

Digital Transformation for a Full-Cycle Agribusiness

Digital enterprise

ESB

Automation

Integration

Customer

A leading diversified agricultural holding in the Eastern Europe

Industry

Agriculture, Commodity trading

Objective

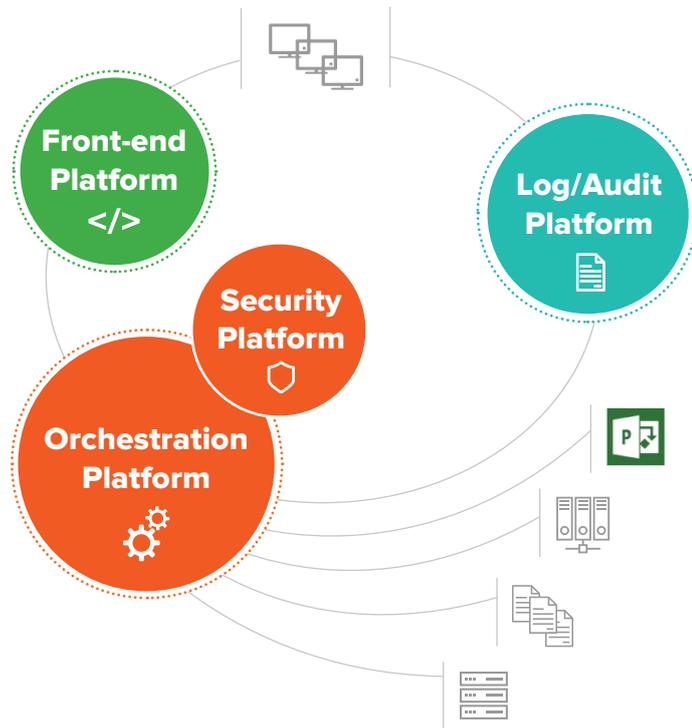
The customer needed to optimize the management of its full-cycle agribusiness aiming to introduce an integrated business process flow, cut operating costs, and reduce manual operations. The requested solution had to orchestrate such processes as sowing season planning, harvesting, sale, monitoring, and accounting. During the first stage of the project, the planning module had to be implemented.



Solution

ELEKS experts conducted a thorough analysis of the customer's existing infrastructure to understand the business processes, their coverage by the existing tools and the scope of their integration. Based on the discovered information, we offered the ELEKS Digital Enterprise Platforms Suite as a comprehensive solution. The Suite is a combination of open-source middleware tools that secure the enterprise's overall operability.

Four platforms have been deployed to cover the customer's complex needs for seasonal planning. They integrate more than 20 independent internal systems, multiple algorithms and data flows, as well as retrieve data from 22 separate information directories.



Benefits

- 50% of costs saved on development;
- Significant TCO cuts;
- Introduction of security and connectivity orchestration across all infrastructure components;
- A centralized core to provide scalability and flexibility in terms of new services, users, and machines;
- 90% of all operations were automated eliminating human factor errors;
- No connectivity disruption and migration downtime.

Implemented components

Orchestration Platform



It is the core of the solution that contains all the algorithms of the customer's business processes. The Platform unites the ESB and BPMS functionality as well as governs the involvement of people into the business processes.

Security Platform



The Platform is the customer's single point of authentication that implements the single sign-on scenario, supports the hierarchy of users, authentication rules and access policies.

Front-end Platform



Being a single point of access for all users, the Platform is a combination of a robust CMS and modern front-end frameworks. ELEKS uses the docker approach that helps to significantly speed up and automate the deployment.

Log/Audit Platform



The Platform monitors the health of the system, services, business logic and databases, and displays the results in the form of dashboards for convenient tracking and processing.

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Have a question? Write to eleksinfo@eleks.com