

# Organize. Visualize. Decide.

Topcon Agriculture Platform (TAP)

WHY TAP?

APPLICATIONS &  
FEATURES

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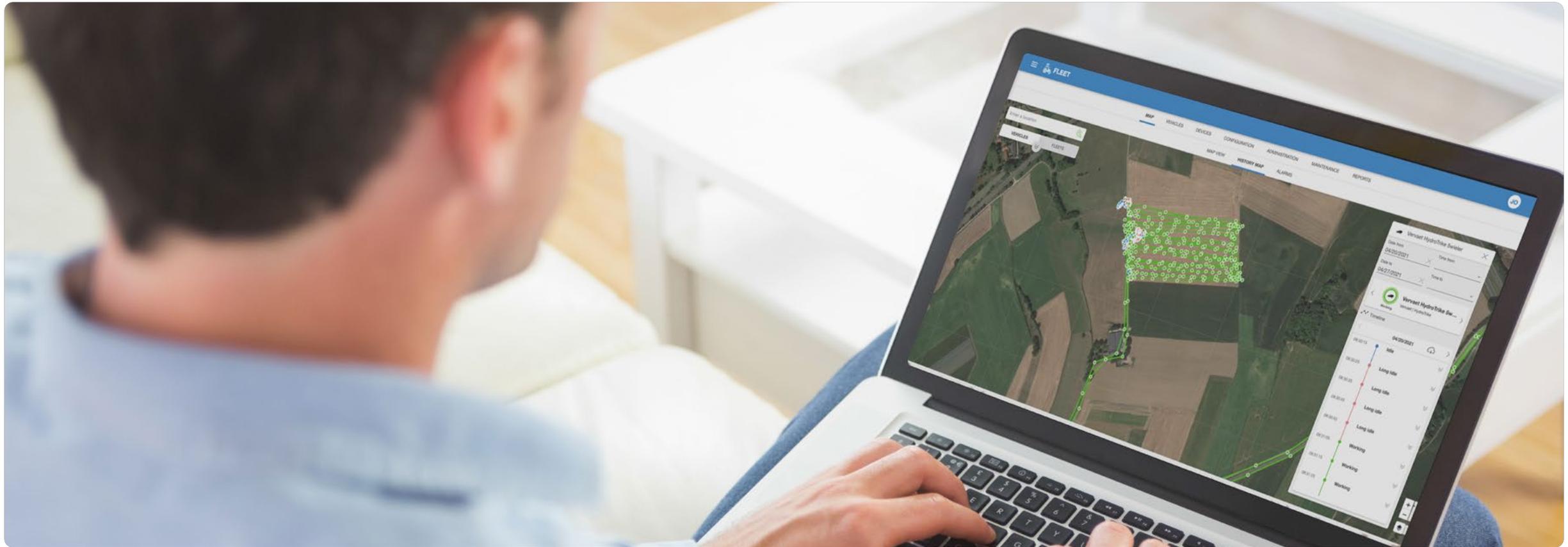
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Join the path to Connected Precision.

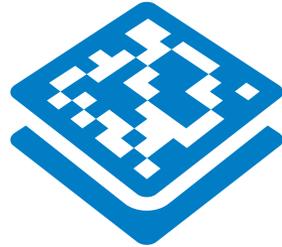
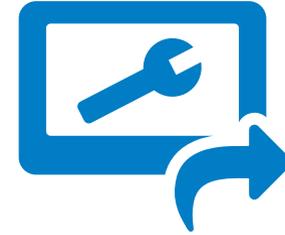
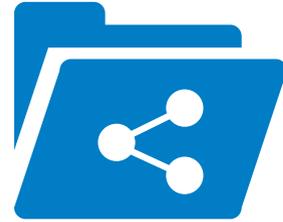
Soil Prep | Seeding | Crop Care | Harvest | Feeding

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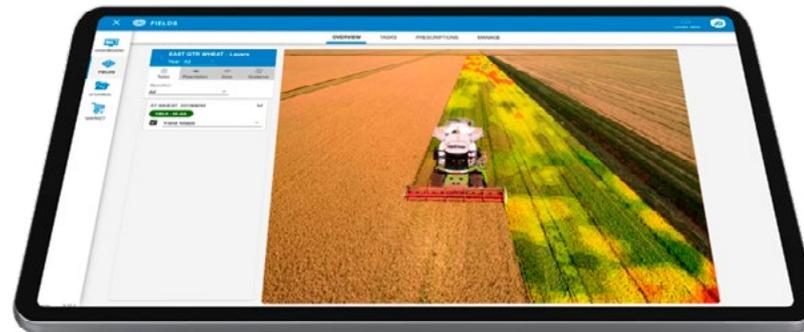
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An easy-to-use tool to organize,  
see and act on data from across your farm.



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Soil Prep



Seeding



Spraying



Harvest



Feeding

## Topcon Agriculture Platform (TAP)

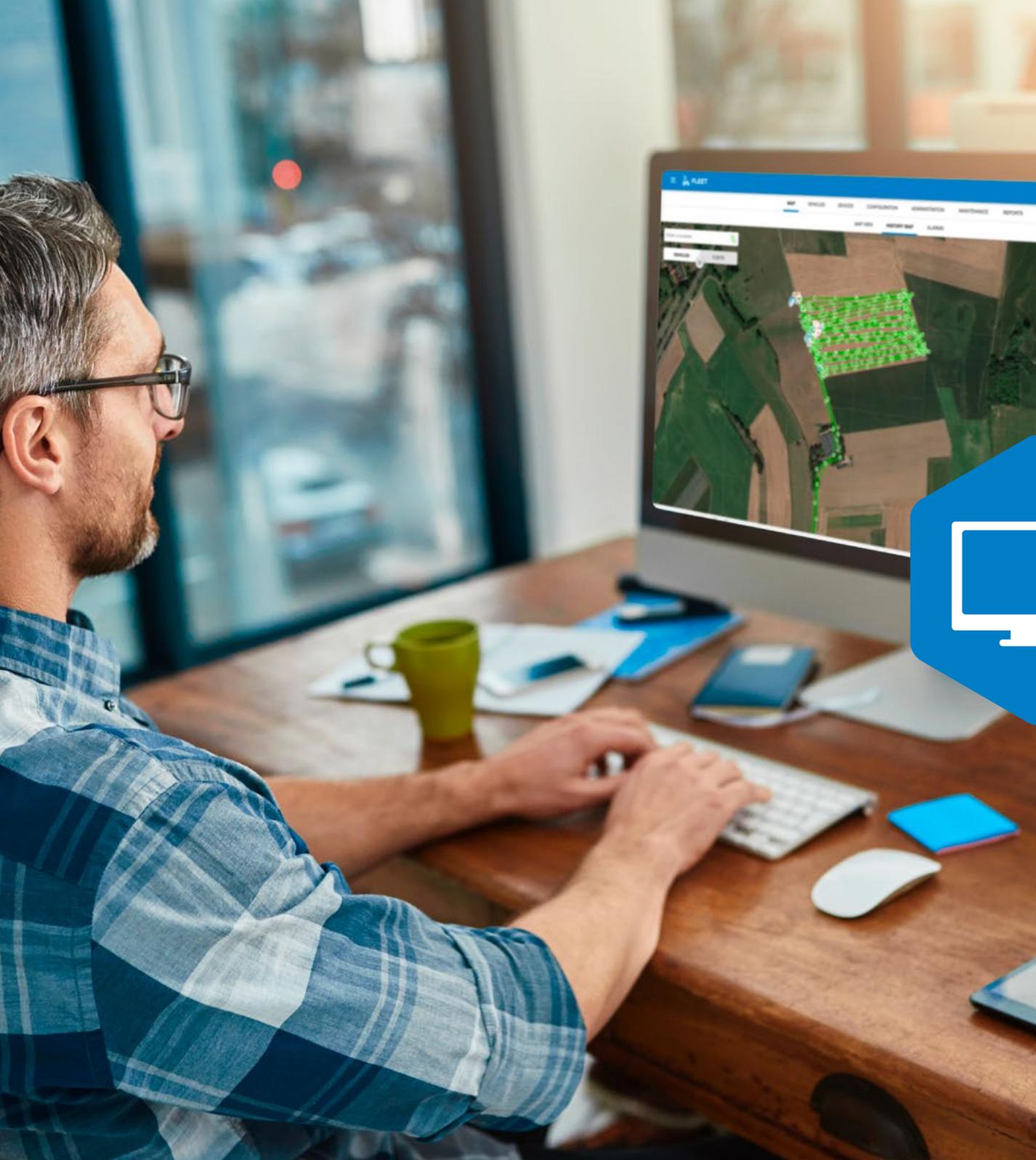
TAP brings connectivity to every phase of the farming cycle, completely automating the data workflow, so users can focus on action.

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Easy to use drag-and-drop interface to see and act on data that flows in from equipment.



Securely manage and share data with trusted partners.

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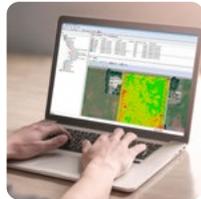
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# A smart model

A model in which all stakeholders can collaborate through a digital platform that provides accurate analysis to support the farmer's decision-making process.



Collect / Apply



Track



Prove



Improve



 **TAP**  
Topcon Agriculture Platform

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# Collaborative Platform

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Designed for farmers and agronomists who need to gather and consolidate information to make key, management decisions.

TAP is an open, brand-neutral platform that provides data management straight from the field, through analysis, mapping and delivery of actionable outputs directly to the machine.



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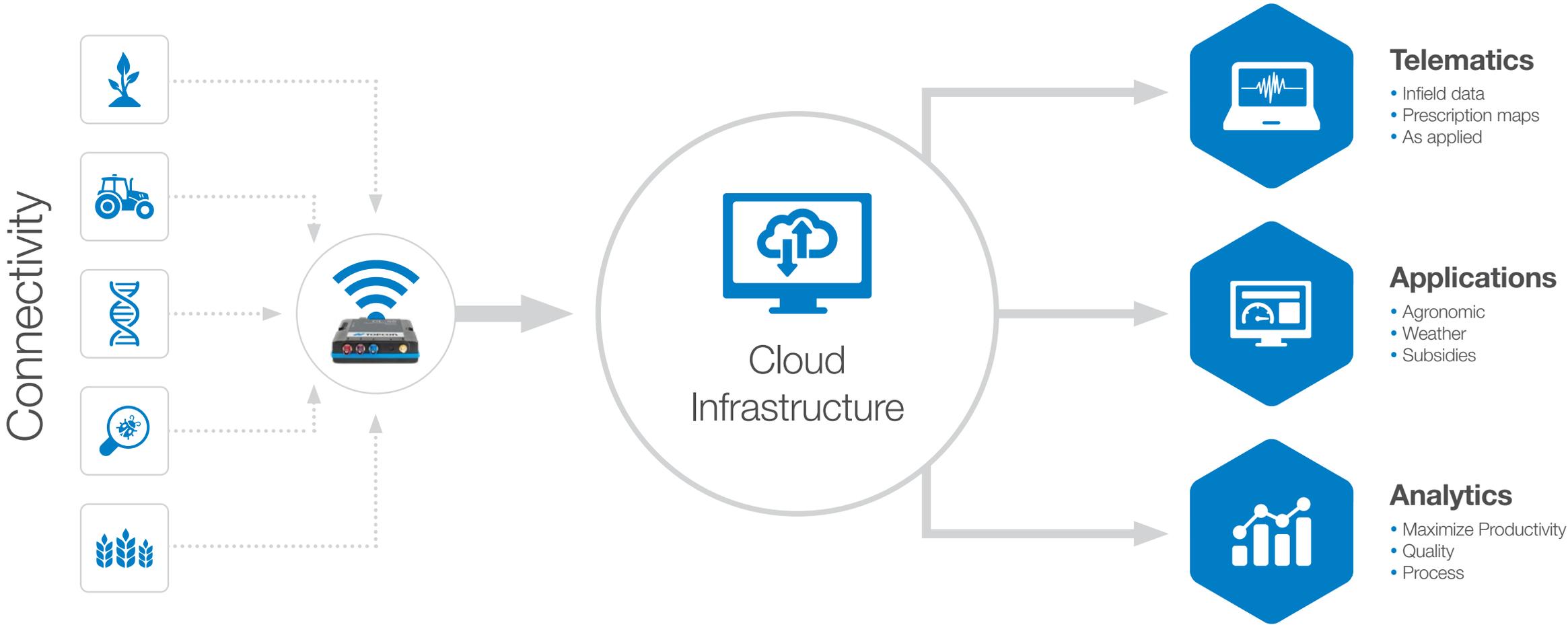
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# Value for All Stakeholders

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Constant connectivity, any data format, clear visualization, and secure sharing.

## **Dealers**

Dealers can maximize revenue and time through subscriptions and remote support.

## **Co-Op / Agronomy Center**

Agronomists can spend more time on insights and less time collecting data.

## **Farmers**

Farmers can control all data in one platform and focus on action.



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# TAP Topcon Agriculture Platform



## Dashboard

Organize operations and tasks in customizable widgets.



## Fields

Layer all field data for agronomic insights. Visualize and decide.



## Storage

Efficiently cleanse, organize, and share nearly all data formats.



## Fleet\*

Connected fleet management. Track and monitor metrics to boost efficiency.



## Support

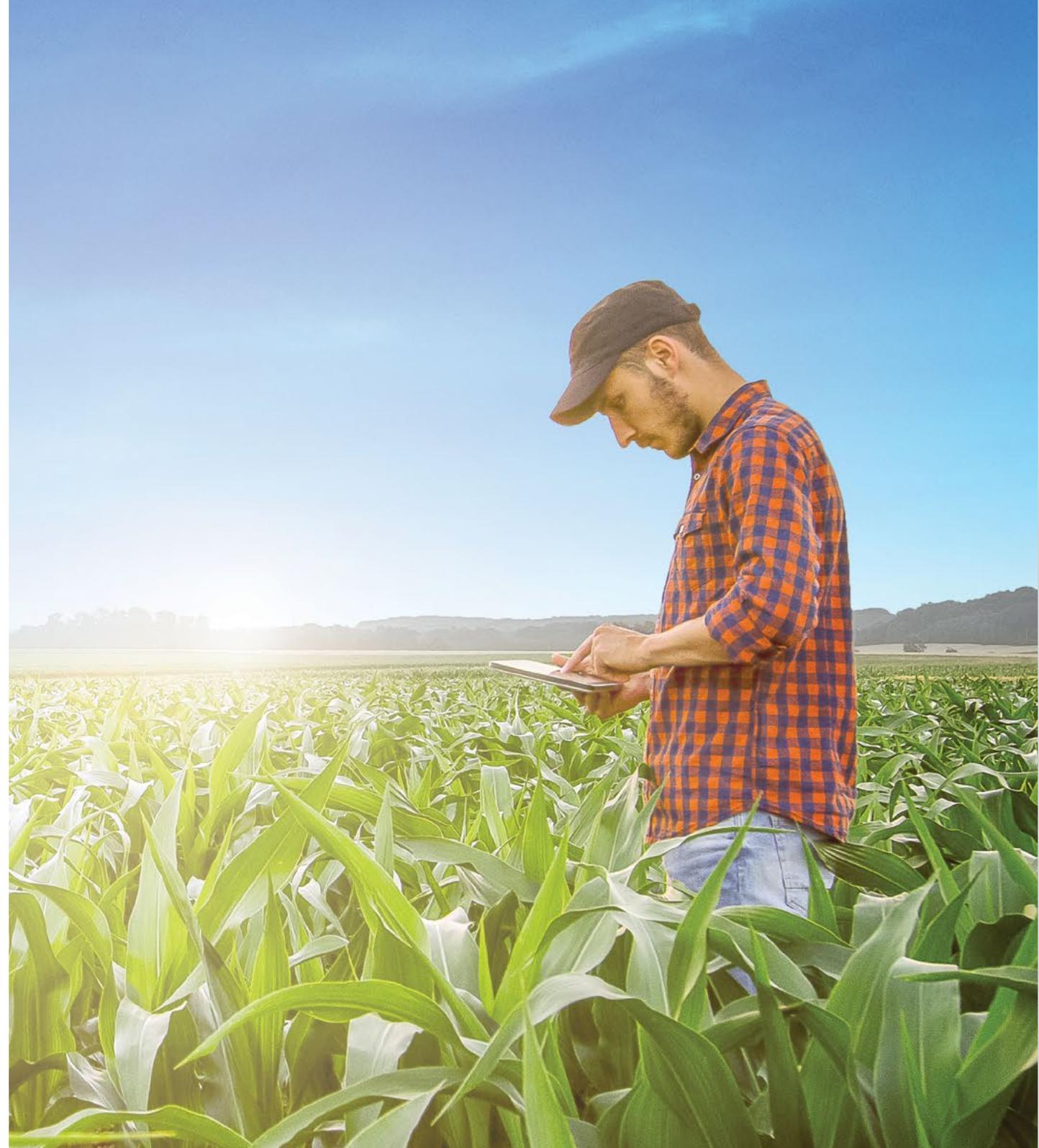
Complete direct support in-cab for Topcon consoles.



## Marketplace

Subscription management portal for transparency and efficiency. Pay only for what's needed.

\*Cloudlynk devices required.

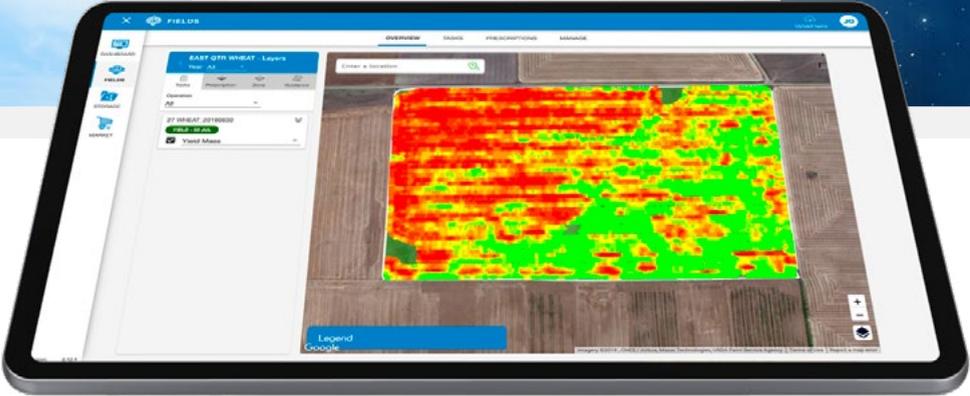
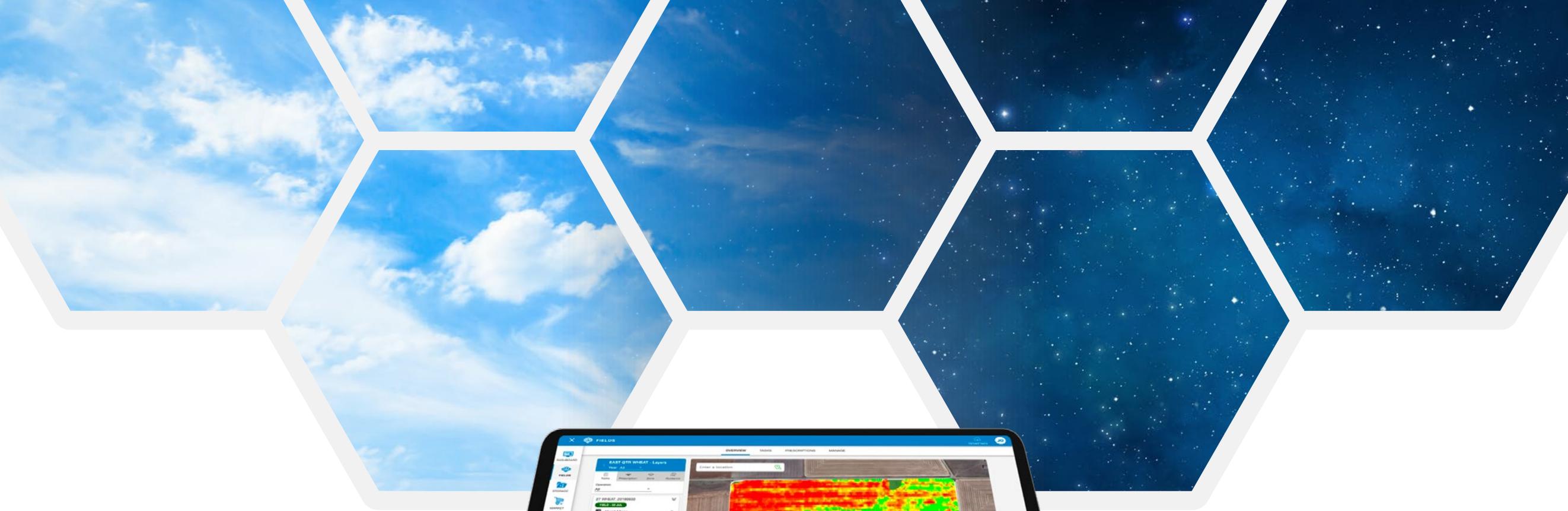


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TAP Any data, Anytime



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## Planning

Import fields, upload harvest, and any other data to TAP to create your foundation for the upcoming season.

## Seeding

Share data with trusted advisors to create tasks for spring seeding. Form a nutrient program for the upcoming season.

## Crop Care

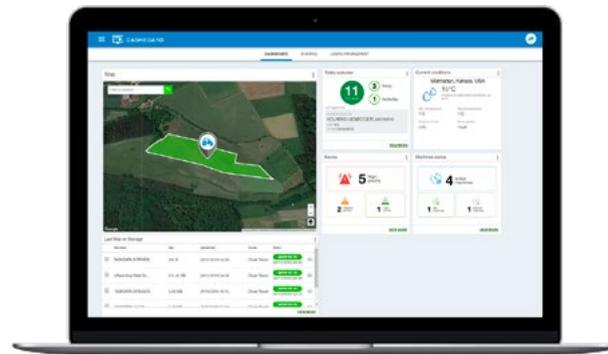
Right product, right place. Maps and data are transferred between the field and TAP for detailed digital record keeping.

## Harvest

Reap the rewards. Yield maps are transferred seamlessly from the combine into TAP, another season of yield data is captured.

## Gain Insights

Analyze historical seasons data with trusted advisors to gain an accurate and deep understanding of your farm, all managed in TAP.



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# VRC Workflow

TAP Topcon Agriculture Platform

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Develop Rx  
Quickly in TAP

Perform VRC Task

Review VRC  
for Accuracy

Send to Console

Task Synchronized with  
TAP when complete





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 **TAP**  
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Brand specific  
Yield Map



Brand specific Seeding  
Prescription Map



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Analysis



Spraying Prescription Map



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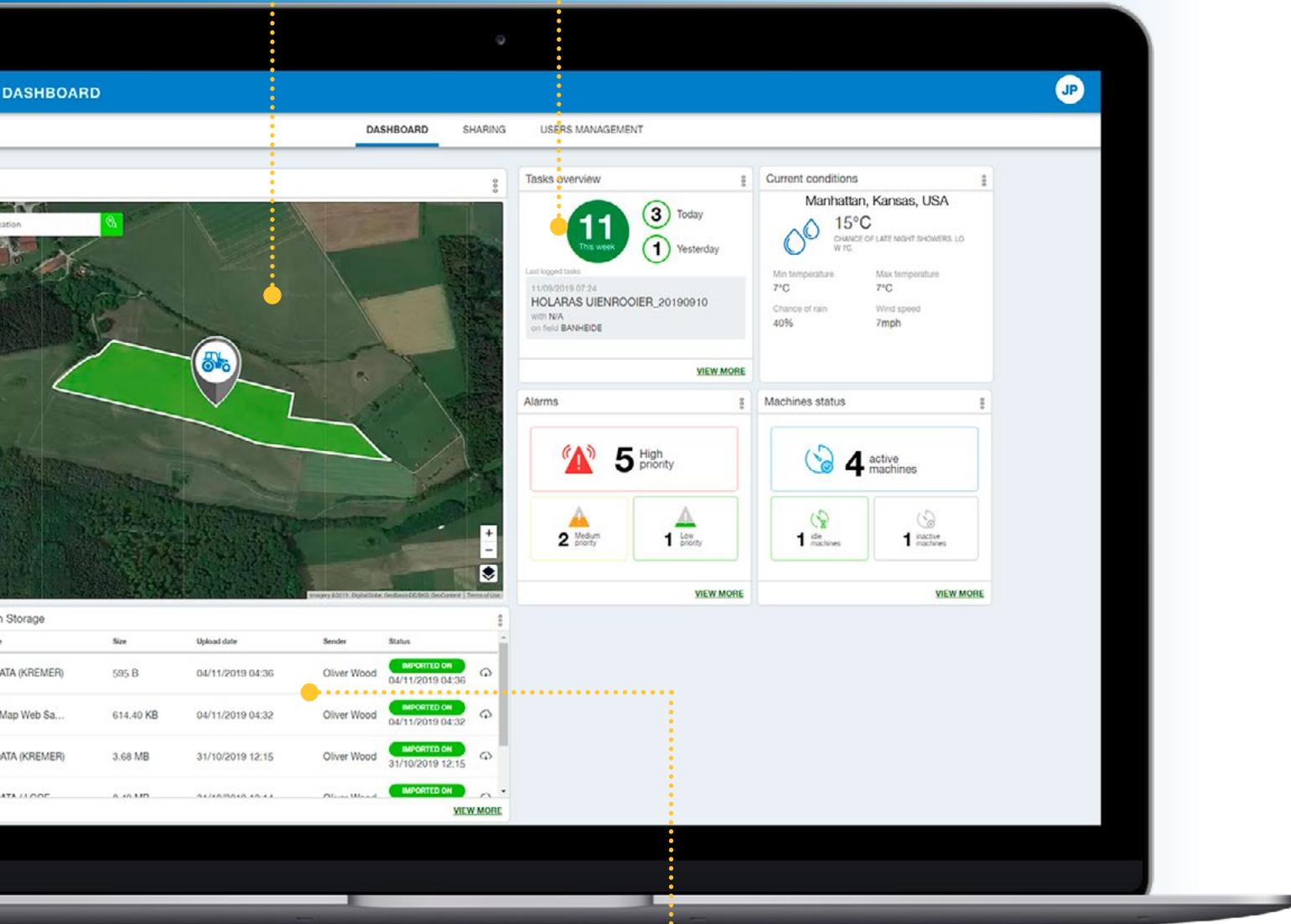
# TAP into Connected Precision

Bring connectivity to every phase of the farming cycle



FIELD AND FLEET  
MANAGEMENT

RELEVANT  
NOTIFICATIONS



RECENT UPLOADS



## Dashboard

Organize operations in customizable widgets.

- Weather
- Boundaries & Work Regions Map
- Recent Uploads
- All Tasks
- Machine Alerts
- Machine Status

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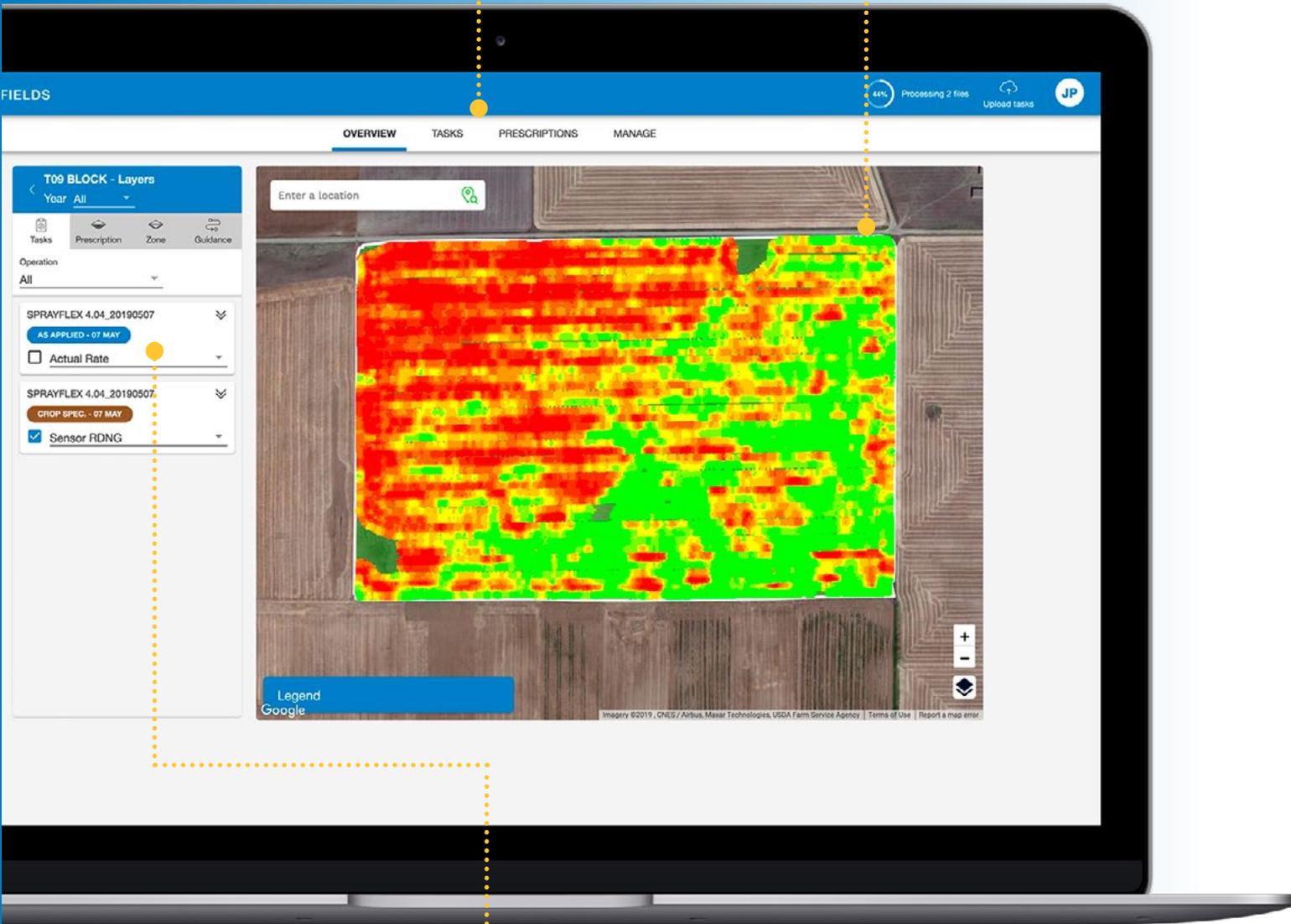
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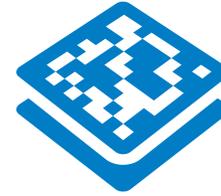
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ACTIVITY  
MANAGEMENT

ADVANCED  
VISUALIZATION



DATA LAYER  
MANAGEMENT



## Fields

Merge and visualize data layers to unlock agronomic insights.  
Manage prescriptions with partners directly through TAP.

- Intuitive Views and Management
  - Application layers
  - Elevation
  - Speed
  - Imagery
  - Tasks
- Create Zones and Prescriptions
- Manage Guidance Lines for Path Planning

WHY TAP?

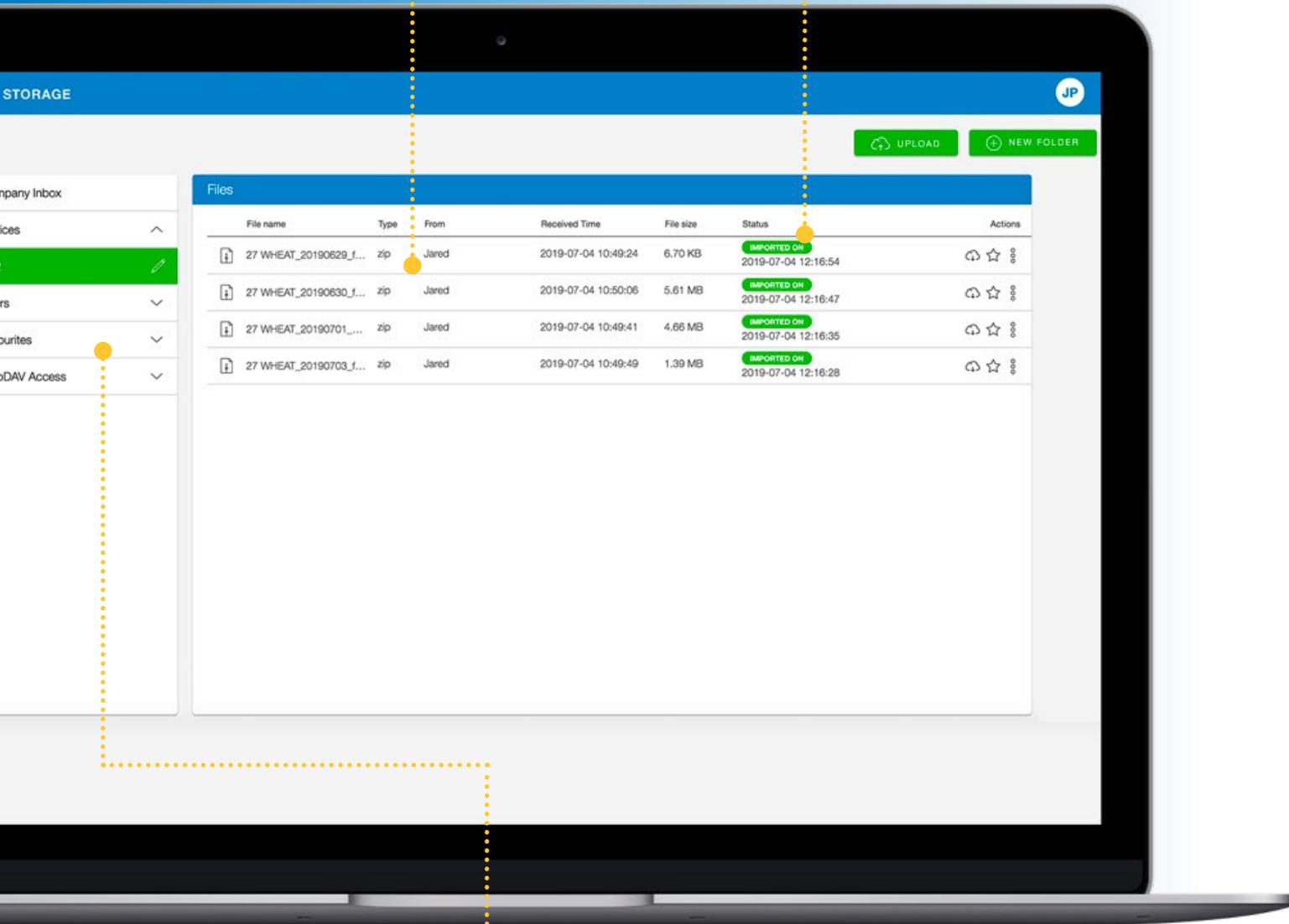
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INTUITIVE DATA  
MANAGEMENT

DETAILED  
UPLOAD STATUS



EASILY EXPORT  
AND SHARE



## Storage

Upload and manage nearly any data format. Easily export or share directly through TAP with trusted partners.

- Displays all data uploads
- Filterable and sortable
- Full control (Customer can delete data)
- Processing status displayed
- Share data with partners and advisors
  - Invitee must create TAP account to view data
  - Able to revoke access at any time
  - Get indications when data is viewed

WHY TAP?

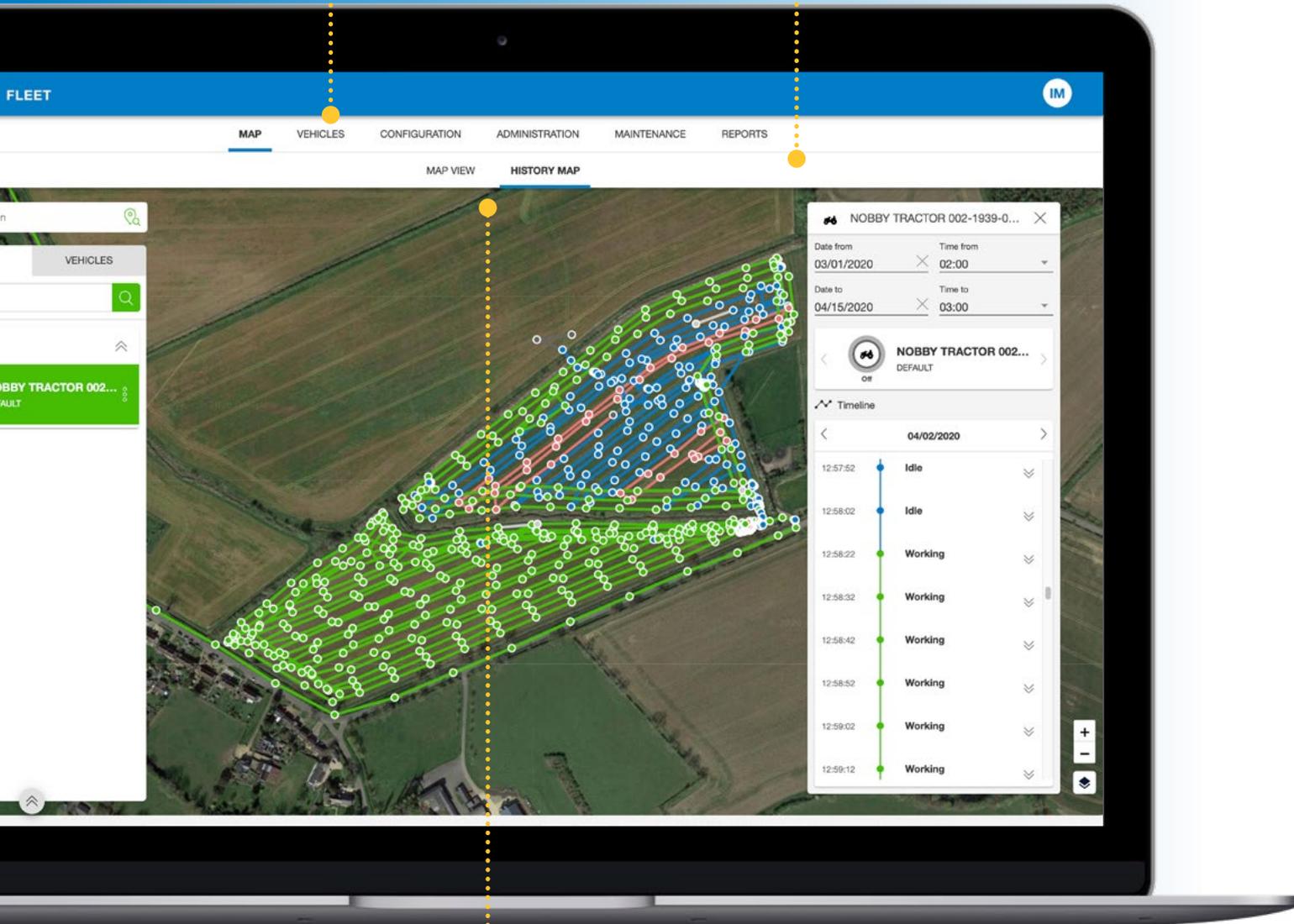
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CLEAR, EXPORTABLE  
REPORTS

REAL-TIME  
MANAGEMENT



VITAL METRIC  
MONITORING



## Fleet

Track and monitor vital machine metric to reduce downtime and boost operational efficiency.

- Machine health
- Near real-time management
- Create fleet operations reports
- Set GeoFence and curfews
- Monitor CANBUS parameters
- Customize J1939 and CAN parameters
- Customer alerts

WHY TAP?

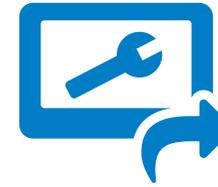
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REMOTELY DISPLAY AND CONTROL TOPCON CONSOLE

DIAGNOSIS, CALIBRATION AND TRAINING



## Remote support

Powerful digital support improving performance and reducing downtime. Remote calibration of Topcon displays and software.

- Remotely display console screen
- Remote control most console functions
- Reduced lag compared to TeamViewer
- Perform support diagnostics and training
- Connect to multiple consoles

WHY TAP?

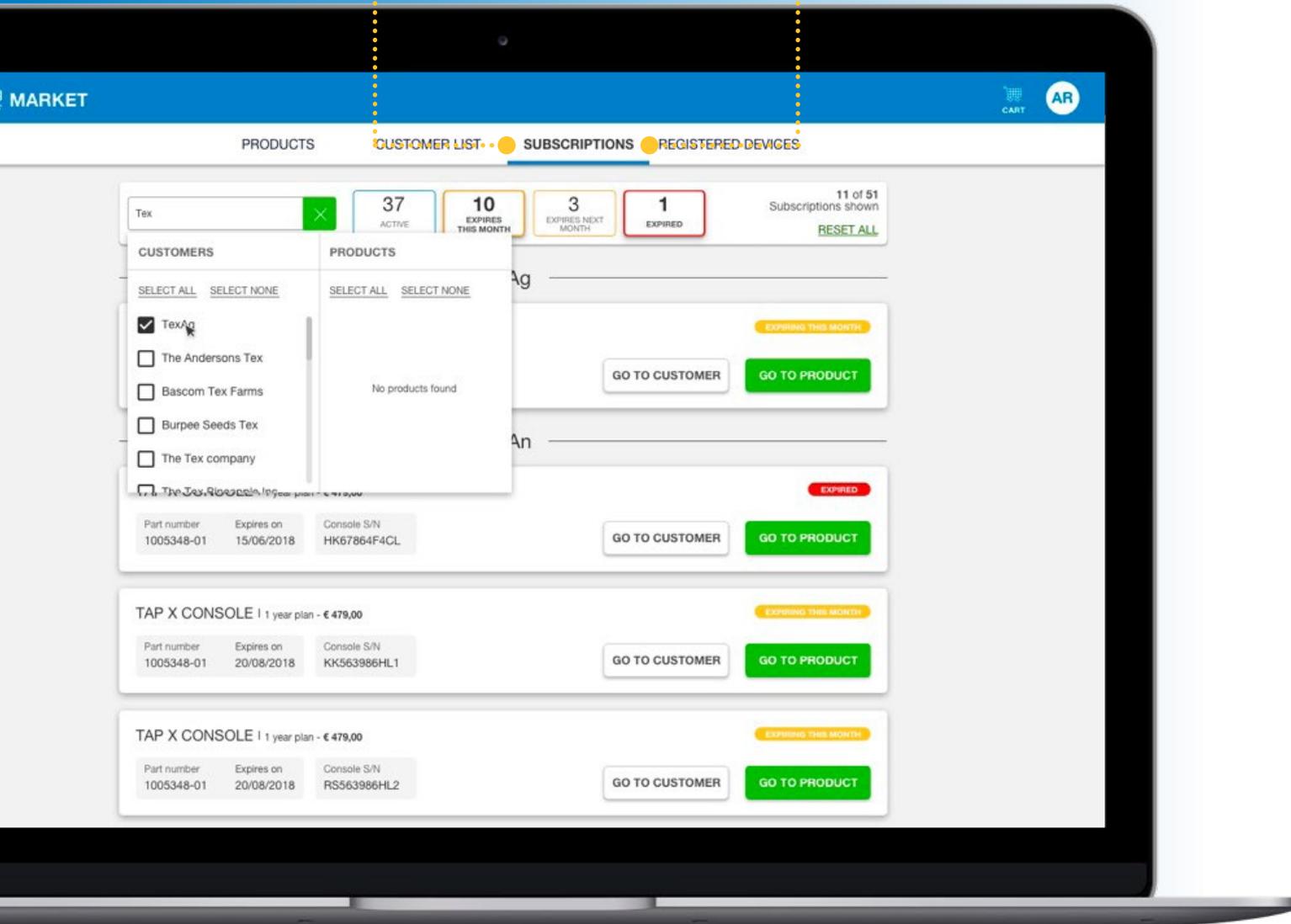
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CLEAR SUBSCRIPTION  
MANAGEMENT

INTUITIVE USER  
MANAGEMENT



## Market

Save time and money through a digital marketplace providing flexible subscription-based services. Pay only for what's needed, when it's needed.

### Dealers

- Add Customers
- Sell Subscriptions
- Manage Upgrades and Renewals

### Growers

- Register Devices
- Purchase Add-Ons
- Manage Renewals

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## Feed management

As feed represents roughly 50% of livestock costs, it's essential to incorporate a precision management plan to maximize returns.

TAP's been designed to ensure your cattle get the proper total mix ration for optimum performance.



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## TAP into Connected Precision

Connectivity Devices



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## A Smart Model for Inputs Constant Connectivity

With Cloudlynk Devices and TAP, constantly track and extract valuable data to optimize recommendations and performance for increased profitability.

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## Topcon Cloudlynk Devices

Designed to suit virtually any agricultural machine or implement, the Topcon CL-55 cloud connectivity device goes beyond automatic data collection and upload, providing advanced capability for a fully connected ecosystem.

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## Your files are always connected

Designed to interface with Topcon X- Family (XD, XD+, X25, X35, X30) or with many in-cab consoles across the agriculture industry, the CL-20 cloud connectivity device provides streamlined data transfer via cellular-network to the Topcon Agriculture Platform (TAP).

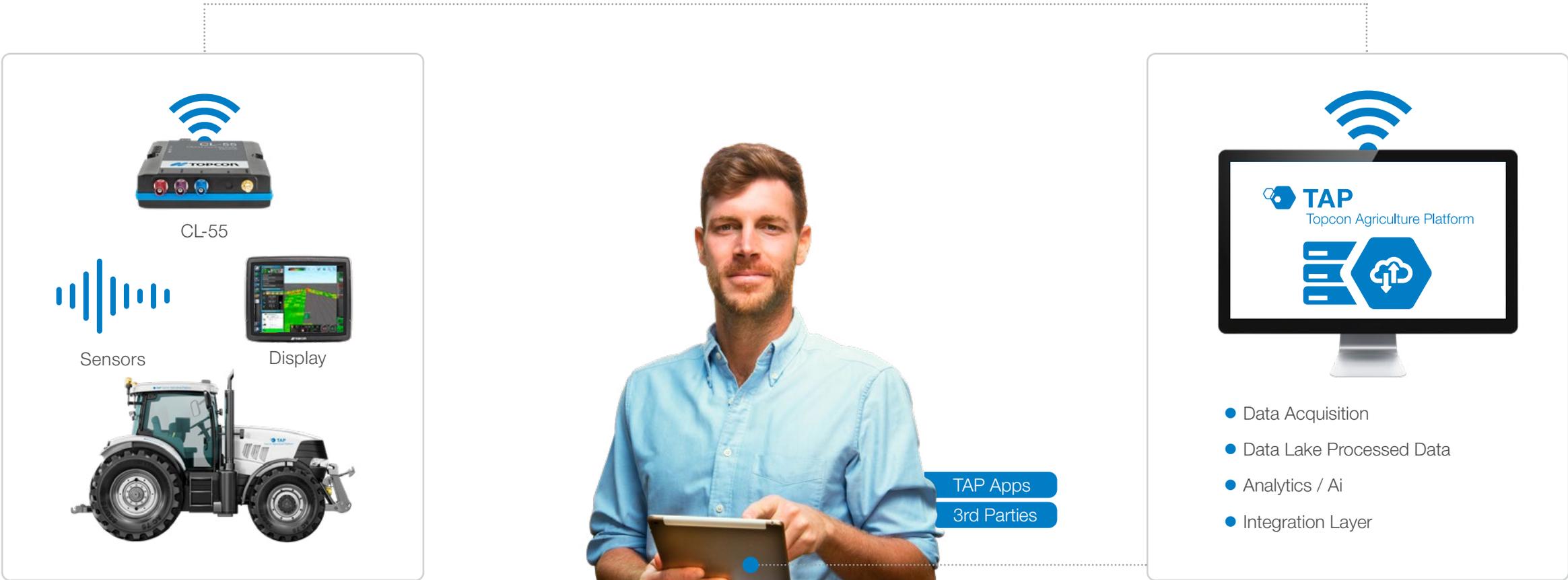
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# The modern agricultural workflow.



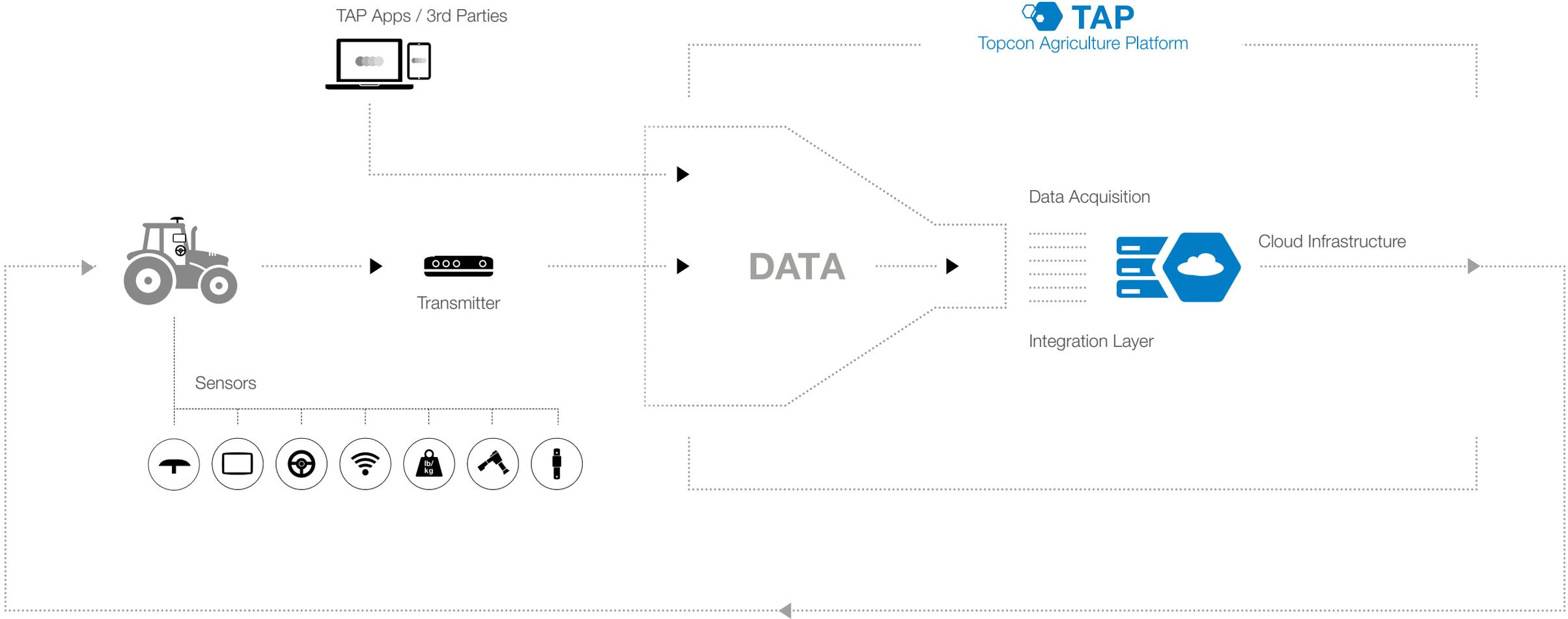
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# TAP Architecture



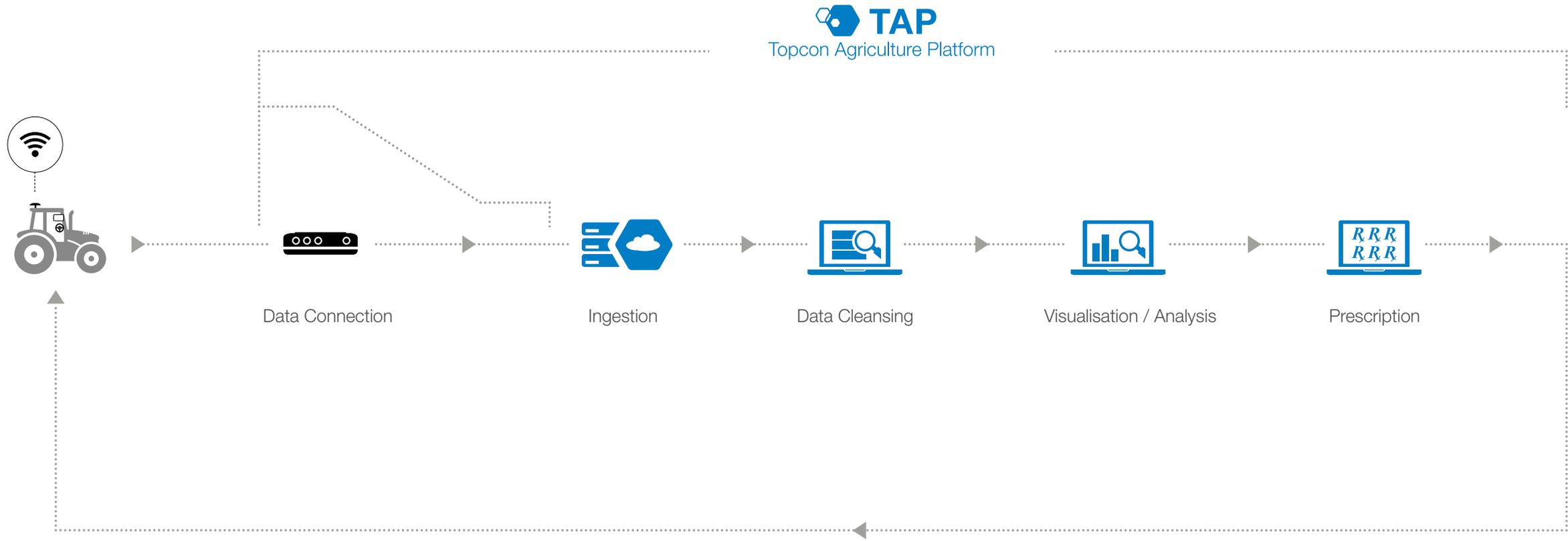
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# TAP Workflow



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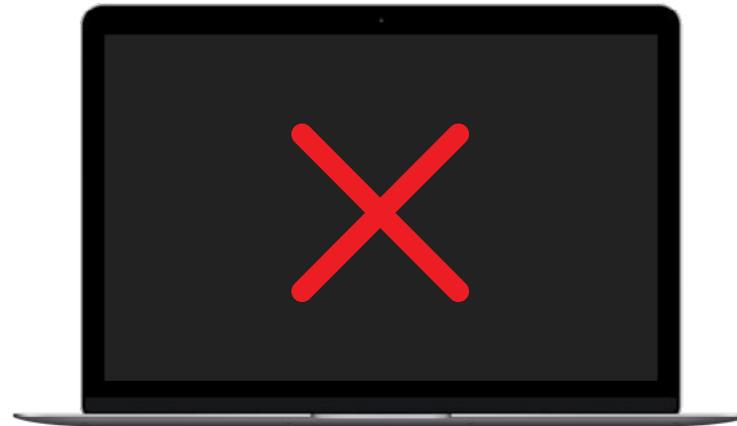
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The problem



A fleet of 5 machines of different brands?

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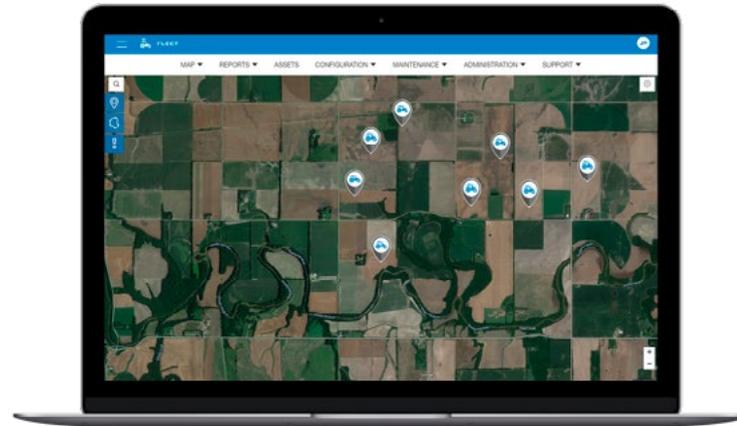
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The solution



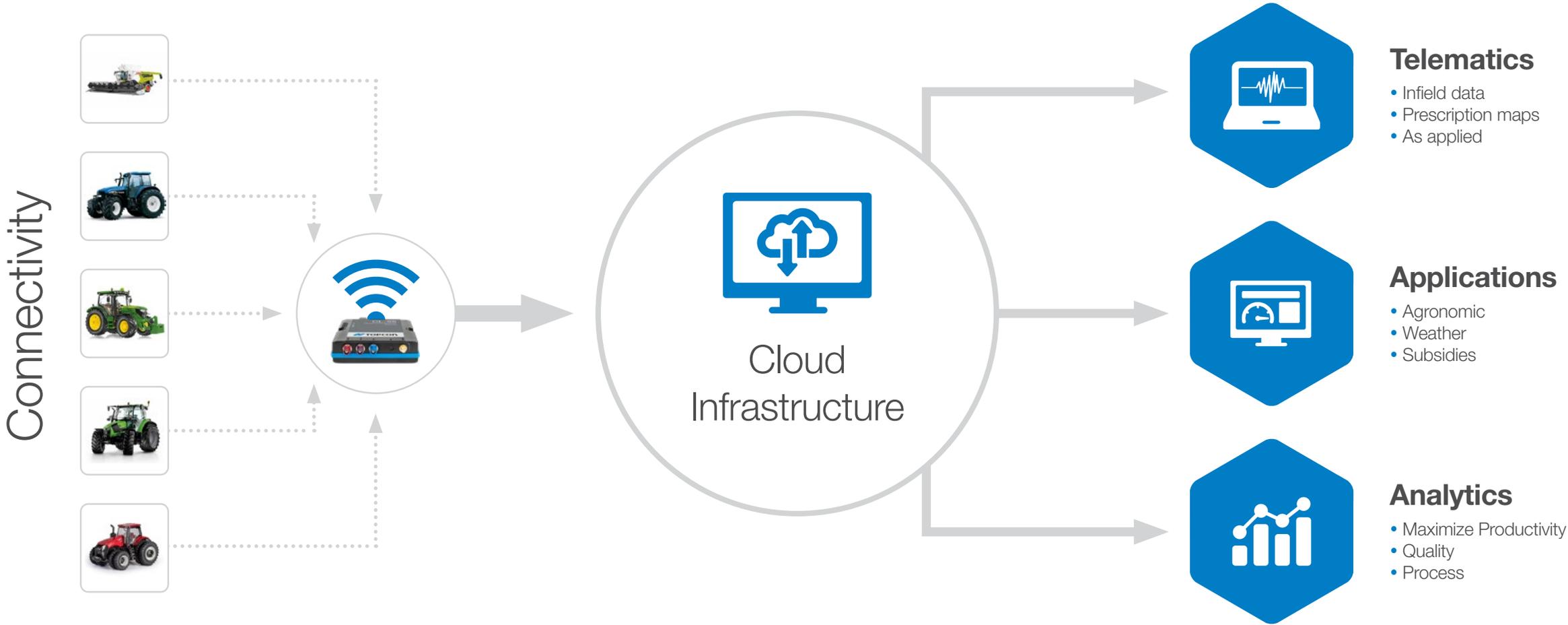
TAP into integrated precision

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# TAP Fields

An innovative and easy to use platform to consolidate and organize all farm data.

# TAP Pro

Automate the data workflow, with streamlined connection and fleet management.

# TAP Fleet

Clearly track machines and status, anywhere, anytime.



### Dashboard

Organize operations and tasks in customizable widgets.



### Storage

Efficiently cleanse, organize, and share nearly all data formats.



### Fields

Layer all field data for agronomic insights. Visualize and decide.



### Market

Subscription management portal for efficiency.



### Remote Support

Complete direct support in-cab for Topcon consoles.



### Includes all TAP Fields features



### Automatic Sync

Automatically uploads and syncs all in-cab and office data to TAP. Topcon display required.



### Fleet

Connected fleet management. Track and monitor metrics. CL-55 only.



### Cloudlynk Activation

Fully activates Cloudlynk devices associated with TAP Pro subscription.



### Dashboard

Organize operations and tasks in customizable widgets.



### Fleet

Connected fleet management. Track and monitor metrics. CL-55 only.



### Market

Subscription management portal for efficiency.



### Cloudlynk Activation

Fully activates Cloudlynk devices associated with TAP Pro subscription.

Cloudlynk connectivity device required.

Cloudlynk connectivity device required.

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# CL-20

X Family console connectivity.  
Or seamlessly transfer data from many  
third party consoles to TAP.



**Enables TAP Pro**



**NTRIP**  
NTRIP (Internet based corrections)  
for Topcon guidance receivers.



**Automatic Sync**  
Automatically uploads and syncs  
all in-cab and office data to TAP.

TAP subscription required.

# CL-55

Manage the fleet, upload data to TAP,  
or enable autosteering accuracy.



**Enables TAP Pro**



**NTRIP**  
NTRIP (Internet based corrections)  
for Topcon guidance receivers.



**RTK Radio**  
Optional RTK radio for Topcon  
guidance receivers.

TAP subscription required.

# TAP Grain Cart

Automatic upload of Topcon  
Connected Grain Cart data  
to **TAP Fields/Pro** account.



Cloudlynk connectivity device & activation required.

## Cloudlynk Activation

Required to activate:

CL-20 or CL-55 for **RTK NTRIP** functionality

CL-55 cellular connectivity for **TAP Grain Cart**

Cloudlynk connectivity device required.

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## About Topcon

Our technology can improve your workflows for increased productivity and profitability while reducing rework and waste.

**Information for OEM**

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Information for OEM

## Trust Topcon

We are the ideal partner for developing advanced solutions for your positioning and machine control challenges. Our experience, technical expertise and overall company strength make us uniquely qualified to provide enhanced automation technology and ultimately drive your customers' productivity – along with your market share – to ever higher levels.

SPEED TO MARKET | GLOBAL NETWORK | EXPERIENCED OEM TEAM

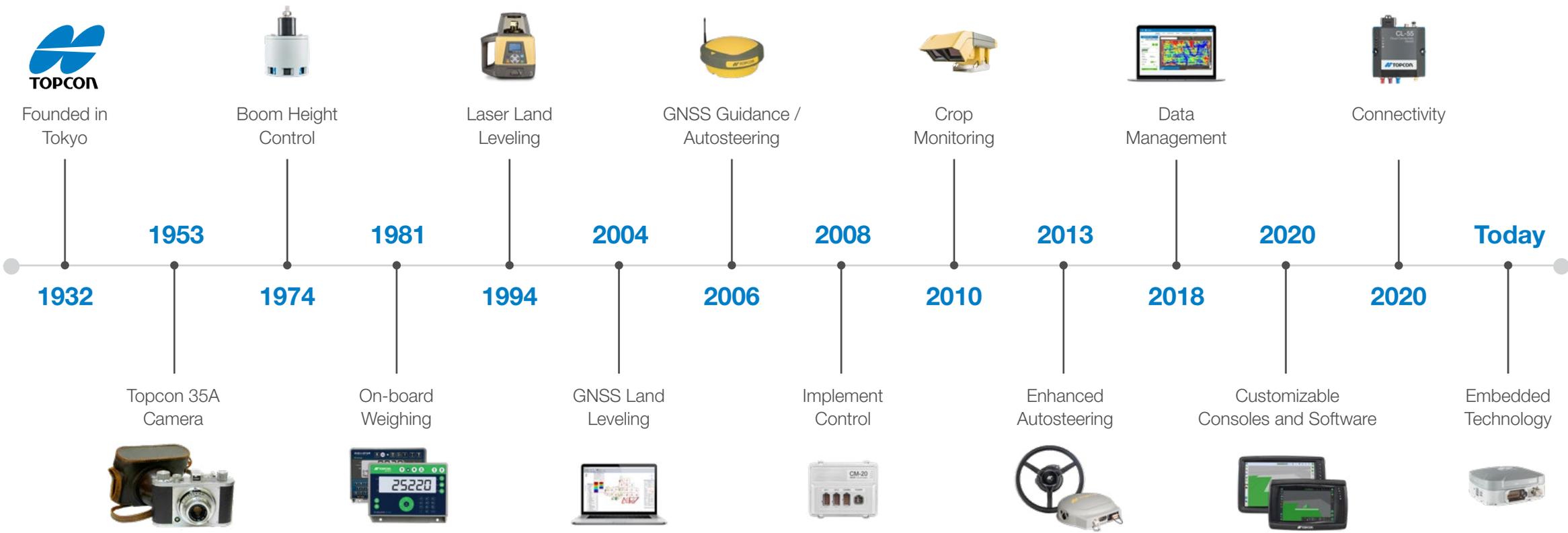
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# A History of Topcon Corporation in Agriculture



Note, displays current product images in reference to when development began.

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Trust Topcon to get you there faster with high-quality positioning and automation solutions tailored to your product strategy.

**Independent solutions**

In an industry with many contractual alliances, we remain independent. We have the freedom to develop technologies that best fit your unique goals. Our custom OEM solutions are all clean-sheet designs, providing more opportunities to differentiate your product from the competition.

**Speed to market**

Product development carries an inherent pressure to do everything faster and better than before, particularly since technology is only viewed as innovative if it arrives before the competition. Our experience helps simplify and shorten the design process, allowing you to go to market with your product faster – and with the utmost confidence.



Topcon Training Center,  
*Livermore, CA*

Topcon Technology  
Roadshow Truck

Topcon Positioning Systems Headquarters,  
*Livermore, CA*

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4900+ Employees | 2150+ Patents

## Global Network

With an extensive worldwide network of corporate offices, R&D centers and technical groups, we have an unmatched capability to assist any manufacturer, no matter where they are located, with fully integrated machine automation solutions. This also positions us to create programs to assist and support dealer networks, directly or through extensive training programs.

## Experienced OEM Team

Our experienced OEM team knows what questions need to be answered first and the potential pitfalls to be avoided along the way. Their first objective is to make sure our technology is the right fit for your application and be your partner every step of the way.



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# Easily Integrated Modular Technology



## Guidance

Consoles

Steering



ACU-1



EHi Valve



## Correction Services

GNSS Receivers

Base Stations & Reference Stations Network



MC-R3



## Digital Farm Management

Data Software

Connectivity

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Click a product block to be directed to the respective web page.

# Customizable Solutions for Every Application



## Soil Preparation

Landforming and Drainage		Tillage	
		 <p>Strip Till Control</p>	
Hardware			
 <p>MC-R3 Receiver/Control</p>	 <p>TM-1 Electric Mast</p>	 <p>HCM1 Controller</p>	
 <p>System 5 Series Controller/Display</p>		 <p>UC7 Ultrasonic Sensor</p>	
Software			
 <p>AGForm-3D Survey/Design</p>		 <p>ISO BUS</p>	



## Seeding

Seeding	Planting	Transplanting
Hardware		
 <p>Apollo CM-40 Controller</p>	 <p>Artemis AM-1 Controller</p>	 <p>Apollo CM-20 Controller</p>
 <p>MFDC 100 Seed Drill Monitor</p>		 <p>CAN Motor</p>
Software		
 <p>ISO BUS</p>	 <p>ISO BUS</p>	 <p>ISO BUS</p>



## Crop Care

Spreading	Spraying	Crop Monitoring
Hardware		
 <p>SL2 Converter (Weigh)</p>	 <p>Apollo CM-40 Controller</p>	 <p>HCM1 Controller</p>
 <p>Apollo CM-20 Controller</p>	 <p>LMS-20 Sensor</p>	 <p>UC7 Ultrasonic Sensor</p>
Software		
 <p>ISO BUS</p>		 <p>ISO BUS</p>
 <p>ISO BUS</p>		

Click a solution/product block to be directed to the respective web page.

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# Customizable Solutions for Every Application



## Harvest

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Yield Monitoring

Grain Cart Weighing

Hardware

 YM-1 Controller	 Optical Sensor	 YM-2 Controller	
 Moisture Sensor		 Load Sensor	 Load Sensor

Software

  
 ISO BUS

  
 ISO BUS



## Weighing

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Material Handling / Onboard Weighing

Universal Weighing

Hardware

 Pressure Sensor	 SL2 Converter
	 Cab Control App Indicator
 Pressure Sensor	 Load Sensor



## Feed Management

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Livestock Weighing

Feed Mixing

Hardware

	 Load Sensor	 2810BT / 3410B Indicator	 TAP FEED App
 Weighing Platform		 SL2 Converter	 Load Sensor

Software

Click a solution/product block to be directed to the respective web page.

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[topconpositioning.com](https://topconpositioning.com)

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