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DE DEVELOPPEMENT

Alfiya Kaumova

Co-Founder, Greengrowth

“Turning data into profit: Yield monitoring technology”



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Bigger vision

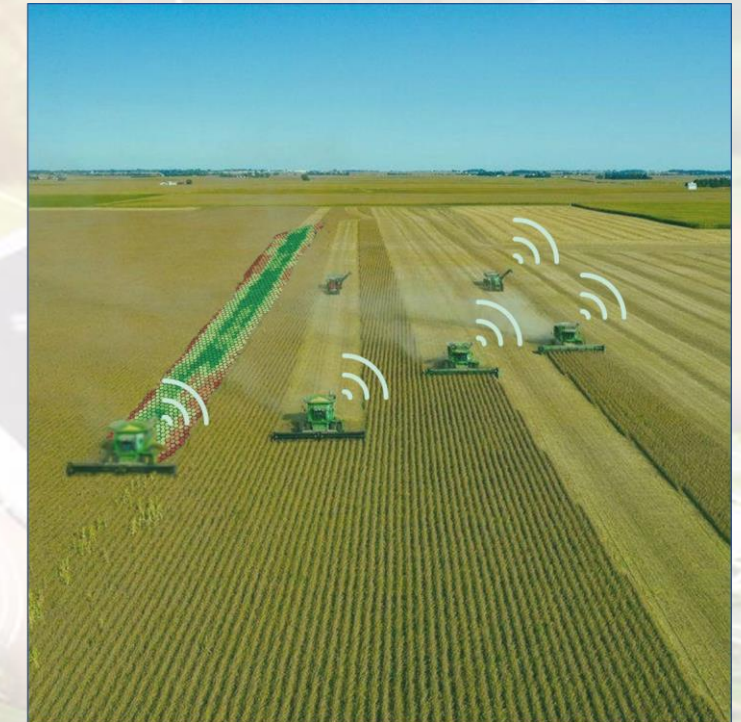
to become pocketagronomist

Mission

Help farmers improve the efficiency of their fields and reduce input costs with affordable precise analytics.



Green Growth
turning data into profit



Green Growth



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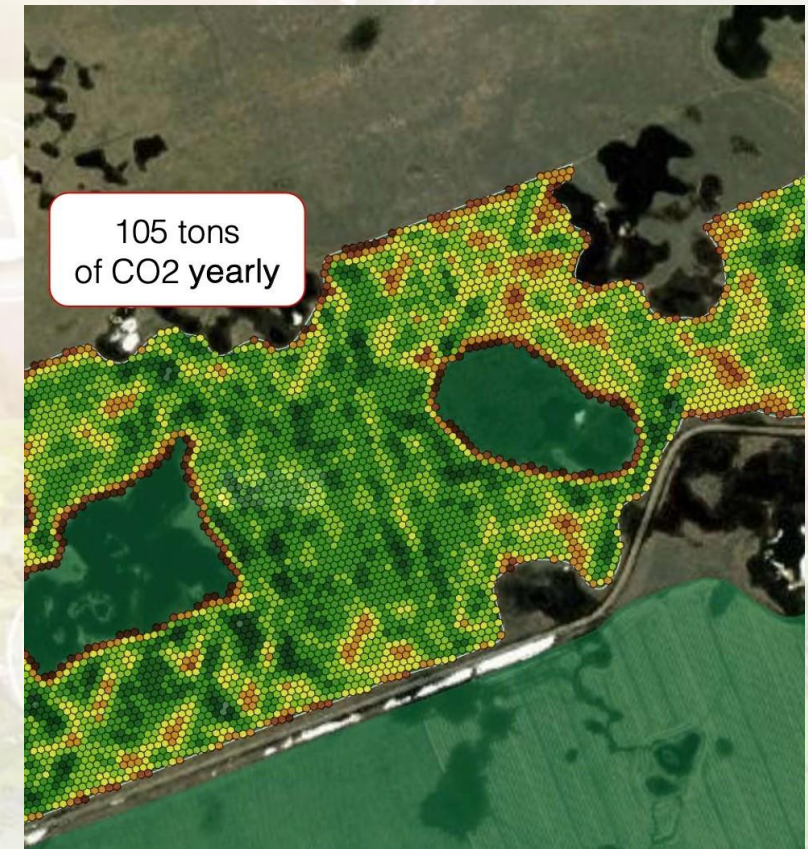
Green Growth
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Sustainable goal

In 5 years, we aim to help farmers decrease up to 30% of fertilizer inputs across at least 3M ha.

It equals **400 MTons of CO₂** reduction yearly.

Most crop farmers fertilize evenly
With data analytics, we can provide farmers with prescriptions on how to reduce fertilization without losing profit.





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Farmers' margins keep falling

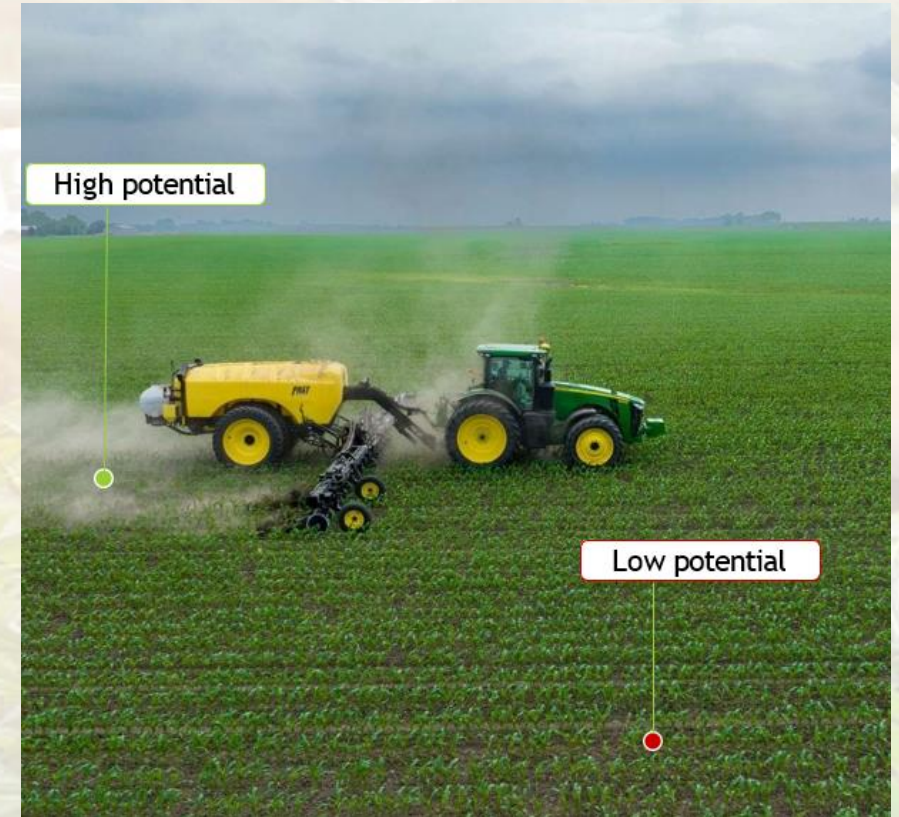
Significant rise in fertilizer prices coupled with a fall in cereal prices is drastically reducing farmers' margins.

Nowadays, farmers have to grow more with less.

Solution is straightforward: by using a data-driven approach that delineates fields into distinct zones of productivity, we unlock the potential to **increase profits by up to 10%**.



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Green Growth collects crucial data

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High
yield

Low
yield



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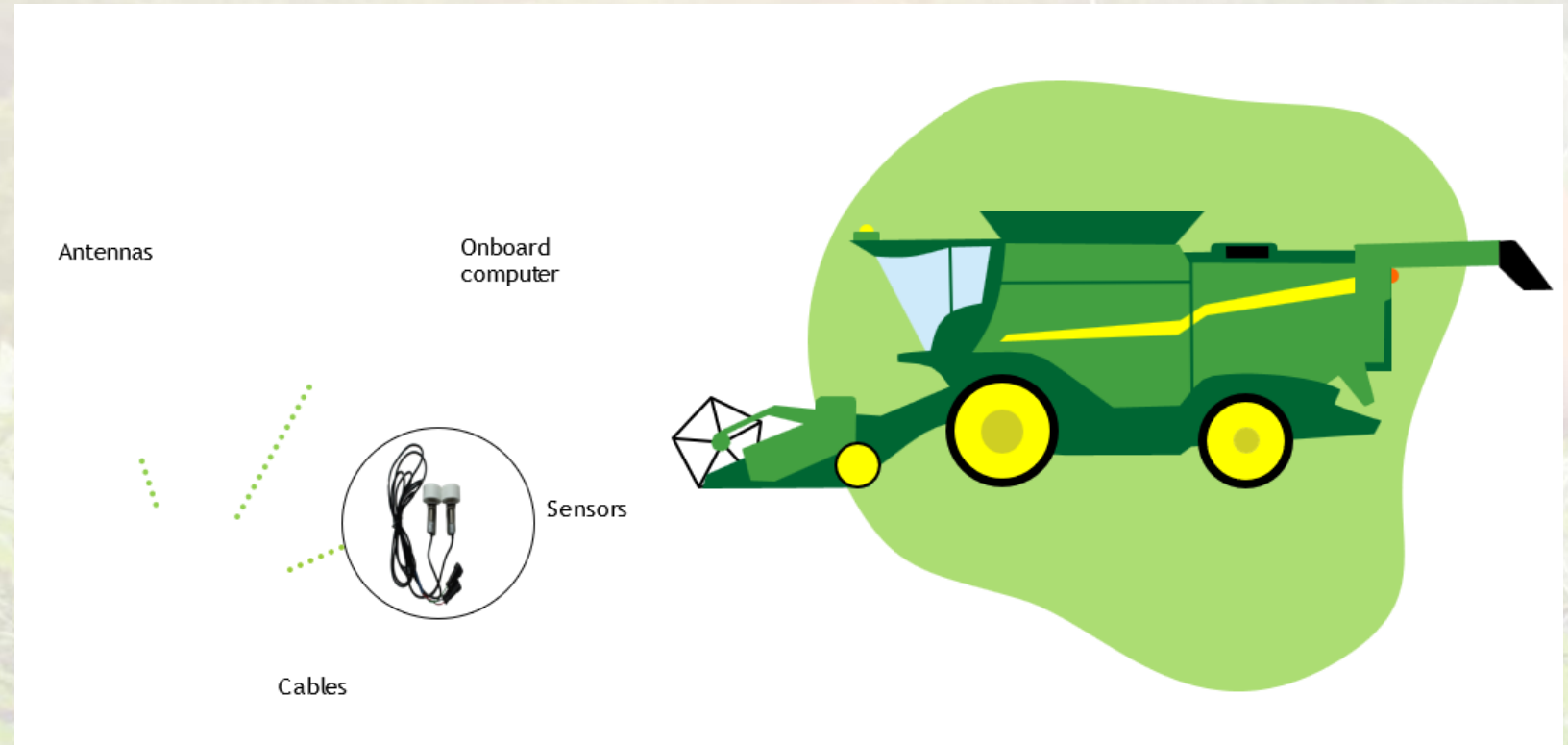
Data collection directly from machines



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Universal

Collects the data automatically





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We help increase yield & save money

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Farmer saves from 50 EUR per ha

Variable-Rate Fertilizer Application

Planning and validating experiments



Determine areas for soil analysis

Data-driven land price for sellers



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Our clients earn 10% more

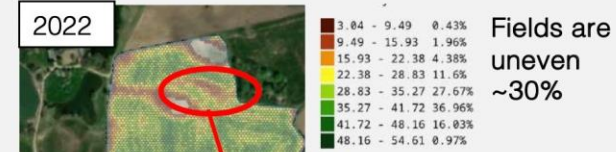


This is Martins Flaksis,
owner of krastmali.lv

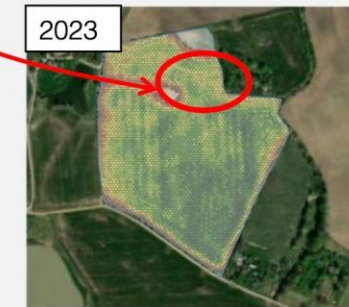
- 700 hectares of crops (medium farmer)

↑ Profit per Ha **1000 EUR** ↓ Loss per Ha **100-200 EUR**

FCF before using Green Growth 550K Eur
FCF after using Green Growth 600K Eur ↑ **+10%**



- Smart application saves up to 40 Eur/Ha (~30K EUR for this farm)





Customer economics example1: Inputs

Field 6.5 Ha



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Before

Uniform distribution

- Seeds: ~600 Eur
- Fertilizer (Nitrogen, Phosphorus, Potassium): ~3 500 Eur

Total spendings per field

~ 4000 EUR



Using Green Growth

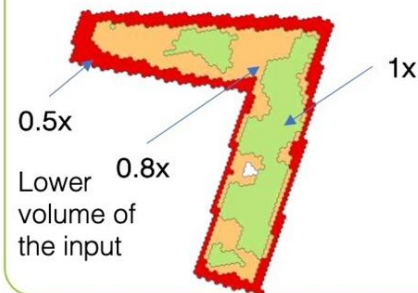
Collecting yield with Green Growth and plotting productivity zones

- Sensors



2000 Eur, covers up to 600 Ha

- Prescription map: ~150 Eur



After

Savings yearly

- Seeds: ~150 Eur
- Fertilizer (Nitrogen, Phosphorus, Potassium): ~1 000 Eur

Total savings per field

~ 1150 EUR



Customer economics example2: Soil sampling

Field 6.5 Ha



Before

Random soil sampling

- Samples > 10 pcs: ~10 Eur each
- Quality: low random sample coordinates selection

Total spendings per field

> 1000 EUR



Using Green Growth

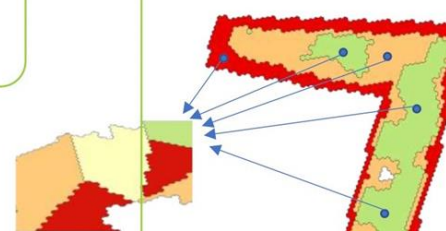
Productivity zones-based soil sampling

- Sensors



2000 Eur, covers up to 600 Ha

- Soil samples generation and visualization: ~10 Eur



- Samples < 10 pcs
- Quality: high correlation with yield



After

Savings yearly

- On soil sampling ~100 – 300 EUR
- Precise results of sampling will lead to further yield improvements

Total savings per field

100-300 EUR

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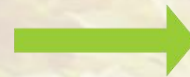
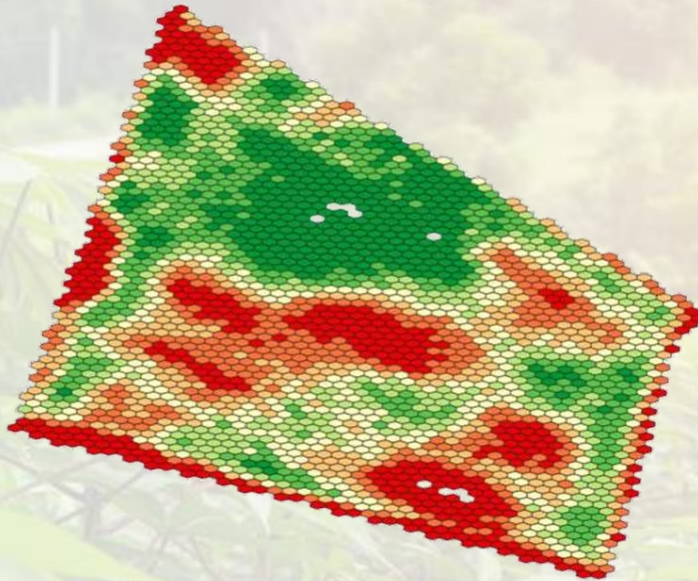


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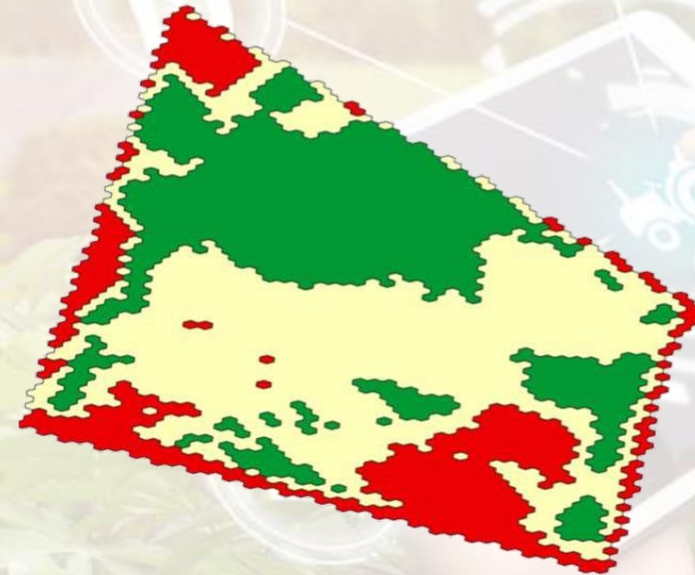
Further step prescription maps

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Yield map



Prescription map





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THANK YOU FOR YOUR PARTICIPATION!

გმადლობთ მონაწილეობისთვის!

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