Decision Driven Data Collection, Enabling the Grower to Make Informed Decisions

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Fuse Key Differentiators

- Data Privacy
- Mobile
- Mixed Fleets
- Open Approach
Fuse: Precision Agriculture Tools and Services that Optimize the Farm
INSIGHTS FOR FIELD & FARM

Harness the power of your data
Objectives

▪ Our FOS partners are Aglytix and Farmobile
▪ How can we convert what we know and learned into an actionable item
▪ Using tools to quantify stand using aerial imagery.
▪ How AGCO is providing solutions to the end user with a mixed fleet
AGCO 2017 Crop Tour Sites
9 plots (1800 acres) done in 5 states throughout North America in 2017
Crop Tour 2017 Example

- Plots included:
  - Down pressure changes
  - Depth Changes
  - Skips/Multiples Changes
  - Closing Wheel Pressure Changes

![Diagram showing plots and their corresponding settings for various parameters such as down pressure, depth, and speed. The diagram includes different colors and symbols to represent the correct and incorrect settings for each parameter. The legend explains the symbols and colors used. The bottom of the diagram notes that this portion of the field is tilled with a 6630 High Speed Rotary Finisher if the grower uses conventional or conservation tillage. If strip till or no-till, this portion of the plot is not necessary.]
Planting conditions and prep tillage.

Field had early burn down but control was minimal. 3” weeds were present at planting primarily mares tail. West 1/3 of the plot had the Sunflower 6830 ran across it. The balance of the plot was no-tilled.
2.5cm Drone Imagery July 14th V17 – 1” planting depth

1” Planting Depth
NDVI

Image taken July 5th

1” Planting Depth
# Machine Data Collection

<table>
<thead>
<tr>
<th>Time Stamp</th>
<th>Position</th>
<th>Elevation</th>
<th>Engine Hours</th>
<th>Fuel Rate</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direction</td>
<td>Distance</td>
<td>Engine Torque</td>
<td>Engine Load</td>
<td>Oil Temp</td>
<td>PTO Speed</td>
</tr>
<tr>
<td>Fan Speed</td>
<td>Fan Percent</td>
<td>Intake Temp</td>
<td>Hydraulics</td>
<td>Battery</td>
<td>Hitch Height</td>
</tr>
</tbody>
</table>
# Agronomic Data Collection

<table>
<thead>
<tr>
<th>Planting</th>
<th>Spraying</th>
<th>Harvesting</th>
<th>Fertilizing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Pop</td>
<td>Target Rate</td>
<td>Mass Flow</td>
<td>Target Rate</td>
</tr>
<tr>
<td>Population</td>
<td>Applied Rate</td>
<td>Moisture</td>
<td>Applied Rate</td>
</tr>
<tr>
<td>Singulation</td>
<td>Tank Level</td>
<td>Yield</td>
<td>Spinner Speed</td>
</tr>
<tr>
<td>Spacing</td>
<td>Pressure</td>
<td>Header Width</td>
<td></td>
</tr>
<tr>
<td>Downforce</td>
<td>Section Status</td>
<td>Used Width</td>
<td></td>
</tr>
<tr>
<td>Virtual Terminal</td>
<td></td>
<td>Virtual Terminal</td>
<td></td>
</tr>
</tbody>
</table>
Mixed Fleet File Transfer

Initial Support
- GS3 2630
- Viper Pro
- Envizio Pro
- AFS Pro 700
- FmX 750
- X30

Future Support
- Insight
- Compass
- Versa
- Integra
- InCommand 800
- InCommand 1200

- Provide wireless data transfer to these devices
  - Office to the cloud
  - Cloud to the machine
  - Machine to Machine
  - Requires Puc V4 to be installed on machines
Consistent collection of all field events

- All data in the same place in the same visual language
- Fertilizing, soil conditioning, planting, spraying, harvesting
Fleet Management

- Works across brands
- Most late-model equipment
- Portable across machines
Machine Performance

▪ See all machines at a glance
▪ View a machine’s detailed performance
▪ Use machine data to identify issues in the field
Thank You