

# 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® Authorized resellers—technology specialists who provide precision agriculture hardware, software, and data expertise for the entire farm.

# Displays

Trimble guidance displays help you accurately monitor and map field information in realtime. 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, leveling and/or tiling.

- ▶ 12" (30.5 cm) high-definition color 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
- ▶ Customizable 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 touch-screen and compatibility for any ISOBUS-ready tool.

- ▶ Large 10.1" (25.4 cm) high-definition color 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
- ▶ Customizable 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.

- ▶ 7" (17.8 cm) high-definition color touchscreen display
- ▶ Android-based operating system
- ▶ Rugged construction for everyday field use
- ▶ Compatible with the NAV-500 and NAV-900 guidance controllers
- ▶ ISOBUS task controller and universal terminal
- ▶ Control up to 2 channels and 24 sections
- ▶ Trimble RTX correction services compatible



## 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.

TeamViewer QuickSupport functionality has been updated on the Trimble® GFX-350 and GFX-750 displays to allow complete remote control of a display. This means that a TeamViewer QuickSupport user (typically a Vantage™ distribution partner or Authorized Trimble reseller) can control operation of the display from a remote location using the QuickSupport app and TeamViewer software. File Transfer functionality is available too, as it is currently with view-only versions of TeamViewer.



**Please note:** This version of TeamViewer is not supported on the TMX-2050™ display or any display using the Android 4.0 Operating System. Android OS 5.0 or newer is required.

# 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)





Trimble's steering systems use advanced terrain compensation technology to immediately calculate the actual position of the vehicle for improved accuracy in difficult conditions such as rolling terrain, slopes, and rough ground. Complete field applications more quickly, accurately, and safely—day or night.



## 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 broadacre 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
- ▶ Centers the harvester on rows—even when they are not straight

# Steering 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	✓ **	✓ **	✓	✓	✓
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**



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



# Display Comparison

Features	TMX-2050 display	GFX-750 display	GFX-350 display
			
Size of screen	12.1" (30.5 cm)	10.1" (25.4 cm)	7.0" (17.8 cm)
Touchscreen	✓	✓	✓
Bluetooth		✓	✓
Video camera inputs	2	1	1
Includes GNSS receiver	✓		
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	✓	✓	✓

# 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 fertilizer, 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 fertilizer, 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



Save up to  
10% on inputs  
using Field-IQ

## Seed Monitoring

- ▶ Increases the quality of seed placement and analyzes 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

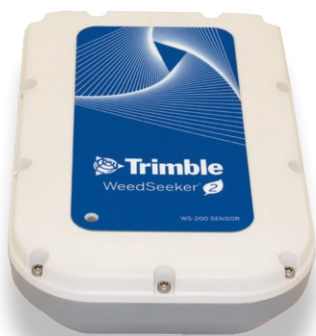




# WeedSeeker 2 Automatic Spot Spray System



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**



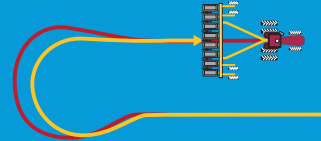


# NextSwath 2 End-of-row Turn Technology

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?

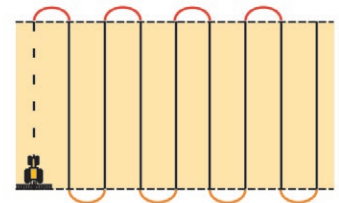
- ▶ Improves turning efficiency and repeatability
- ▶ Saves time, fuel costs, and prevents crop damage



## NEXTSWATH 2 TURN PATTERNS

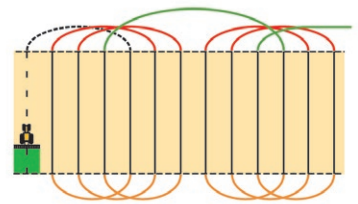
### Standard Pattern

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



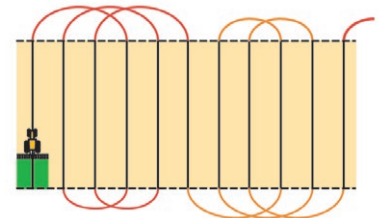
### Continuous Block Pattern

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 maximize 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
<1" (2.5 cm)	Fast <2 mins Standard <20 mins		TMX-2050, NAV-900	Standard convergence 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
<1" (2.5 cm)	Instant		TMX-2050, 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
<1" (2.5 cm)	Instant		TMX-2050, NAV-900	Local base station range






## 2

Farmers that do not need inch 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.




Pass-to-Pass Accuracy	Convergence Time	Delivery	Compatible With	Coverage
<6" (15 cm)	5 min		TMX-2050, NAV-900	Worldwide

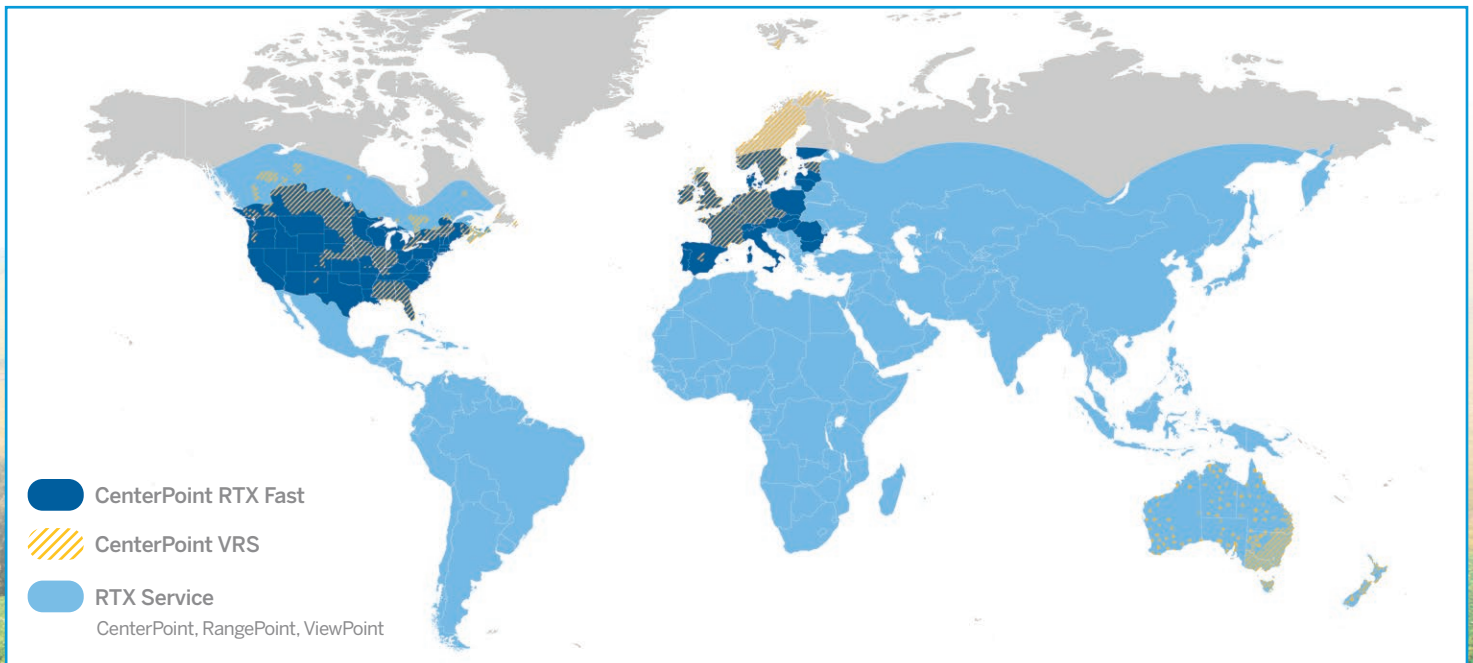
### ViewPoint RTX™

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



Pass-to-Pass Accuracy	Convergence Time	Delivery	Compatible With	Coverage
<12" (30 cm)	5 min		NAV-500	Worldwide

## Correction Services Coverage



# Water Management

## GRADE CONTROL, DRAINAGE AND LEVELING

### VerticalPoint RTK™

#### GNSS Enhancement

- ▶ Delivers maximum vertical accuracy for leveling and land forming
- ▶ Increases productivity of leveling 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 leveling.

##### Leveling:

- ▶ 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
- ▶ Analyzes 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, optimizing root depth, maximizing planting seasons, and minimizing 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 visualize 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

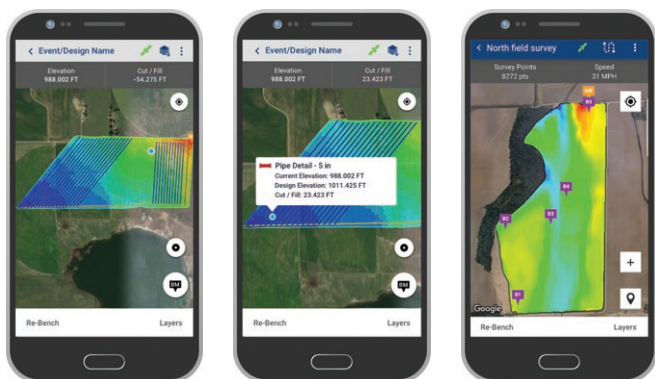
- ▶ Enables the design of variable-shaped fields and topography based on existing contours, water needs of individual crops, and farming practices
- ▶ Levels fields with single or multiple planes
- ▶ Enables the drainage of water in any direction and creates variable slope designs to optimize the surface 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, free-to-download app for conducting basic field surveys for use in water management activities. Through paid subscriptions it also automates the creation of terrace and waterway cross-section profile designs as well as auto-creates rice levee designs. Compatible with any Android™ phone or tablet (version 9.0 or higher), as well as the GFX-750™ display, users can connect their own GNSS receiver to create topographic maps for use in a variety of applications.



- ▶ Automated terrace and waterway cross-section profile designs
- ▶ Automated rice levee designs allow same day installation
- ▶ Get to work installing designs minutes after completing field surveys
- ▶ Intuitive workflows guide users and reduce errors
- ▶ Save time with quick and easy verification of surface or tiling designs

## 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.



## Auto-Design Subscriptions

Enabled through optional subscriptions, WM-Survey II becomes even more powerful by automating the creation of certain surface drainage structures. Typically reserved for our water management design software packages, these advanced features can generate terrace cross-section profile designs, waterway cross-section profile designs, rice levee system designs, as well as the 3D surface control files and navigational guidance lines needed earthmoving equipment to implement the designs.

## Terrace & Waterway Solution Subscription

The Terrace & Waterway Design solution allows the user to easily and automatically create a basic terrace or waterway design in just five steps. The 3D control files and feature line guidance files for compatible Trimble® displays are also auto-created, allowing land forming work to begin right away—no more waiting for designs to come back from the office. Farmers can now perform consistent maintenance, extending the life expectancy of terraces and waterways while boosting yields in terraced fields by up to 5%.

## Rice Levee Design Subscription

The Levee Design subscription feature uses a five-step guided workflow to auto-create rice levees based on desired specifications and elevation across a field. Upon creation of the design, feature line guidance files are also exported and available for use in levee creation. Minimize yield loss from weather-delayed planting by building the levees right away. Eliminate the hours or days waiting for a designer to get back to you.

# Workflow and Data Management

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, centralize, 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 centralized location on the web to analyze, create reports, or export in Shapefile format
- ▶ Create detailed field records for seed, chemical, fertilizer, 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 utilization data to analyze task, vehicle, and operator productivity





# Trimble Select

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.

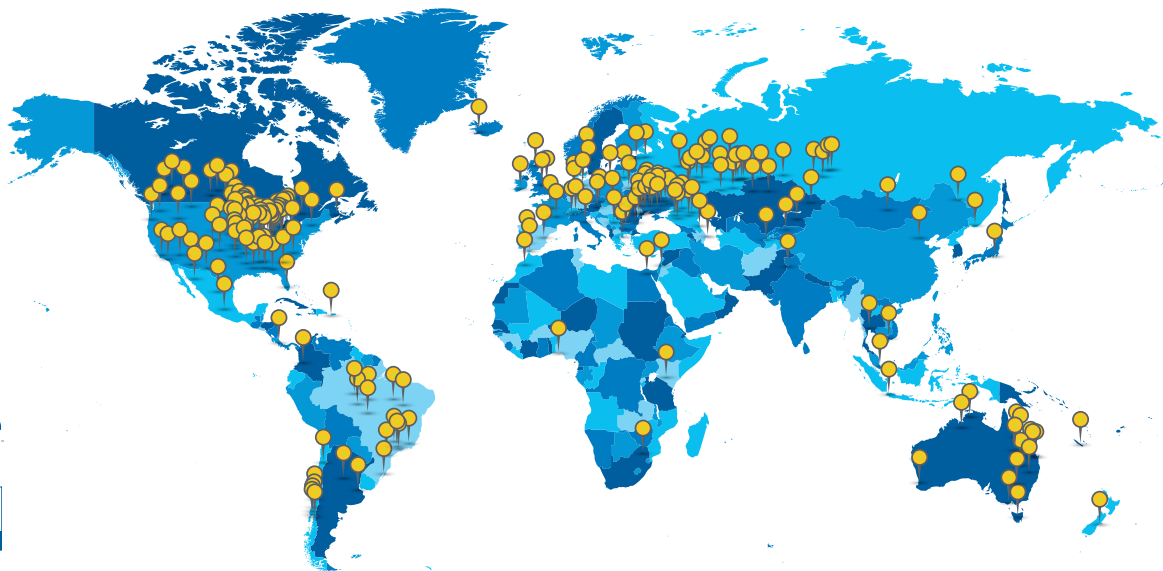
These partners can be found in every region that Trimble conducts business with primary emphasis in the Americas, Europe/CIS/Russia and Australia.

Trimble Select products can be purchased from authorized 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 maximize 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

