



SPATIALISE

Enabling the regeneration of soils
through geospatial intelligence

WHY?



80% of our food is produced on arable lands

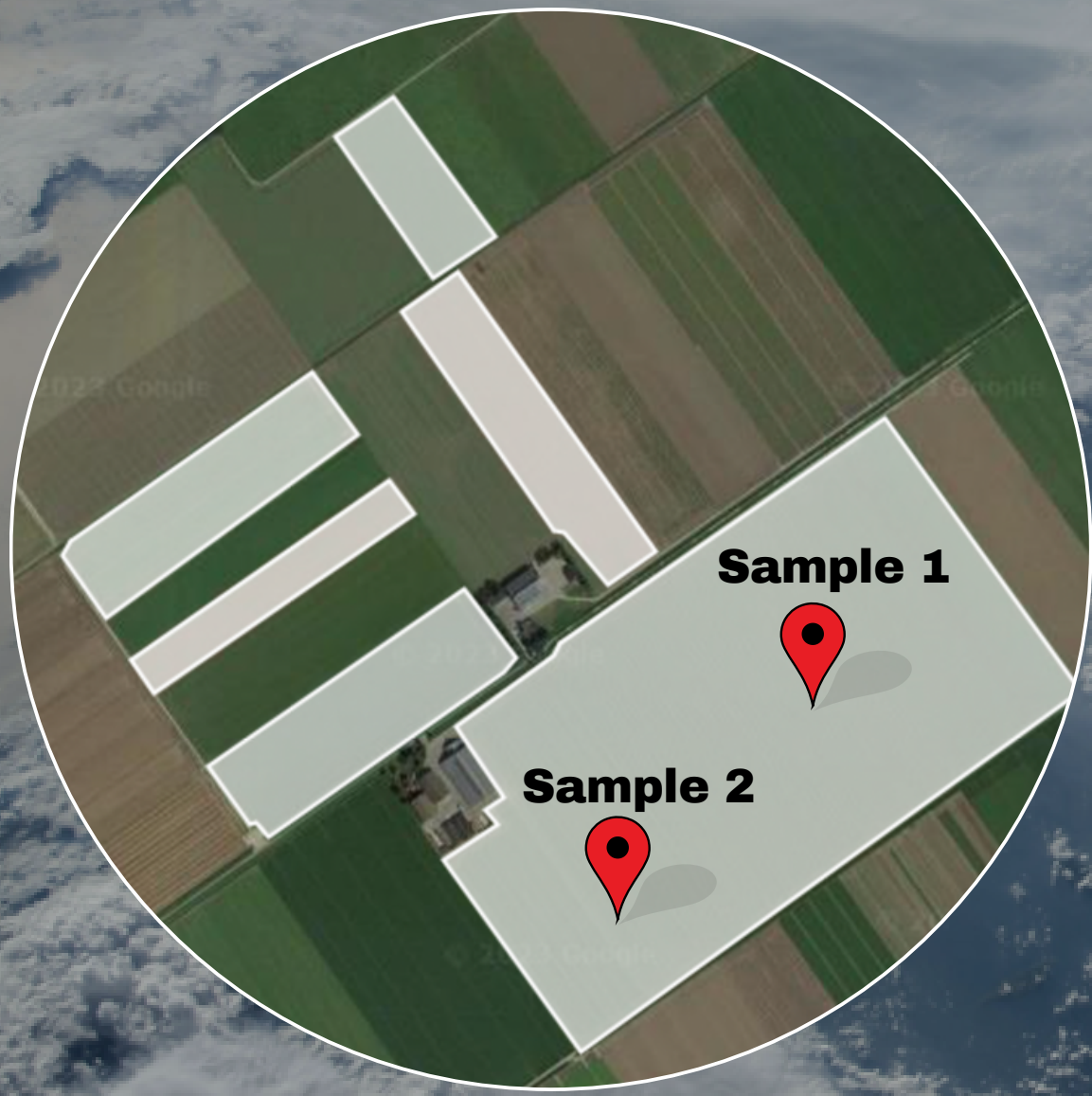


75% of farmland needs to be regenerated by 2045



90% of Corporate food value chain GHG emissions are in Scope 3*

SOIL CARBON MONITORING NOW



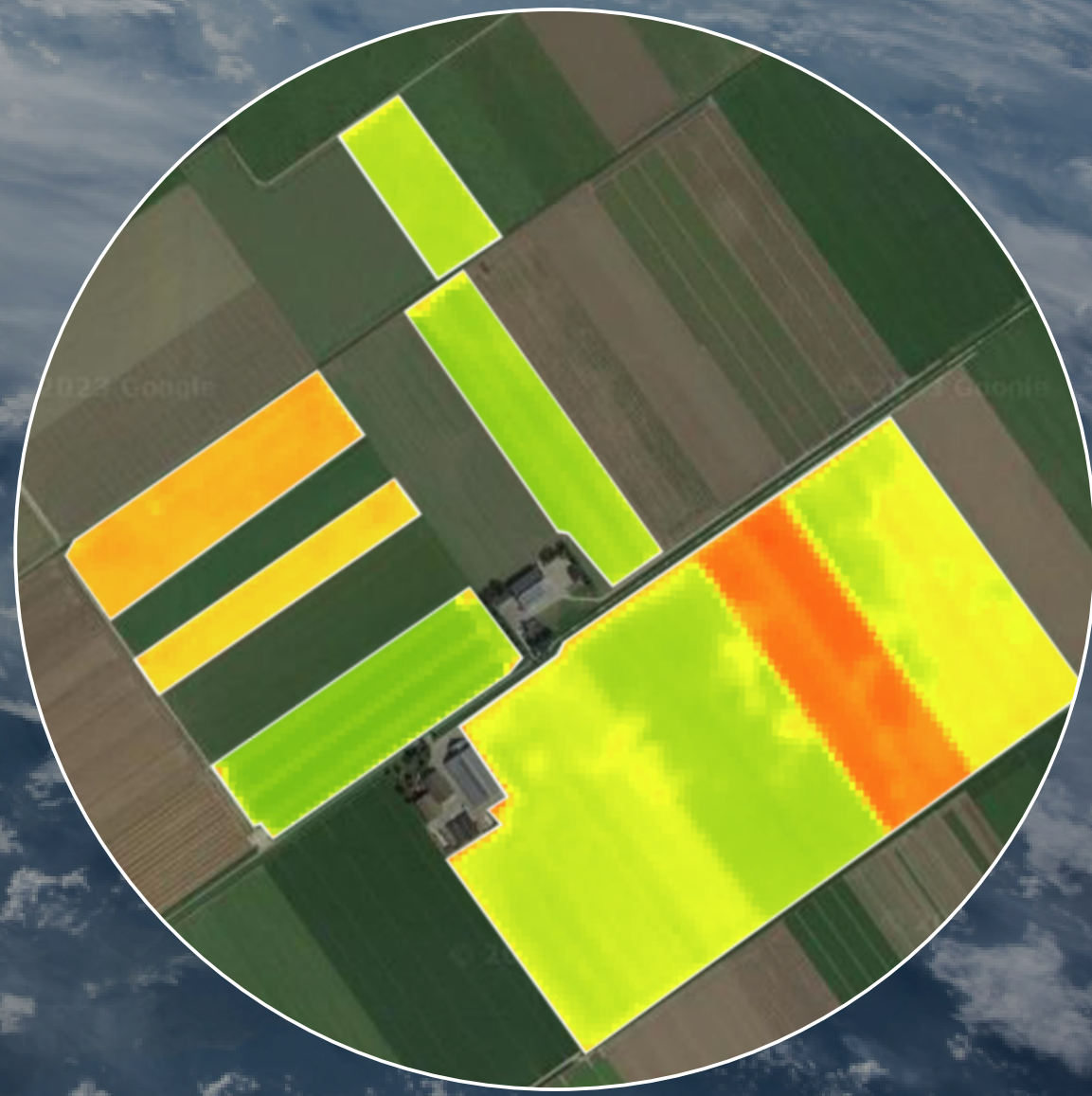
≤ \$8.60 per hectare

1 week

Low resolution

Low reliability and accuracy

SPATIALISE SOIL CARBON MONITORING



85 % reliability

85 % accuracy

≤ \$0.20 per hectare

5 minutes

Resolution 10 x 10m

Uncertainty quantification

HOW DOES IT WORK?

CURRENT FUTURE

SATELLITE MONITORING

- Cost-effective
- Scalable to global coverage
- Near real-time information stream
- Extracting soil organic carbon features



+111 PARAMETERS

- Reflectance
- Climatic
- Morphometric
- Biological

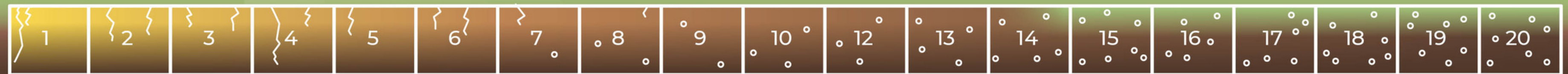
SOIL SAMPLING

- Costly
- Time consuming
- Not scalable



Carbon in the atmosphere

Carbon in the soil



SOC (-)

yearly changing soil organic carbon content



SOC (+)



MACHINE LEARNING

- Data driven representation of SOC
- State-of-the-art deep learning
- Optimal feature utilisation and representation
- Quantified estimation uncertainty
- Location-based calibration
- Higher spatial resolution



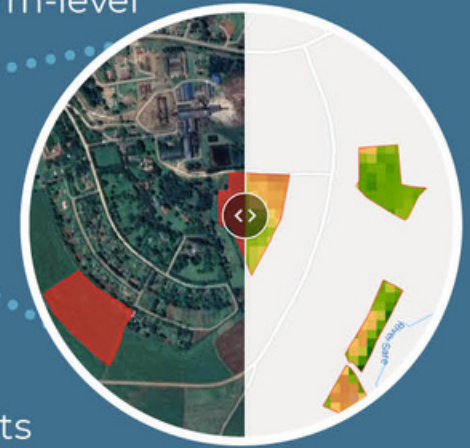
MONITORING OF SOIL ORGANIC CARBON

- Large-scale mapping on smallholder farm-level
- Reduction of soil sampling
- Historical information
- Real-time estimates



GAINS

- Reliable baselines remotely
- Fully automated: Data > Model > SaaS
- Scalability: No soil sampling, lower costs
- Accurate progress of land restoration initiatives



CUSTOMER SEGMENTS

- Climate friendly agriculture project developers
- Carbon footprint (in-setting) of food value chains
- Voluntary carbon marketplaces

MARKET



Monitoring arable farming: \$529 million industry



50.000 EU corporations will be obliged to report on their soil carbon levels through Scope 3



Increase of \geq 50 million hectares owned by these corporations in the last years*



REVENUE STREAMS



**Standardised
reports**



**Interactive
dashboard
subscription**



**Integrable
API**

DASHBOARD

Follow this [hyperlink](#) to view the [Spatialise soil carbon monitoring interface](#)

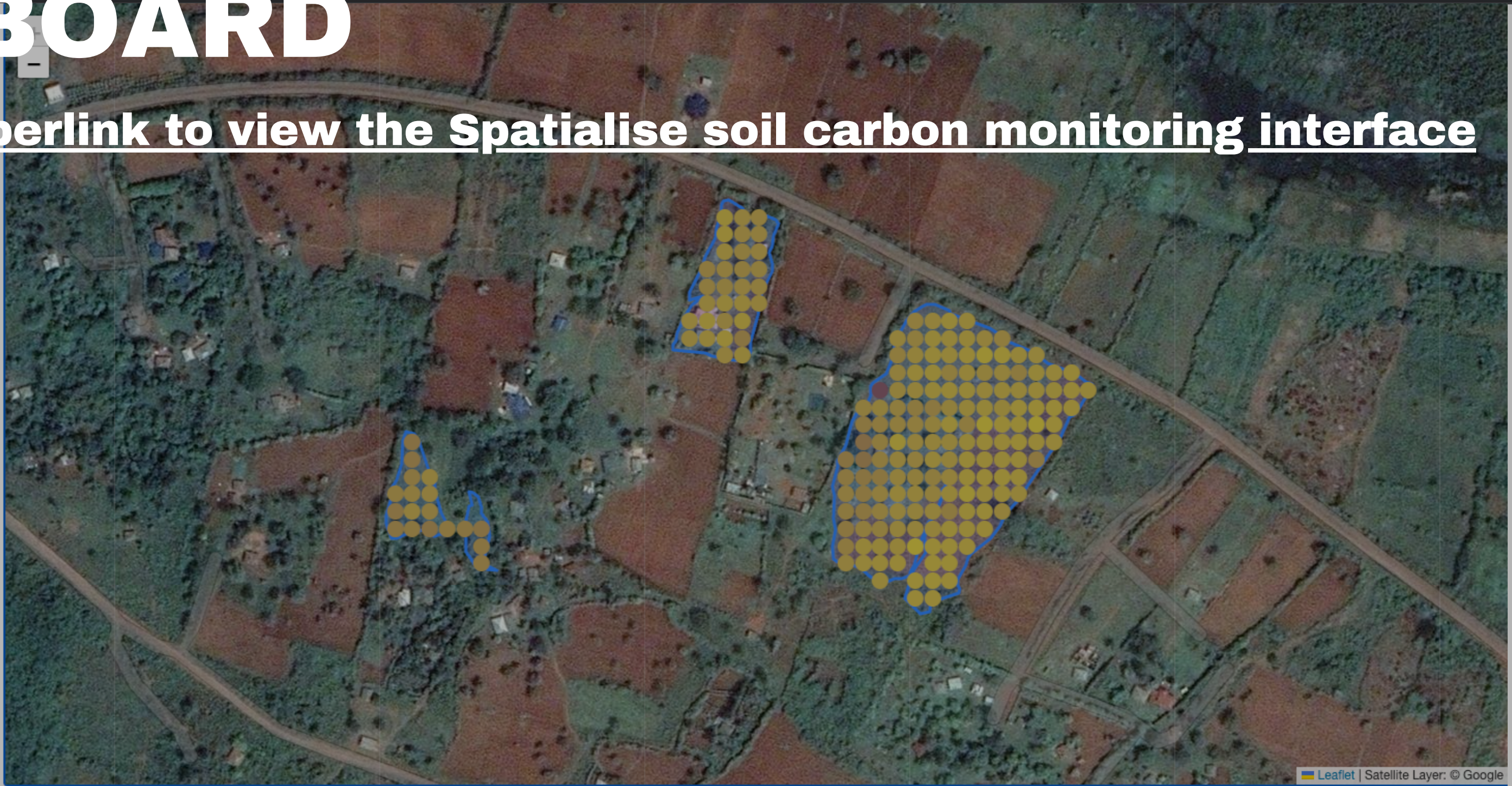
Project: PROSOIL

Click below for

- Project Report
- Analysis
- Notes

View results for year

2022

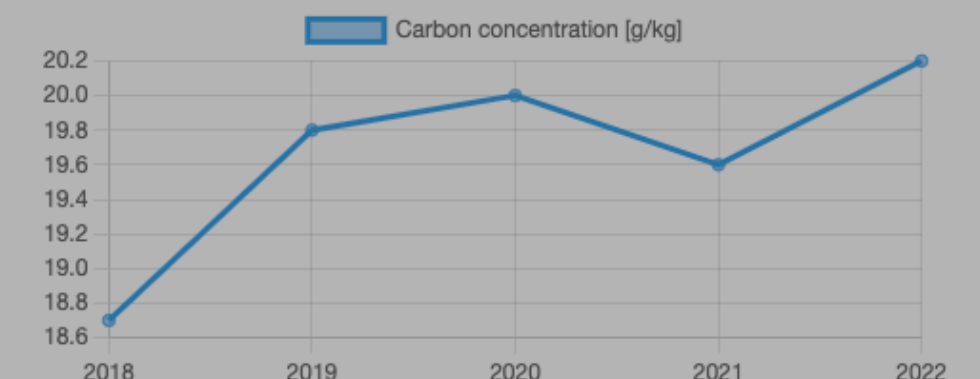
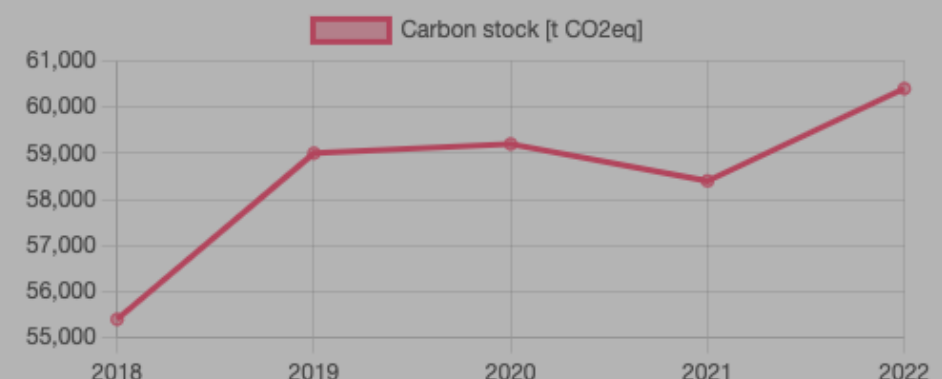


Aggregated Carbon Data

Carbon stock

Carbon concentration

Year	Carbon stock [t CO2eq]	Carbon concentration [g/kg]
2018	55400	18.7
2019	59000	19.8
2020	59200	20
2021	58400	19.6
2022	60400	20.2



FORECAST



1 customer
> 20.000
hectares

3 customers
> 86.000
hectares

4 customers
> 300.000
hectares

6 customers
> 950.000
hectares

8 customers
> 4.000.000
hectares

12 customers
> 15.000.000
hectares

2021

2022

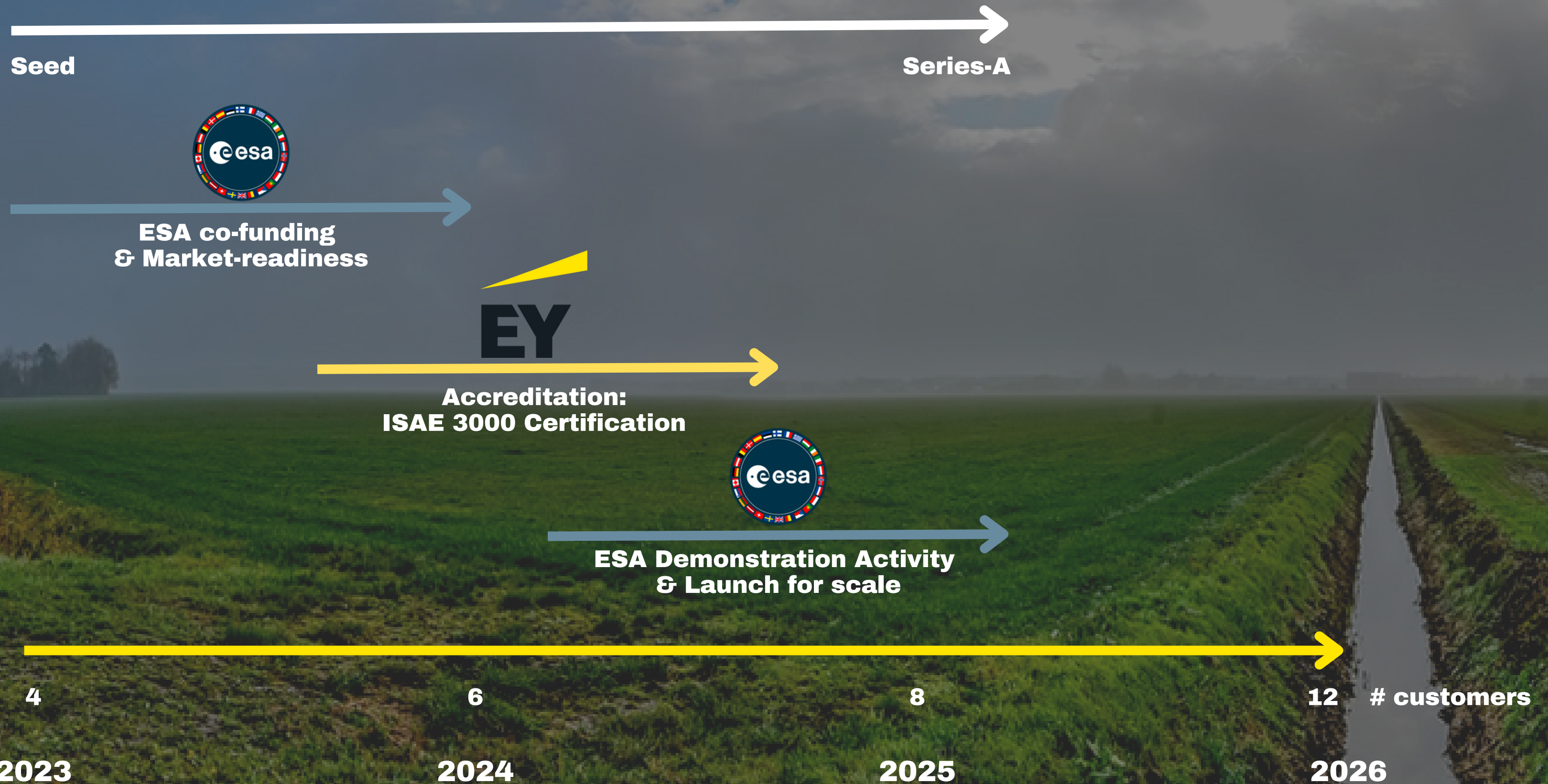
2023

2024

2025

2026

MILESTONES



SPATIALISE SEED ROUND: \$750,000 FOR 10-15% STAKE

INVESTMENT REQUEST





Cathal Hastings

Cloud Engineer



Niels Janssens

Chief Technology Officer



Soufiane el Khinifri

Chief Executive Officer



PhD Nikolaj Takata Mücke

AI Lead

Advisors

Ronald de Bruijn

CEO at Agrisim

Dr. ir. Gitte Schober

Team Entrepreneurship WUR

Dr. Markus Walsh

Senior soil scientist



PhD Adithya Krishnan

Product Manager



Charlotte Viale

Business Development

Partners

Satelligence

4p1000

EUSPA

SCARF-network

ESA Worldsoils

Kuva Space

StartHub

EUSO

MEET OUR TEAM



**LET'S MONITOR THE FIRST 10 MILLION
HECTARES TOGETHER!**