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**COMPETITIVENESS
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EUROPEAN STRUCTURAL
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Implementation of a Laboratory Information Management System

Improving the Competitiveness and Efficiency of SMEs through Information and Communication Technologies (ICT) – 2

To address identified shortcomings and improve business process management, Genos d.o.o. plans to acquire an ERP system that will cover the following nine business processes: procurement, sales, BI reporting, project management, asset management, human resources, warehouse management, risk management and planning, and logistics.

Laboratory operations will be enhanced by introducing a Laboratory Information Management System (LIMS). LIMS is an IT solution that enables centralized laboratory management. For Genos, this means a central data repository with automated data storage, processing, and integration. Beyond storage, managing this data is of utmost importance. Data related to cohorts, patients, batches, and samples; processes, experiments, measurements, methods, instruments, analysts, and analytics must be integrated, indexed, searchable, appropriately displayed, and available for data mining, editing, and deletion.

The system should be modern, with a flexible user interface, compatible with all modern platforms (Windows, Mac, Android), highly configurable by the end user, and must allow data entry, search, editing, and deletion. It should also have integrated suitable viewers for all data types. The interface should be extendable via Python scripts.

This project will introduce two information systems that will support all business processes within the company, both of which are available on the market.