Innovative solutions in nutrient testing

Putting nutrient intelligence into the hands of the world’s farming community
60 percent increase in food production is needed to feed the growing world population of 10 billion people by 2050.

Yield decrease impact > 10-30% is expected due to climate change after 2030 (not including global crisis such as war).

37% of world’s land mass is already used for cattle breeding and agriculture. There is no possibility to expand.

Less than 5 percent of the world’s estimated 570 million farms have access to their soil information, Labs or other sources.
Challenges to address

Soil monitoring and information
Planning soil fertility intervention based on actual measured real-time data

Infrastructure of sample analysis
Removing obstacles of long waiting periods for samples analysis and challenges of shipment

Integrated local fertilizer recommendations
more efficient use of fertilizer products, locally adjusted recommendations (application method & timing)

Capacity development and awareness
Building local capacities on sustainable and more efficient soil nutrient management and rising awareness on the importance of soil fertility, nutrient availability and cycling
AgroCares Technology

Lab-in-a-Box (MIR + XRF, mobile/stationary)

Handheld Scanner (NIR)
Principals of AgroCares

1. Scan fresh soil sample
2. Upload spectral images to convert into values
3. Get your analysis results

Get analysis results & recommendations

Manage your data & info
AgroCares enables fact-based farming with smart data-driven farming solutions

Sensor technology
Lab-in-a-Box & Scanner

Software
User-friendly and digital management tool (The Portal)

Customization
Tailored recommendations

Adaptation
Trainings and capacity building

Various disciplines
With the same Soil, Feed, Leaf
AgroCares Portal

Portal.soilcares.com

- Dashboard
- Orders
  - As company portal
  - As adviser
  - As farmer

Extracted as Excel file

PDF report
Sensor adoption and usage worldwide

Established and actively operational in 35 countries

South East Asia
• Myanmar – Input provider, soil fertilizer awareness
• fertility projects, farmer awareness,
• Philippines – Banana/Cocoa smallholder cultivation support
• Vietnam – coffee production
• Thailand – potatoe & oil palm cultivation

Africa
• Input provider and NGOs soil health awareness, adoption of sustainable management practices

Central & South America
• Carbon sequestration, coffee producers

Europe & North America
• Input provider, advisor, research, carbon

Only about 5% of the farmers have access to soil information:
Too expensive  Too slow
Too complex  Inaccessible
Thank you for your attention!

Contact: Tanja.Luebbers@agrocares.com