

COLLABORATIVE GRAIN QUALITY MONITORING AND SILO RECORD-KEEPING FOR IMPROVED MARKET OUTCOMES

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MAIN CHALLENGE/ OBJECTIVES

Lack of reliable grain quality data and silo traceability has led to rejected batches and suboptimal pricing. The project objective was to improve collaboration and decision-making through shared quality data and digital silo records.

MAIN RESULTS/ OUTCOMES

Farmers achieved better grain prices and eliminated batch rejections by sharing toxin measurement data and linking it to silo records and grain certificates across a collaborative network.



PRACTICAL IMPLICATIONS / RECOMMENDATIONS

The practice involved a three-season process:

- 1) Mapping existing data flows with farmers to identify gaps in quality and yield data.
- 2) Improving data quality and targeting sampling and analysis to critical points in the production chain.
- 3) Piloting inter-farm data exchange using digital tools (QGIS, Mergin Maps, FMIS, and silo software).

Farmers marked sampling points for mycotoxin testing, and results were collected and synchronized across systems. This enabled real-time access to quality data, which was integrated into grain certificates. The collaborative approach fostered trust, transparency, and informed decision-making among farmers and buyers. It also demonstrated the value of shared data in building larger, uniform grain batches and negotiating better prices.

GEOGRAPHICAL LOCATION

Finland

FURTHER INFORMATION

Datapellon Uudisraivaajat (Data Field Pioneers) is an EIP-AGRI Operational Group in Finland (2024–2026), funded by the CAP Strategic Plan (EAFRD). The project is coordinated by DataSpace Europe with JAMK University of Applied Sciences and grain farmers. Keywords: communal data, grain trade, farm cooperation, fair data economy, digital agriculture, Operational Group, traceability, interoperability, Finland



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