



PTx
Trimble

PRODUCT PORTFOLIO



TABLE OF CONTENTS

Introduction	3
Crop Production Cycle	4–5
Guidance & Steering Displays	6–7
Display Comparison	8–9
Guidance Receivers	10–11
Correction Services	12–13
Steering Systems	14–15
Spotlight on Precision-IQ	15–16
Farm Operations Management	17–18
Flow & Application Control	19–21
Reseller Network	22
Learn More with PTx Trimble Tools	23



PTx Trimble® provides user-friendly and innovative precision ag solutions that solve complex technology challenges across the entire farm. Our solutions enable farmers and advisors to allocate scarce resources to produce a safe, reliable food supply in a profitable and environmentally sustainable manner. Covering all seasons, crops, terrains and farm sizes, PTx Trimble solutions can be used on most equipment on the farm, regardless of manufacturer.

From the office to the field, all year round, PTx Trimble helps growers complete farm work smarter, faster, and more efficiently. To enable better decision making, we offer data integration that allows farmers to collect, share, and manage information across their farm, while providing improved operational efficiency by connecting to external agronomic resources and simplifying regulatory compliance. PTx Trimble solutions include guidance and steering; flow and application control; planting; nutrient management; crop protection; desktop and cloud-based farm operations management solutions; as well as Trimble correction services.

Simply put, PTx Trimble provides industry-leading Mixed Fleet Precision Ag Solutions.

For more information on PTx Trimble, visit: ptxtrimble.com



CROP PRODUCTION CYCLE

Solutions for Every Phase of the Crop Production Cycle

As agriculture expenses continue to rise, regulators call for fewer chemical inputs, and the efficient use of both land and water continues to be in high demand. It is more important than ever for farmers to prioritize the productivity-enhancing precision ag solutions from PTx Trimble. Here is an overview of the operations and field activities that we support with easy-to-use, flexible and scalable offerings suitable for every growing operation.





1. Land Prep

It all starts with the earth. Efficient soil treatments and tillage lay the foundation for a successful crop season. The guidance, steering, flow, and application control product lines offered by PTx Trimble work together to maximize the benefits of your land preparation activities.

2. Planting

The most important operation of the year for most farms. There's only one chance to get it right the first time, and PTx Trimble helps ensure it is with simplified workflows, section control, variable rate capabilities, and a wide range of implement control options.

3. Fertilization & Nutrient Management

There's still plenty to do once the crops are planted. Pre- and post-emergence applications help guarantee a crop yield reaches its full potential. PTx Trimble solutions allow precise control of hundreds of implement brands and equipment types.

4. Spraying & Crop Protection

Preventing loss is the name of the game later in the growing season. PTx Trimble is all in on providing accurate and extensive implement control through both ISOBUS and proprietary flow, and application control solutions.

5. Harvest

Whether you need to fulfill a large grain order or have a short window of time to complete your work, PTx Trimble has the equipment and software required to enable a fast, accurate and efficient harvest.

GUIDANCE & STEERING DISPLAYS

The guidance displays from PTx Trimble boast the easy-to-use and easy-to-learning Precision-IQ™ interface, which enables seamless control and management of all in-field activities.

Our Android™-based touch screens monitor and map field information in real-time while remaining available for work with our industry-leading reliability. Choose from a variety of options to best meet your farming needs.

Precision Ag technology boosts profit by **\$60 per acre or \$150 per hectare on average¹**



GFX-1260™ Display

Our flagship 12-inch (30 cm) display features the performance and agility to manage the toughest and most complex tasks in a grower's operation.

- Reliable display maximizes uptime and allows operators to work long hours, day or night
- Compatible with most every kind of equipment, regardless of brand or model
- Intuitive controls allow both experienced and inexperienced operators to work effectively
- High connectivity provides access to real-time farm data for efficient decision making



GFX-1060™ Display

The latest 10-inch (25 cm) display from PTx Trimble enhances the user experience with the power and connectivity required to swiftly and accurately carry out daily farm operations.

- Modular “mix and match” technology allows the solution to grow with an operation
- Full ISOBUS compatibility enables true mixed fleet capability across equipment brands
- Familiar Precision-IQ interface helps manage all aspects of farm and field operations
- Rugged design provides long-term reliability in challenging environments



GFX-350™ Display

This 7-inch (18 cm) display offers great functionality and a simplified installation, providing access to autosteering and application control for every farm in a cost-effective package.

- Tough construction to handle every day use across vehicles and field operations
- Compatible with a range of guidance controllers and steering systems depending on preference
- Multiple connectivity options to enable efficient sharing of data across the business
- ISOBUS functionality to allow maximum compatibility and transferability



TeamViewer QuickSupport with Remote Control

Breakdowns or the need for operator support can happen any time, anywhere. When the nearest technician is hours away, TeamViewer QuickSupport with Remote Control allows your support team to access and assess the status of your GFX display and connected PTx Trimble precision ag system from the field. Your dealer can now see and control connected displays from their office to solve farmer problems in the field.

Please note: This version of TeamViewer with Remote Control is not supported on the TMX-2050™ display or ISOBUS terminals, and requires an internet connection on GFX displays.

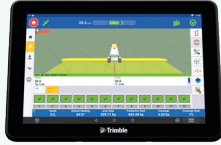
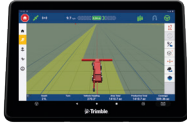
¹ www.ers.usda.gov/webdocs/publications/80326/err-217.pdf

¹ farmeddaily.illinois.edu/2020/03/quantifying-the-economic-benefits-of-on-farm-digital-technologies.html



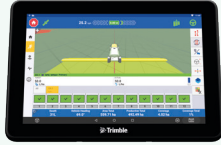
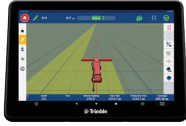
DISPLAY COMPARISON

Using Precision-IO™ field application

			
Specifications	GFX-1260 Display	GFX-1060 Display	GFX-350 Display
Screen Size	30.7 cm (12.1 in)	25.6 cm (10.1 in)	17.1 cm (7 in)
Storage	32GB	32GB	16GB
RAM	4GB	4GB	1GB
USB Ports	2	2	1
100Base-T1 (BRR Ports)	2	1	1
CAN Ports	3	3	1
External Camera Support	2	2	1
Processor (CPU)	Quad-Core iMx8 PLUS 4x Cortex A53@1.2 GHz 1x Cortex A72@1.6 GHz 64 bit	Quad-Core iMx8 PLUS 4x Cortex A53@1.2 GHz 1x Cortex A72@1.6 GHz 64 bit	Quad-Core iMx6 PLUS @1GHz
Front Facing Camera	Low-light level, color, 1.0 M pixels, 720 p	Low-light level, color, 1.0 M pixels, 720 p	N/A
Bluetooth®	Bluetooth 5	Bluetooth 5	Bluetooth 4.1
Wi-Fi®	2.4 & 5 GHz	2.4 & 5 GHz	2.4 GHz
Software Connected Features			
Direct Send or Resources and VRA Maps	Standard	Standard	Standard
Automatic Task Collection	Standard	Standard	Standard
Fleet Status	Option	Option	Option

KEY

- Standard - Included functionality
- Option - Functionality requires additional license
- Not Available

				
Guidance Line Features		GFX-1260 Display	GFX-1060 Display	GFX-350 Display
AutoSync™ Feature Headland, AB, A+, Curve, Pivot, As-Applied, Create Access Paths, Create Tram Lines, Square Headlands, FreeForm, Guide to Tram Lines		Standard	Standard	Standard
Guide to Feature Lines		Standard	Standard	N/A
Return to Pause		Standard	Standard	Standard
Application Control Licenses				
ISOBUS Universal Terminal		Option	Option	Option
ISOBUS Task Controller		Option	Option	Option
Prescriptions – multi-layer, multi-file, import .shp and ISO XML		Option	Option	Option
Serial Rate and TUV R		Option	Option	Option
Application Control Licenses				
ISOBUS	Universal Terminal	Option	Option	Option
	Task Controller (TC)	Option	Option	Option
	Controlled Channels	Standard-1 channel	Standard-1 channel	Standard-1 channel
		Up to 6 channels	Up to 6 channels	Up to 2 channels
	ISO TC Section Control	Up to 255 sections	Up to 255 sections	Up to 24 sections
Serial Rate/ TUV R	Controlled Channels	Option-1 channel	Option-1 channel	Option-1 channel
		Up to 6 channels*	Up to 6 channels*	Up to 2 channels*
	Serial/TUV R Sections	Up to 255 sections	Up to 255 sections	Up to 24 sections

KEY

- Standard - Included functionality
- Option - Functionality requires additional license
- Not Available

***Any additional channels require the Multi Channel/Multi Product License**

GUIDANCE RECEIVERS



Actual product may not match the branding decals displayed in this image.

Experience the easiest, most robust way to get repeatable < 2.5 cm (1 in) high-accuracy performance out of your machines.

NAV-900 Guidance Controller

The most advanced GNSS receiver from PTx Trimble to date is built for maximum uptime and a wide range of accuracy options from basic to high precision. It is designed to mount on the roof of most agricultural vehicles to provide positioning and guidance, including autosteer.

- Access all available global GNSS constellations including GPS, GLONASS, Galileo, Beidou, and QZSS
- Built-in Bluetooth for simple, remote service access
- Utilizes the powerful ProPoint® GNSS engine from Trimble for robust performance in harsh environments with Trimble CenterPoint RTX correction service
- Supports assisted steering and automated steering solutions, including slow speed engagement, autosteer in reverse, and NextSwath™, for high accuracy field applications in every environment
- Upgrade capable from simple manual guidance to full autosteer with end of row turn technology



NAV-500™ Guidance Controller

Paired with any GFX series display, this is a cost-effective precision solution capable of supporting multiple GNSS satellite constellations.

- Get repeatable sub-meter accuracy and full-farm coverage during tillage, broadcast seeding, spraying and harvest
- Rugged low-profile housing easily withstands long days in the field
- Provides access to the Trimble ViewPoint RTX™ correction service and SBAS where available
- Offers roll-corrected manual guidance and compatibility with multiple assisted steering options



PTx Trimble AG-482 Receiver

The PTx Trimble AG-482 receiver offers high accuracy for customers selecting factory-fit guidance on Fendt, Massey Ferguson, and Valtra equipment. Introduced to the first AGCO machines in 2020, the AG-482 offers marked performance improvement over its predecessor the AG-382 with higher reliability and quicker convergence times thanks to the ProPoint software engine.

The AG-482 receiver flexibly offers either Trimble CenterPoint RTX or Trimble RangePoint® RTX correction service capability. The receiver also saves time and reduces service visits with over the air (OTA) accuracy upgrades when triggered in the FUSE Upgrades and Subscriptions portal. Ask your AGCO dealer if your purchase qualifies for this offer.

- Access 336 global GNSS tracking channels, which can track up to 58 satellites
- Combined GNSS/DGNSS receiver and antenna
- GPS, Galileo, BeiDou, GLONASS, QZSS tracking ability
- Utilizes PTx Trimble's new ProPoint GNSS technology for faster convergence and greater uptime, especially near treelines and other obstructions
- Trimble CenterPoint RTX combined with ProPoint allows up to 40% greater guidance availability under treelines and works faster with convergence times less than 5 minutes in most regions.

Enhance your field work
in every stage of the
crop cycle with accurate
and repeatable
correction services

CORRECTION SERVICES

PTx Trimble has been a leader in the positioning market for nearly 40 years and the Trimble correction services are the backbone of every precision agriculture solution we offer. High accuracy precision ag field work ensures proper, and repeatable, placement of all inputs. No matter where you are located, PTx Trimble has a correction service solution for your farm.

PTx Trimble has a correction service for every agricultural need, no matter what you farm, how you farm, or where you are located in the world. Stay online year over year, for every application, every time.



Trimble CenterPoint® RTX

High accuracy available anywhere on the farm delivered independently by a cellular connection or via satellite. In areas with limited cellular coverage, stream switching automatically selects the best available delivery method.

- Repeatable Accuracy: < 2.5 cm (1 in)*
- Convergence Time:

< 2 min for CenterPoint RTX Fast

< 5 min for CenterPoint RTX with ProPoint

- Delivery: Satellite and/or cellular modem
- Compatible With: NAV-900 and AG-482



Trimble CenterPoint VRS™

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

- Repeatable Accuracy: < 2.5 cm (1 in)
- Convergence Time: Instant



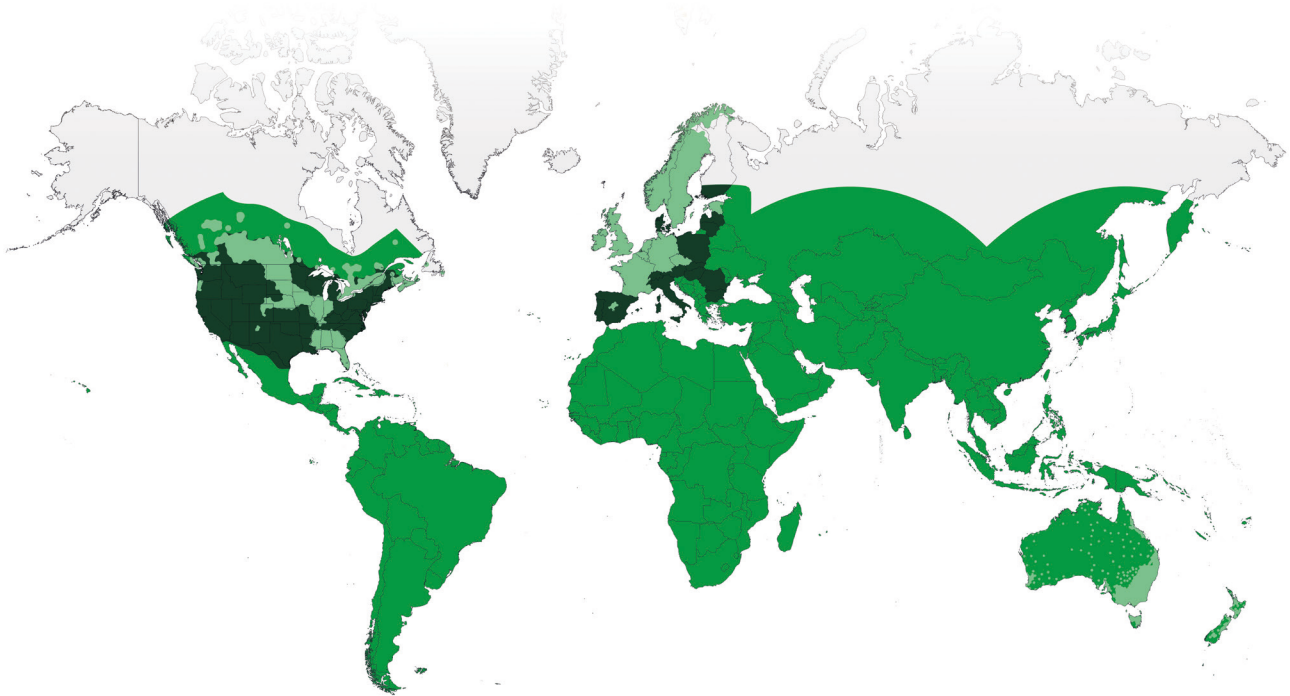
Trimble CenterPoint RTK

Compatible with a wide variety of base stations you may already own.

- Repeatable Accuracy: < 2.5 cm (1 in)
- Convergence Time: Instant
- Compatible With: NAV-900 and AG-482

Note: *95% performance based on repeatable in field measurements. Achievable accuracy and initialization time may vary based on type and capability of receiver and antenna, user's geographic location and atmospheric activity, scintillation levels, GNSS constellation health and availability and level of multipath including obstructions such as large trees and buildings.

COVERAGE MAP



KEY

- Trimble Centerpoint RTX FAST
- Trimble Centerpoint VRS
- Trimble Centerpoint RTX, Rangepoint RTX, Viewpoint RTX, xFill Premium



ADDITIONAL ACCURACY LEVELS

Trimble RangePoint® RTX



For increased accuracy, greater productivity and improved yields at an affordable price point.

- Pass-to-Pass Accuracy: < 15 cm (6 in)*
- Convergence Time: < 5 minutes
- Delivery: Satellite and cellular modem
- Compatible With: NAV-900 and AG-482
- Coverage: Worldwide

Trimble ViewPoint RTX™



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

- Pass-to-Pass Accuracy: < 30 cm (12 in)*
- Convergence Time: < 5 minutes
- Delivery: Satellite and cellular modem
- Compatible With: NAV-500
- Coverage: Worldwide

STEERING SYSTEMS

A wide selection of automated and assisted vehicle and implement steering systems from PTx Trimble ensures maximum precision for all your farming operations. Hands-free guidance keeps your equipment on line no matter the field pattern or driving conditions, while increasing safety through reduced operator fatigue.



Autopilot™

Automated Steering System

- Our most accurate steering system keeps your vehicle on-line with repeatable precision
- Installs directly into the hydraulic system or connects via CANbus for guidance-ready power units



Autopilot Motor Drive Solutions

System

- Autopilot-level accuracy in a steering-column mounted package with no hydraulic install required
- Hundreds of platform kits available to steer more than 40 vehicle brands



EZ-Pilot® Pro

Assisted Steering System

- Guides in reverse for up to 15 seconds to line up the next swath
- High accuracy guidance for MFWD and 4WD tractors, as well as combines



EZ-Steer®

Assisted Steering System

- Portable, hands-free steering for more than 1200 vehicle makes and models
- Ideal for cost-conscious farmers with low-torque steering wheels



SPOTLIGHT ON PRECISION-IQ

The Precision-IQ field application is our intuitive, easy-to-use advanced field management system included on all of our current Android-based displays. With this interface, you can guide your vehicle accurately on every pass and turn across a field, precisely control the implements doing the actual work, and share data across the entire farming operation. Precision-IQ software continues to evolve and expand its ability to control all aspects of in-field operations for growers around the globe running any brand of farm vehicle. Below are some of the key capabilities and available add-ons for this flexible and scalable solution.



FreeForm Guidance Pattern

FreeForm guidance patterns give farmers the ability to adapt vehicle guidance behavior to the unique contours of the field. By removing the constraints of predetermined patterns, FreeForm allows users to make the most efficient use of fuel and crop inputs, saving time, money and energy to make the most of their field's potential.



NextSwath End-of-Row Turn Technology

Save time and increase the productivity of your fields by automating your end-of-row turns. NextSwath automatically calculates and executes the best possible path to turn around a vehicle and approach the next crop row or swath with the implement precisely aligned to return to work. This feature not only saves on fuel costs but improves yield by reducing crop damage and limiting headland compaction.

Note: Requires a NAV-900 guidance controller and additional software license.



Direct Send

This simplified syncing feature delivers the exact resources needed to perform a desired activity to a specific vehicle, without impacting (or syncing to) other displays and operators. Direct Send delivers specific resources to an individual device, eliminating the need to manually move data with USB drives.



FARM OPERATIONS MANAGEMENT

The precision ag software and cloud-based applications from PTx Trimble help farming businesses of all sizes organize data, streamline workflows and get the most value from every field. Whether you are looking for more accurate records to aid decision-making, want to take complexity out of your operators' hands, or need to make sure the job gets done efficiently and on time, PTx Trimble offers a suite of data management solutions that make it easier to turn information into revenue.



Trimble Ag Software

Our software solutions offer a range of operational, record-keeping and agronomic features to help your team focus on what's most important—getting the work done correctly and efficiently. Trimble Ag Software enables farmers to manage display data anywhere, plan and orchestrate field operations, and effectively manage the business aspects of farming.

- Organize display data to ensure field work is executed correctly
- Save time collecting and sharing job data from the display
- Access real-time information to more effectively run operations
- Optimize operational efficiency by managing daily work and monitoring field activities

TAS Data - Key Benefits

Increase in-field work time and reduce operator error with field resources delivered by Direct Send

- Stay on top of equipment usage and reduce work delays with fleet tracking
- Save time every day with automatic collection and cloud upload of as-applied data
- Ease the burden of compliance requirement with auto-generated reports and direct data sharing capabilities
- Create, edit, import, export, sync to displays, search, and filter: boundaries, guidance lines, landmarks,

One-year
Trimble Ag Software
– Data license included
with purchase of a
new GFX display



Field Manager™

Create, manage and send resources for field work from any connected device. The intuitive web interface mimics the resource management features in Precision-IQ and gives farmers the ability to manage all their field data from within Trimble Ag Software.

Centralized data management

Data sync features bring together operational information as it is collected to save time setting up displays for field work, compiling and reviewing as-applied records, and finding the data you need to efficiently scale your business.

Optimized Communication and Planning

Thanks to live updates and the ability to send prescription files, you can make sure your team has the information they need to tackle their to-do list so you can get back to yours.

Third-Party Data Integrations

Trimble Ag Software supports data compatibility, connectivity and data exchange with other third-party farm management software platforms via an available API, including those from Fendt, Massey Ferguson, Valtra, Raven, John Deere, Case IH, New Holland, and more.





FLOW & APPLICATION CONTROL

Managing the rate and flow of crop inputs is an essential part of every modern precision ag operation. Flow and application control solutions from PTx Trimble assist farmers in precisely applying inputs like seed, fertilizer, and crop protection exactly where needed in their fields.

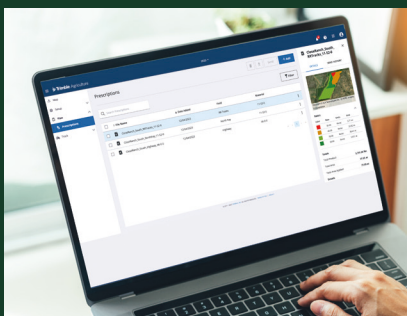
TUVR & Serial Rate Control

PTx Trimble Universal Variable Rate (TUVR) control is a serial based communications protocol available on a wide variety of implement controllers, providing even more ways for farmers to manage and save on inputs.

- Enable automatic rate and section control functions with the hardware you already own
- Serial rate support and section switching commands available for 3rd party protocols and OEM displays
- Eliminate over-application while saving valuable time and money



Reduce seed costs
up to 10%
with individual row control²



Prescription Maps

Use PTx Trimble Ag Software to leverage crop data from previous years and upload and send prescription maps to place the right rate of seed in the right place.

- Wirelessly transfer prescription maps from the office to the display for planting with variable rate technology



Variable Rate Application Control

Simultaneously control the application rate of up to 6 different materials including seed, granular fertilizer, liquid, and anhydrous ammonia in different combinations.

- As-applied mapping records where you've placed inputs
- Automates record keeping



Implement Control

Plug PTx Trimble displays into ISOBUS-ready implements or easily retrofit existing planters and seeders to be ISOBUS-compatible for ultimate implement control.

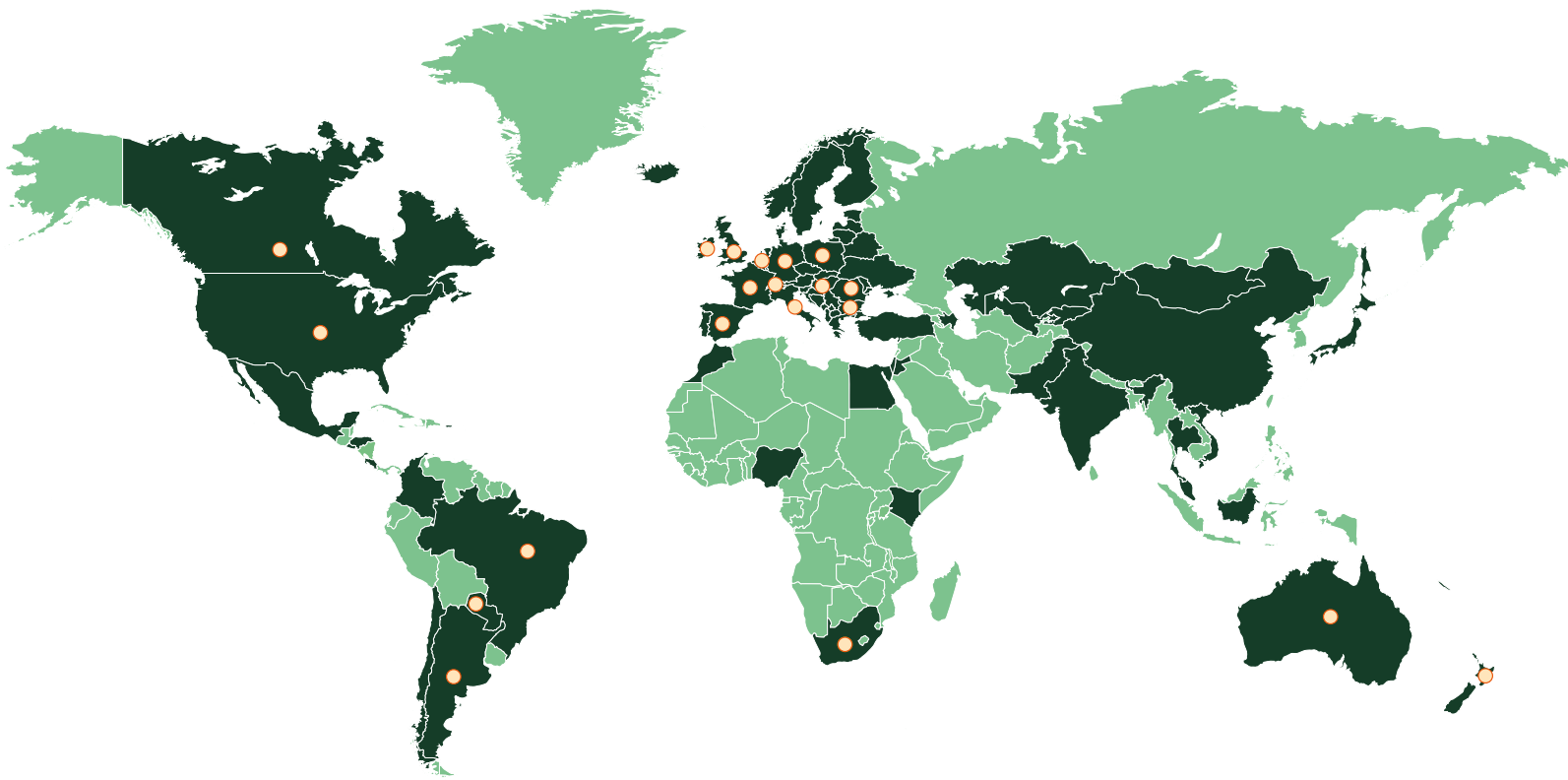
- Expand productivity by moving control logic and equipment configurations to the implement so any ISOBUS capable display can run them
- Ideal for mixed fleets with multiple power units—remove the need to tie your implement to a single tractor

² www.globalagtechinitiative.com/alliance/precision-agriculture-higher-profit-lower-cost/



**Save up to
\$25 per acre**
((\$60 per hectare)
on inputs with
variable rate
technology³

³ [www.ers.usda.gov/amber-waves/2016/
may/cost-savings-from-precision-agriculture-
technologies-on-us-corn-farms/](http://www.ers.usda.gov/amber-waves/2016/may/cost-savings-from-precision-agriculture-technologies-on-us-corn-farms/)



● Trimble Authorized Dealer: Official source for PTx Trimble agriculture solutions.

○ Distribution Partner: Premier distributor partner of PTx Trimble precision agriculture solutions.

RESELLER NETWORK

The global network of expert precision ag resellers from PTx Trimble offers customized sales, support, and service of our entire portfolio. Our PTx Trimble Authorized Dealers have years of experience and deep knowledge of the local agricultural landscape, allowing them to provide excellent solution recommendations and advice on everything a grower needs to maximize farm efficiency, sustainability and productivity.

Find your local dealer today at:

ptxtrimble.com/en/how-to-buy



LEARN MORE WITH PTX TRIMBLE TOOLS

PTx Trimble aims to do more than just provide rugged and reliable solutions to farming's biggest challenges. We also want to educate farmers on exactly how precision agriculture can benefit their operations. To that end, we have a variety of tools and platforms available to anyone with a thirst for knowledge.

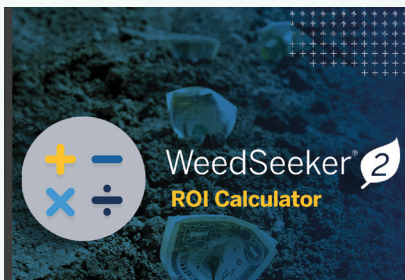
Visit learn.trimble.com for e-learning experiences as well as our blog available at agriculture.trimble.com/blog



Virtual Farm

PTx Trimble Virtual Farm is an interactive online experience for farmers all over the world to immerse themselves in the world of precision ag. We know farming is hard—but our precision solutions can help make it easier. See how our easy-to-use technology can maximize productivity and ROI for your operation at Virtual Farm:

ww2.agriculture.trimble.com/virtualfarm/



ROI Calculators

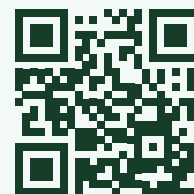
Farming is expensive, but precision ag doesn't have to be. In fact, precision ag solutions can often pay for themselves via reduced inputs and operational expenses. To show the specific value they can provide for your unique situation, we have a range of return-on-investment and savings calculators. Check them out at:

agriculture.trimble.com/en/learn/resources



FAST App

The FAST App (Flexible Agriculture Solutions by PTx Trimble) is an easy-to-use precision ag recommendation tool for resellers or farmers. By answering 10 quick questions about a growing operation, the app will suggest a customized set of PTx Trimble products while also providing valuable information about potential customers. Find it at ag.trimble.com/fastapp or on the Android and iOS app stores.



Follow PTx Trimble on social media



PTx.Trimble



@PTx.Trimble



@PTxTrimble