

© Connected Farm™



The Value of Connectivity in Precision Farming

Devon Liss Daniel Hedgecock

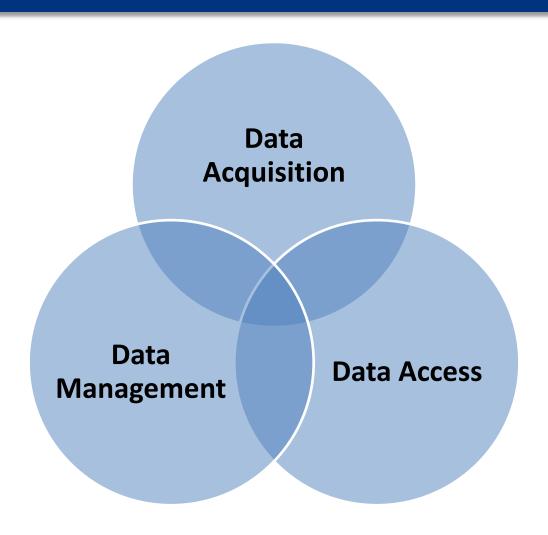
What is Connectivity?

Definitions

- Merriam-Webster Dictionary (def): the quality, state, or capability of being connective or connected
- Oxford English Dictionary (def): the ability of a computer, program, device, or system to connect to the internet, another computer, etc.



Precision Agriculture

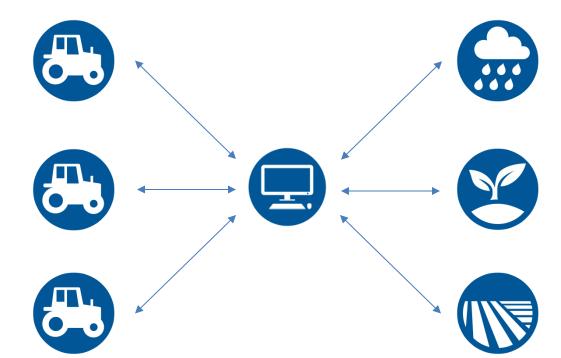




One to One

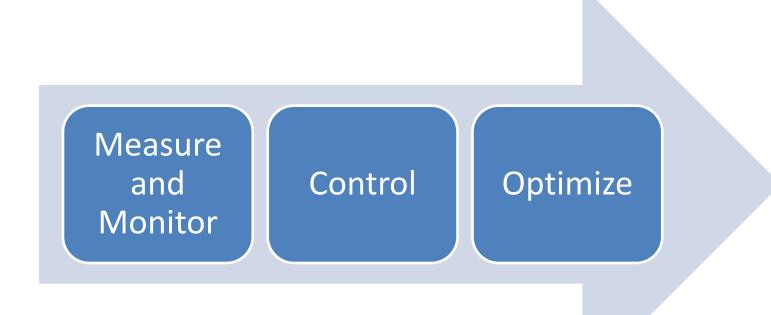
One to Many

Many to Many





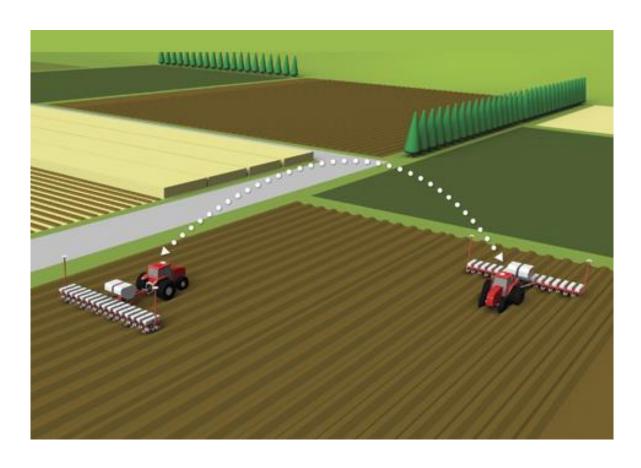
Connectivity is important because it can translate to value





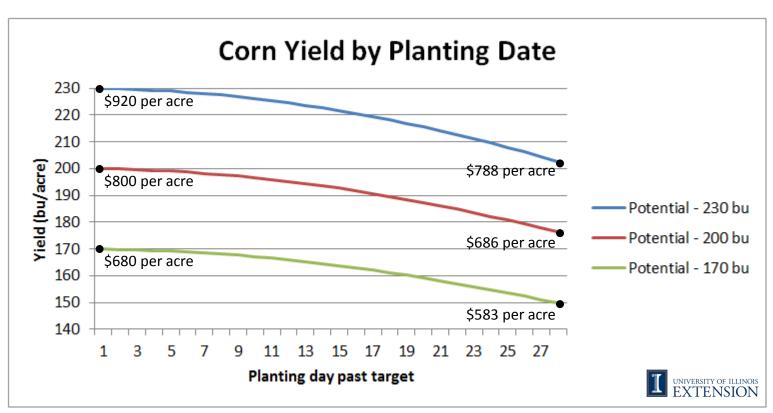
Planting

CONNECTIVITY





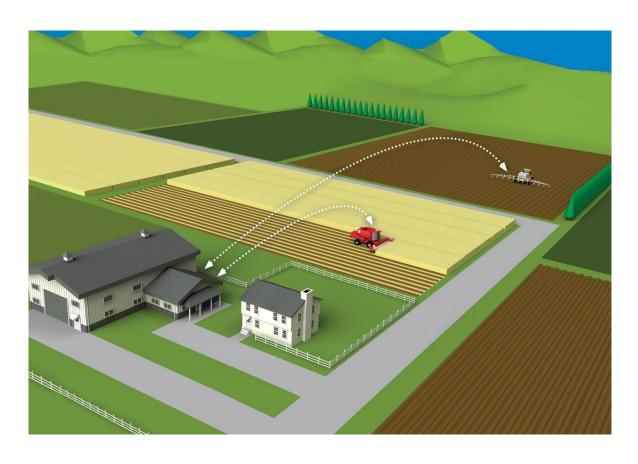
Optimizes operations — translates into real dollars



Note: per acre revenue figures assume \$4.00/bu



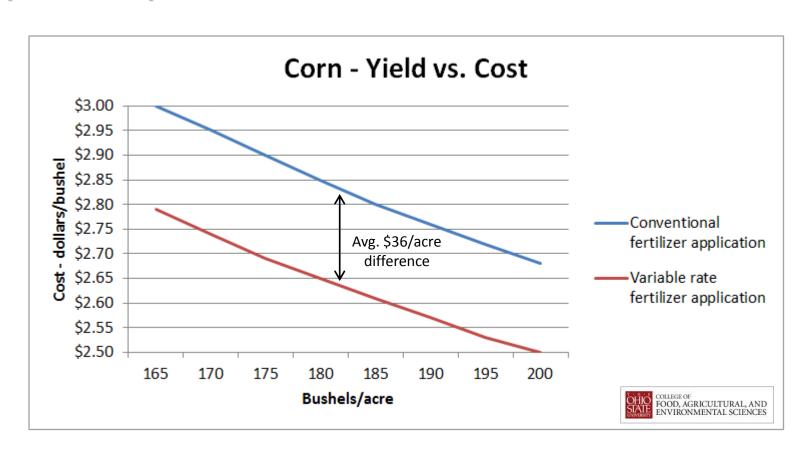
Harvest & Fertilizing





Harvest & Fertilizing

Optimizes operations — translates into real dollars







Connected Farm

Water Solutions

Guidance & Steering Solutions

Flow & Application Control

Harvest

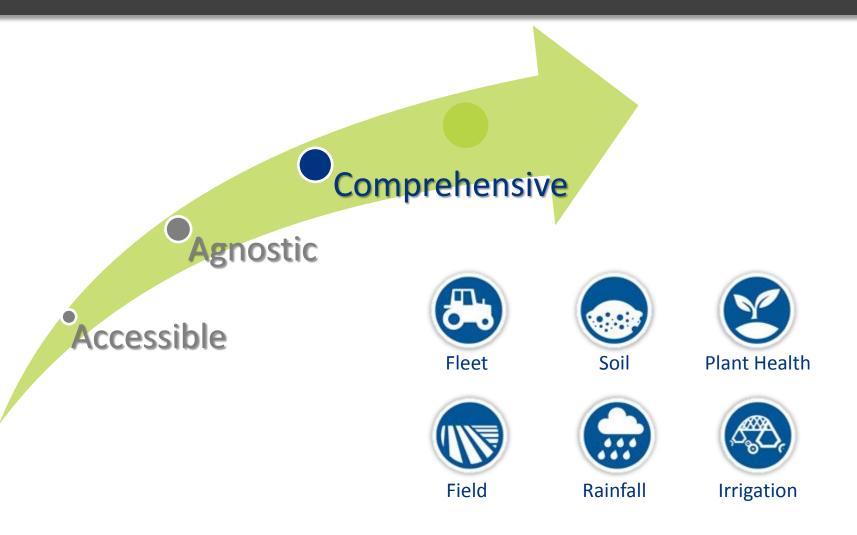




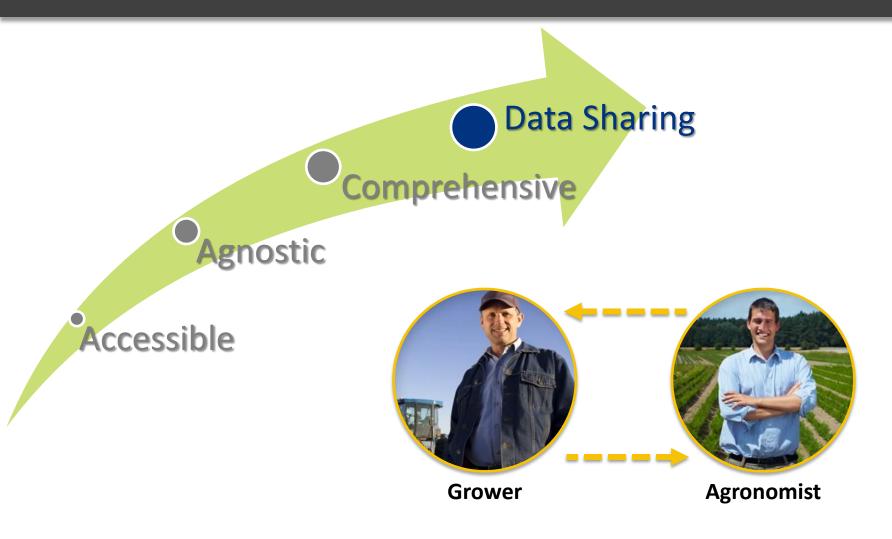














Overview

Accessible Software

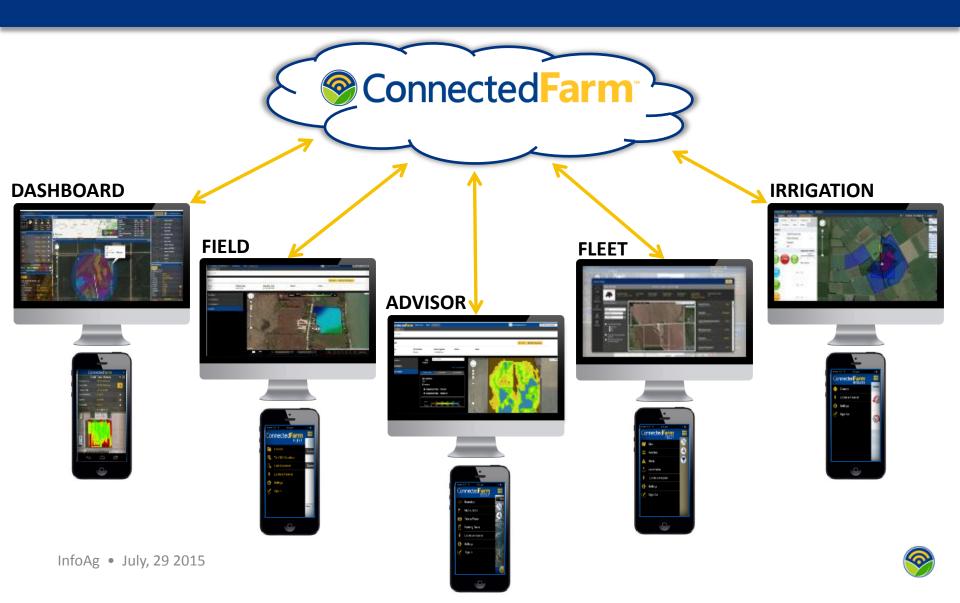
 Desktop, mobile, and web components that facilitate connectivity.

User Benefits

- ✓ Cloud based
- ✓ Online access
- √ Work Offline

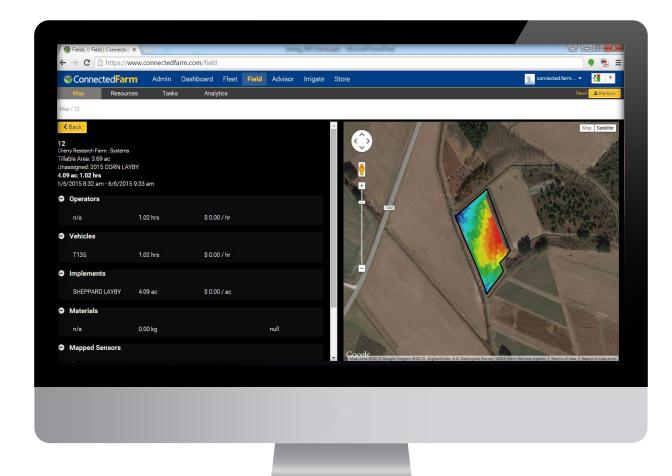


Cloud Based



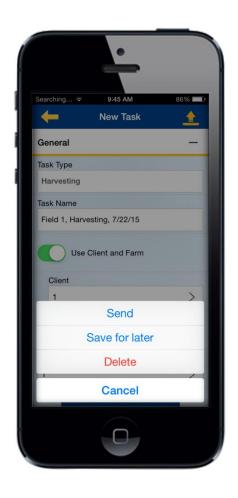
Online

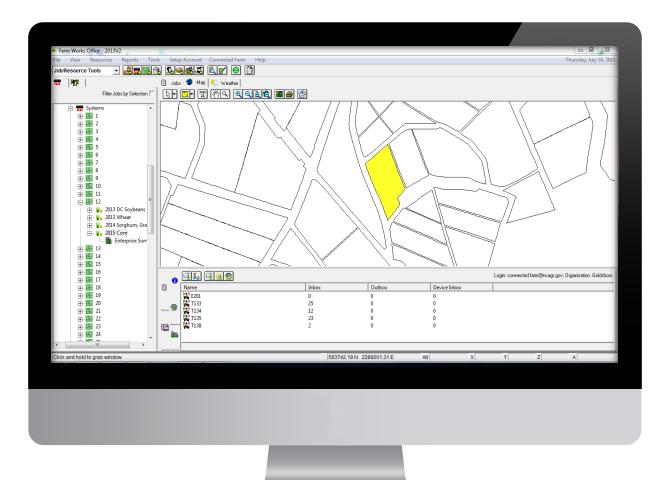






Offline







Overview

Agnostic Approach

• Interoperable among various systems.

User Benefits

- ✓ Data management focus
- ✓ Compatible with industry data formats
- ✓ Third party connections



Industry Data Formats







Office Sync





Third Party Connections



COMPREHENSIVE

Comprehensive Solution

Connected Farm is apart of a larger portfolio of solutions.

User Benefits

✓ Integrated solutions in:





Water Solutions



Guidance & Steering Solutions



Flow & Application Control



Harvest



Overview

Data Sharing Platform

• Built so a user(s) can share datasets.

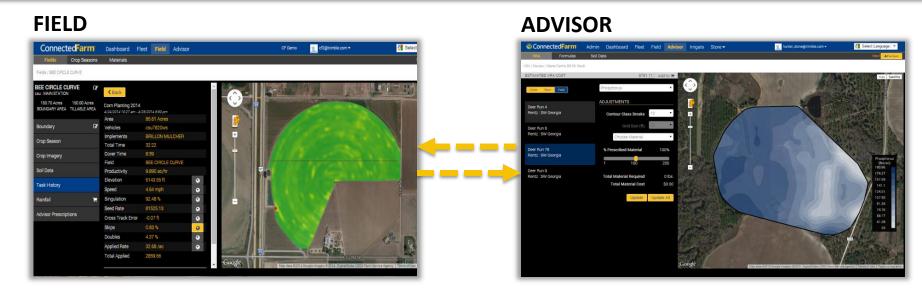
User Benefits

- ✓ Multi-user platform
- ✓ Enhances collaboration
- ✓ Organizes data
- ✓ Wireless data transfer



DATA SHARING

Overview







DATA SHARING

Data Flow





How is Connectivity valuable in the farming cycle?





Overview

Agronomist Value

Increases efficiency and makes data accessible.

User Benefits

- ✓ Data collection and storage
- ✓ Connectivity to the grower
- ✓ Recognize issues in real-time



Instant Access



Being Informed

PUREPIXEL



Real-time



GROWER

Overview

Grower Value

Data is available, organized, and ready to utilize.

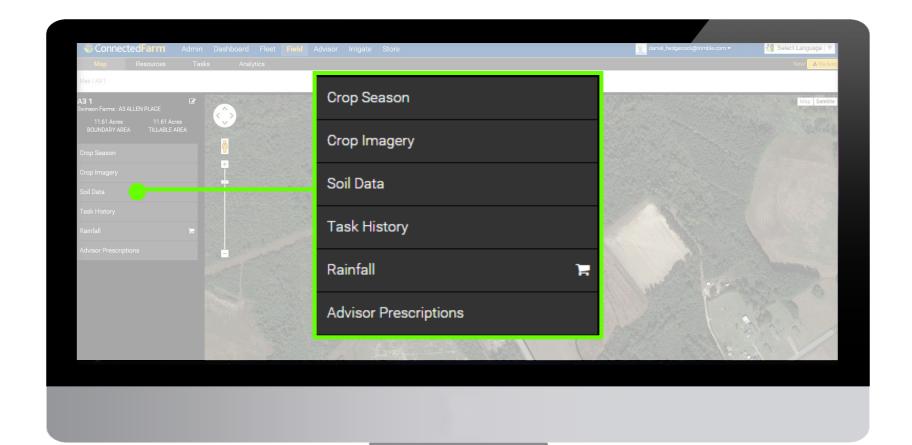
User Benefits

- ✓ Aids in record keeping
- ✓ Fast data transfer
- ✓ More control of operation
- ✓ Asset tracking



DATA SHARING

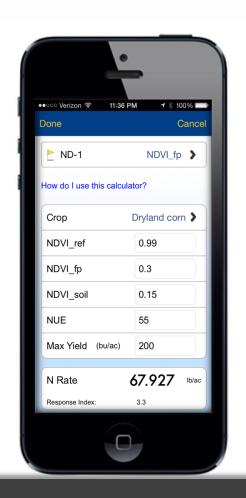
Record Keeping

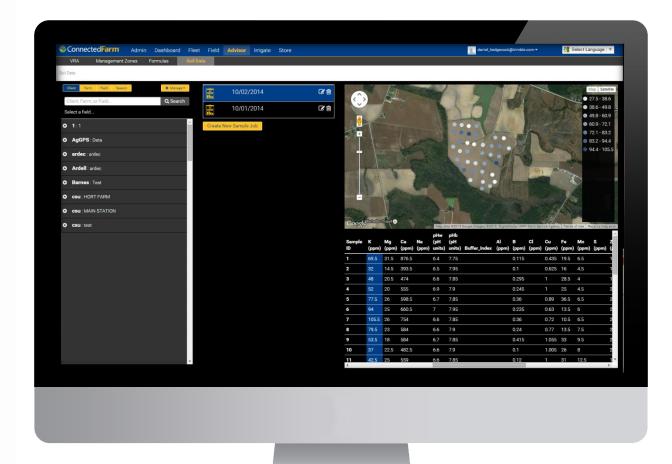




GROWER

Record Keeping



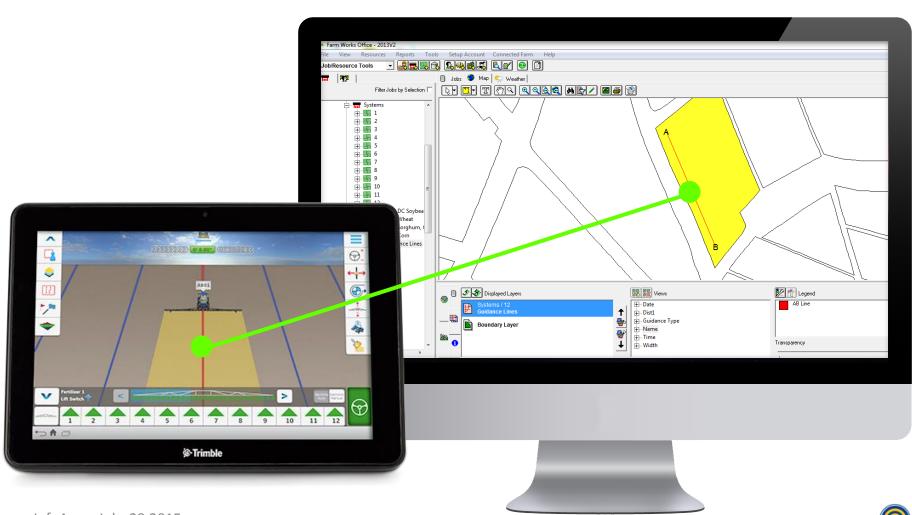




GROWER

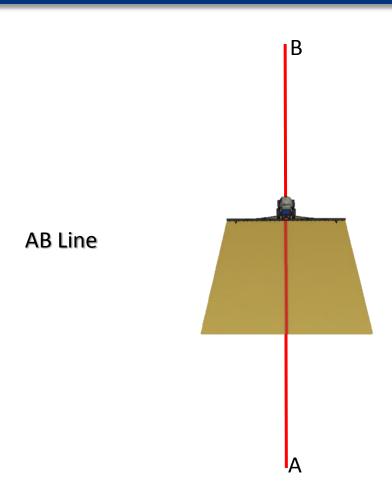
Records



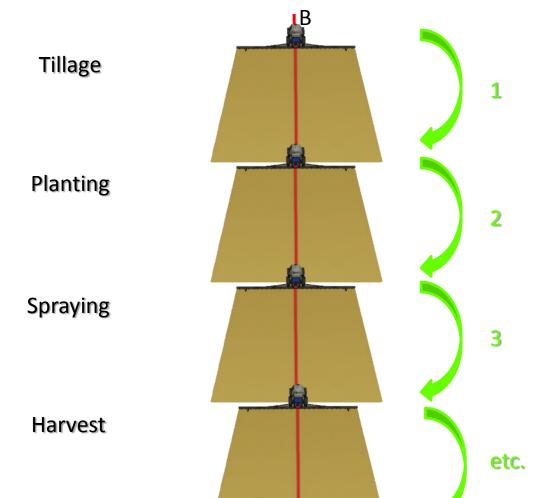






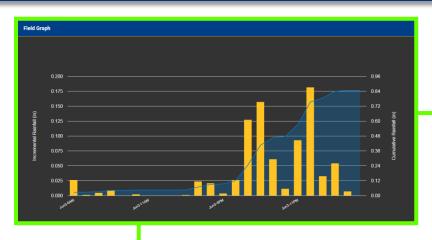


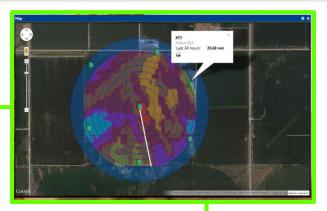


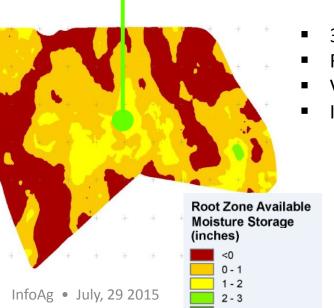




GROWER Control







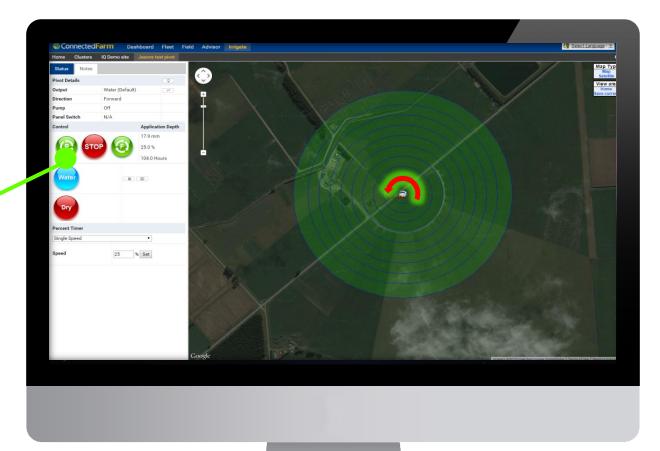
- 3D soil available water info from SIS
- Rainfall data from RainWave
- VRI generated
- Irrigate-IQ for precision irrigation





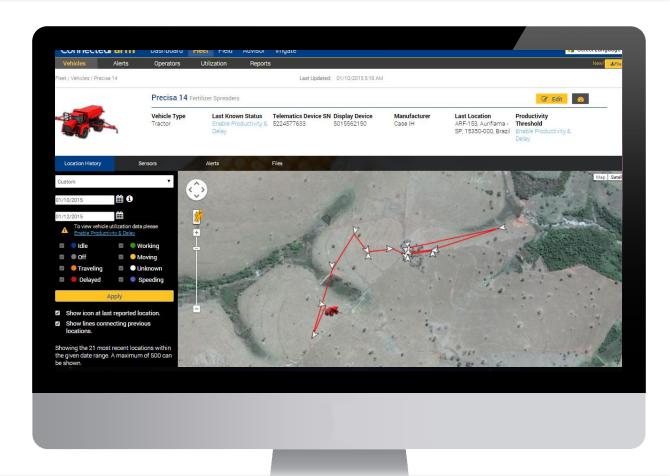
Control





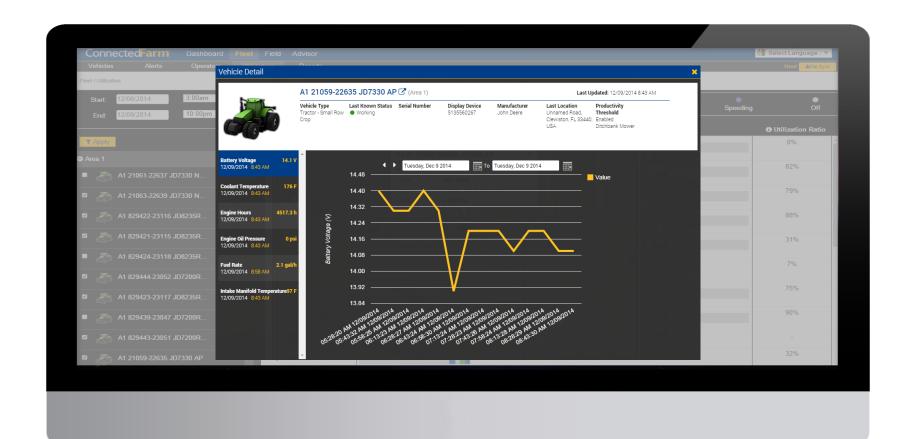
Tracking







Tracking





BUSINESS Overview

Business Value

Monitor efficiency and address issues from a distance.

User Benefits

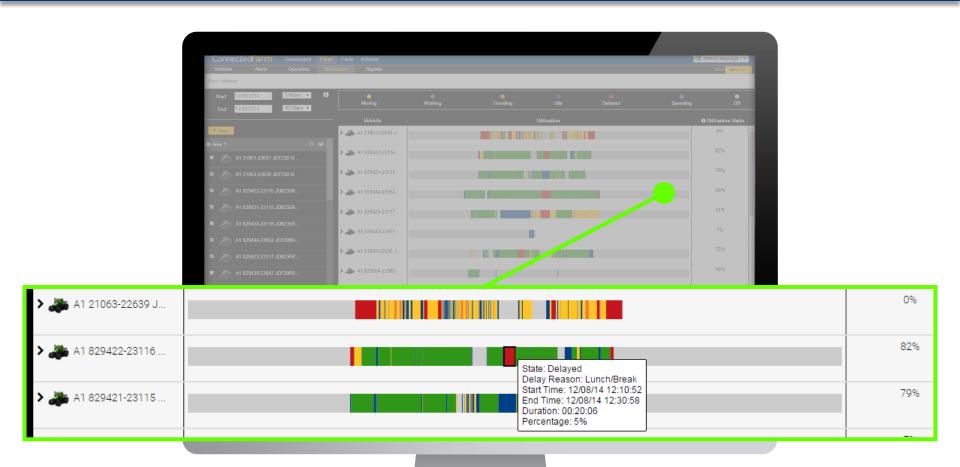
- ✓ Remote access
- ✓ Oversee entire operation
- ✓ Performance metrics
- ✓ Financial analysis



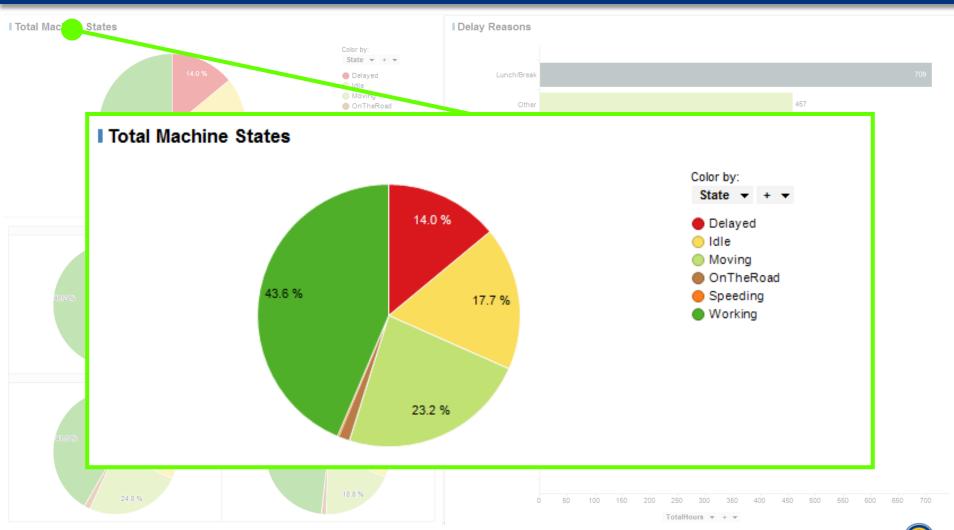
Remote Assistant



Oversee Operation

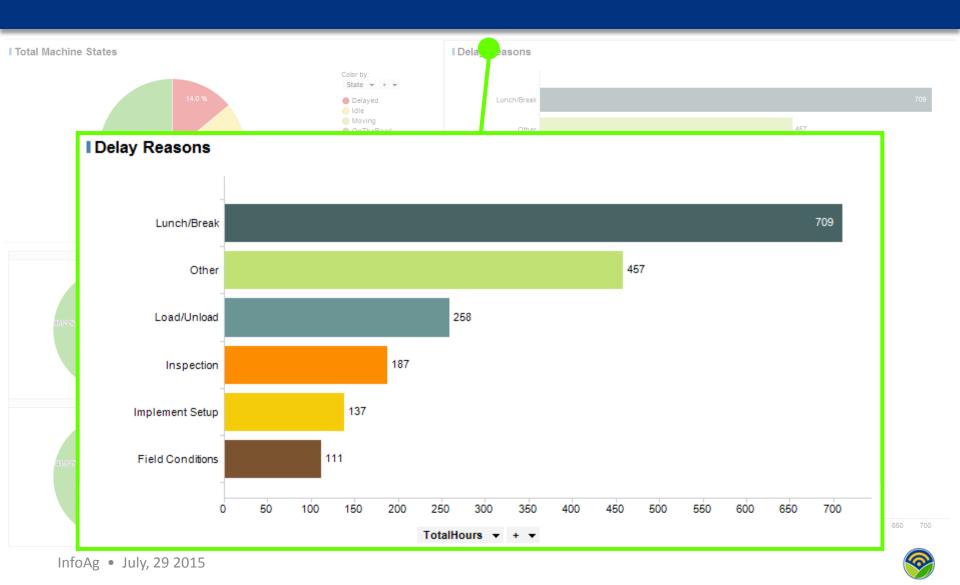


Performance Metrics



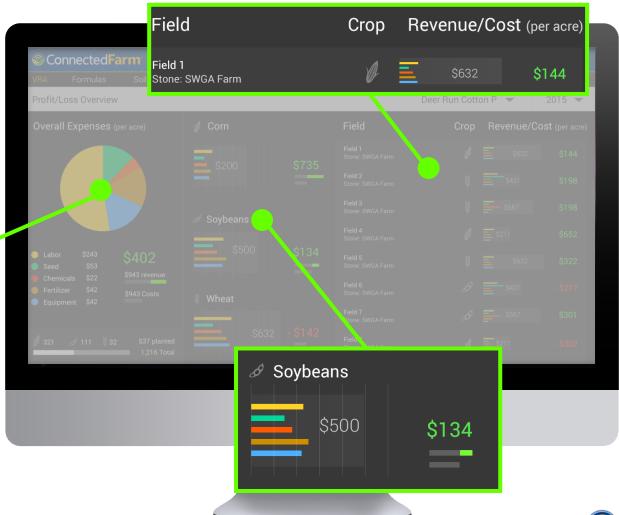


Performance Metrics



Financial Analysis





Overall Benefits

Connected Farm can enable all of the following:

- Time savings
- Accurate record-keeping
- More precise and efficient management
- Opportunities to improve crop results
- Effective collaboration with partners





Thank You!

