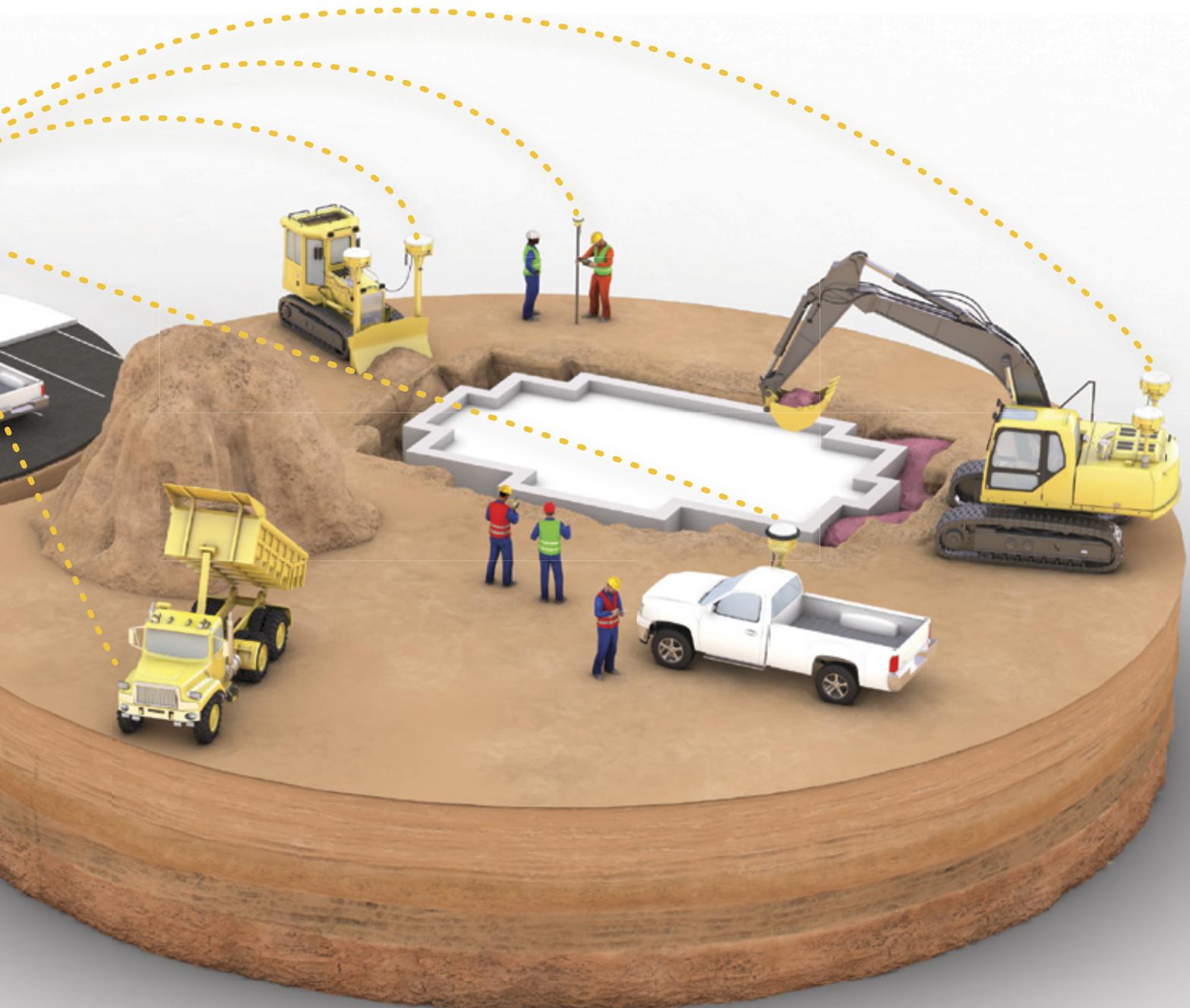
They can tell you where they are, what they are doing, and how much work they have done. They can receive GNSS corrections over the Internet and check volume measurements so your survey technicians can move on to other work. And if operators need assistance, the office support team can connect to the Control Box to see what the operator sees. Issues can be solved quickly, with no down time or drive time. The machines can receive designs over the Internet so operators aren't working off old plans and can grade and move earth faster and more accurately.



NEVER LOSE SIGHT OF THE SITE

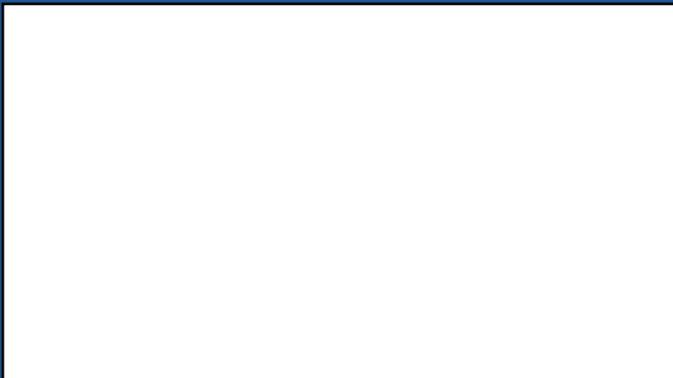
Someone once said the minute that first bucket of dirt gets moved, all your plans go out the window. That's always been the nature of our business. But not anymore. The Internet is changing the way we all do business on almost every level. And we're leading the way in construction with a revolutionary solution called the Trimble Connected Site. It's a solution that says if you move dirt, you'll do it faster, more cost effectively and in the right place. That's the competitive advantage you'll have when you put Connected Controllers, Connected Machines and Connected Office solutions under one Connected Site.

VISIT WWW.CONNECTEDSITE.COM TO LEARN MORE.



TRIMBLE: THE CONSTRUCTION TECHNOLOGY STANDARD

Trimble provides the tools and support to let you integrate planning, design, site positioning, machine control and asset management information throughout the construction life cycle for more efficient operations and higher profits. Visit your SITECH® technology dealer today to learn how easy it is to utilize technology that makes significant improvements in project workflow, dramatically increases your production, improves your accuracy and lowers your operating costs.



YOUR SITECH® HEAVY CIVIL CONSTRUCTION TECHNOLOGY PROVIDER

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