0115 - Measure Soil Organic Carbon and Carbon Stock anywhere and anytime

Exhibitor	Team	Location

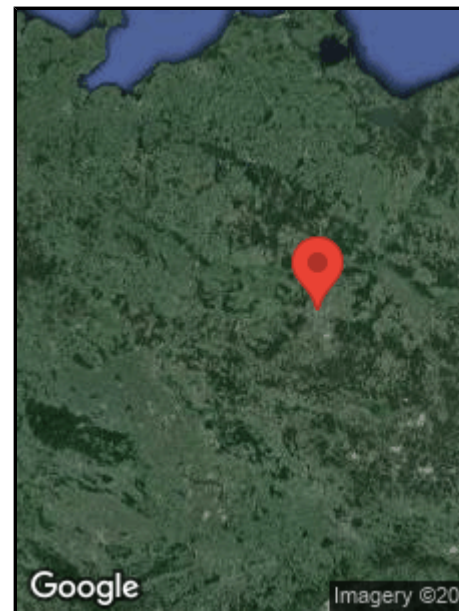### Exhibitor

SmartCloudFarming GmbH

https://smartcloudfarming.com/

Team

Michele Bandecchi

Location

Berlin | Germany

Summary

Our patent pending Soil Organic Carbon remote sensing algorithm establish the amount of SOC present in farming fields, grassland and forests, monitoring 0-30cm soil depths at a 30 m resolution. No field survey, expensive lab tests or lenghtly waits required - prove and improve your carbon sequestration and regenerative agriculture practices.

Presentation

Images

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Videos

More

MERELY MEASURING SOMETHING HAS AN UNCANNY TENDENCY TO IMPROVE IT. P. Grahman

The loss in agriculture due to poor soil health amounts to over $300 billion (source: UNCCD, 2019).

This is due to poor soil management owing to a lack of useful and usable soil data that can be used together with precision farming tools.

Around 3.2 billion people worldwide suffer from damaged soils.

Only 3% of the earth's surface is suitable for arable industry, and 75 billion tons of fertile soil are lost each year due to land degradation.

Globalization and global environmental issues necessitate the collection and interpretation of global, scalable and accurate soil information. SmartCloudFarming is doing it!

We develop a regenerative agriculture indicator based on soil organic carbon and carbon stock remote assessment.

The indicator uses satellite images as input and advanced AI, therefore it is available anywhere and anytime.

Main characteristics: 1). Assessment of SOC at 0-30cm soil deep; 2). Currently one measurement every 30 meters, in development every 10 meters; 3). Model build and validated with ground truth data based on the ISO 10694:1995 protocol (Automated Dry Combustion). 4). Fast: 2ha process per sec (7200ha/hour).

We deliver this value both with a Plug'n'Play setting (regular maps and data tables, data backbone with API) as well as with customised applications (learning system and alert system).

Meet the team

During the indicated periods, one of the team members is available for a video chat.

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0115							https://meet.jit.si/4p1000_stand_0115
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