MapShots®

What is MapShots?

- MapShots is an agronomic data solutions platform that has been 25 years in the making.
- Built upon the expressed needs of our customer base. (Customer driven)

- Primary customers are Ag Service Providers & large, intensively managed farms.
- Long history with our customers. Many have 15+ years of agronomic data stored in MapShots.

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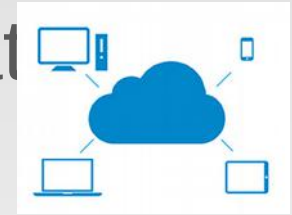
What does MapShots do

- Cloud based agronomic database that has built a reputation for being brand agnostic in terms of dat



- Unique in our ability to import/export data from most all manufacturers.

- Operate on a common file structure, giving data portability across the industry.

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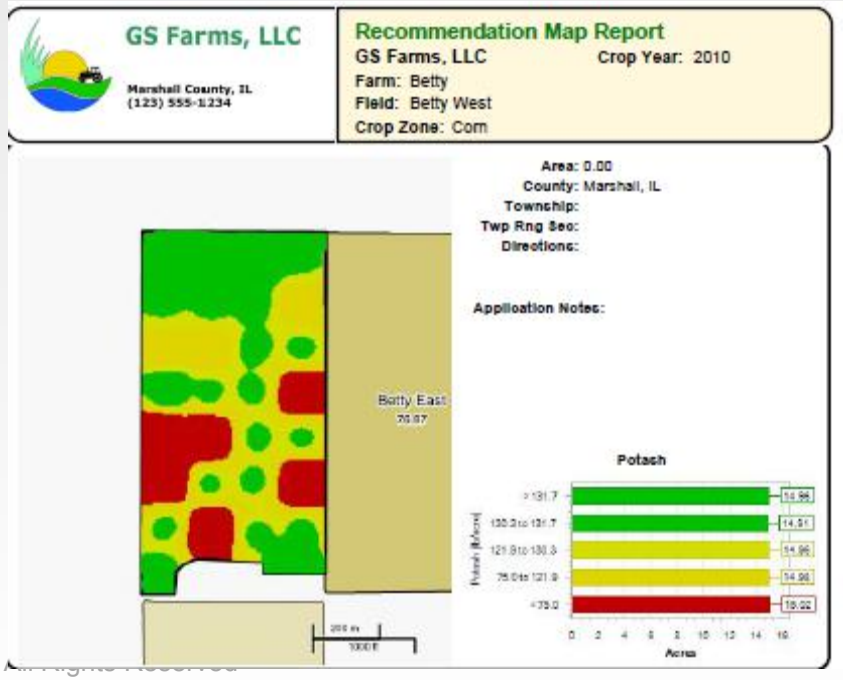
Solutions from AgStudio

- Variable Rate Fertilizer
  - Nutrient Recommendations
  - Product Recommendations
  - Exporting for application
  - Reporting of Application



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Variable Rate Fertility

- Create customized fertility prescriptions using **your** specific criteria, based upon your agronomic philosophy.
  - -Nutrient level “build” programs
  - -Maintenance programs
  - -Manure management
  - -ROI Optimization

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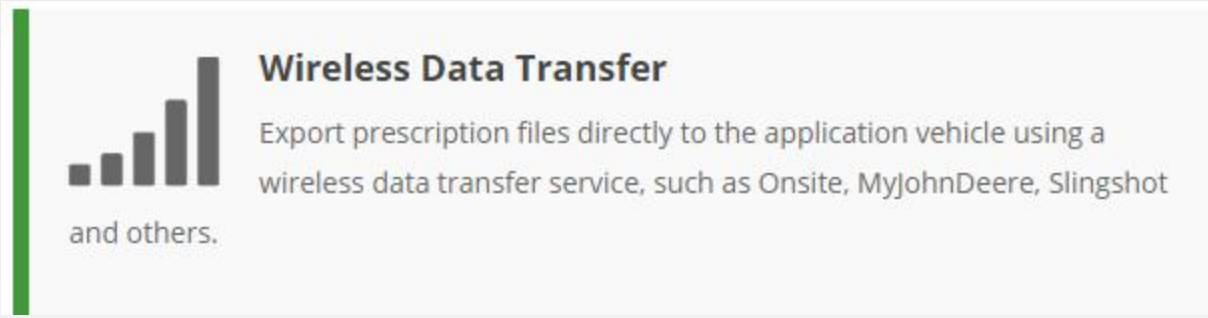
Variable Rate Fertility

- Save time with a seamless workflow – from initial nutrient recommendations to export of prescriptions for immediate implementation in the field; all functions are linked.



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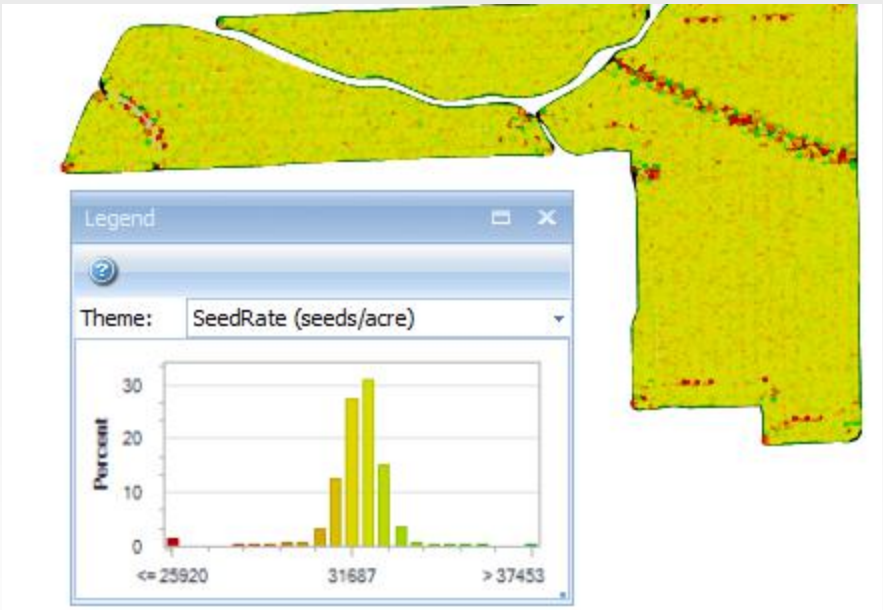
Variable Rate Seeding

- Workflow
  - Place varieties
  - Create recommendation
  - Modify recommendation
  - Export
  - Reports



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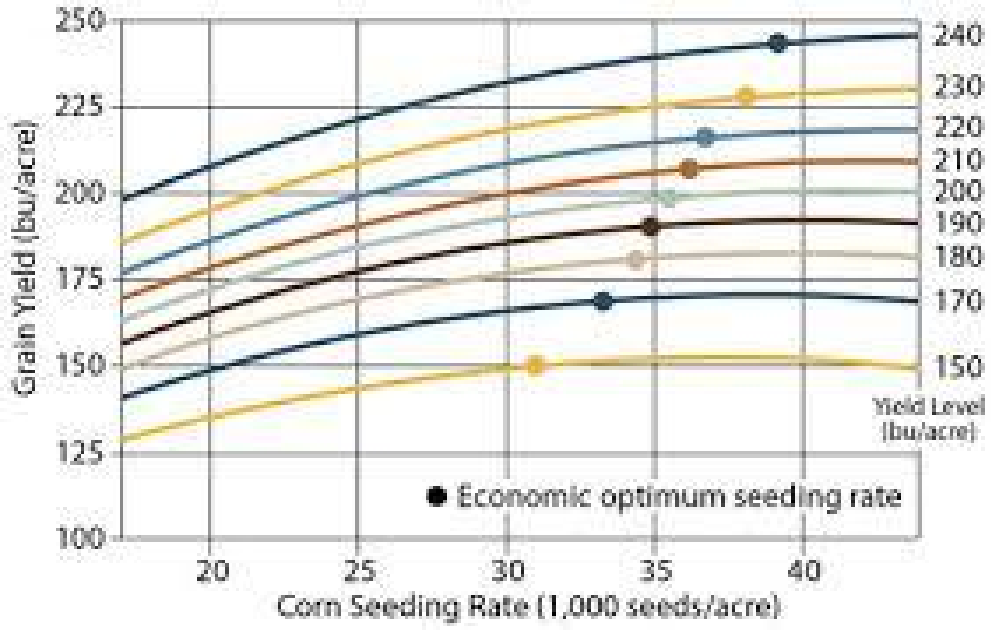
Variable Rate Seeding

- AgStudio supports the creation and ongoing management of each account's Variable Rate Seeding strategy.



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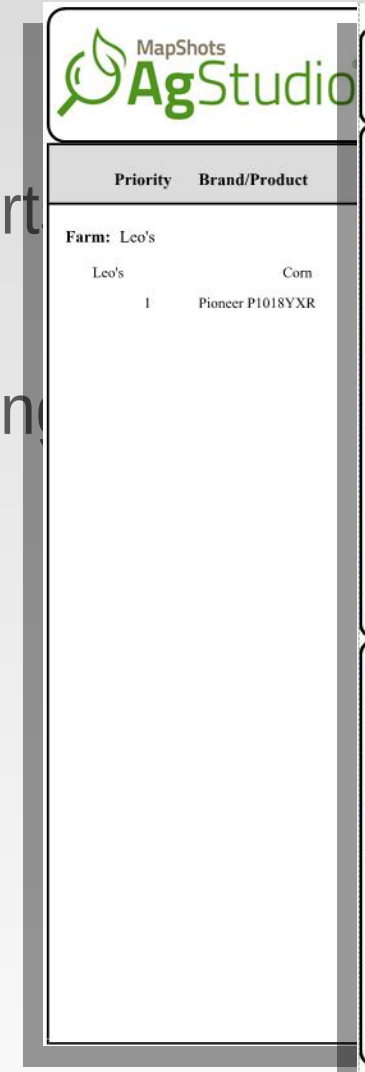
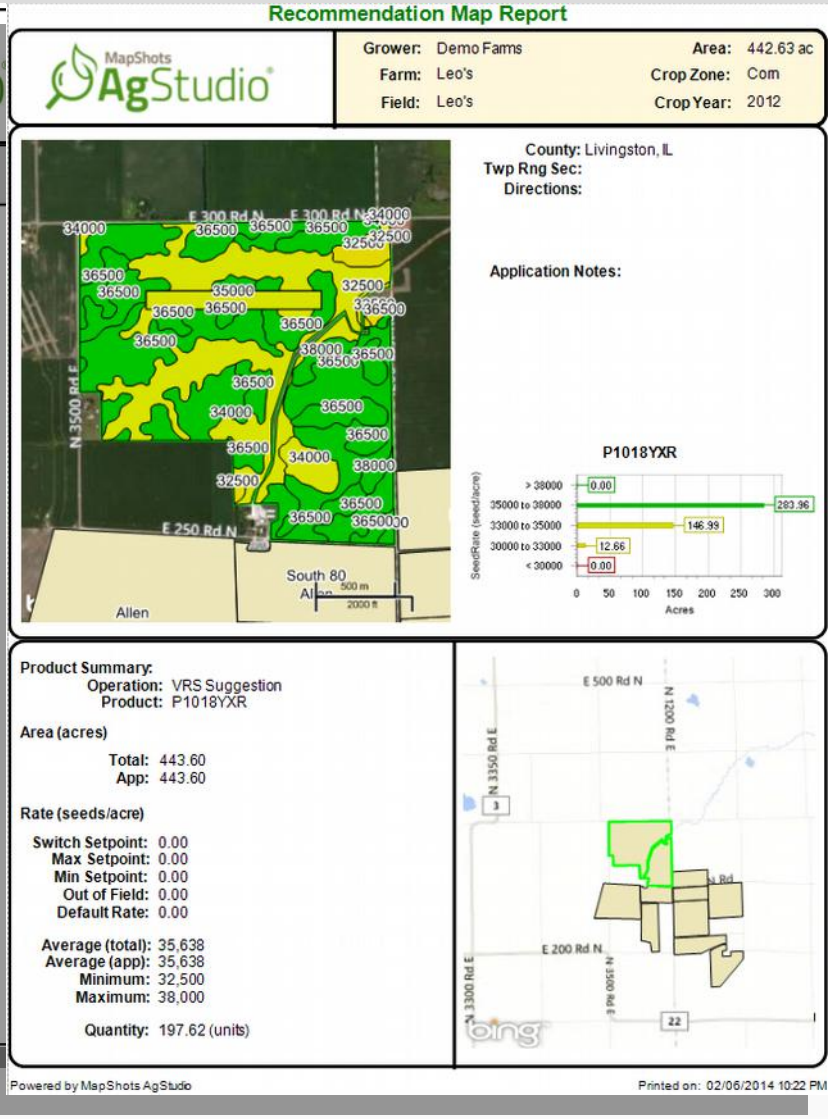
Variable Rate Seeding

- VRS Book
  - VRS Map Report
- Report Books
  - Proposed planting detail and summary





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Soil Test Automation

- Control sampling by creating directed sampling layers with common grid patterns, manually drawn zones or placed sites, polygons from other layers, or replicated historical sampling locations.

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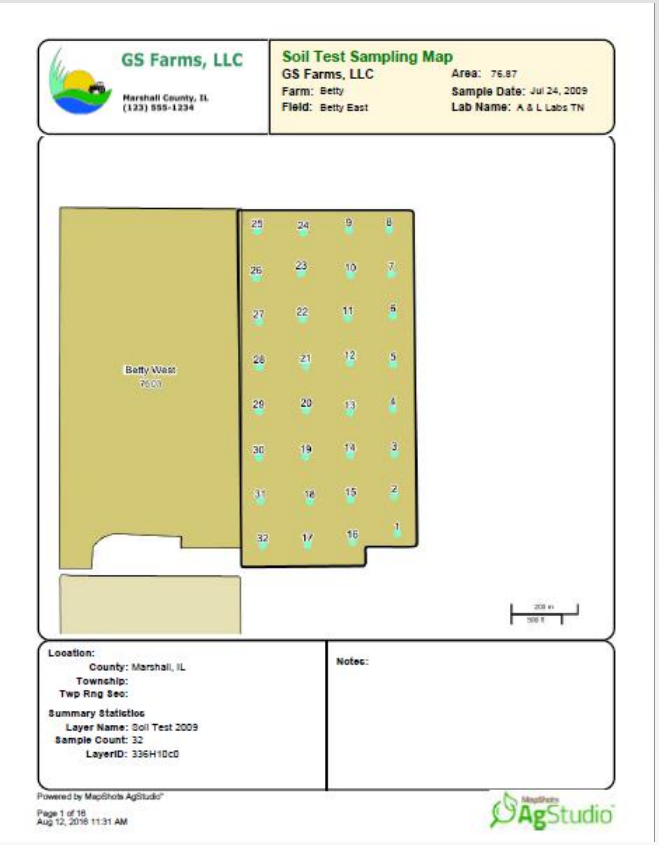
Soil Test Automation

- Soil sample collection based on mapping and planning



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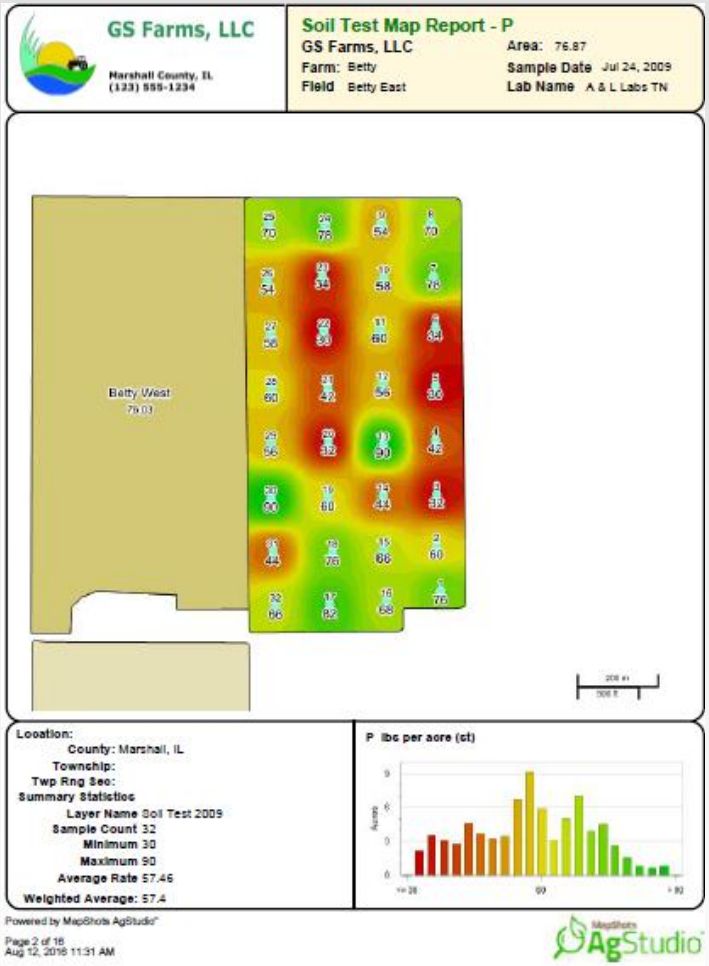
Soil Test Automation

- Soil sample result reports per entity



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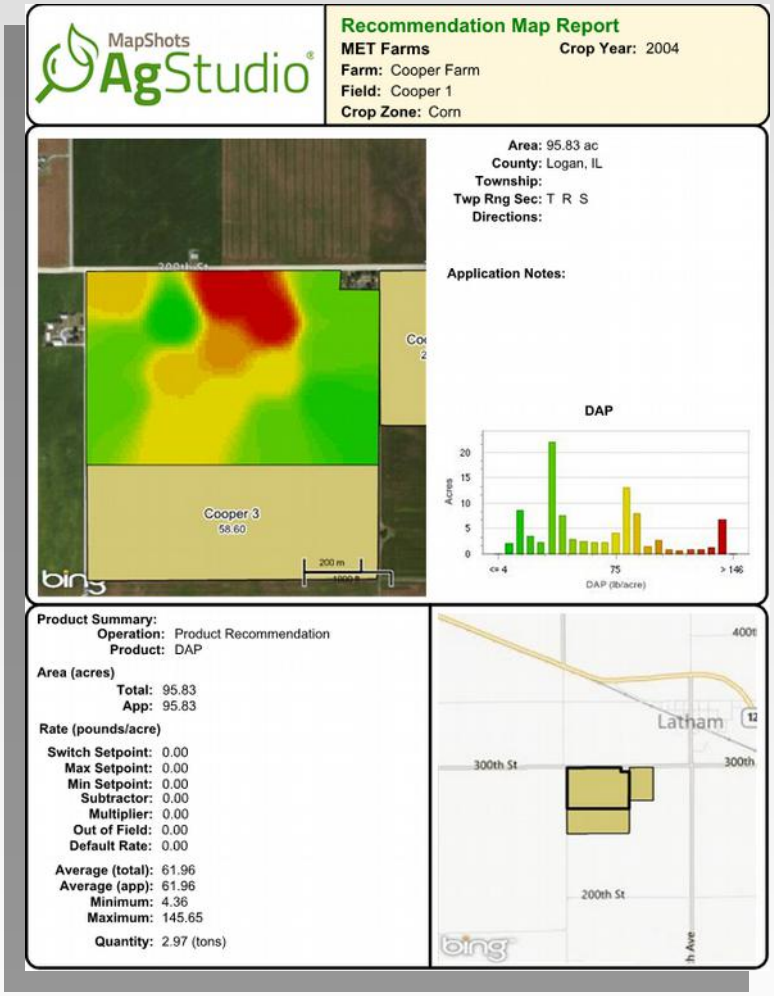
VRF - Reports

- Map Report



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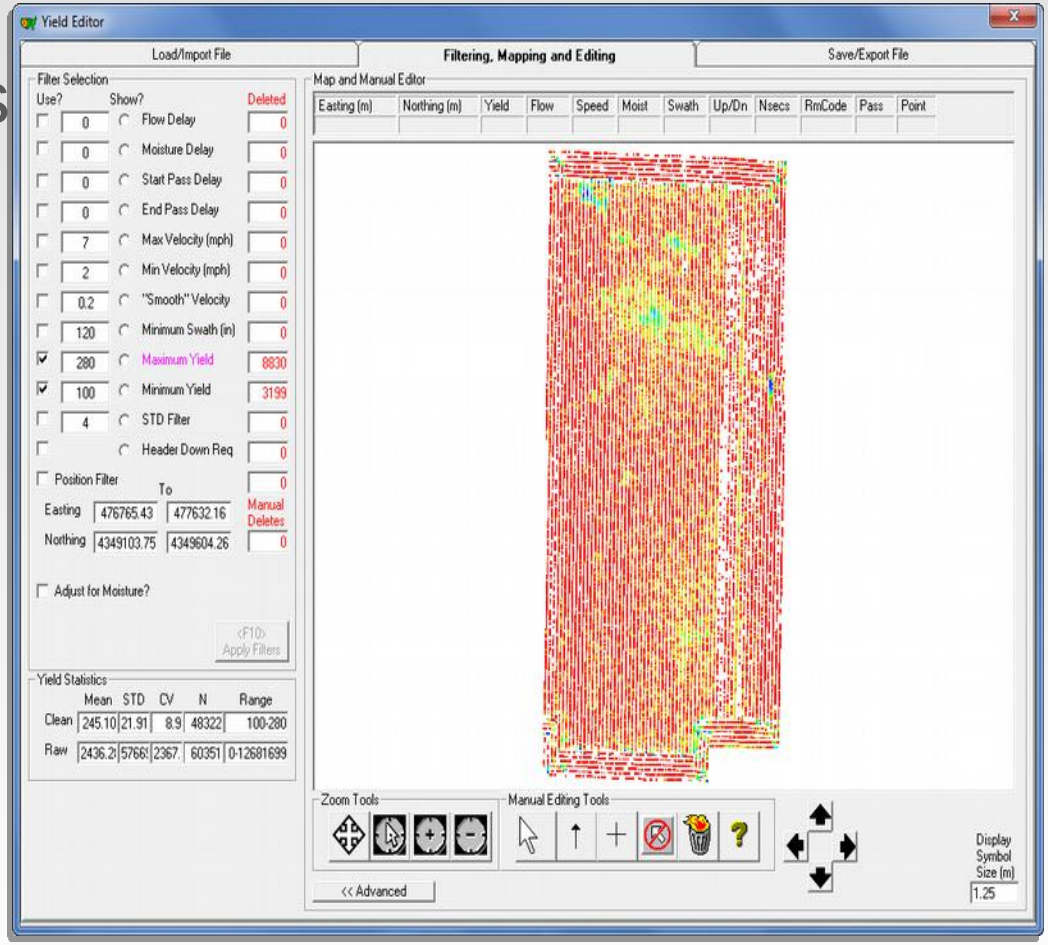
ARS Yield Editor

- Cleans data
- Adjust flow delays
- Adjust start of pass
- Adjust end of pass
- More



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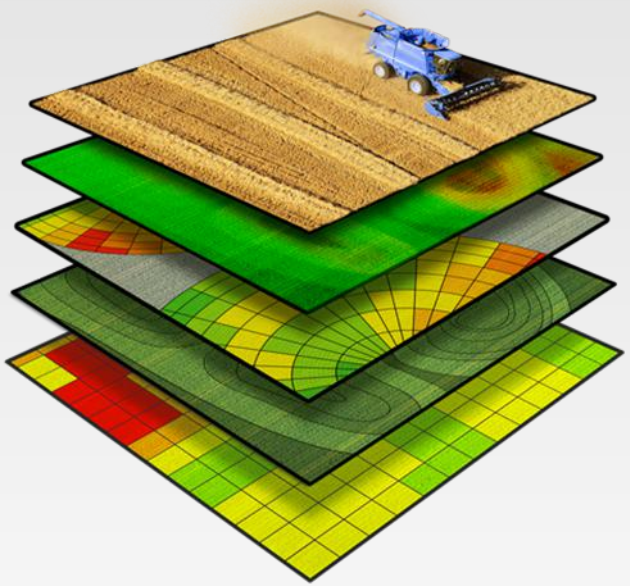
Multi Year Yield Analysis (MYYA)

- -Powerful tool to statistically evaluate the land's production potential, based upon past yield performance.



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Harvest Post Calibration

- By Weight
- Per Load
- Per Machine
- Per Field
- Per Farm
- Per Commodity

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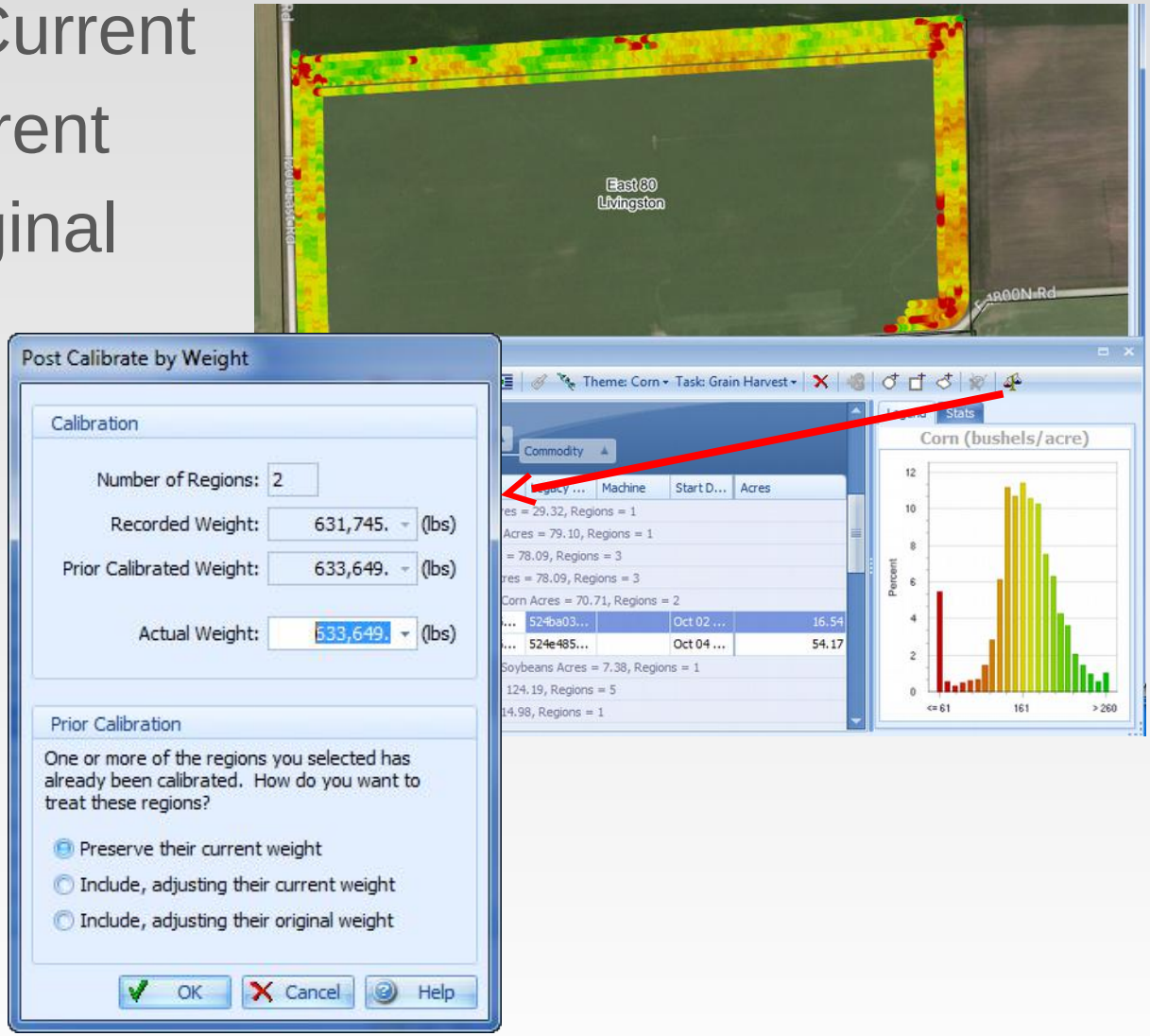
Field Ops Viewer – Post Calibration

- Preserve Current
- Adjust Current
- Adjust Original



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Advanced Treatment Analysis (ATA)

- ATA determines the yield of different treatments such as Fungicide, Insecticide and fertilizers etc.
- The treatment areas can be further subdivided using Soil Type and other Layers data.
- The analysis generates a polygon map where each polygon displays the yield results of each treatment.
- Allow lation of “what i
  invol such as weathe
  etc..

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Ag Studio SELECT

- Remote access portal
  - Read & Print all data through an internet connection
  - Import Data
  - Export Prescriptions
  - Run Reports
  - Portable & easy to use.

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AgDirector

- Data Import through Ag Director Services.
- Automatic card detection
- Upload multiple data sets at once

AgDirector simplifies and automates the process of managing the wide variety of dense GPS field operation data logs commonly

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Machinery Clouds

- What is a Machinery Cloud?
  - AgIntegrated OnSite
  - AgLeader AgFiniti
  - John Deere MyJohnDeere
  - Precision Planting Precision Cloud
  - Raven SlingShot
- How do we integrate?

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Machinery Clouds

- *Owned by the manufacturer*
- *Under their license*
- *Data transferred from machine to cloud via proprietary transfer mechanism*

slingshot

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Machinery Clouds

- Link created between Machinery Cloud and AgDirector Services
- Data pulled at given intervals to MapShots servers for archive and processing
- Data processed into FieldOps format
- Loaded into database
- Linked to specific grower boundary sets

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Data Privacy – MapShots

- MapShots as a software provider
  - Customer owns and manages the data.
  - Ag Studio stores the data, analyzes the data, and lets the owner share the data.

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Data Privacy – Third Party Integration

- *At customer's request*
  - *Data may be pushed from AgStudio to third-party*
  - *Building a framework to describe*
    - *What data must be shared*
    - *Why*

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Why Third-Party Integration?

- *Speed of data imports*
- *Speed of data exports*
- *Access to data from other service*

- ***Bringing everything togethe***

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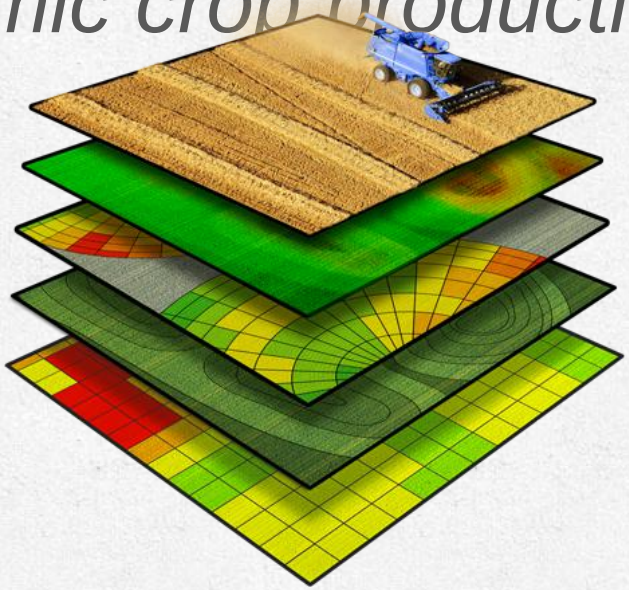
Providing the agricultural industry with powerful and efficient tools for managing large amounts of agronomic crop production data.



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