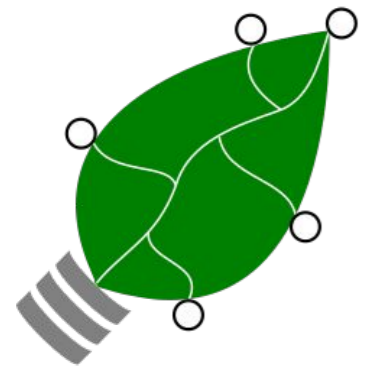




# Manage Your Data, Unlock Your Farm's Potential



## DigiAgriApp: An Open-Source Client-Server Application for Centralized Farming Data Management



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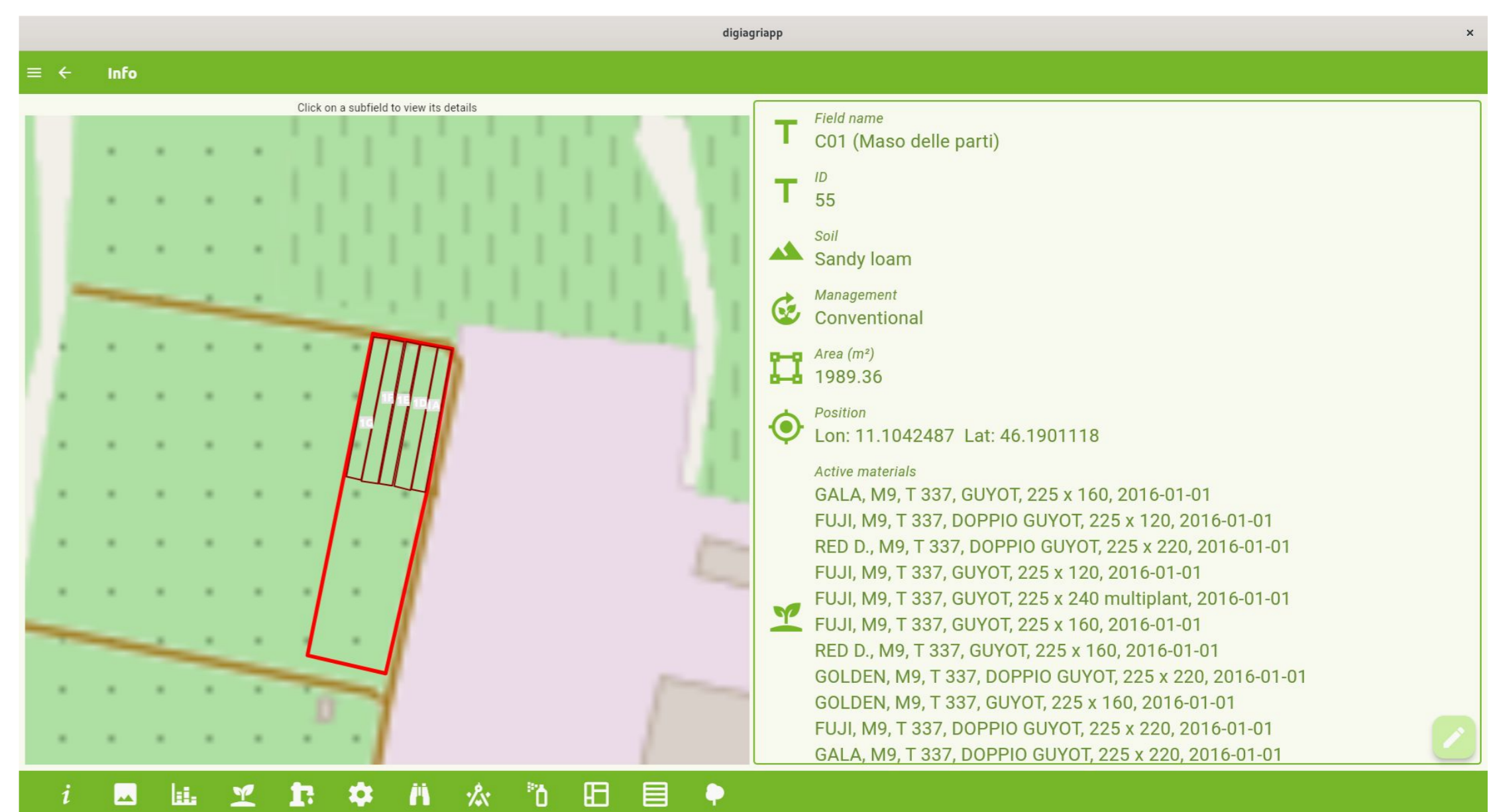
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## BACKGROUND AND INTRODUCTION

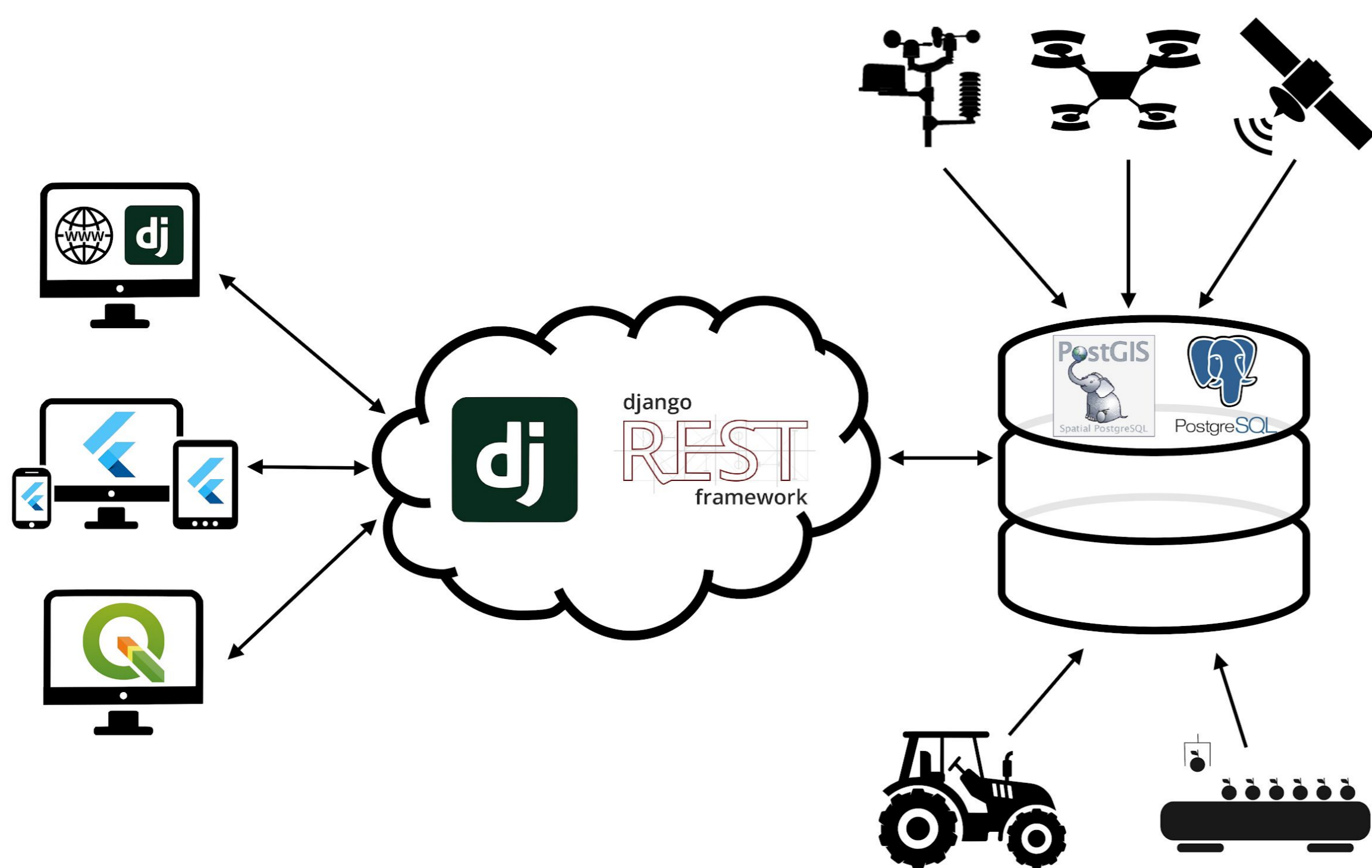
Agriculture is transitioning into the era of Agriculture 4.0, driven by data from IoT devices, sensors, and remote sensing tools. Efficient data collection and management are critical to improve farm productivity, sustainability, and resilience.

DigiAgriApp is an open-source, client-server platform developed to centralize and streamline farm data management. It facilitates tracking of field operations, crop information, sensor data, irrigation, production statistics, and emissions, enabling precision farming at various scales.



A detailed view of one of the DigiAgriApp GUI panels. On the left side is the map view and on the right is the information panel

## DIGIAGRIAPP KEY FEATURES



The overall structure of DigiAgriApp: a Django-based platform that collects data from diverse sources processes it using a geo-enabled database, and provides access through multiple interfaces.

## REFERENCES

Moretto, M., Delucchi, L., Zorer, R., Moser, D., Micheli, F., Paoli, A., & Franceschi, P. (2025). DigiAgriApp: a client-server application to monitor field activities. *Environmental Modelling & Software*, 106528.

- Multiscale data management
- Visual tools for geospatial data
- Open Source
- Pest detection
- Support experiment conditions
- Integration with sensors
- Multi-user and multi-farm
- Geospatial hierarchy (field, row, plant)