



# Trimble Agriculture Portfolio





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Trimble's innovative, user-friendly precision ag technology solutions help farmers connect their entire operation so they can make data-driven decisions in real time that drive productivity, profitability, and sustainability.

The Trimble Agriculture suite of precision solutions unifies all aspects of modern farm management. From the office to the field, all year round, Trimble helps growers complete farm work smarter, faster, and more efficiently. Through universal vehicle and implement integration, seamless data transfer and analysis, and the best correction services available, farmers can unite as much or as little of their operation as they choose, with easy options for expanding and upgrading as desired.

Our solutions are delivered through a global reseller network which includes our premier Vantage™ distributors and knowledgeable Trimble® Authorised resellers—technology specialists who provide precision agriculture hardware, software, and data expertise for the entire farm.

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# Displays

Trimble guidance displays help you accurately monitor and map field information in real time. Benefit from their industry-leading performance and reliability to complete field applications quickly and efficiently. With an array of functionalities and price points, you can select a display option that best fits your farming needs.



## TMX-2050™ Display

Best suited for complex farming operations that run large implements, need multi-product applications, or require water management capabilities such as grading, levelling and/or tiling.

- ▶ 30.5 cm high-definition colour touchscreen display to control up to 6 materials and section control on implements
- ▶ Android™-based operating system
- ▶ Control up to 256 sections with ISO and 6 products with Trimble Field-IQ™ crop input control system
- ▶ Customisable run screen
- ▶ Supports multiple receivers required to perform water management work or implement guidance
- ▶ 1 integrated camera with support for 2 additional external cameras
- ▶ Easy transferability between vehicles
- ▶ Trimble RTX® correction services compatible



## GFX-750™ Display

Best for mainstream farming practices and farmers with moderate precision ag adoption, who need a range of accuracy options, and simple spraying and spreading control. Offers easy-to-use, modern touchscreen and compatibility for any ISOBUS-ready tool.

- ▶ Large 25.4 cm high-definition colour touchscreen display
- ▶ Android-based operating system
- ▶ Control up to 256 sections with ISO and 4 products with Trimble Field-IQ crop input control system
- ▶ Roof-mounted combination NAV-900 guidance controller and receiver
- ▶ Also compatible with the NAV-500™ guidance controller
- ▶ Customisable run screen
- ▶ 1 integrated camera with support for an additional external camera
- ▶ Easy transferability between vehicles due to reduced in-cab cabling
- ▶ Trimble RTX correction services compatible



## GFX-350™ Display

The latest Android-based, easy-to-use display from Trimble Agriculture is cost-effective and offers great functionality with a simplified installation process, providing access to autosteering and application control for every farm. Add in Bluetooth® and Wi-Fi® connectivity to go along with ISOBUS compatibility, and any grower can tackle farming applications from every season across all equipment brands.

- ▶ 17.8 cm high-definition colour touchscreen display
- ▶ Android-based operating system
- ▶ Rugged construction for everyday field use
- ▶ Trimble RTX correction services compatible
- ▶ Compatible with the NAV-500 and NAV-900 guidance controllers
- ▶ ISOBUS task controller and universal terminal
- ▶ Control up to 2 channels and 24 sections



## EZ-Guide® 250 System

Best for a beginner technology user looking to adopt a display for non-critical tasks. Affordable entry-level guidance option for farmers using manual guidance and needing lower, sub-meter pass-to-pass accuracy.

- ▶ Rugged construction for everyday field use
- ▶ Compact 10.9 cm colour screen
- ▶ Intuitive user-interface
- ▶ 15 built-in LED lights
- ▶ One built-in GPS receiver
- ▶ Quick installation and fast learning curve
- ▶ Easy transferability between vehicles



## TeamViewer QuickSupport with Remote Control

The GFX-750 and GFX-350 displays now support full remote control with TeamViewer QuickSupport. Resellers can now see and control connected displays from their office to solve farmer problems in the field.



# Guidance and Steering



## Autopilot™ Automated Steering System

- ▶ Automated, hands-free guidance
- ▶ Installs directly into hydraulic system
- ▶ Delivers highest-accuracy steering in any field type



## Autopilot™ Motor Drive System

- ▶ Simplifies installation when using an electric motor instead of full hydraulic installation
- ▶ Installs in 40% less time than an aftermarket hydraulic autosteering system



## EZ-Steer® Assisted Steering System

- ▶ Provides simple, portable, hands-free farming for more than 1200 vehicle models—old and new
- ▶ Efficient, low-stress steering option



## EZ-Pilot® Assisted Steering System

- ▶ Provides high-accuracy steering at an affordable price
- ▶ Turns the wheel for you with a compact electric motor drive mounted directly to the steering column



## EZ-Pilot Pro™ Assisted Steering System

- ▶ Offers high accuracy guidance across mechanical front-wheel drive tractors, 4WDs, and combines
- ▶ Enables vehicles to be engaged in reverse to allow them to be lined up for the next pass (max. 15 seconds)



## NAV-900 Guidance Controller

- ▶ Triple-frequency multi-constellation GNSS receiver
- ▶ Enables higher reliability and shorter convergence time
- ▶ Compatible with full suite of automated steering solutions
- ▶ Trimble RTX correction services compatible



## NAV-500™ Guidance Controller

- ▶ Pair with any GFX series display for an affordable precision solution
- ▶ Compatible with assisted steering solutions only
- ▶ Sub-meter repeatable accuracy
- ▶ Trimble RTX correction services compatible



## TrueTracker™ Implement Steering System

- ▶ Keeps your tractor and implement on the same guidance line
- ▶ Provides high-accuracy control on difficult terrain by actively steering the implement



## TrueGuide™ Implement Guidance System

- ▶ Corrects the position of your implement by moving the tractor
- ▶ A low-cost solution best suited for cereal crops



## RG-100 Row Guidance System

- ▶ Allows you to automatically adjust the path of the harvester by using existing sensors built into the combine or forage harvester head
- ▶ Centres the harvester on rows—even when they are not straight



# Steering Comparison

# Display Comparison

| Features  | Autopilot automated steering system | Autopilot Motor Drive system | EZ-Pilot Pro assisted steering system | EZ-Pilot assisted steering system | EZ-Steer assisted steering system |
|---|-------------------------------------|------------------------------|---------------------------------------|-----------------------------------|-----------------------------------|
| TMX-2050 display                                      | √                                   | √                            |                                       | √                                 | √                                 |
| GFX-750 display system                                | √ **                                | √ **                         | √                                     | √                                 | √                                 |
| GFX-350 display                                       | √ **                                | √ **                         | √                                     | √                                 | √                                 |
| EZ-Guide 250 system                                   |                                     |                              |                                       |                                   | √                                 |
| Guidance-ready vehicles                               | √                                   | √                            |                                       |                                   |                                   |
| TrueTracker implement steering system                 | √                                   | √                            |                                       |                                   |                                   |
| TrueGuide implement guidance system                   | √                                   | √                            |                                       |                                   |                                   |
| RG-100 row guidance                                   | √                                   | √                            |                                       |                                   |                                   |
| T2 <sup>®</sup> terrain compensation for roll and yaw |                                     |                              |                                       |                                   | √                                 |
| T3 <sup>™</sup> terrain compensation for roll and yaw | √                                   | √                            | √                                     | √                                 |                                   |

\*\* When paired with the NAV-900 guidance controller

| Features                             | TMX-2050 display | GFX-750 display | GFX-350 display | EZ-Guide 250 system |
|--------------------------------------|------------------|-----------------|-----------------|---------------------|
| Size of screen                       | 30.5 cm          | 25.4 cm         | 17.8 cm         | 10.9 cm             |
| Touchscreen                          | √                | √               | √               |                     |
| Bluetooth                            |                  | √               | √               |                     |
| Video camera inputs                  | 2                | 1               | 1               |                     |
| Includes GNSS receiver               | √                |                 |                 | GPS Only            |
| GLONASS compatibility                | √                | √               | √               |                     |
| Assisted steering compatibility      | √                | √               | √               | √                   |
| Automated steering compatibility     | √                | √               | √               |                     |
| NextSwath end-of-row turn technology | √                | √               |                 |                     |
| Row guidance                         | √                |                 |                 |                     |
| Flow and application control         | Max. of 6        | Max. of 4       | Max. of 2       |                     |
| ISOBUS UT/TC                         | √                | √               | √               |                     |
| TUVR                                 | √                | √               | √               |                     |
| Implement steering                   | √                |                 |                 |                     |
| Water management                     | √                |                 |                 |                     |
| Yield monitoring                     | √                |                 |                 |                     |
| Trimble Ag App Central               | √                | √               | √               |                     |
| Internet browsing capability         | √                | √               | √               |                     |

up to

10%

Get up to 10% input savings using Trimble guidance and steering solutions



# Flow and Application Control

From flow/seed control valves and spot spray products to a full solution that performs variable rate application and automatic section control, Trimble flow and application control systems can help you increase yields and save on input costs for seed, granular fertiliser, liquid, or anhydrous ammonia.



## Automatic Section Control

- ▶ Manages seed, liquid, and anhydrous using section control on up to 48 individual sections
- ▶ Eliminates overlap by automatically turning off sections that have already been covered

## Variable Rate Application Control

- ▶ Simultaneously controls the application rate of different materials including seed, granular fertiliser, liquid, and anhydrous ammonia in different combinations
- ▶ As-applied mapping records where you've applied inputs
- ▶ Automates record keeping

## TUVR and Serial Rate Control

- ▶ We can now do Trimble Universal Variable Rate and Serial Rate Control (both are a serial based protocol)
- ▶ Allows the Trimble display to send rate and section switching commands to OEM displays
- ▶ Serial based protocol



## Seed Monitoring

- ▶ Increases the quality of seed placement and analyses population, singulation, skips/multiples, spacing, and quality of spacing for higher yield results
- ▶ Prevents costly planter problems by catching them early before they cause yield reduction

# Field-IQ ISOBUS Control Solutions

## Take Control of Your Crop Inputs

Trimble Field-IQ ISOBUS Control Solutions is compatible application control. It's about taking charge of your crop input costs and the implement you choose to get the job done. Integrating your implements doesn't mean doing away with old equipment. With Field-IQ ISOBUS Control Solutions, you can select from a full suite of ISOBUS-compatible products that allow you to save money and get more out of the equipment you already own.



## Field-IQ ISOBUS WEATHER STATION

- ▶ Sensor determines weather data and displays it on an ISOBUS terminal
- ▶ Can be connected to any compatible ISOBUS terminal to save weather data for records



## Field-IQ ISOBUS LIQUID CONTROL

- ▶ Can be used on any implement applying liquid
- ▶ Connect to any ISOBUS terminal





# WeedSeeker 2 Automatic Spot Spray System



WeedSeeker 2 is the next generation spot spray system from Trimble Agriculture.



Designed with 25 years of weed killing experience, it delivers all-around superior performance to previous solutions. Using advanced optics and processing power, the WeedSeeker® 2 system detects and applies herbicide to weeds. When a weed passes underneath the sensor it signals the linked spray nozzle to precisely deliver herbicide and kill the weed, reducing the amount of chemical applied by up to 90%.

- ▶ Intelligent sensor
- ▶ Reduces herbicide usage by up to 90%
- ▶ Provides unbeatable accuracy
- ▶ ISOBUS compatible
- ▶ Lightweight sensors and cabling
- ▶ Provides expanded weed detection width with fewer sensors needed
- ▶ Weed mapping and section control
- ▶ Automatic turn compensation



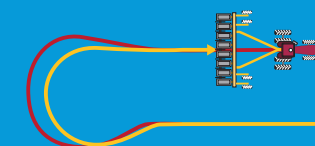
Save up to 90% on input costs

# NextSwath 2 End-of-row Turn Technology

Trimble NextSwath™ 2 is our improved end-of-row turn technology that automatically calculates and executes the best path to turn around a vehicle and approach the next crop row (or swath) with the implement precisely aligned to begin working.

## Why NextSwath?

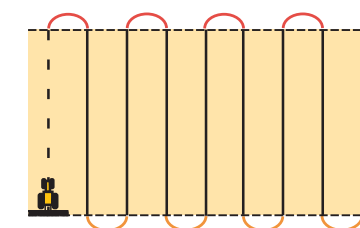
- ▶ Improves turning efficiency and repeatability
- ▶ Saves time, fuel costs, and prevents crop damage



## NEXTSWATH 2 TURN PATTERNS

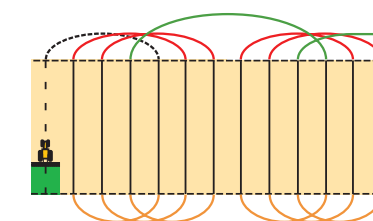
### Standard Pattern

The standard “up and down” turn pattern for typical row crop applications. First introduced with Trimble’s original NextSwath feature release.



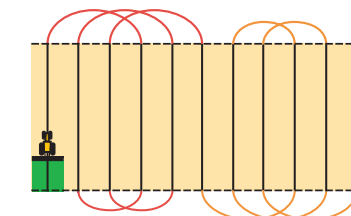
### Continuous Block Pattern

A multi-row pattern which makes all turns in the same direction. Commonly used when working the ground, this pattern greatly reduces the risk of a collision between a drawn implement and the tractor. The easier turns reduces wear and tear on equipment but can cause headland compaction.



### Alternating Block Pattern

Another row-skipping pattern which changes the direction of the turn for each group of swaths. Reduces wear on equipment, but offers more efficient field coverage and slightly less headland compaction due to fewer passes.





# Correction Services

Trimble has been a leader in the market for nearly 40 years and our correction services are the backbone of every precision agriculture solution we offer. Increases in yield can be achieved by using any level of correction, no matter where you are located, Trimble has a correction service solution for your farm.

Which service is best for your farm?

1 Farmers whose high value crops demand highly accurate passes with year-over-year repeatability or who maximise their precision agriculture investment through high accuracy farming practices such as strip tilling or controlled traffic farming.

## CenterPoint® RTX

For high accuracy anywhere on the farm, without set-up time, additional hardware or cell service interruptions.

| Repeatable Accuracy | Convergence Time                  | Delivery  | Compatible With      | Coverage                                    |
|---------------------|-----------------------------------|---|----------------------|---|
| 2.5 cm              | Fast <2 mins<br>Standard <20 mins |  | TMX-2050,<br>NAV-900 | Standard convergence<br>available worldwide |


## CenterPoint VRS

For high accuracy GNSS corrections via cellular modem, with no local base station required.

| Repeatable Accuracy | Convergence Time | Delivery  | Compatible With      | Coverage         |
|---------------------|------------------|---|----------------------|------------------|
| 2.5 cm              | Instant          |  | TMX-2050,<br>NAV-900 | See coverage map |

## CenterPoint RTK


For high vertical accuracy required for water management practices, a local base station is required.

| Repeatable Accuracy | Convergence Time | Delivery  | Compatible With      | Coverage                    |
|---------------------|------------------|---|----------------------|-----------------------------|
| 2.5 cm              | Instant          |  | TMX-2050,<br>NAV-900 | Local base<br>station range |

2 Farmers that do not need 2.5 cm level accuracy, but still want to increase the return on investment of their auto-guidance systems when spraying or spreading.


## RangePoint® RTX

For increased accuracy, with the same ease of use as SBAS solutions, at an affordable price point.

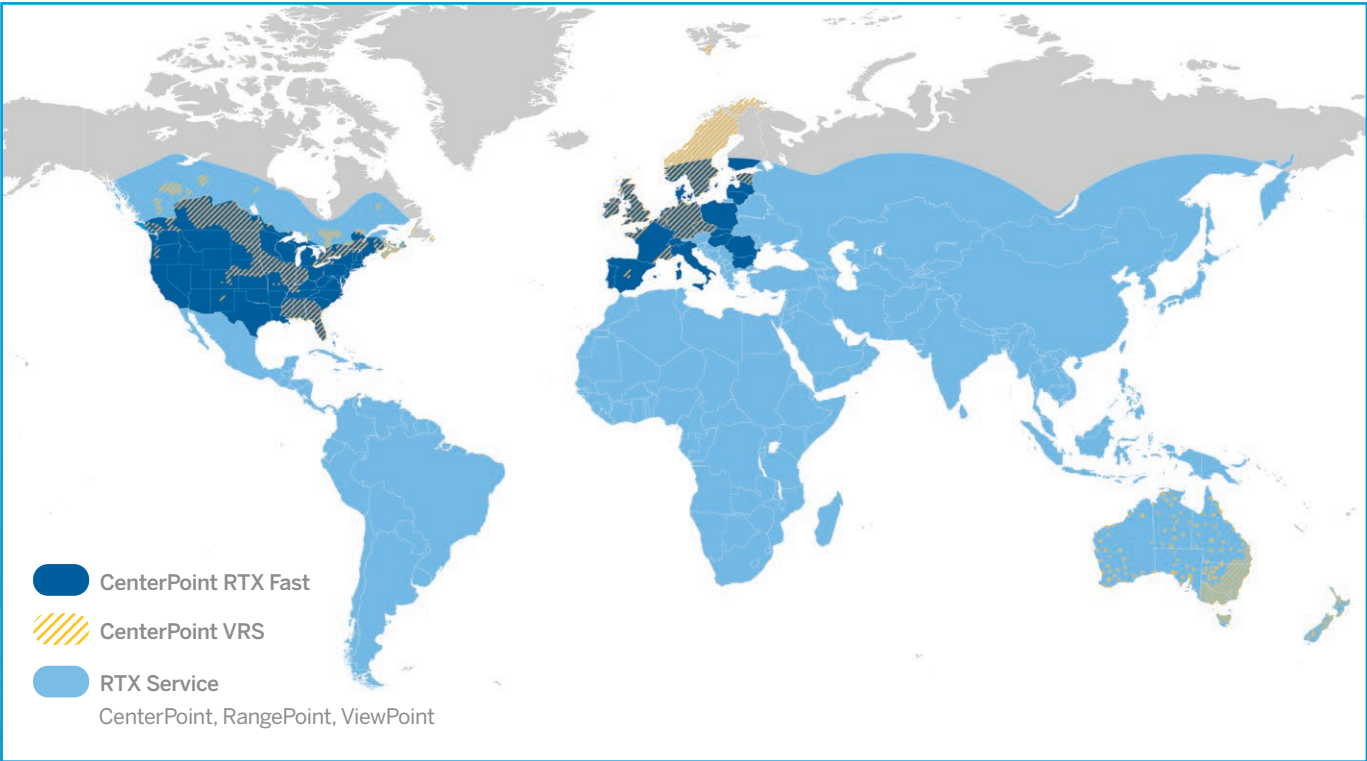
| Repeatable Accuracy | Convergence Time | Delivery  | Compatible With      | Coverage  |
|---------------------|------------------|---|----------------------|-----------|
| 15 cm               | 5 min            |  | TMX-2050,<br>NAV-900 | Worldwide |

## ViewPoint RTX™

For consistent pass-to-pass accuracy with entry-level Trimble guidance systems.

| Repeatable Accuracy | Convergence Time | Delivery  | Compatible With | Coverage  |
|---------------------|------------------|---|-----------------|-----------|
| 30 cm               | 5 min            |  | NAV-500         | Worldwide |

## Correction Services Coverage





# Water Management

## GRADE CONTROL, DRAINAGE AND LEVELLING

### VerticalPoint RTK™

#### GNSS Enhancement

- ▶ Delivers maximum vertical accuracy for levelling and land forming
- ▶ Increases productivity of levelling projects during continuous in-field operations
- ▶ Survey, design, bulk, finish and verify
- ▶ Drives your productive time up to 95%
- ▶ Avoids costly downtime caused by drift from inconsistent vertical GPS signals

### FieldLevel™ II

#### 3D Machine Control

Field-proven solution for surveying, designing, and levelling.

#### Levelling:

- ▶ Surveys and maps your fields
- ▶ Creates a best-fit surface
- ▶ Automatically drives scraper hydraulic valves on any type of tractor and scraper (dual or tandem)

#### Levee design and installation:

- ▶ Designs your levees
- ▶ Analyses the shape of your field and contours, and guides your tractor as the levees are being installed

### WM-Drain®

#### 3D Machine Control

- ▶ Complete solution that streamlines the survey, analysis, design, installation, and verification steps of surface and subsurface drainage projects
- ▶ Ensures optimal 3D drain placement which improves crop yields by controlling ponding, optimising root depth, maximising planting seasons, and minimising nutrient loss



Boost yields up to 30% first year

## WATER MANAGEMENT SOFTWARE

### WM-Subsurface™

#### Design Software

- ▶ Improves placement of field tile and levees to increase crop yields
- ▶ Easily overlays other layers such as yield or soil types to help visualise the field from different perspectives
- ▶ Calculates the recommended pipe size for all pipes within a given design
- ▶ Compatible with the WM-Drain solution

### WM-Form®

#### Design Software

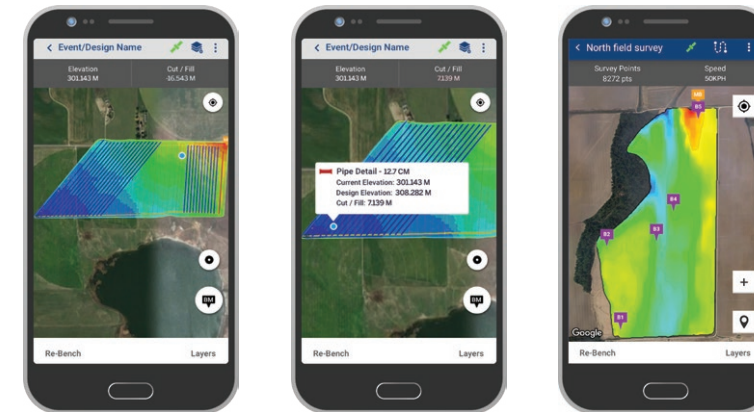
- ▶ Enables the design of variable-shaped fields and topography based on existing contours, water needs of individual crops, and farming practices
- ▶ Levels fields with single or multiple planes
- ▶ Produces 2D cut/fill estimates and reports
- ▶ Enables the drainage of water in any direction and creates variable slope designs to optimise the surface for furrow irrigation
- ▶ Allows the generation of multiple design variations for the field
- ▶ Produces 2D cut/fill estimates and reports



# WM-Survey II

## SURVEY AND VERIFICATION APP

WM-Survey II™ is a standalone app for conducting basic field surveys for use in water management activities. Compatible with any Android phone or tablet, as well as the GFX-750 display, users can connect their own GNSS receiver to create topographic maps.



- ▶ Easily accessible entry-level application for beginning water management work
- ▶ Save money by using the survey equipment that is already owned
- ▶ Intuitive workflows guide users through process and reduce errors
- ▶ Save time with quick and easy verification of FieldForm or tiling designs

## GNSS SMART ANTENNAS



### SPS986 GNSS Smart Antenna

The ultra-rugged SPS986 GNSS smart antenna offers unmatched reliability for agriculture positioning. Ideal for topographic mapping, research, or providing RTK corrections, the SPS986 can serve as a GNSS rover system or as a base station for other GNSS operations including machine guidance.



### R750 Modular GNSS Receiver

The R750 GNSS modular receiver combines the latest Trimble GNSS technology with state-of-the-art hardware to provide users with an advanced receiver. Complete for use as a fixed base station, mobile base, or rover, it is ideal for areas with inconsistent satellite reception.



### Catalyst GNSS Antenna

Catalyst™ is a revolutionary GNSS concept, bringing Trimble quality and precise positioning to the location-enabled workforce with a lightweight, plug-and-play antenna. Catalyst delivers professional-grade positioning to everyone on-demand at a range of accuracy and pricing levels.





# Workflow and Data Management



# Trimble Select



Farmer Core from Trimble Agriculture powers data-driven farm workflows for operations of all sizes. As the cornerstone of the Trimble Connected Farm® solutions, Farmer Core provides the tools to better plan and execute operations, as well as sync, centralise, and leverage valuable data from field work with connected displays. Connecting in-cab hardware to the Connected Farm ecosystem improves operational efficiencies and enables data-driven decision making.



## Data and Resource Management

- ▶ Automatically add, edit, update and delete guidance lines, field names, boundaries, materials, implements, vehicles, and operator information across each connected display with the AutoSync™ feature
- ▶ Wirelessly send prescriptions created in Farmer Core or import from another agronomic application to connected Precision-IQ™ displays
- ▶ Automatically transfer as-applied data from each connected display into a centralised location on the web to analyse, create reports, or export in Shapefile format
- ▶ Create detailed field records for seed, chemical, fertiliser, harvest, and other applications

## Work Orders

- ▶ Use Precision-IQ Display Work Orders to remotely configure and share tasks
- ▶ Select a Work Order in the Precision-IQ display to automatically configure the parameters for a task

## Fleet Tracking

- ▶ Use Fleet dashboard to view vehicle location and current work state
- ▶ Access historical utilisation data to analyse task, vehicle, and operator productivity



Trimble Select is the first precision ag marketplace created by Trimble Agriculture to bring unique and complementary products to the farming community through Trimble's worldwide network of Vantage and Trimble Resellers. Trimble Select Business Partners are independent companies who market and distribute their products and services through Trimble's worldwide distribution network.

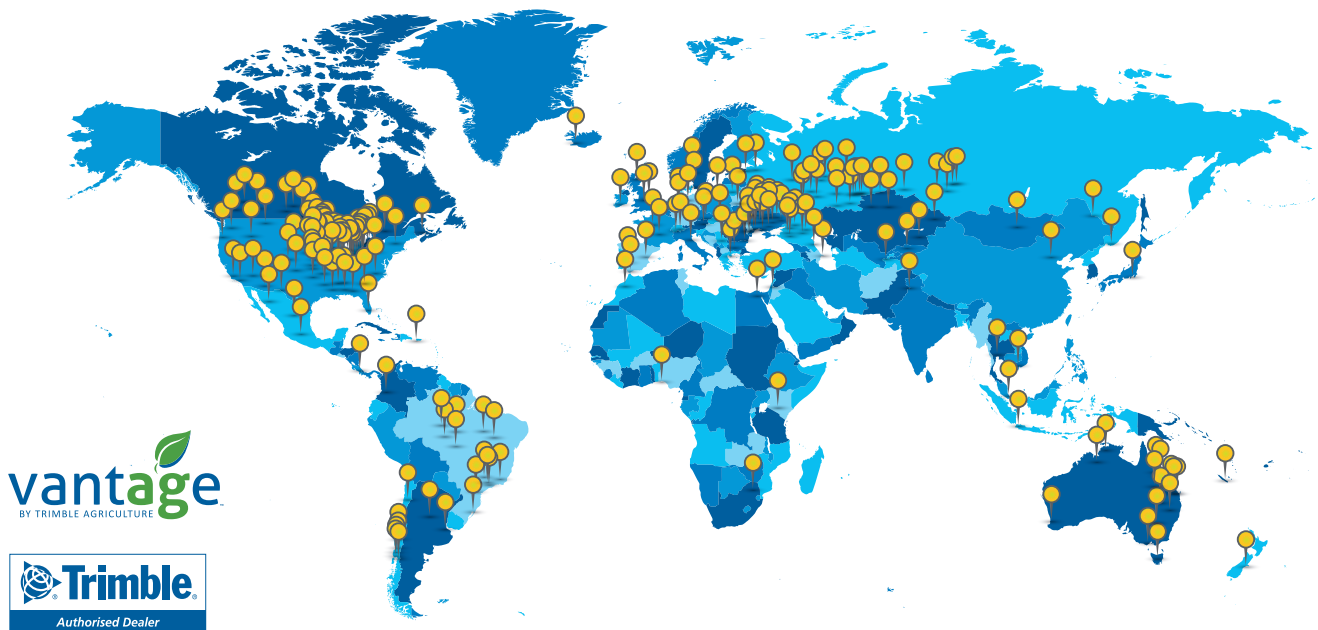
These partners can be found in every region that Trimble conducts business with primary emphasis in the Americas, Europe/CIS/Russia and Australia.

Trimble Select products can be purchased from authorised resellers.





# Global Reseller Network



Trimble's global reseller and Vantage networks offer in-depth technical knowledge and support for your core precision agriculture needs. Representing more than 130 countries, our resellers sell, service, and support the full suite of Trimble agriculture products and solutions.

Trimble's premier distribution network, Vantage, serves as a farmer's partner in precision agriculture. Vantage distributors around the world provide expert advice and seamless implementation of precision ag technology for use on your specific farming operation in order to maximise farm efficiency and productivity through the full range of integrated Trimble Agriculture hardware, software, and data solutions.



LEARN MORE AT: [agriculture.trimble.com](http://agriculture.trimble.com)

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TRANSFORMING THE WAY THE WORLD WORKS

