Veris Soil Sensors:
industry and apps

Veris soil sensors are produced at its factory in Salina KS; systems have been sold in 40 states and >30 foreign countries.

Sensors for commercial use

Soil EC Soil OM Soil pH

Real-time pH Sensing: the importance of dense data

Soil EC and pH
Adoption Status
Veris systems in 40 states, and 30 countries

Applications
Precision Agriculture: applying the correct product(s)…in the correct amount…in the correct place…at the correct time.
Seed Populations

Managing differences in productive capacity

Alternatives & Competition
Single rate Grid samples NRCS soil map

Alternatives & Competition
Yield maps

Sensors for research use
Vis-NIR and other sensors

Veris Vis-NIRS systems are proven on large-scale C measurement projects.
2008: 500 ha/9 fields
2009-2010: 5 states...3 farming practices in each...replicated plots...570 lab samples...over 800 0-60 cm Vis-NIR-EC-Force probe insertions

<table>
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<tr>
<th>Site</th>
<th>R²</th>
<th>RPD</th>
<th>RMSE</th>
<th>Std Dev.</th>
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Sensors reduce confidence intervals

Alternative Vis-NIR configurations—Arctic Circle model

Alternative Vis-NIR configurations—Core Scanning
Thank You!