ADVANCED FARMING SYSTEMS

CASE IH AGRICULTURE

ADVANCED FARMING SYSTEMS

AFS ADVANCED FARMING SYSTEMS

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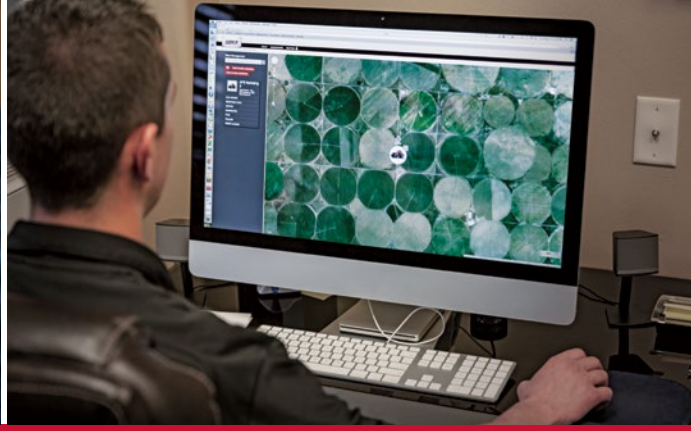


PRECISION TECHNOLOGY THAT MAKES THE MOST OF EVERY SEASON, SOIL AND SEED.

Case IH Advanced Farming Systems (AFS) and AFS Connect™ deliver an integrated precision farming solution that supports High-Efficiency Farming by enabling efficient use of time, resources and inputs to maximize returns on every acre. AFS gives you more control over every operation down to the square inch. From managing inputs during field preparation, planting and growing, to monitoring yield and moisture at harvest – you control the entire crop production cycle. Use components like AFS AccuTurn™ to maximize your vehicle's turning accuracy or ISOBUS Automation to reduce the number of operator tasks during a long day of baling, and manage your entire fleet with AFS Connect. Reduce waste, increase overall efficiency and uncover opportunities that turn potential into profit. Rethink productivity with Case IH AFS to make the most of every season, soil and seed.

AFS ADVANCED FARMING SYSTEMS

ADVANCED FARMING SYSTEMS

Advanced Farming Systems (AFS) is precision technology that improves productivity and agronomic performance while minimizing waste. It's how we define Case IH High-Efficiency Farming: efficient use of time, resources and inputs. Built directly into your Case IH equipment, AFS delivers intuitive precision farming solutions that connect each phase of crop production into an interdependent system. The result – precision down to the square inch that increases overall efficiency and maximizes yield potential.

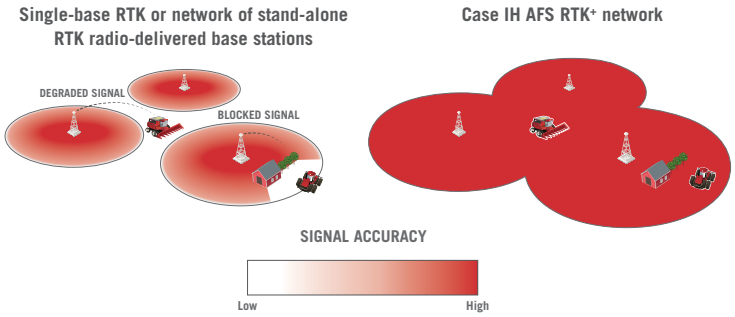
AFS ADVANCED FARMING SYSTEMS

EQUIPMENT EFFICIENCIES.

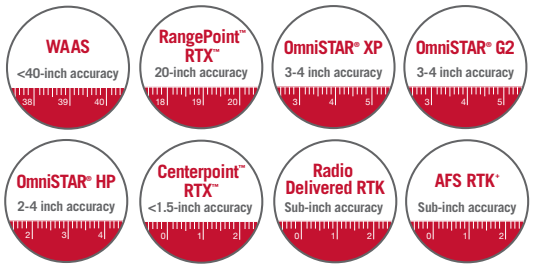
Guidance and Corrections

- **AFS AccuGuide™ autoguidance** uses deferential corrections to guide and steer your tractor, combine, sprayer, floater and windrower for year-to-year repeatable accuracy. Choose from the many guidance correction signals available to best match operation and accuracy needs.
- **AFS RowGuide™** works with AFS AccuGuide on combines to provide accurate, hands-off steering during corn harvest to achieve and maintain accurate row positioning in ever-changing harvest conditions, thereby reducing operator fatigue.

- **AFS RTK+** is cellular-based guidance correction with sub-inch repeatable accuracy, using RTK base stations that are networked together. AFS RTK+ benefits include:
  - Seamless signal availability anywhere within network
  - Consistent accuracy at any distance from the base
  - Negates radio issues, such as line-of-sight interference



- **AFS 372 GNSS receiver** relies on GPS/GLONASS signals and is capable of a wide range of accuracy levels. Available factory installed on Case IH tractors, combines, windrowers and sprayers – or installed by your Case IH dealer – the AFS 372 can utilize:
  - WAAS and RangePoint RTX (subscription purchased separately)
  - OmniSTAR, CenterPoint RTX, CenterPoint VRS and RTK correction signals (additional activation levels)



All values shown above represent repeatable accuracies for the AFS 372 GNSS receiver.

EQUIPMENT EFFICIENCIES (CONT.)

Guidance and Corrections (Cont.)

- **AFS AccuTurn** works with AFS AccuGuide to provide hands-free steering for automatic, repeatable end-of-row turns — maximizing a vehicle's turning accuracy and overall efficiency while reducing operator fatigue. AFS AccuTurn improves yield potential by ensuring agronomically correct field layouts that can be precisely followed during every phase of the crop production cycle.

  ADVANTAGES
  - Continuously projects and customizes the vehicle's turn path
  - Plans turning paths in irregular-shaped fields
  - Uses implement positioning as a reference point to trigger a turn
  - Ensures that the implement is square after every turn
  - Informs operator of the intended turn path

INTUITIVE SPEED AND DISTANCE INDICATOR
- Displays a time and distance countdown to the upcoming turn
- Displays a vehicle speed threshold for the planned turn

FULLY CUSTOMIZABLE
- Choose between multiple turn triggers including headlands, field boundaries or end-of-swath
- Make early or late turns
- Skip up to 12 swaths
- Customize the turn path to optimize implement positioning for re-entry when using trailing implements with a long hitch

VEHICLE COMPATIBILITY*
- Steiger® series tractors
- Magnum™ series tractors
- Optum® series tractors
- Puma® series tractors
- Maxxum® series tractors

*** AFS AccuTurn is compatible with Case IH 2009 – Current model vehicles. Vehicles must be equipped with AFS AccuGuide and include an AFS Pro 700 display, AFS 262/372 receiver and a NAV II/III controller.**

EQUIPMENT EFFICIENCIES (CONT.)

Guidance and Corrections (Cont.)

- **Case IH ElectriSteer** universal steering motor works with the AFS Pro 300 or Pro 700 display to provide an autoguidance solution for a variety of new and legacy Case IH equipment and all-makes competitive machines.

ADVANTAGES

- Easy installation utilizing existing steering wheel
- Operating speeds: 1.0 to 15+ MPH
- Reverse operation
- Common user interface and precision farming functions as AFS AccuGuide
- Meets OEM performance and durability requirements
- Transferable for use in multiple vehicles

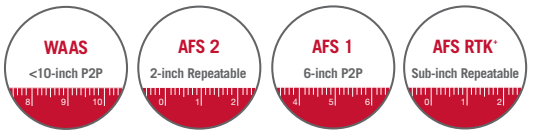
MOTOR DRIVE UNIT (MDU)

- High-torque, positive-gear drive delivers whisper-quiet operation
- High-speed motor provides quick correction response
- Manual switch quickly engages or disengages for road transport
- Split-ring assembly design allows for installation and removal

VEHICLE APPLICATIONS

- Articulated tractors
- Combines
- Sprayers
- Tracked tractors
- Floaters
- MFWD tractors

- **AccuStar GPS receiver** provides a cost-effective solution to quickly upgrade non-AccuGuide equipped, previous-generation tractors or combines with guidance and corrections capabilities. AccuStar features intuitive operation and provides access to multiple guidance/correction sources ranging from low to medium to high accuracy. Ideal uses include:
  - ElectriSteer assisted steering
  - GPS positioning for combine yield mapping
  - Ability to upgrade to RTK-level guidance
  - Stand-alone GPS applications
  - Providing GPS to third-party displays and/or applications



EQUIPMENT EFFICIENCIES (CONT.)

Section and Rate Control

- **AFS AccuControl** provides control over hydraulic drives, liquid delivery and sections for non-Case IH implements. Monitor and record seed population, average spacing, singulation and variation using the AFS Pro 700 display.
- **ISO Task Controller** uses the AFS Pro 700 display to control variable rate technology of drives and pumps, and section control abilities with ISOBUS-compliant implements.
- **AFS ISOBUS Product Control** allows operators to view an implement on an ISO-compliant display and control any necessary functions at the touch of a finger.
- **AIM Command FLEX**™ manages sprayer flow rate and ensures constant application rate at a specific, constant pressure while providing nozzle control and turn compensation.
- **AccuBoom** automatically controls sprayer boom sections to minimize skips and overlaps.
- **AutoBoom**™ automatically adjusts sprayer boom height when it detects changes in terrain.

Hay & Forage

- **Feedrate Control** enables a baler to continuously adjust the tractor's forward speed through ISOBUS Class 3, maintaining a desired capacity.
- **Round Baler Automation** reduces the number of operator tasks during baling by automatically stopping the tractor, applying net wrap to the bale and raising/lowering the tailgate with ISOBUS Class 3 technology.

DATA MANAGEMENT.

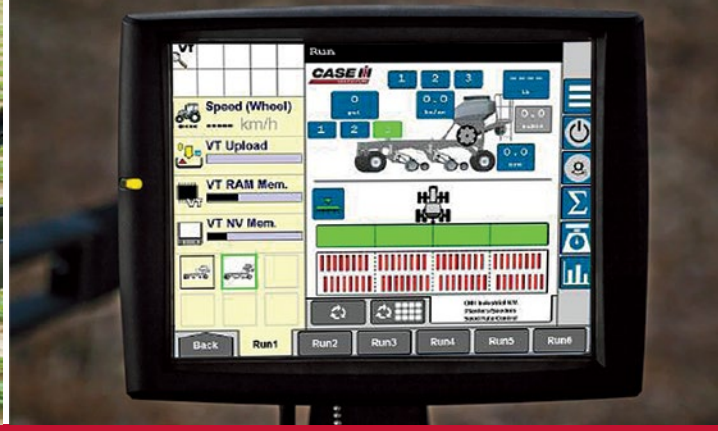
- **AFS View** is a basic viewing platform that displays and tracks precision data with a customized list of farms and fields.
- **AFS Mapping & Records** allows producers to make management decisions from precision data, including yield data, soil types, soil test results and hybrids. Generate yield and prescription maps, create soil sampling maps and more.
- **AFS Books** is easy-to-use, financial software that provides access to the profitability of fields, livestock groups and equipment.
- **AFS Pro 700 Display Software** allows producers to monitor and record planting, application and harvest data using their AFS Pro 700 display.
- **Yield and Moisture Monitor** allows producers to monitor and record harvesting data to help maximize future yield potential.
- **Data Sharing** securely transfers agronomic data between machines and a home computer or trusted adviser using AFS Connect. Case IH and API partnerships help make this process seamless to make the most of agronomic data.

LOGISTICS OPTIMIZATION.

- **AFS Connect** provides instant access to real-time data so producers can manage machines from a remote location and make informed decisions that increase efficiency and turn potential into profit.
  - Fleet Management
  - Custom Alerts
  - Live Time Dashboard
  - Graphic Reports

Integrated AFS Pro 700 Display	Tractors	Tillage	Planting	Seeding	Sprayers & Floaters	Hay & Forage	Combines	Cotton Pickers	Sugar Cane Harvester
AccuBoom					Optional				
Variable Rate and Section Control			✓	✓	✓[1]				
AFS AccuGuide autoguidance	✓				✓[2]	✓	✓	✓	✓
AFS RowGuide							✓		
AFS AccuTurn	✓	✓	✓	✓					
Camera/Video Display	✓	✓	✓	✓	✓	✓	✓	✓	✓
ISOBUS-Compliant Implement Interface			✓[3]	✓	✓	✓			
Performance/Productivity Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓
Prescriptions			✓	✓	✓				
Summary Data	✓	✓	✓	✓	✓	✓	✓	✓	✓
Moisture Monitoring & Yield Mapping						✓	✓	✓	✓

[1]Optional on Patriot® sprayers and the 610 Liquid System used with Titan™ floaters. [2]Optional on Patriot sprayers and Titan floaters. [3]ISOBUS compliant for non-Case IH planters.



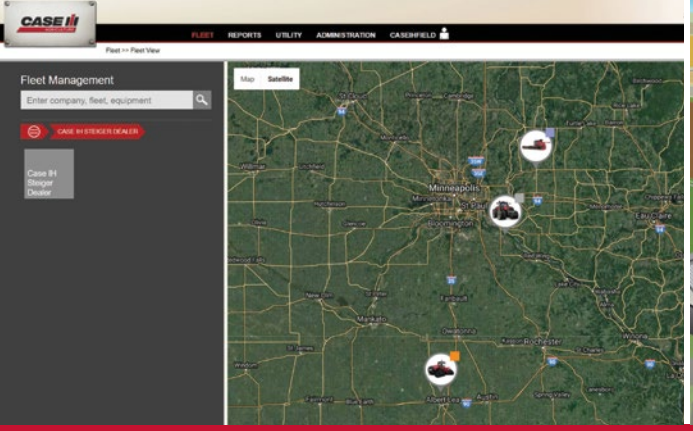
AFS PRO 700 DISPLAY

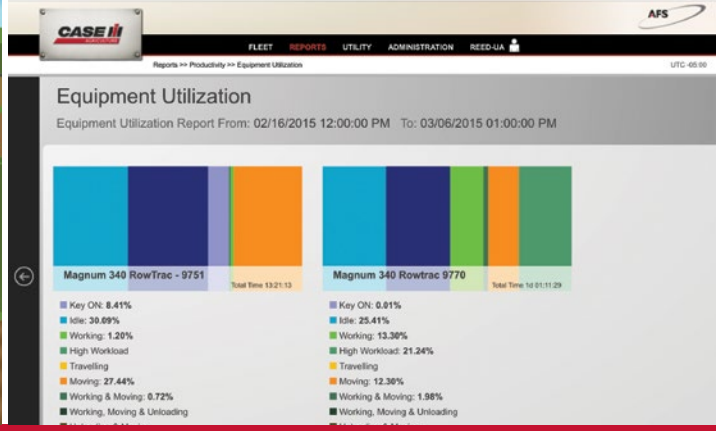
AFS uses a single, integrated display with a common interface across all platforms of your Case IH equipment – the AFS Pro 700. The intuitive, customizable and easy-to-read display allows you to view six run screens for controlling key equipment functions and tracking important information.

KEY FEATURES OF THE AFS PRO 700 DISPLAY.

- Single, integrated color touch-screen display – standard on most Case IH equipment.
- Monitor and control Case IH vehicles and implements.
- Record important data and maps to use for future management decisions.
- Operates six run screens that allow producers to configure what they want to monitor and/or control.
- ISOBUS-compliant – monitor any ISOBUS-compliant Case IH or competitive implement data/functions.
- Provides three video inputs to monitor implements and grain tank fill, ease vehicle backup and increase safety.
- Adjusts screen brightness for night visibility.

The AFS Pro 700 display runs six screens on a single monitor that allows you to control key machine functions.





AFS CONNECT

AFS Connect advanced farm management system gives you instant access to information for every machine in your fleet – including machine location, diagnostics, and fuel and engine stats. Use it to manage operator and equipment performance, and monitor real-time data to make informed decisions that impact your bottom line.

KEY FEATURES OF AFS CONNECT.

- **Graphic Reports** show area worked, yield average, flow average, moisture average and more.
- **Custom Alerts** allow producers to create alerts for maintenance, geofencing, curfew and more.
- **Fleet Management** pinpoints the exact location of each machine.
- **Machine Dashboard Monitoring** allows producers to view real-time machine parameters from a remote location. Monitor engine speed, oil temperature, coolant temperature and level, hydraulic oil temperature and pressure, fuel and more.
- **Vehicle and/or Implement Data Monitoring** lets producers view real-time equipment performance data, including yield, moisture, singulation, target rates, rotor speed, engine speed and more.
- **Data Sharing** seamlessly transfers AFS data wirelessly between your machines and home office or trusted adviser. Upload prescriptions directly to your machine and drive daily management decisions based on your current agronomic data. Case IH API partnerships include:
  - My Farm Manager™ web platform from Decisive Farming
  - Encirca® services from DuPont Pioneer
  - AgStudio® software from MapShots
  - Onsite technologies from AgIntegrated
  - Trimble® Connected Farm®
- **Cellular RTK Guidance (NTRIP)** delivers guidance correction to a reliable sub-inch accuracy from year-to-year using AFS Connect hardware.


CASE IH
AFS
FLEET
REPORTS
UTILITY
DATA SHARING
ADMINISTRATION
CASEIHFIELD
Fleet >> Fleet View
Fleet Management
Enter company, fleet, equipment
UNIVERSITY OF ARIZONA
UNIVERSITY OF ARIZONA
Farmall 120
Type:
Model: Farmall 120A
Brand: Case IH
CAN VIEWER
EQUIPMENT INFO
CENTER
DASHBOARD
PING
FOLLOW
RESET ALARMS
Map
Satellite
UTC -05:00
USDA ALARC
University of Arizona Maricopa...


PHANTOM

TECHNOLOGY IN THE SKY

The latest Case IH AFS precision solution provides a whole new perspective, instantly. The Case IH UAV package features Fieldscanner for real-time mapping. Fieldscanner adds local processing on the drone and mobile device to deliver instant, in-field processing of drone imagery. Quickly take the pulse of crop health and immediately begin uncovering opportunities — such as adjusting your fertilizer program or identifying insect pressure or weed escapes — even before the drone touches down.

TAKE YOUR OPERATION TO NEW HEIGHTS.

- **The Case IH UAV package with Fieldscanner** includes the DJI® Phantom 4 Pro drone with RGB camera, a hard carrying case, an extra battery and one-year subscription to DroneDeploy® software. This system makes it quick and easy to fly drones, capture imagery, view and analyze maps with powerful filters, and then share those maps and insights with trusted advisers to immediately implement solutions. It's the ultimate high-efficiency crop-scouting tool.

ADVANTAGES

- Pinpoint potential problem areas in a field with GPS location
- Fly, upload imagery and analyze data in a single tool
- Take action in minutes

PRECISION FARMING CAPABILITIES

- Assists with crop scouting, drainage assessment, stockpile management and more
- Export data to AFS Mapping Records
- Saves imagery as Shapefile or GeoTIFF
- Capable of data sharing

REAL WORLD APPLICATIONS

- Scout crops to detect plant health
- Assess plant counts and stand establishment
- Generate variable rate prescriptions
- Use for scouting for crop loss
- Assess and clean up after natural disasters
- Assess water management effectiveness

Data Solution Powered by: DroneDeploy

TECHNOLOGY IN THE FIELD

Control the entire crop production cycle and the data it produces.

FIELD PREPARATION

Reduce input, fuel and labor costs. Add hours to a short preparation window. Improve yield potential.

AFS Features

- AFS AccuGuide Autoguidance
- AFS AccuControl
- ISO Task Controller
- AFS Mapping & Records
- AFS AccuTurn (tractors only)
- AFS ISOBUS Product Control
- Case IH UAV

AFS Connect Features

- Fleet Management
- Machine Dashboard Monitoring
- Vehicle and/or Implement Data Monitoring
- Data Sharing
- Cellular RTK Guidance (NTRIP)

PLANT & SEED

Monitor machine performance. Reduce seed costs and increase yields with less plant crowding.

AFS Features

- AFS AccuGuide Autoguidance
- AFS AccuControl
- ISO Task Controller
- AFS Mapping & Records
- AFS AccuSection
- AFS AccuRow
- Advanced Seed Information
- AFS AccuStat
- Variety Tracking
- AFS AccuTurn (tractors only)
- Case IH UAV

AFS Connect Features

- Machine Dashboard Monitoring
- Vehicle and/or Implement Data Monitoring
- Custom Alerts
- Data Sharing
- Cellular RTK Guidance (NTRIP)

GROW

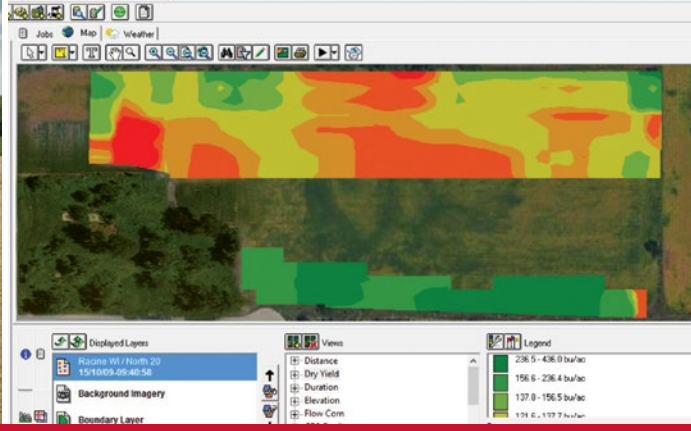
Manage the product being applied with precision. Reduce input and labor waste. Improve yield potential with accurate coverage.

AFS Features

- AFS AccuGuide Autoguidance
- AFS AccuControl
- ISO Task Controller
- AccuBoom
- AutoBoom
- AIM Command FLEX
- AFS Mapping & Records
- AFS AccuTurn (tractors only)
- AFS ISOBUS
- Case IH UAV

AFS Connect Features

- Data Sharing
- Fleet Management
- Machine Dashboard Monitoring
- Vehicle and/or Implement Data Monitoring
- Custom Alerts
- Cellular RTK Guidance (NTRIP)



HAY & FORAGE

Increase accuracy and minimize overlaps at high speeds.

AFS Features

- AFS AccuGuide Autoguidance
- ISOBUS Class 3
  - Feedrate Control
  - Round Baler Automation
- ISO Task Controller
- AFS Mapping & Records

AFS Connect Features

- Fleet Management
- Machine Dashboard Monitoring
- Vehicle and/or Implement Data Monitoring
- Custom Alerts
- Cellular RTK Guidance (NTRIP)

HARVEST

Make decisions that improve yields with real-time information about the harvest. Manage an entire fleet and reduce time waiting to unload.

AFS Features

- AFS AccuGuide Autoguidance
- Yield and Moisture Monitor
- AFS RowGuide
- AFS Mapping & Records
- Variety Tracking

AFS Connect Features

- Fleet Management
- Machine Dashboard Monitoring
- Vehicle and/or Implement Data Monitoring
- Data Sharing
- Cellular RTK Guidance (NTRIP)

PLAN

Use data from previous years to plan for higher yields next season.

AFS Features

- AFS View
- AFS Mapping & Records
- AFS Books
- AFS Water Control
- Case IH UAV

AFS Connect Features

- Data Sharing

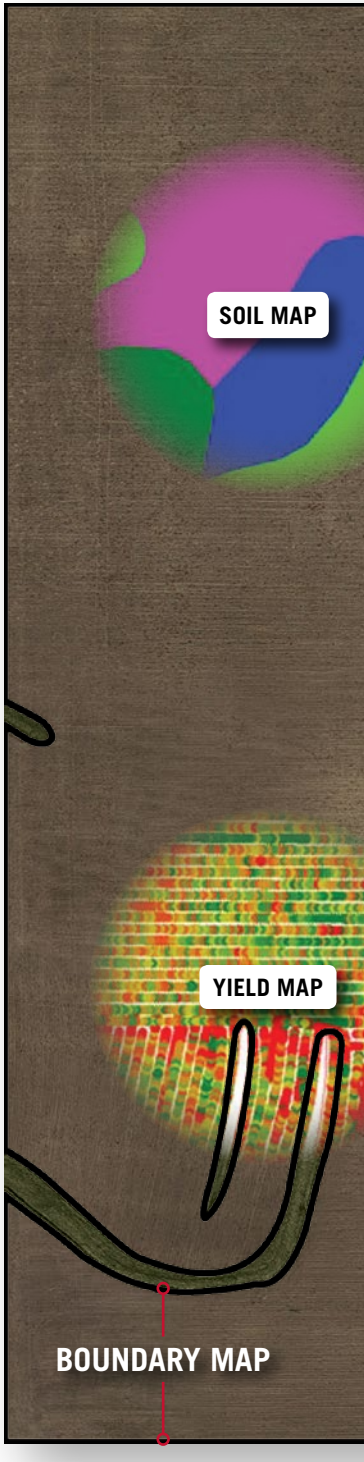
Technology in the field.

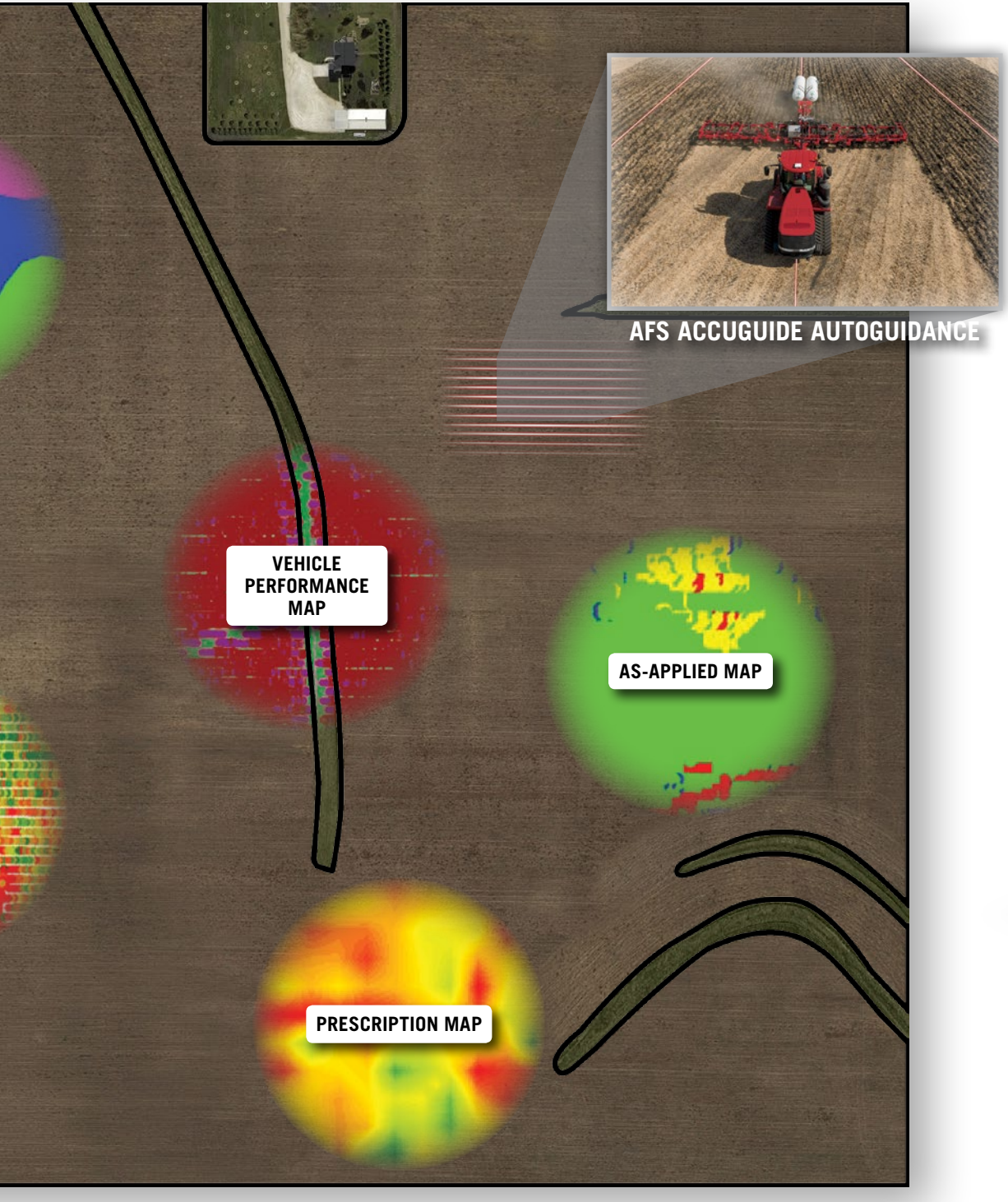
FIELD PREPARATION

Control input, fuel and labor costs while creating a high-efficiency seedbed. Section and rate control reduce over-application and waste while AFS AccuTurn and AFS AccuGuide™ autoguidance minimizes overlap and creates a path for your planter to perfectly place each seed. Increase productivity by coordinating machines for refueling and refilling inputs – and add hours to a short preparation window.

DATA MANAGEMENT.

- **AFS Mapping & Records** *(AFS)*
  Overlay yield and soil maps to determine the best use of inputs for the field. Then, generate a prescription that can be sent directly to the machine using Data Sharing.
  - **Soil Map.** Analyze a field's soil makeup to help determine which fertilizer to use and how much.
  - **Yield Map.** Analyze previous years' yield maps to help determine input amounts in any given location in the field for maximized yield potential.
  - **Prescription Map.** Generate a prescription map using yield and soil data to maximize an entire field's growing potential while minimizing input costs. Transfer the prescription directly to the machine using Data Sharing with AFS Connect.
  - **As-Applied Map.** Record exactly what is being applied during application and generate a map for records and future analysis.
  - **Vehicle Performance Map.** Use the Trip Computer software in the AFS Pro 700 display to create maps of fuel economy with Case IH tractors to help make management decisions. Compare fuel usage at different tillage depths.
  - **Boundary Map.** Create interior and exterior boundaries of fields, such as waterways, terraces, etc. Additional data gained with boundary maps include section control outside the inner or outer boundary, total amount of acres in a field, acres covered, acres remaining and time remaining in the field.
- **Data Sharing.** *(AFS Connect)*
  Upload prescriptions from your agronomist directly to machines, and send as-applied maps wirelessly to a home office or agronomist.





EQUIPMENT EFFICIENCIES.

- **AFS AccuGuide Autoguidance** *(AFS)*
  Make fewer passes in the field and ensure accurate coverage with minimized skips and overlaps. Utilize one of the many guidance patterns available to reduce operator fatigue and increase efficiency.
- **AFS AccuTurn** *(AFS)*
  Increase efficiency and decrease operator fatigue while using AFS AccuTurn for field preparation. AFS AccuTurn ensures an implement is entering and exiting the field square for maximum agronomic benefits.
- **ISO Task Controller** *(AFS)*
  Perform prescription control, section control and as-applied mapping precision farming functionality with ISOBUS-compliant implements (both Case IH and competitive) through the AFS Pro 700 display.
  - **AFS ISOBUS Product Control** *(AFS)*
    Control liquid or dry product (liquid tool bars, slurry, spreaders, sprayers) to minimize input skips and overlap.
- **AFS AccuControl** *(AFS)*
  Add AFS AccuControl components to existing equipment to gain rate and section control functionality through the AFS Pro 700 display.

LOGISTICS OPTIMIZATION

- **Machine Dashboard Monitoring** *(AFS Connect)*
  View machine speed remotely to ensure operator is staying within desired speed range.

- **Vehicle and/or Implement Data Monitoring** *(AFS Connect)*
  Improve fuel efficiency by analyzing machine performance data with a trusted adviser.
- **Cellular RTK Guidance (NTRIP)** *(AFS Connect)*
  Use for sub-inch repeatable accuracy that's demanded in strip-till applications.

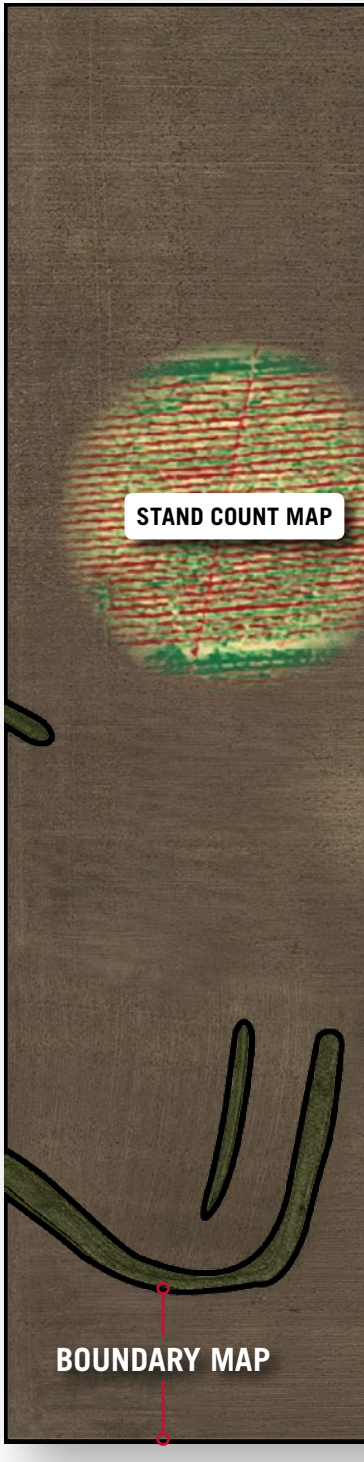
Technology in the field.

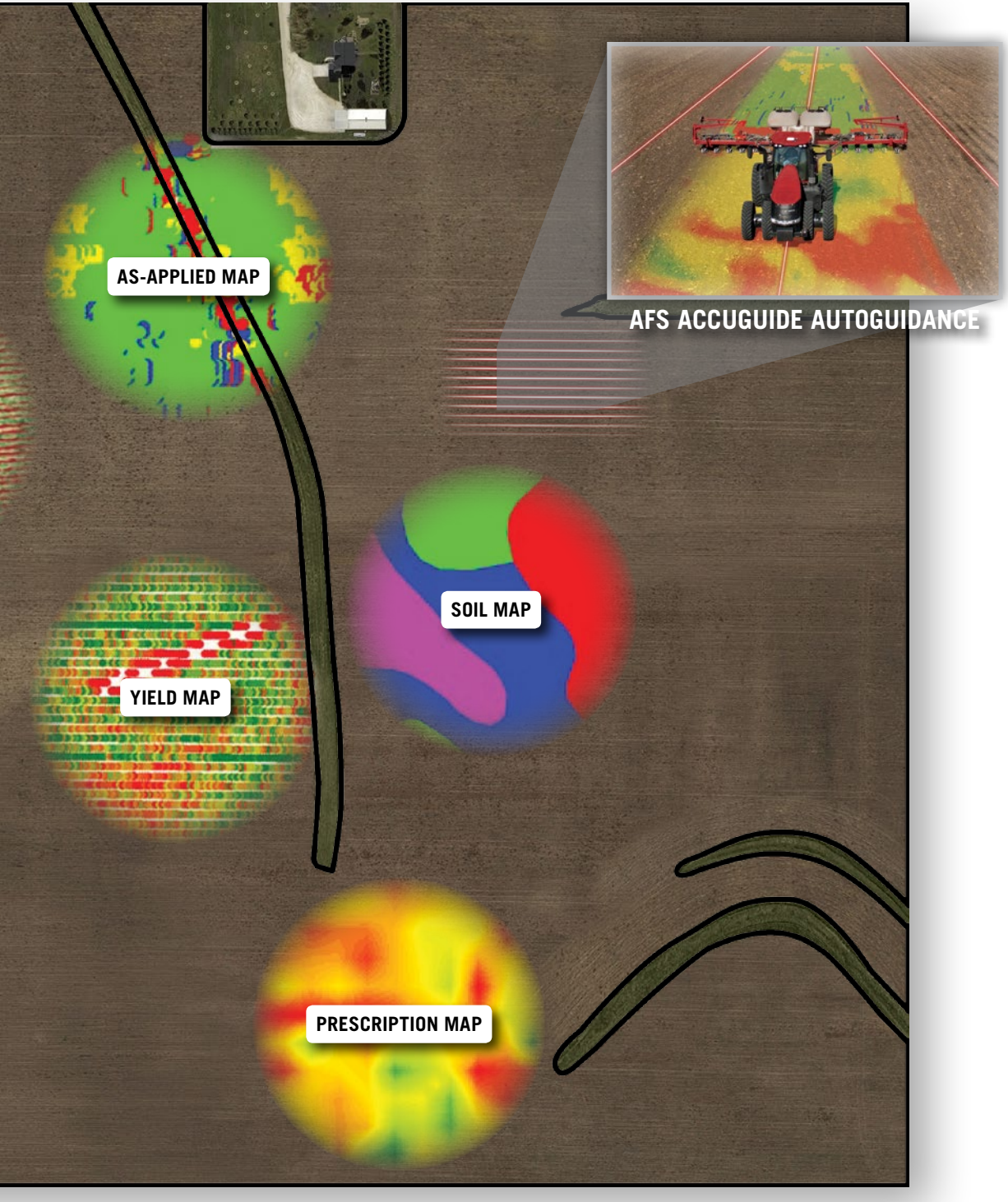
PLANT & SEED

Follow the precise path of your tillage using AFS AccuTurn and AFS AutoGuide autoguidance to perfectly place each seed for maximum productivity. Reduce plant crowding with automatic row-by-row overlap control and keep track of what you've planted with AFS Mapping & Records. And when you're not in the driver's seat, view planter and seeder performance remotely and set custom alerts to ensure your equipment is working at peak performance.

DATA MANAGEMENT.

- **AFS Mapping & Records** *(AFS)*
  Maximize yield potential and minimize input costs by producing a prescription based on soil characteristics and previous yields. Then, upload prescription directly to machines using AFS Connect.
  - **Soil Map.** Analyze soil characteristics to determine the best population and seeding rates for different soil types or nutrients available.
  - **Yield Map.** Analyze previous years' yield map to help determine the best variety, population and seeding rates based on the yield potential in the field.
  - **Prescription Map.** Generate a planting or seeding prescription map using previous years' yield data and soil characteristics to maximize yield potential and minimize input costs. Transfer the prescription directly to a machine using Data Sharing with AFS Connect.
  - **As-Applied Map.** Generate a map during planting or seeding to record rates for personal records and future analysis.
  - **Boundary Map.** Use existing boundary maps to ensure correct seed placement throughout the field and to view information such as: total acres planted or seeded, total acres remaining, amount of seed required to complete the field and time remaining.
- **Case IH UAV** *(AFS)*
  Measure planter's performance by evaluating stand counts.
- **Data Sharing** *(AFS Connect)*
  Transfer prescriptions or as-applied data to home computer or a trusted adviser.





EQUIPMENT EFFICIENCIES.

- **AFS AccuGuide Autoguidance** *(AFS)*
  Minimize skips and overlaps to save on input, fuel and labor – plus, fewer passes in the field mean reduced soil compaction. Try the "Headlands Last" guidance pattern.
- **AFS AccuTurn** *(AFS)*
  Ensure that the planter is square after every turn creating uniform spacing between rows that allow for subsequent operations and reduced harvest loss.
- **ISO Task Controller** *(AFS)*
  Through the AFS Pro 700 display, perform prescription control, section control and as-applied mapping precision farming functionality with ISOBUS-compliant planters, air carts and drills with mounted tanks.
  - **AFS ISOBUS Product Control** *(AFS)*
    Use to control liquid product on the planter.
- **AFS AccuControl** *(AFS)*
  Add AFS AccuControl components to existing planting and seeding equipment to gain rate and section control functionality through the AFS Pro 700 display.
- **Case IH Factory-Installed Section & Rate Control** *(AFS)*
  Utilize all the agronomic advantages of section and rate control on Case IH equipment with clutches and drive motors.
- **Headlands Last** *(AFS)*
  Allows producers to plant headlands last for improved uniform plant emergence.

LOGISTICS OPTIMIZATION

- **Machine Dashboard Monitoring** *(AFS Connect)*
  View planter and seeder parameters remotely to ensure proper seed placement.
- **Fleet Management** *(AFS Connect)*
  Coordinate machine logistics to efficiently manage refueling, refilling and maintenance during tight planting windows.
- **Custom Alerts** *(AFS Connect)*
  Set alerts to warn if parameters fall outside acceptable ranges – including skips, singulation, doubles and more.
- **Cellular RTK Guidance (NTRIP)** *(AFS Connect)*
  Obtain sub-inch correction guidance accuracy for less overlap and minimized plant crowding.

Technology in the field.

GROW

Improve yield potential while reducing inputs and labor by managing placement accuracy and controlling application rates and spray pressure – regardless of speed or weather conditions. Save on inputs and add more hours to your day with technology that reduces skips and overlaps. And as you're working, monitor and record how much product you've put down and easily transfer your as-applied data for future analysis.

DATA MANAGEMENT.

- **AFS Mapping & Records** *(AFS)*
  Analyze field characteristics and as-applied mapping data to help make management decisions and adjust for in-field variability.
  - **Prescription Map.** Generate an application map using crop health, pest presence and other factors that affect plant health, growth and yield.
  - **As-Applied Map.** Generate a map during application operations to record rates for personal records and future analysis. Plus, create tank mixes to accurately track individual product amounts for record keeping and next year's purchasing decisions.
  - **Boundary Map.** Apply inputs only where wanted. Use interior boundaries to guarantee section shut-off when crossing into sensitive areas like waterways. And monitor information displayed such as: acres remaining, total acres applied, amount of product required to complete the field and time remaining.
- **Case IH UAV** *(AFS)*
  Use collected imagery with various filters to evaluate crop health for effective management decisions.
- **Data Sharing** *(AFS Connect)*
  Easily transfer as-applied data back to a home office or trusted adviser. And upload a chemical or fertilizer prescription directly to the machine. Case IH has partnered with various industry agronomic software providers to allow seamless and secure transportability of agronomic data.

EQUIPMENT EFFICIENCIES.

- **AIM Command FLEX** *(AFS)* (Patriot sprayers and Trident™ liquid system)
  Maintain droplet size at a constant application rate and spray pressure in varying fields and weather conditions. Control flow rates and drift, and avoid over-application using turn compensation.
- **AccuBoom** *(AFS)*
  Automatically turns off boom sections when the sprayer enters an area that has already been sprayed and then turns the sections back on when leaving the applied area.
- **AutoBoom** *(AFS)*
  Automatically adjusts boom height when it detects changes in terrain.

EQUIPMENT EFFICIENCIES (CONT.)

- **AFS AccuGuide Autoguidance** *(AFS)*
  Ensure pass-to-pass accuracy and reliability regardless of the season or operation. Reduce overlaps and skips, saving money on input costs and labor.
- **ISO Task Controller** *(AFS)*
  Use section control and variable rate on ISOBUS-compliant self-propelled or pull-type sprayer and/or liquid toolbar to ensure the correct amount of inputs in the right location.
  - **AFS ISOBUS Product Control** *(AFS)*
    Add precision farming functionality to liquid tool bars and sprayers.
- **AFS AccuControl** *(AFS)*
  Add boom valves or control valves to an existing self-propelled or pull-type sprayer and/or liquid toolbar to get all the advantages of section control and variable technology.
- **AccuBoom, AutoBoom and AIM Command Technology** *(AFS)*
  Add to a Case IH sprayer to perform section control, boom height control and advanced spray technology for precise applications.

LOGISTICS OPTIMIZATION.

- **Machine Dashboard Monitoring** *(AFS Connect)*
  Manage operator performance by monitoring machine speed, target rate, actual rate, section control, etc.
- **Geofence and Fleet Management** *(AFS Connect)*
  Create a geofence around sensitive areas, and be alerted if a machine enters that area.
- **Custom Alerts** *(AFS Connect)*
  Set alerts to warn if parameters fall outside acceptable ranges – including skips, overlaps and more.
- **Vehicle and/or Implement Data Monitoring** *(AFS Connect)*
  View real-time machine performance data for remote training and diagnostics.
- **Cellular RTK Guidance (NTRIP)** *(AFS Connect)*
  Apply inputs with a cellular-delivered sub-inch RTK guidance correction signal without a distance or line-of-sight limitation.

Technology in the field.

HAY & FORAGE

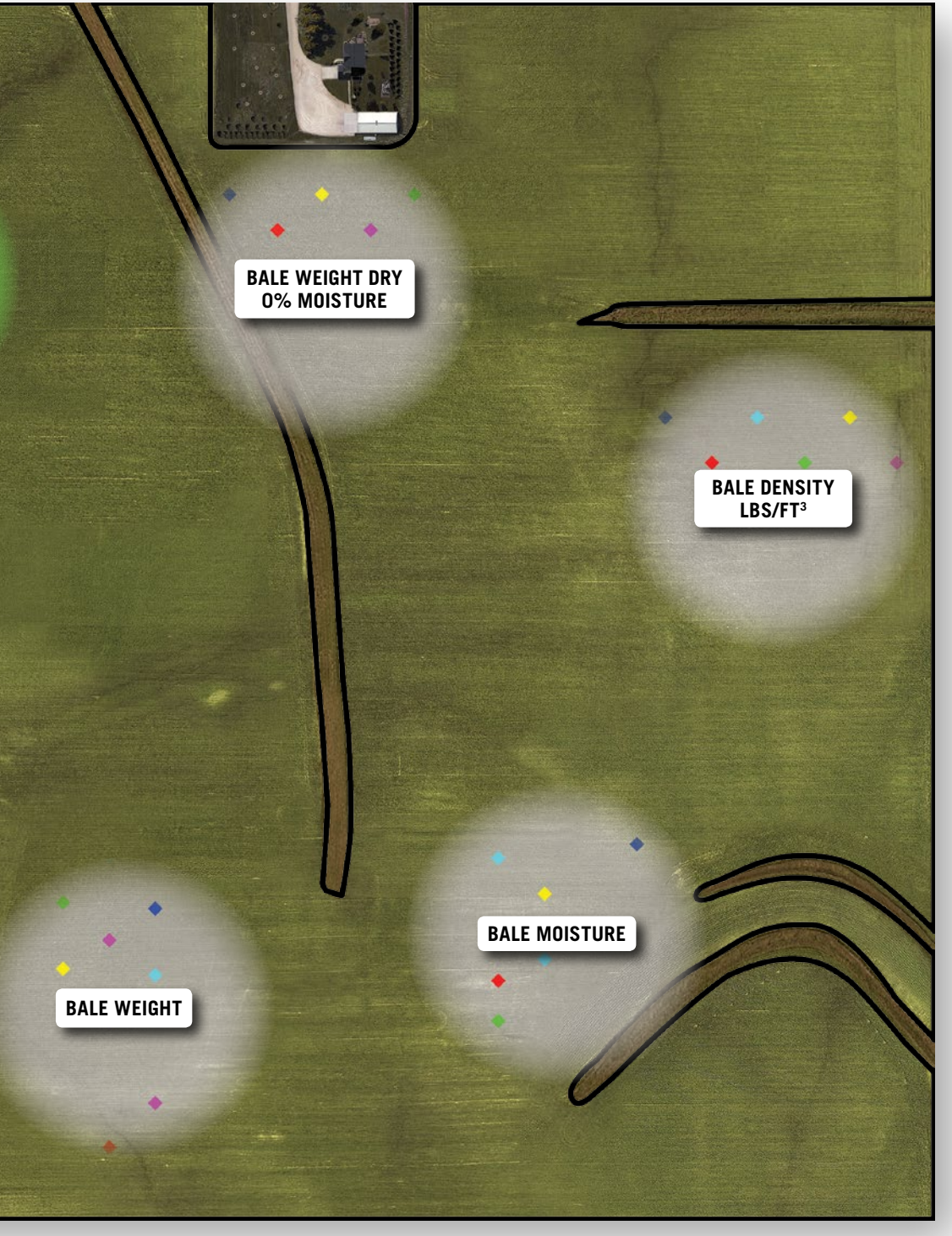
Achieve sub-inch guidance accuracy while cutting hay and forage at high speeds. When it's time to bale, monitor all baler functions including key real-time information like bale weight, moisture content and mis-tie alerts. Targeted hay preservative application can help you be more efficient in your haying and hit optimal timing for increased tonnage and relative feed values. And then view bales as they eject via camera feed directly to your AFS Pro 700 display. That's high-efficiency hay production.

DATA MANAGEMENT.

- **AFS Mapping & Records** *(AFS)*
  Use with a Case IH large square baler to record specific characteristics of bales, including moisture, cut length, weight and number of bales per acre/per cutting. Export data for analysis and record keeping.
  - **Boundary Map.** Monitor information, such as acres remaining and time remaining.
  - **Vehicle Performance Map.** Use the Trip Computer software in the AFS Pro 700 display to create maps of fuel economy to help make management decisions.

EQUIPMENT EFFICIENCIES.

- **AFS AccuGuide Autoguidance** *(AFS)*
  Minimize overlap while cutting to save on fuel, labor and machine expenses.
- **ISOBUS Class 3** *(AFS)*
  Communicates information between implement and tractor and allows the implement to control tractor functions to optimize packaging, bale density, forage quality and bale consistency.
  - **Feedrate Control** Continually adjusts the tractor's forward speed through ISOBUS Class 3 commands to maintain maximum capacity or uniform bale slice thickness.
  - **Round Baler Automation** Automatically stops the tractor, applies net wrap to the bale and raises/lowers the tailgate – reducing operator fatigue during long days of baling.
- **AFS Pro 700 Display** *(AFS)*
  Integrated display reduces clutter and increases efficiency by controlling ISO-compliant Case IH large square balers and round balers. Monitor bale formation, mode, number of wraps, bale count, density and more.



LOGISTICS OPTIMIZATION.

- **Vehicle and/or Implement Data Monitoring** *(AFS Connect)*
  Remotely view key performance information – speed, engine oil pressure, fuel level, etc. – on self-propelled windrowers and tractors.

- **Cellular RTK Guidance (NTRIP)** *(AFS Connect)*
  Cellular RTK network provides self-propelled windrowers with sub-inch accuracy to minimize overlaps.
- **Fleet Management** *(AFS Connect)*
  Pinpoint the exact location of every machine to maximize utilization. Optimize timeliness of cutting, raking and baling operations for improved forage quality and yield.

Technology in the field.

HARVEST

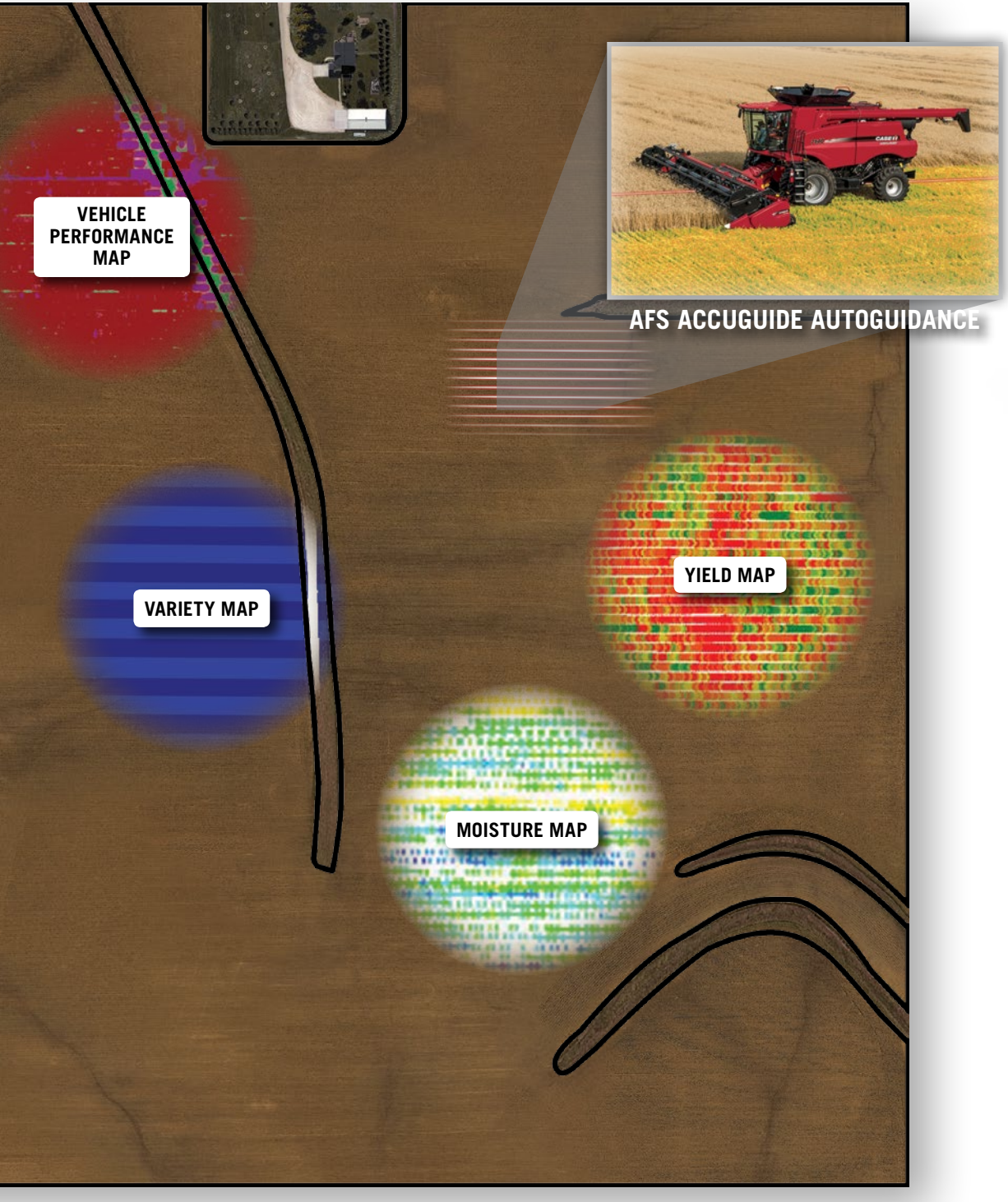
Case IH High-Efficiency Farming is about helping you harvest more of what you grow, from grain in the tank to nutrients cycled for future crops to the data that will help you make better decisions. AFS helps you monitor, map and evaluate your crop's performance, and compare yield and moisture data with prior yield maps to determine what factors or operations will maximize future yields. And if you're not in the driver's seat during harvest, monitor real-time harvesting data remotely to help make recommendations for improving efficiencies.

DATA MANAGEMENT.

- **AFS Mapping & Records** *(AFS)*
  Generate yield maps to make informed decisions to help maximize yields.
  - **Yield Map.** Instantaneously record yield and moisture data about this year's crop while harvesting. Transfer yield map wirelessly to an agronomist or home office to help make management decisions during the offseason.
  - **Variety Map.** Utilize a variety map to automatically assign variety characteristics to incoming yield data. Use this information to analyze yield and moisture characteristics for each variety/hybrid.
  - **Boundary Map.** View acres remaining, time remaining and estimated bushels remaining in current field.
- **Yield and Moisture Monitor** *(AFS)*
  Monitor and record harvesting data, helping make decisions to improve current yield and maximize future yield potential.
- **Data Sharing** *(AFS Connect)*
  Seamlessly transfer as-harvested maps to a home computer or trusted agronomist.

EQUIPMENT EFFICIENCIES.

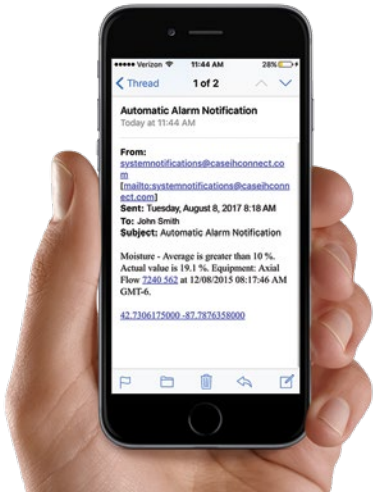
- **AFS AccuGuide Autoguidance** *(AFS)*
  Provides hands-free steering to achieve and maintain accurate row positioning in ever-changing harvest conditions and ease operator fatigue during long hours of operation. Use the "Line Splitting" feature to use Multiswath+ lines you recorded during planting with a 16-row planter and harvesting with an 8-row combine header.
- **AFS RowGuide** *(AFS)*
  Provides accurate, hands-off steering during corn harvest to reduce operator fatigue.
- **Auto-Cut Width** *(AFS)*
  Adjust combine cut width when traveling through odd-shaped fields, point rows or previously harvested areas to provide accurate yield readings.
- **AFS Variety Tracking** *(AFS)*
  Analyze seed variety performance using data from planting in conjunction with yield and moisture data tracked at harvest — up to 30 different varieties per field.



LOGISTICS OPTIMIZATION.

- **Live Time Dashboard** *(AFS Connect)*
  View real-time data of what is happening on the combine's dashboard, with one-minute data updates.

- **Cellular RTK Guidance (NTRIP)** *(AFS Connect)*
  Gain reliable sub-inch year-to-year accuracy.
- **Fleet Management** *(AFS Connect)*
  Coordinate unloading, maintenance and refueling to make the most of tight harvesting windows.
- **Machine Dashboard Monitoring** *(AFS Connect)*
  View performance data to ensure the combine is working most efficiently, including: wet yield, dry yield, moisture, flow, rotor speed, cleaning fan speed and upper and lower sieve.
- **Graphic Reports** *(AFS Connect)*
  Create reports that show area worked, yield average, flow average, moisture average and more.
- **Custom Alerts** *(AFS Connect)*
  Receive email alerts about yield moisture and other harvest data.



Technology in the field.

PLAN

Use AFS data — historical and in-season — to plan for higher yields this year and in the years to come. Rather than work an entire field, target the appropriate tillage to areas showing likely signs of compaction. Or use variable-rate technology to apply the right nutrients at the proper rate, precisely when your growing crop needs them. AFS software can help you do precisely that. It lets you view, edit, manage, analyze and utilize all your precision farming data. Organize and generate layouts, reports, charts and maps all with a single software program.

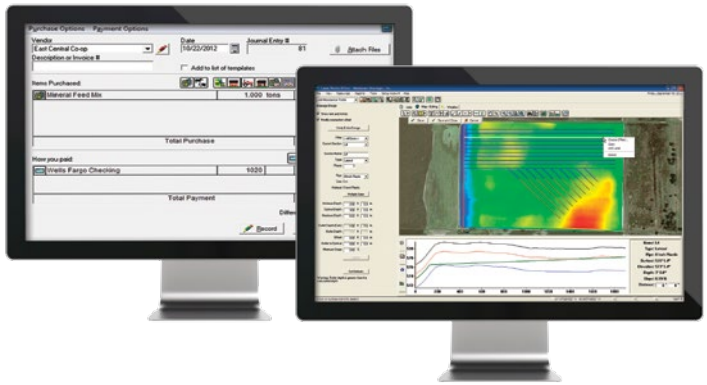
DATA MANAGEMENT.

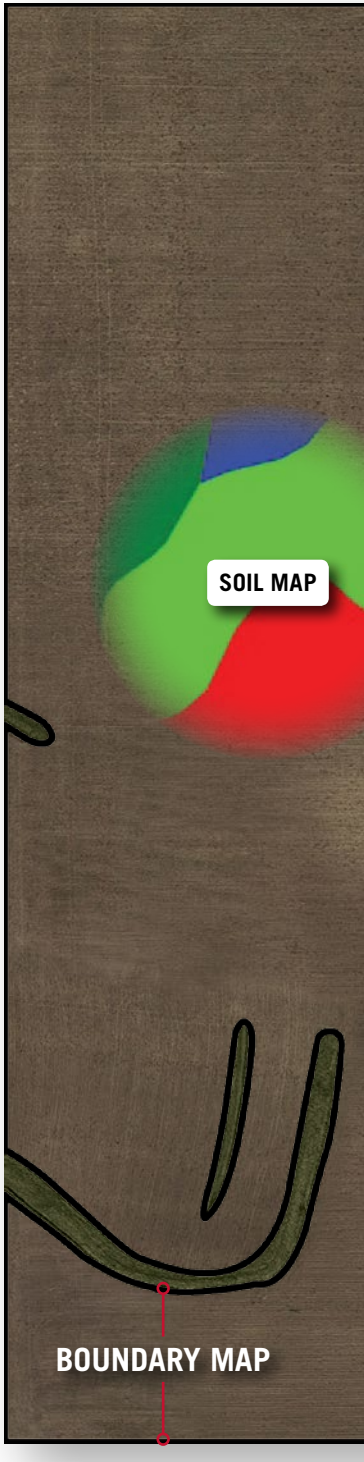
AFS Desktop Software

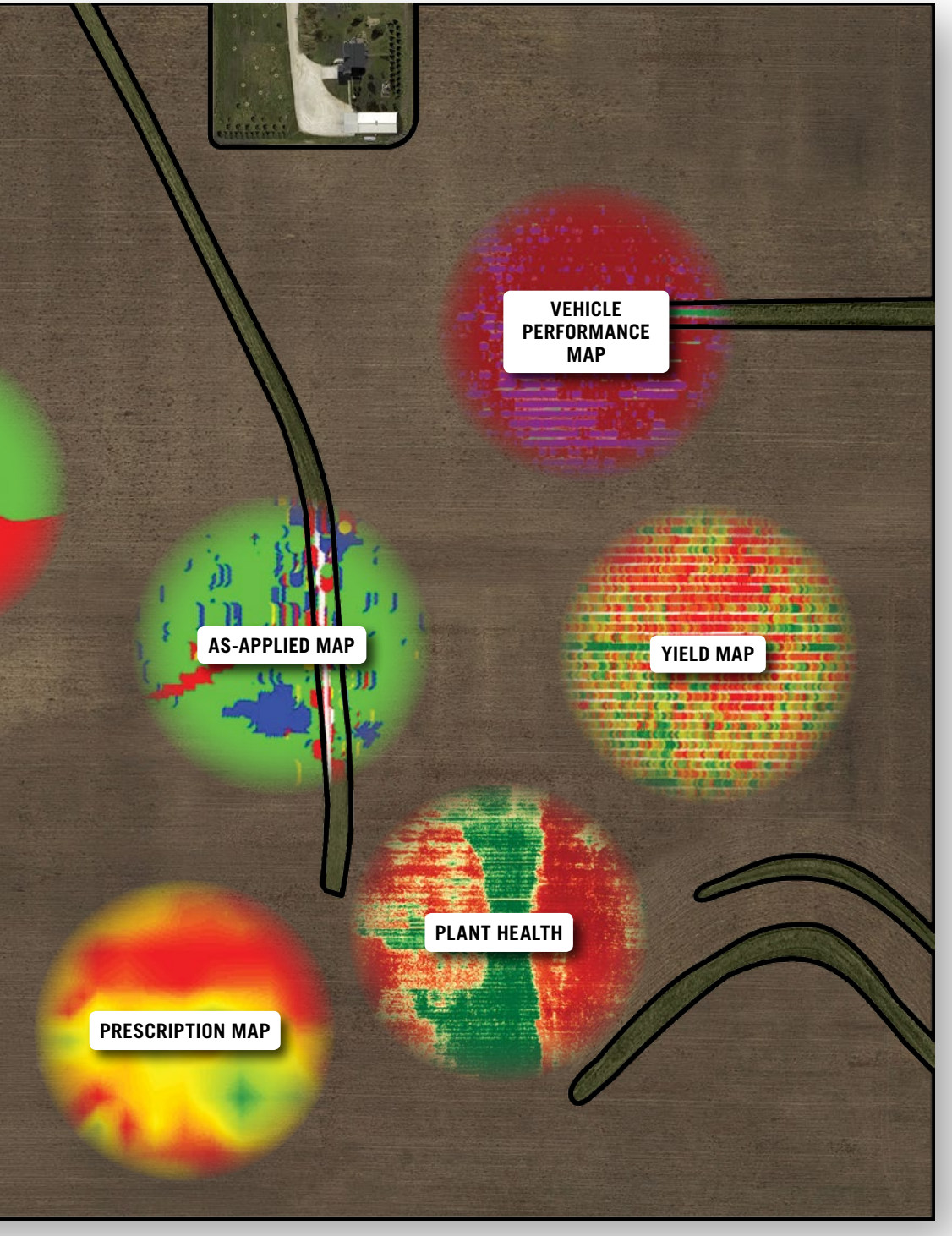
- **Import Multiple File Formats** *(AFS)*
  AFS software makes it easy to import and export precision data using a variety of file formats.
- **AFS View** *(AFS)*
  View and track precision data with a customized list of farms and fields.
- **AFS Mapping & Records** *(AFS)*
  Create overlays of current and past seasons' soil, planting, as-applied and harvest data to plan next year's crop production cycle.
  - **Soil Map:** Field Preparation
  - **Preplant As-Applied Map:** Field Preparation
  - **Vehicle Performance Map:** Field Preparation
  - **Plant & Seed As-Applied Map:** Plant & Seed
  - **Sprayer As-Applied Map:** Grow
  - **Yield Map:** Harvest
  - **UAV Imagery Map:** Grow
- **AFS Books** *(AFS)*
  Create summary reports by farm, field, crop or supply to track all farm expenses and revenue.
- **AFS Water Control** *(AFS)*
  Identify optimal placement of tile and surface drains.
- **Case IH UAV** *(AFS)*
  View, analyze and share collected data and maps with trusted advisers to help make future management decisions.

AFS Connect

- **Data Sharing** *(AFS Connect)*
  Seamlessly transport AFS data to a home office or trusted adviser throughout the season, so data is available whenever needed.







DATA SECURITY POLICY.

The Case IH Terms of Use are fully transparent: "You are the owner of the agronomic data generated from the assets. CNH Industrial will only share agronomic data with third parties in order to provide the services YOU subscribe to." Even when you choose to share machine data for maintenance and troubleshooting, sensitive data such as yield numbers remain private. And no customer data is ever sold to third parties.

Case IH is a founding member of the Open Ag Data Alliance (OADA). The guiding principle of OADA is that each farmer owns data generated or entered by the farmer, their employees or by machines performing activities on their farm.

The Ag Data Coalition is dedicated to the mission of helping farmers better control, manage and maximize the value of the data they collect every day in the fields.

The Agricultural Data Coalition (ADC) is the result of years of planning and coordination by Agricultural Equipment Manufacturers, Universities and Associations.

WATER MANAGEMENT

Case IH offers a variety of water management solutions to help maximize your productivity and improve yields.

AFS WATER CONTROL.

AFS Water Control is a component of AFS software that provides surface and subsurface water management solutions. This complete toolset allows producers to:

- Identify optimal placement of tile and surface drains
- View 3D field topographical data
- Utilize drawing tools
- Lay out and design drainage tiles

TRIMBLE WM-DRAIN®

The Trimble WM-Drain comprehensive farm drainage solution streamlines the steps of surface and subsurface drainage, including:

- Survey
- Analysis
- Design
- Installation
- Mapping

TRIMBLE FIELDLEVEL™ II SYSTEM.

The Trimble FieldLevel II system provides a complete water management solution to ensure optimal water distribution. The FieldLevel II utilizes GPS signal for:

- Topographic surveying
- Land leveling
- Levee design and installation
- Drainage tiling

IMPLEMENT GUIDANCE

Rely on implement steering solutions to keep implements on a repeatable path with year-to-year accuracy up to +/-1".

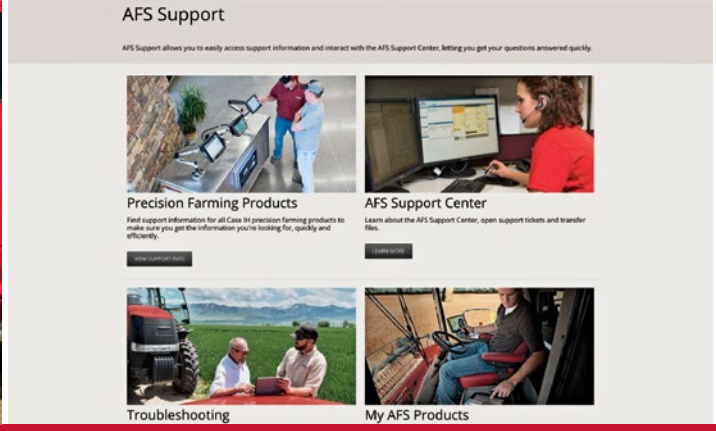
TRIMBLE TRUETRACKER™

The Trimble TrueTracker implement steering system allows the implement to be redirected to the target implement line. This active implement guidance system allows the implement to guide itself independently from the tractor. The TrueTracker system communicates with the tractor using the XCN-2050™ display.

TRIMBLE TRUEGUIDE™

Trimble TrueGuide is a "passive" guidance system that controls the implement using the Trimble Autopilot™ automated steering system from the tractor. The TrueGuide system steers the implement to the line and minimizes uncontrollable drifts, even on contours and terraces, rolling terrain and hillsides.

The XCN-2050 display in the tractor communicates guidance information to the TrueTracker system, providing repeatable accuracy to improve seedbed and nutrient placement, helping to enhance crop stands and yields.



AFS SUPPORT TEAM

Our comprehensive Case IH support network works alongside you to quickly get the answers you need to tackle every AFS and AFS Connect question.

AFS CERTIFIED DEALERS.

These Case IH dealerships have AFS specialists on-hand to help you operate and manage your precision farming technology, so you get the most out of your investment. Case IH AFS specialists provide a best-in-class experience.

AFS ADVANCED FARMING SYSTEMS CERTIFIED

AFS AND PRODUCT SPECIALISTS.

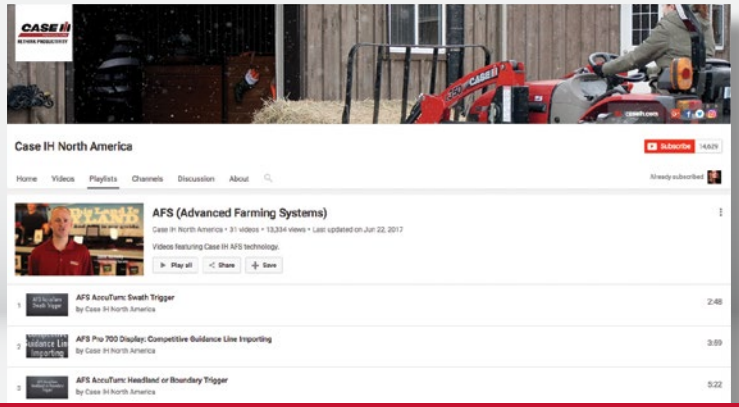
Get expert help from someone who's familiar with your terrain. Our dedicated AFS and product specialist are based in the field, working alongside Case IH dealers and customers.

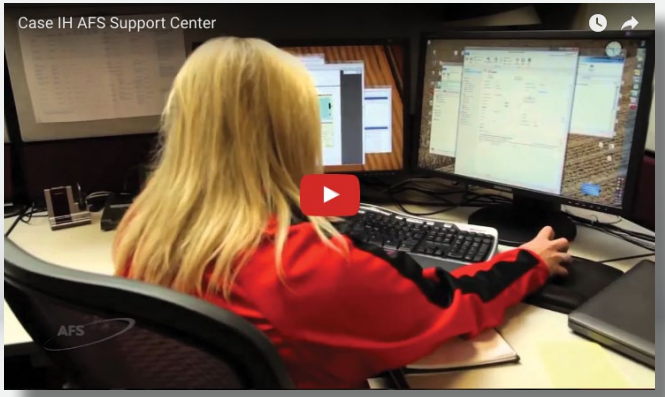
AFS ACADEMY.

AFS Academy provides the training you need to utilize AFS functionality to its full potential. Available in convenient formats to fit your specific needs, you'll learn how to get the most from your equipment and AFS technology.

- **Dealership Classes.** Participate in hands-on, comprehensive training in a small class setting led by your dealer's AFS specialist or AFS trainer.
- **Regional Training Sessions.** Focus on theoretical and practical applications in these intensive, instructor-led training sessions. Attendees have the opportunity to ask questions and work through solutions.

AFS ACADEMY





AFS ONLINE OPERATIONAL RESOURCES

Access support information when you need it, day or night. AFS online resources include: Precision Farming Product Support, Troubleshooting FAQs and AFS Support Team online ticket submission.

CASE IH YOUTUBE PAGE.

Find in-depth operational and how-to videos for AFS and AFS Connect products at the Case IH AFS YouTube page: **youtube.com/user/CaseIHTube**.

AFS OWNERS COMMUNITY.

Find operator manuals and access quick reference cards to help you address common questions about your AFS products at our website dedicated to AFS owners.

To access AFS support online, visit: caseih.com/afs-support

AFS ACADEMY ONLINE RESOURCES.

- **Mobile Tutorials and Web-Based Classes.** Access easy, on-the-go training resources through your smart phone or home computer. Online tutorials are topic specific and provide instant access to technical information when it's convenient for you.
- **Case IH AFS Academy App.** The Case IH AFS Academy mobile app is an easy-to-use, on-the-go application containing information, mostly in the form of short online videos, explaining the basics, applications and all relevant topics relating to Precision Farming with Case IH AFS systems. Search the Apple® App Store or Google Play™ for Case IH AFS.

SAFETY NEVER HURTS!™ Always read the Operators Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs, and use any safety features provided. CNH Industrial America LLC reserves the right to make improvements in design and changes in specifications at any time without notice and without incurring any obligation to install them on units previously sold. Specifications, descriptions and illustrative material herein are as accurate as known at time of publication, but are subject to change without notice. Availability of some models and equipment builds varies according to the country in which the equipment is used.

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