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“Successful projects in the field of innovation in agriculture implemented in Georgia for export-oriented industries”



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Outline

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2. Case #1: Satellite and NDVI/NDRE Indexes:
3. Case#2: Farm Management Software and Farm Analytics
4. Case#3: Weather Monitoring and Sensors
5. Top Technologies for the Beginners



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Intro



2021: tech implementation

2022: + agricultural consulting

2023: + EU trading



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1st of 3 Key Components of Successful Technology Implementation

1

Notebook before Excel, Excel before Farm Management System

The farm's processes have been streamlined without the need for complex automation.



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2nd of 3 Key Components of Successful Technology Implementation

2

Transparently calculated Return on Investment

The clearer and quicker the profit, the smoother the implementation



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3rd of 3 Key Components of Successful Technology Implementation

3

Stay Motivated

Change can be challenging for individuals, yet it remains inevitable



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Case #1: Satellite and NDVI/NDRE Indexes:

Highly practical for monitoring plant health. Newbie to Horticulture

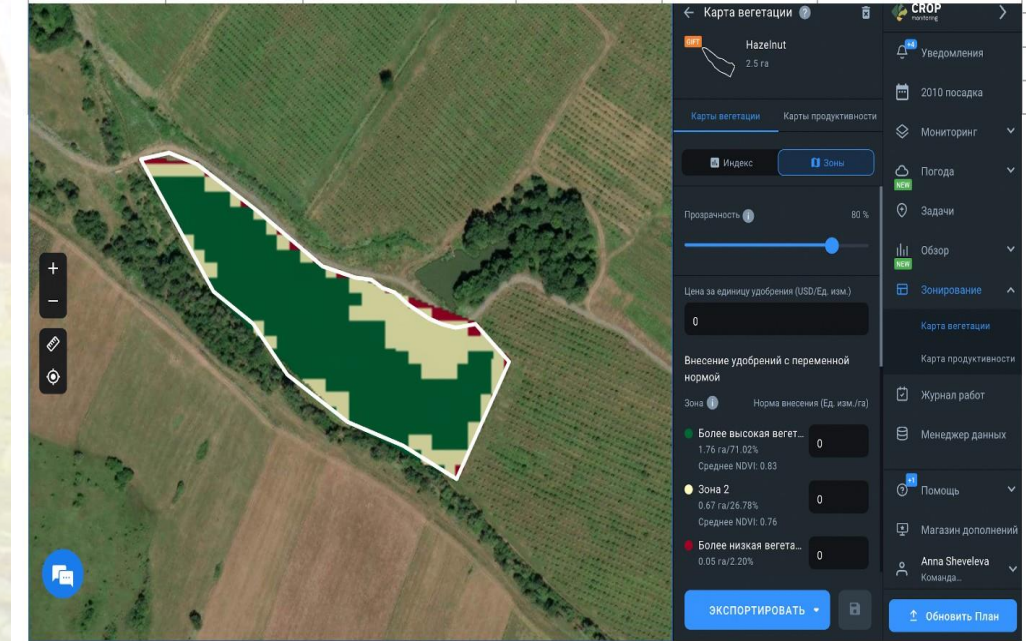
Crops: Hazelnuts

Orchard's Age: 7 y.o.

Goal: Yield forecast

Result: Relatively high accuracy. Error in comparison with the fact results from 0.1 to 0.25 tons per hectare

Vegetation	ha	Seedlings Qty	Kg per seedling	Total yield, kg	Yield per ha, kg
		2002			
High	1,8	1440	4	5760	3200
Medium	0,76	608	3	1824	2400
Low	0,05	40	2	80	1600
					7200





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Case #2: Farm Management Systems

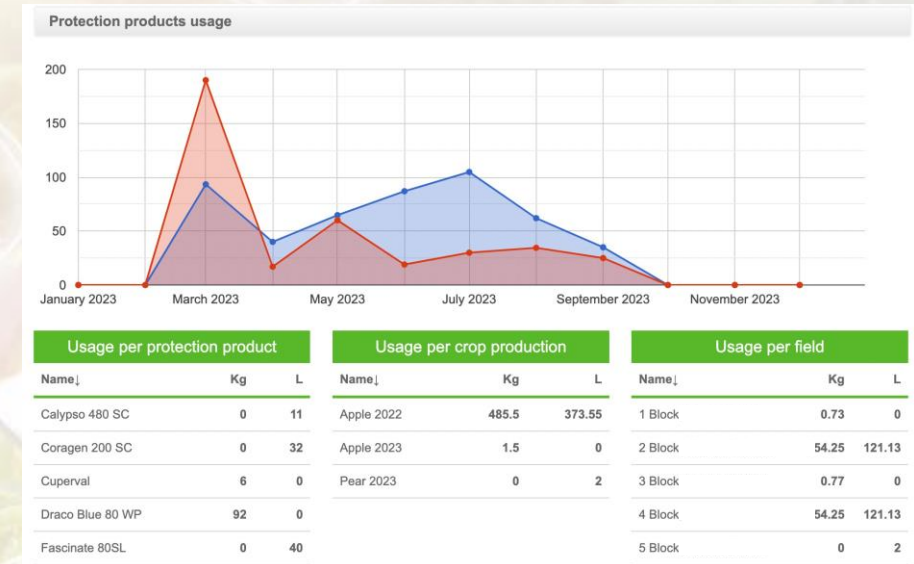
Teaches competent farm management

Crops: Fruit Orchards

Implementations: inside 2 productions

Goal: Control and optimization of farm operations

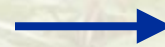
Result: Annual savings of 360 euros per hectare



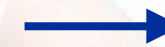
Plan



Track



Analyze



Improve



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Case #3: Weather Analytic and Soil Sensors

The imperative need to make the right decisions

	Soil moisture 60 cm	100 %	>
	Soil moisture 30 cm	100 %	>
	Soil moisture 0-60 cm		>
	Soil temperature 30 cm	19 °C	>
	Battery voltage	4.1 V	>
	Solar panel voltage	0 V	>

Vegetation is stimulated!
Need growth regulation

Issue of prolonged water stagnation: Implement a mulching plan



25/09 is the day off for harvesting



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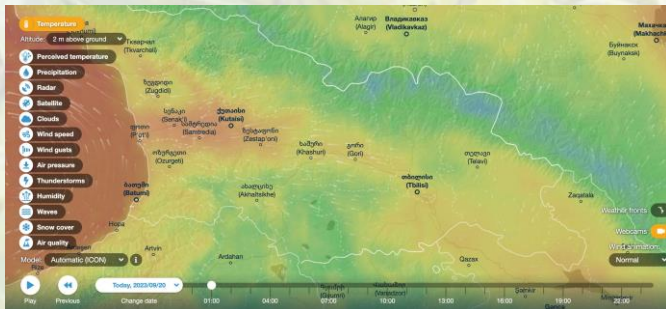


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Top Technologies for the Beginners

1

Satellite Weather
Monitoring



2

GPS / RTK for Machinery



3

Excel Templates for the
Farm Operations

	A	B	C	D	E	F
1	სებლის ბაღი / Frutteto	ფენოლოგიური ფაზა / Fase Fenologica	პრობლემა ან პათოლოგია / Problema o Patologia	სამუშაო / Lavoro	თარიღი / Data	დრო / Tempo
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THANK YOU FOR YOUR PARTICIPATION!
გმადლობთ მონაწილეობისთვის!

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