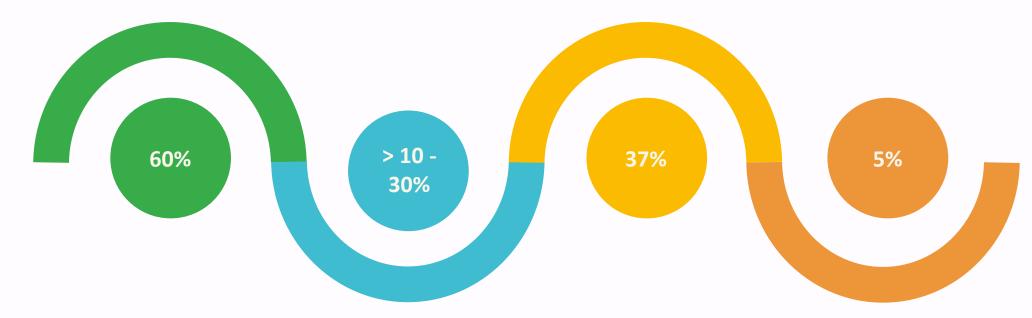


Innovative solutions in nutrient testing

Putting nutrient intelligence into the hands of the world's farming community



Farming Outlook to 2050



- 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



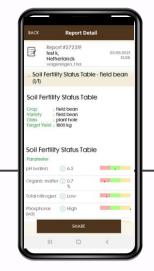
Soil monitoring and information

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



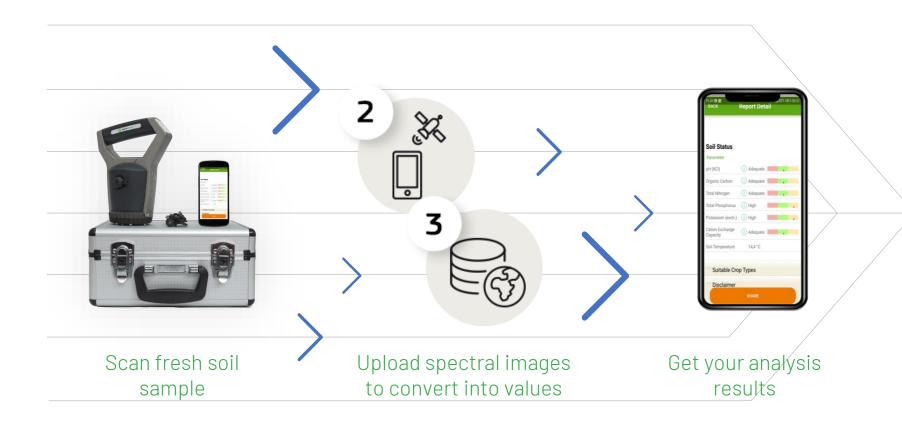


AgroCares Technology



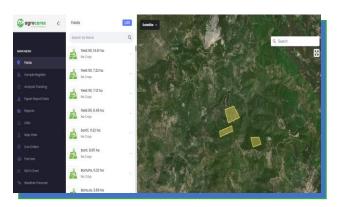


Principals of AgroCares





Get analysis results & recommendations



Manage your data & info



AgroCares enables fact-based farming with smart datadriven farming solutions











Sensor technology

Lab-in-a-Box & Scanner

Software

User-friendly and digital management tool (The Portal)

Customization

Tailored recommendations

Adaptation

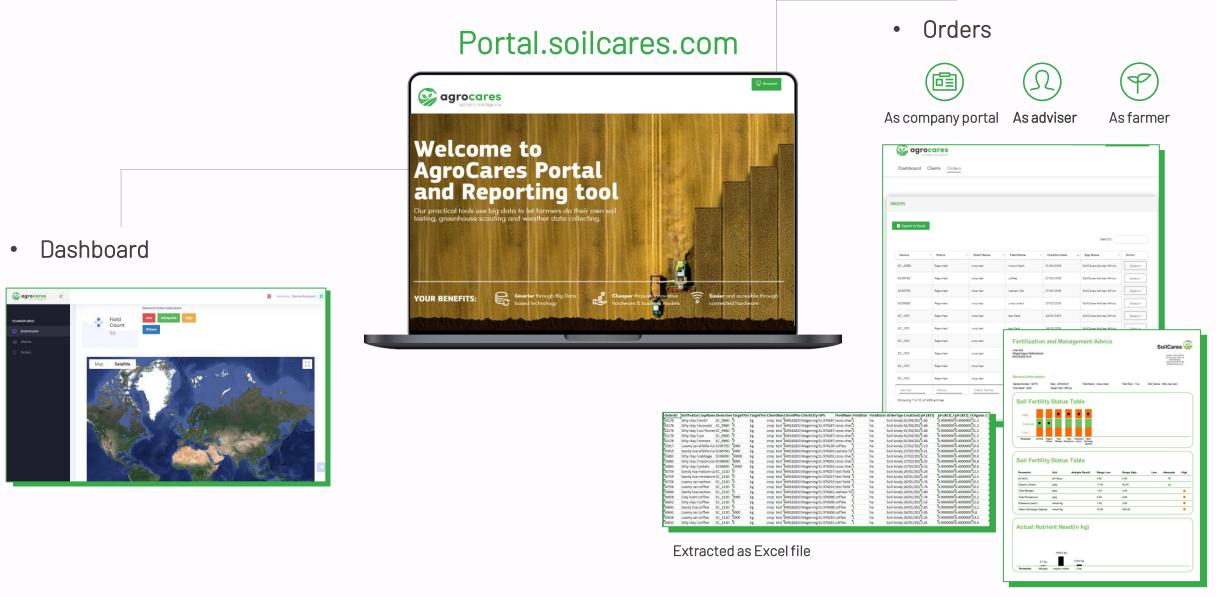
Trainings and capacity building

Various disciplines

With the same Soil, Feed, Leaf



AgroCares Portal



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 complex

Too slow Inaccessible



Thank you for your attention!



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