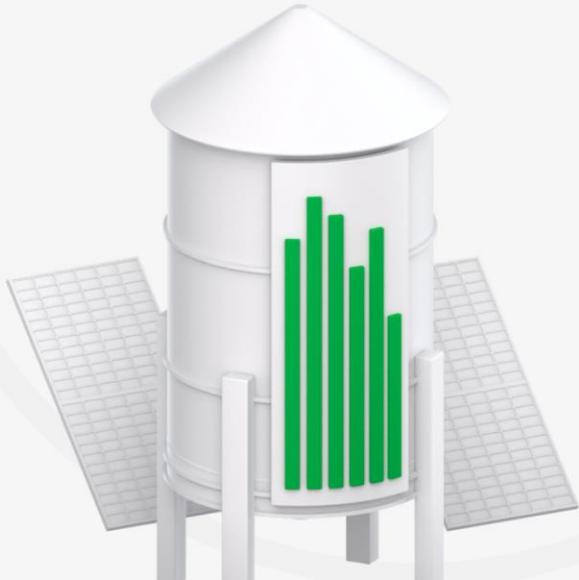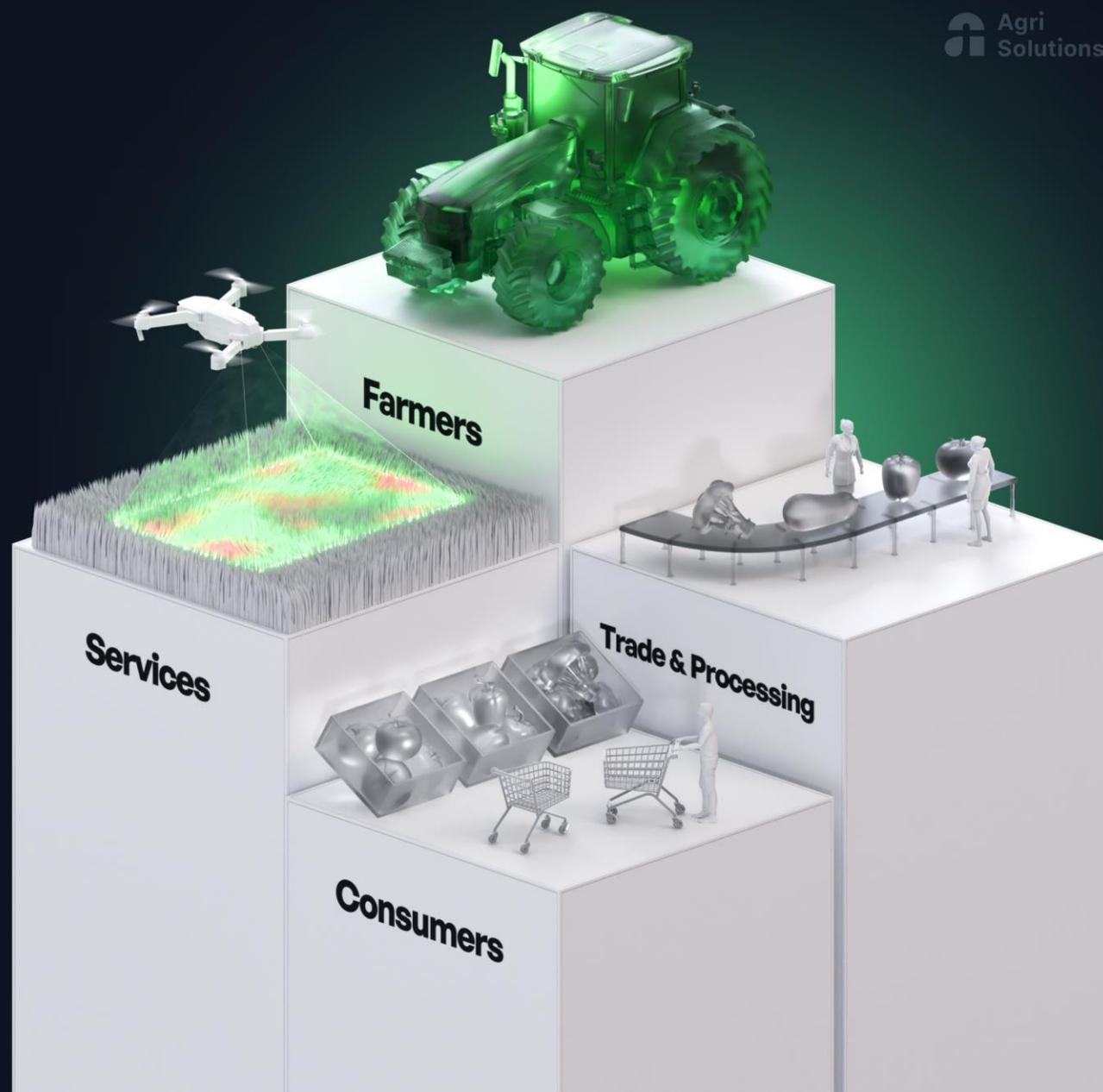Agri
Solutions

Meet us

For seven years, we have been assisting all stakeholders in the agri-food industry to achieve better economic indicators. We are improving yields while reducing negative environmental and social impacts; increasing industry transparency and consumer awareness.

Agri Solutions

Farmers

Services

Trade & Processing

Consumers

ISO 27001 Information Security Management Certified

ISO 9001:2015 CERTIFIED COMPANY

Microsoft Co-Sell Ready Partner

We create technology

We are a technology company dedicated exclusively to the agri-food industry, combining deep programming expertise with hands-on agricultural experience. Agri Solutions is headquartered on a ~500-hectare farm and provides additional services covering approximately 3,500–4,000 hectares.

All this makes:

✅ We understand the realities of agricultural production — especially crop cultivation. Our team is fluent in the terminology, regulations, and challenges of farming and farm management. This allows us to quickly analyze requirements without placing extra burden on non-IT stakeholders, and to recommend the most effective solutions.

✅ With direct access to fields, crops, machinery, and advanced technologies, we can rapidly test and validate products in real-world conditions.

✅ We continuously track, evaluate, and test the latest technologies developed for the agri-food sector.

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R&D for the future & sustainability

We deliver contracted IT projects, conduct in-house research, and provide consulting services in the following areas:
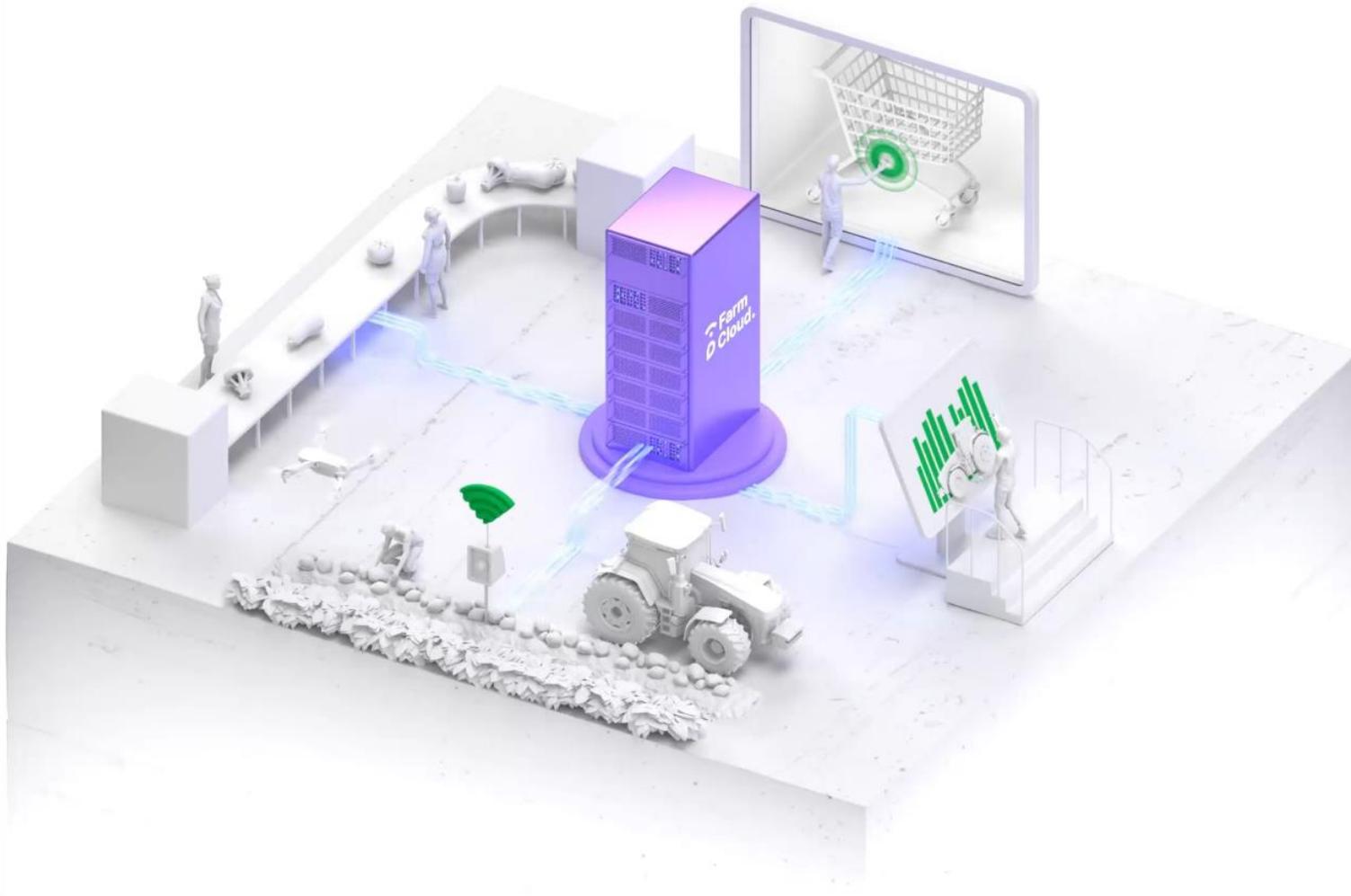
- ✓ Uses of AI/ML for image processing, decision support systems, anomaly detection, predictive analysis.

- ✓ We design, supply and integrate IoT devices, sensors, loggers that automate the acquisition and processing of data from agricultural production, equipment and machinery and monitor crop health.

- ✓ We carry out dedicated commissioned projects related to crop production, animal production, document circulation, quality control using modern technologies.

- ✓ We carry out our own research and development work in fertilization, irrigation, crop protection, soil analysis. We have IP and the ability to fully modify FarmCloud.

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Solutions
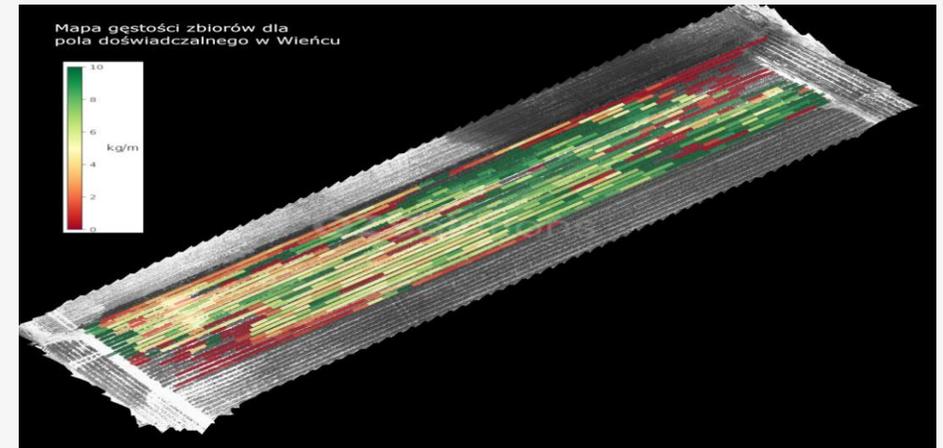
Customers and partners

✅ The flexibility and robust functional and technical capabilities of our products enable them to support a wide range of business processes.

✅ Our Farm Management System (FMS) is used by over 8,500 farms — small, medium, and large — covering a wide range of production types, operational needs, and business models.

✅ A significant group of our users includes fruit and vegetable processors and distributors who tailor FarmCloud to their specific needs, as well as agricultural advisors and farm input retailers.

✅ FarmCloud is also used by state institutions such as IUNG, KOWR, and NASK, and research centers.

✅ We believe cooperation creates synergy, which is why we integrate partners' services — even those of competitors.

Agri Solutions

amplus	brodowski
AGROS NOVA	Microsoft
Grupa azoty	aqro SMART LAB
CN NIDZICA	POTATOPOLAND
PMHZ STRZEKĘCINO	onix
IUNG	KOWR

Agri-Food production is not just about farmers.

FarmCloud delivers value across the entire food production and distribution chain — supporting:

- ☑ processors and distributors,
- ☑ agronomic consultants,
- ☑ certification bodies,
- ☑ laboratories,
- ☑ consumers.

It is a true platform for data sharing and collaboration. We believe this is the only realistic path to achieving the goals of agricultural transformation.

FarmCloud is more than an app

The entire system consists of interconnected applications, services and sensors.

Farm Portal.

A comprehensive system for farm and agricultural production management based on IoT sensors, artificial intelligence and telemetry.

Food Pass.

Supply chain monitoring, cooperation with growers, local and remote consulting, safety and quality control of agricultural products.

Agri Insights.

Advanced reports, predictive analysis, development of scoring models and risk modeling for agri-food production.

Agro Sell.

A modern trading platform that connects farms with retail and services based on real customer needs and opportunities.

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FarmCloud's unique approach

✅ It integrates stakeholders from different stages of production with each other and we are breaking down barriers to data flow.

✅ The farmer's decision support system is based on real data and proprietary algorithms. Not just on models and manually entered data.

✅ Meeting the ESG and transformation needs of the agri-food sector.

✅ Integration with external tools and applications.

✅ SaaS & Private Service

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8

Integrated services & sensors

FarmCloud was created to integrate with external IT systems and sensors provided by various manufacturers. For the vast majority of services, the system provides an API.

Services

- eOS Data Analytics
- ICM Meteo
- Metos FieldClimate Rain Viewer
- Kaack Stock Exchange
- Hedera Blockchain
- Open meteo
- Smart Farm / Agro Smart Lab
- AgriRouter

Sensors

- Weather station Metos
- Weather station Atmesys
- GPS tracking z CAN and yield mapping– Tracky
- Automated steering system
- ClimateWatch
- Soil moisture sensors (SensorAI, Metos, ReHydro)
- Geonic EM38-mk2

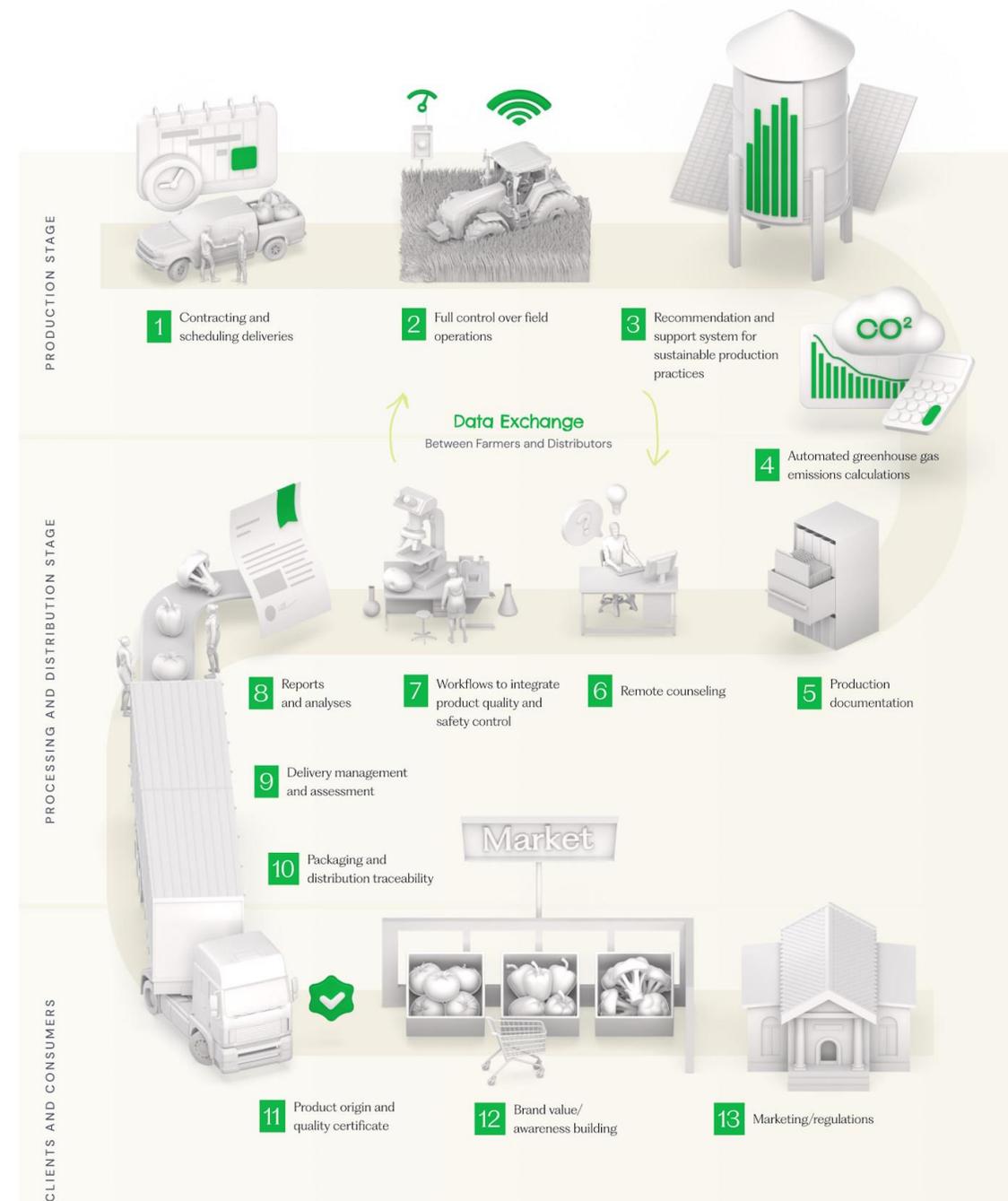Agri Solutions

From Farm to Fork

Production starts on the farm, where the farmer uses FarmPortal to manage resources and monitor crop health. Real-time data on soil, fertilizer use, and weather conditions are recorded, creating a digital crop profile.

During the growing season, the farmer and their contractors can exchange information via FoodPass — enabling remote advice, quality monitoring, and food safety oversight. FoodPass also makes it easy to manage multiple contractors.

At the processing stage, raw material data flows to processors, who add production process details to the product's digital history.

During distribution, FarmCloud tracks transportation, monitoring shipping conditions as well as CO_2 emissions and water footprint.

At the point of sale, consumers can scan a QR code on the packaging to access the complete product history — including where it was grown, how it was produced, and how it was inspected.

PRODUCTION STAGE

1 Contracting and scheduling deliveries

2 Full control over field operations

3 Recommendation and support system for sustainable production practices

Data Exchange
Between Farmers and Distributors

CO^2

4 Automated greenhouse gas emissions calculations

PROCESSING AND DISTRIBUTION STAGE

8 Reports and analyses

7 Workflows to integrate product quality and safety control

6 Remote counseling

5 Production documentation

9 Delivery management and assessment

10 Packaging and distribution traceability

Market

CLIENTS AND CONSUMERS

11 Product origin and quality certificate

12 Brand value/ awareness building

13 Marketing/regulations

Biodiversity and soil health

Optimal consumption of inputs and minimization of the environmental burden of mineral fertilizers and crop protection products:

- ✅ Disease models and pest infestation alerts-spraying at the right dose at the right time.

- ✅ Determination of productivity zones in fields-application of variable irrigation and fertilization rates based on yield maps, soil richness maps, irrigation maps, meteorological data from own weather stations and sensors in the soil.

- ✅ Minimizing nitrogen dispersion in the environment and interference with soil chemistry and the soil microbiome. Precise fertilization based on historical data, use of telemetry and productivity zone maps.

- ✅ Intelligent Soil Sample Point Determination. The platform allows for soil quality monitoring through data archiving and integration of actual measurements from field sensors.

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An essential tool for ESG implementation

✅ Automated report preparation: carbon footprint, water footprint, production reports. The platform includes the ability to monitor and access the CO2 emissions exchange.

✅ Analysis of production data, e.g. labor intensity and treatment costs - these modules facilitate effective advice and decision-making to improve production economics, or to choose the right investments.

✅ Farm audits, direct advice via remote photo sharing, growing conditions.

✅ Monitoring the soil environment using sensors.

✅ Enable the consumer to verify the origin of the product.

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CO₂ exchange - Gospodarstwo 1 - Ligota

CO₂ balance	N Balance
4270.72 t	-36869.039 kg
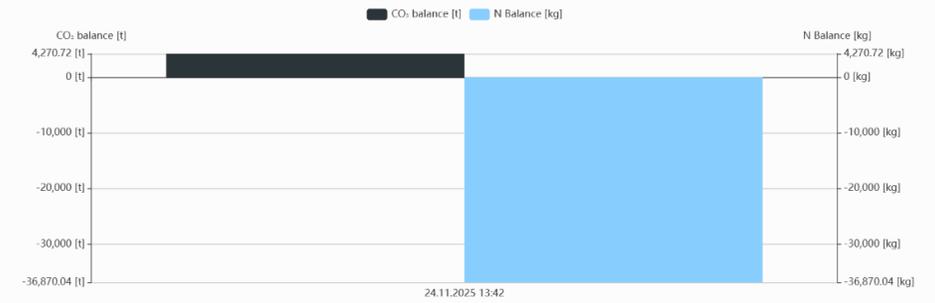
Crop	Ground	CO₂ balance [t]	N balance [kg]
Winter wheat	Na Zimnice	206.202	-869.73
Winter rape	Przy osiedlu	20.98	-123.03
Potato	Naprzeciw Kowalskiego	37.049	82.61
Corn	Świerzna	293.398	-3667.22
Winter wheat	Klin na zakręcie	93.564	-398.25
Lettuce	Pole demo	1.749	35.5
Potato	McCain Demo1	43.19	96.31

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www.farmcloud.eu | www.farmportal.eu | www.foodpass.pl