CoreScan™

MEASURE DEEPER.
MANAGE BETTER.

Path to the CoreScan™

Sensing Soil Since 1996

At Veris, we've been pioneering soil sensing tchnology since the public availability of GPS revolutionized farming. As farmers ourselves, we understand the challenges of trying to make the right decisions and seeing the results in the combine. We're committed to develop cutting-edge tools that help farmers and their advisors better understand and manage soil variability.

Why Soil Sensing?

Accurate and affordable soil analysis is is the backbone of precision agriculture. It allows for informed decision-making that enhances crop productivity and sustainability. We believe soil labs have a crucial role to play, but Accurate soil data helps farmers and agronomists understand soil health, optimize input use, and improve yields while minimizing environmental impact.

Why the CoreScan™

Soil analysis has typically only scratched the surface or was too laborious to achieve the granularity needed for precision agriculture. Until now. Meet the CoreScan™. We believe this is the most significant development in soil sensing since the original EC mapping tools came out in the 1990s. The CoreScan™ dives deep into the profile, delivering high-resolution data on compaction, nutrient and water storage, organic matter, and other key factors.

PROBLEM

TRADITIONAL METHODS OF SOIL ANALYSIS

Traditional soil sampling methods have served us well for decades, but they come with significant limitations:

- Misses Subsoil Yield Constraints: limited depth analysis overlooks critical information about deeper soil layers.
- Inadequate Data Resolution: Limited data points, often only scratching the surface.
- Time-Consuming and Labor-Intensive: Cost prohibitive due to challenging manual effort and expensive lab analysis limited the number of sample locations
- Error-Prone Interpolation: Inaccuracies from widely spaced sampling points.

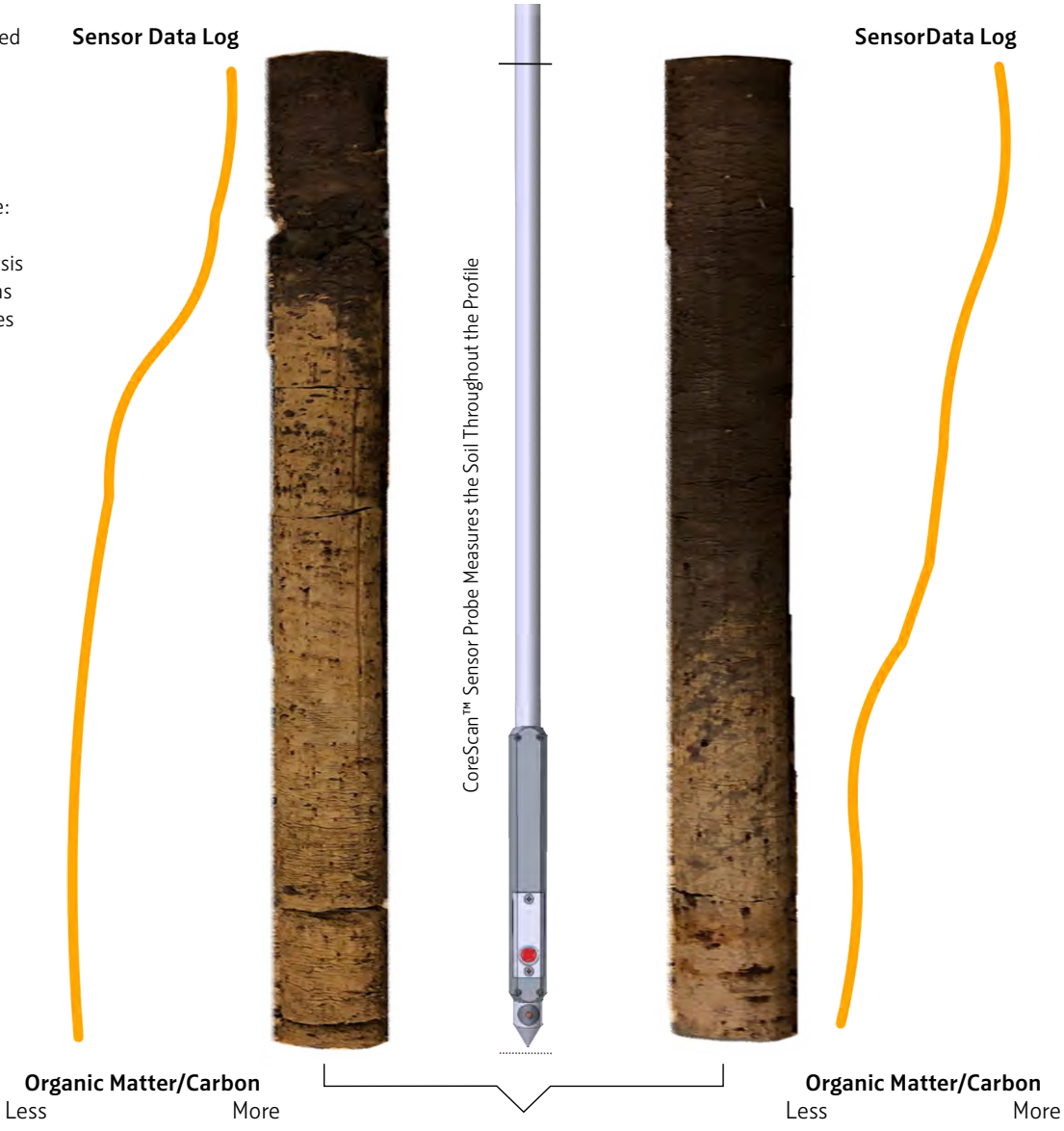
Two sampling locations from the same field

SOLUTION

AUTOMATED SOIL PRO FILE MEASURED WITH CORESCAN™

Traditional soil sampling methods have served us well for decades, but they come with significant limitations:

- Misses Subsoil Yield Constraints: limited depth analysis overlooks critical information about deeper soil layers.
- Inadequate Data Resolution: Limited data points, often only scratching the surface.
- Time-Consuming and Labor-Intensive: Cost prohibitive due to challenging manual effort and expensive lab analysis limited the number of sample locations
- Error-Prone Interpolation: Inaccuracies from widely spaced sampling points.



Two sampling locations from the same field

CoreScan™

Measure Deeper. Manage Better.

Veris technologies

Introducing CoreScan™ -- a revolutionary automated soil sensor and sampling probe.

CoreScan™ delivers high-definition maps of soil compaction, nutrient and water storage, organic matter/carbon and more. By revealing yield constraints previously hidden beneath the surface, this new tool revolutionizes soil management practices.

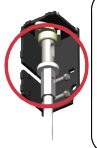
Farmers and their advisors can now digitize the rooting zone, giving them the detailed information they need to optimize their crop management practices, ultimately enhancing yield and sustainability.

Key Features

- High-Resolution Data: 240 readings per probe insertion provide a detailed picture of soil health.
- Efficient Mapping: Cover up to 50 acres per hour, saving time and labor.
- Comprehensive Analysis: Full rooting zone data ensures a complete understanding of soil conditions.
- Real-Time Data Collection: Immediate access to soil data for faster decision-making.

Benefits

- Increased Productivity: Optimize crop management practices and boost yields.
- Cost Savings: Reduce labor and analysis costs with automated, efficient soil sensing.
- Soil Health and Sustainability: Make informed decisions that enhance soil health and promote sustainable farming practices.



Soil Compaction
Two separate force sensors dial in precise penetration restance

Moisture
Volumetric water percentage accurately measured by capacitance sensor

Soil Texture
Variations in sand, silt and clay meas-sured by electrical conductivity

Carbon/Organic Matter
Dual-wavelength Vis-NIR captures soi reflectance readings throughout the soil profile

Deep Coring
Takes reference samples to 1m for lab validation and calibration

High Definition
Each sensor takes a reading every 1cm to the full meter depth (manual mode) and 60cm (automatic mode)

Automated
Allows rapid deployment of 50 ac/hr 20 ha/hr at 1 ac-.4ha density

Nutrient Dynamics
Fusing sensor data with lab results, pro-vides improved accuracy of nutrient estimations.

CoreScan™ Available Now

www.veristech.com/corescan

CONFIGURATIONS AND AVAILABLE OPTIONS

Below, you'll find detailed pricing information for our CoreScan™ system and FieldFusion™ software, designed to deliver exceptional value and return on investment. Invest in the future with precise, real-time soil data that drives better decision-making.

UTV / Truck Mounted

The UTV mounted option for CoreScan™ provides mobility and flexibility, suitable for various terrains and field conditions. This setup allows you to efficiently map your fields, even in challenging environments, ensuring comprehensive soil analysis. Includes hydraulic power pack and folding bed mount.

Rear / Front Tractor 3-point Mounted

The tractor mounted option integrates with your existing hydraulics, offering a stable and efficient solution for large-scale soil mapping. This setup allows for precise and consistent data collection across rugged conditions.

Standard Features

- CoreScan™ CPU with integrated GPS
- Microsoft Surface Tablet
- RAM Mount and Ruggedized Case
- Core Sampling Tube
- Core Segmenting Tray

Data Logging and Map Making

The CoreScan™ In-Cab Software, included with the purchase of the CoreScan™ system, is a user-friendly Window tablet application designed to provide real-time soil data collection and analysis directly from your cab.

FieldFusion™ is a cloud-based software platform that allows the Veris Data Processing Team to help provide quality control services and useful maps with the data you collect. With a data processing cost of only $0.25 per acre, FieldFusion™ provides comprehensive insights and detailed soil maps, enabling precise nutrient management and enhanced crop productivity.

CoreScan™ In-Cab Software

FieldFusion™ Cloud Portal

CoreScan™ Available Now

ww.veristech.com/corescan