agrilyze™
data-driven industry analytics

Farm **Climate** **Soil**

The Agrilyze Spatially-Enabled Platform Delivers Online Tools and Applications for Measurement, Reporting and Verification

✕ CHALLENGE

Agriculture-based operations need access to more soil monitoring equipment, data systems and training with the primary goal of cutting down GHG emissions while becoming more profitable and keeping food costs down.

✓ SOLUTION

The Agrilyze platform focuses on a Data Commons framework that fosters innovative data reuse, integration, and visualization to characterize fields, farms, machinery, soil, water, terrain, and weather. This builds on today's Measure, Report, Verify model driving agriculture technology. MRV focuses on capturing information to allow for further analysis, creating reports required for better decision making (financial, environmental, animal health) and putting the tools in place to improve the quality of the data and decisions through more precise, secure, accessible, and historical data.

Agrilyze provides accurate performance insights that demonstrate clear ROI to users in a concise and easily accessible manner -

The Farm

a. Mapping the farm, field, and crops
b. Leveraging other data sources, including imagery
c. Tracking application of nutrients and chemicals
d. Tracking the results of tests, issues and manure tests
e. Tracking of yields, crops, and feed tests for protein
f. Analyzing recommendations of manure usage, crop type, and potential yields

The Environment & Climate

a. Guiding the application of nutrients to the land to benefit crop production and the environment
b. Tracking manure usage through the digestor cycle and application after processing
c. Monitoring weather and understanding water requirements and evapotranspiration
d. Tracking and reductions of GHG based on change applied

The Soil

a. Testing soil and recording samples of BD, EC, total carbon, inorganic carbon, total organic carbon, total nitrogen, pH, and moisture
b. Tracking the history of samples and nutrient inventory
c. Reviewing and measuring soil types, actual carbon, carbon potential, biomass and nutrients
d. Maximizing nutrients and enhancing soil

Is Regenerative Agriculture the Answer?

Did you know that by taking better care of our agricultural lands, we could sequester 48 million tons of GHGs every year by 2030? That accounts for about 6% of all current emissions! One major contributor is 'doing more with less' on the farm. Regenerative agriculture, which includes practices like planting cover crops to manage the quality of the soil, leverages nature to address climate change. The overall aim is to increase carbon sequestration in soils, benefiting farms by making them less susceptible to drought.

Measure - through forms & devices
Report - reports in the system
Verify & Leverage - auditable records

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