Smart Laboratory Management System



By leveraging SLMS, a rapid transition from manual processes to digitalization is facilitated, resulting in a remarkable leap in quality. The system demonstrates great agility, adapting to the swift advancements in industry research, thereby enabling highly efficient collaboration among individuals while ensuring effective coordination of existing facilities, equipment, and personnel. This liberation from intensive labor empowers researchers to focus on more critical tasks. Furthermore, the system effectively breaks down the physical barriers within the laboratory, enhancing the efficiency and productivity of both the existing laboratory and production facilities.

Laboratory layout

The software system enables the modeling and construction of laboratory equipment and key areas' layout. This user-friendly solution ensures that users can easily access the relevant information.

Process management

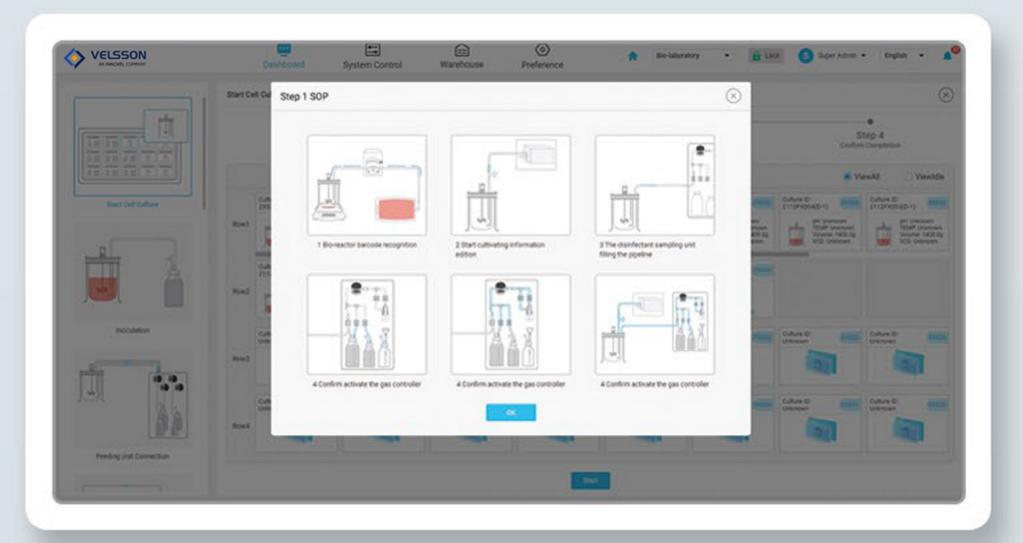
The transition from manual paper-based operations to guided standardized processes facilitates rapid development.

Equipment data management

Equipment data is recorded by laboratory personnel and undergoes statistical analysis and comparison within SLMS.

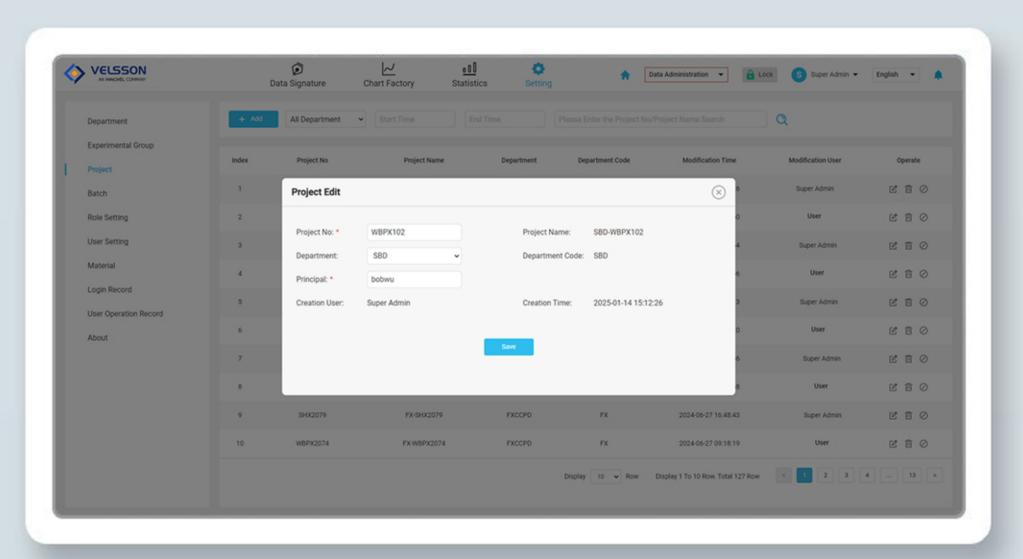
Production batch monitoring

Users can easily access comprehensive lifecycle data and audit trails for production batches, allowing them to have a clear view of equipment and environmental statuses.



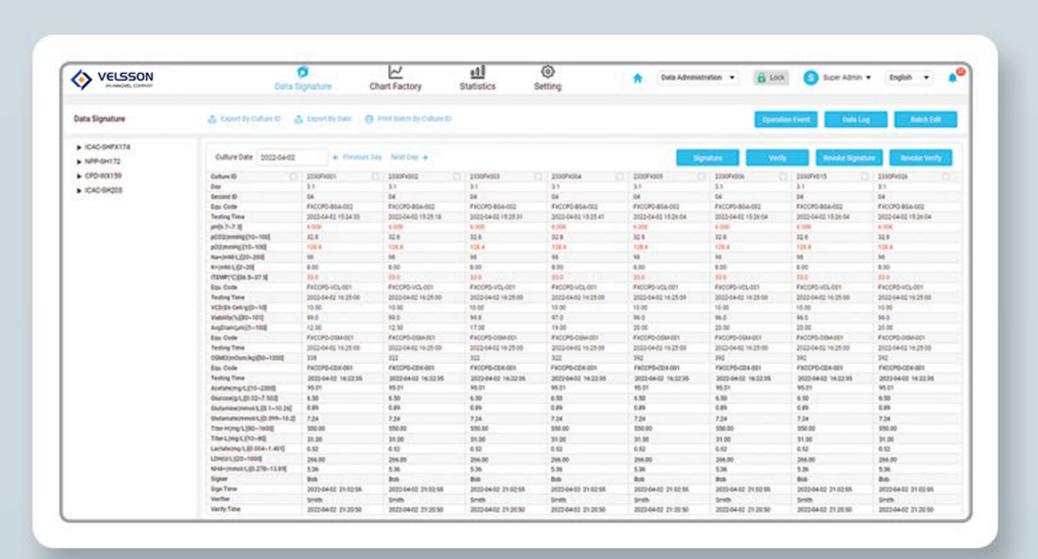
Process guidance

Customized graphical process guidance is provided to ensure users can easily navigate and meet their daily operational needs



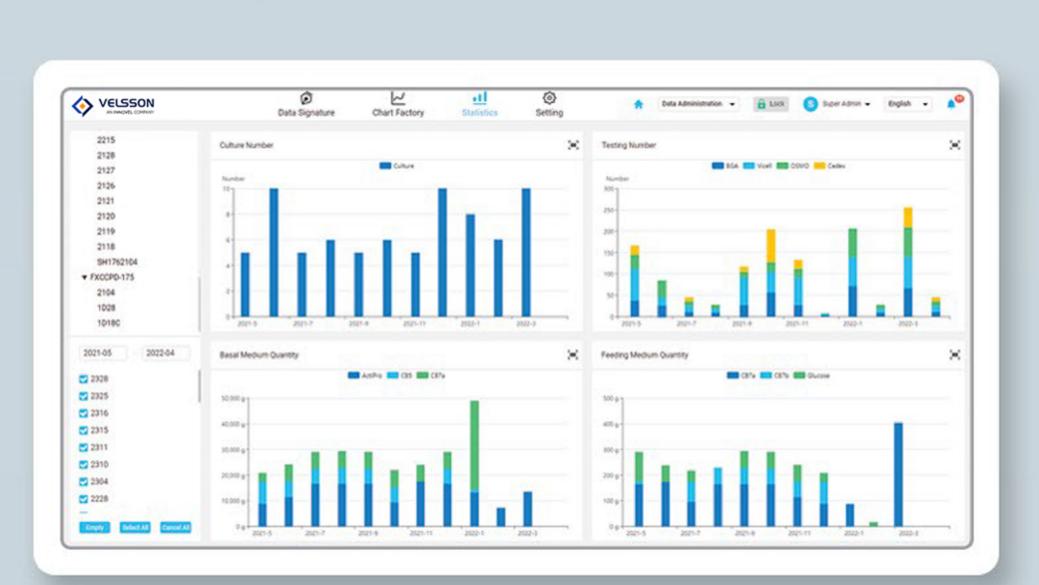
Project management

Efficiently and quickly allocate workloads for personnel and optimize equipment productivity based on their availability and capacity.



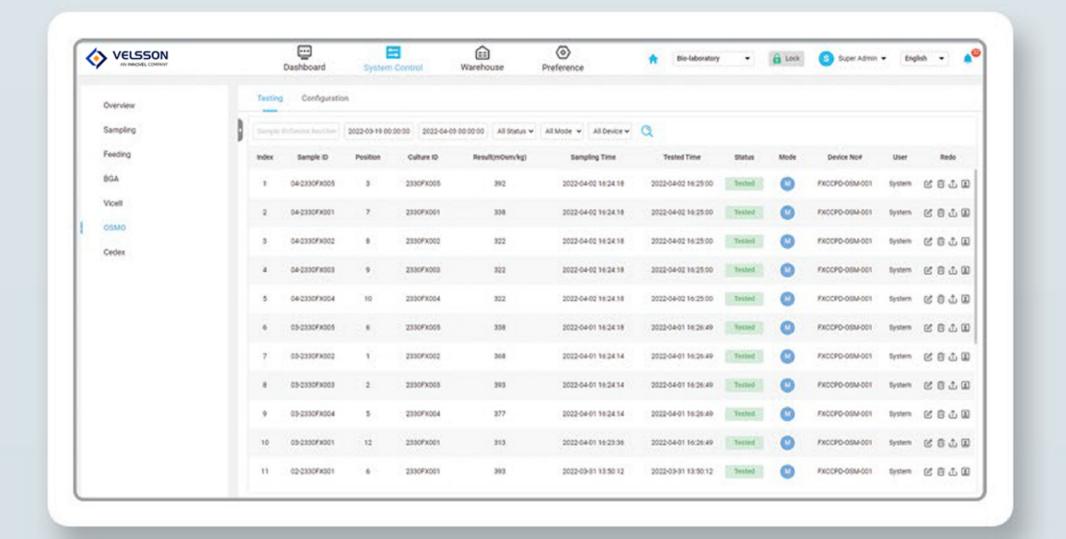
Data auditing

Effective permission control and batch control, along with data review, upload, signing, auditing, graphing, and archiving, fulfill audit requirements.



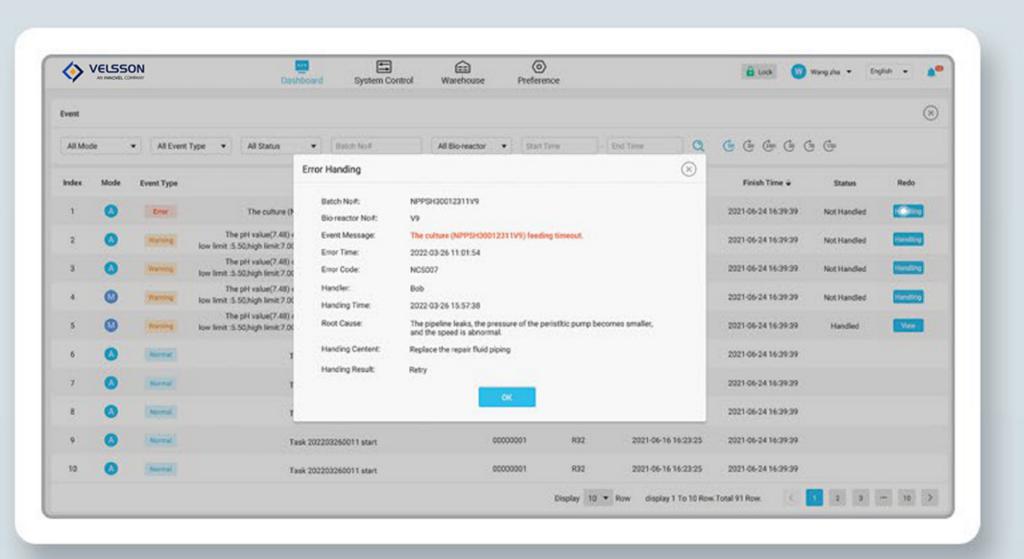
Laboratory statistical analysis

The system allows for the traceability of massive amounts of data, providing statistical analysis, in-depth data mining, and facilitating laboratory forecasting and partial planning work.



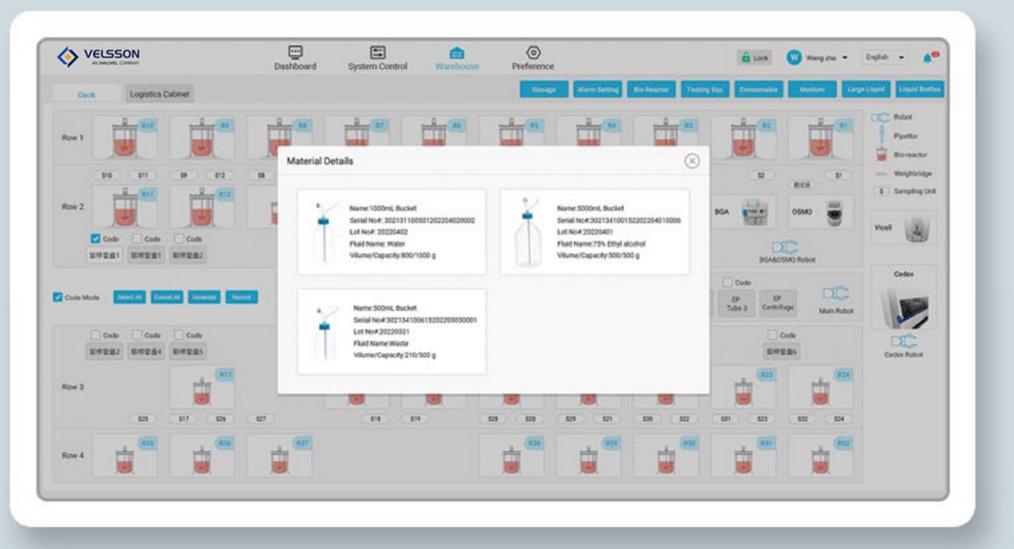
Testing management and analysis.

Smart test devices facilitate sample deployment and offline data capture analysis, while providing standard data interfaces.



Exception management

Complete operation records, comprehensive alarm database, and error resolution solutions assist users in handling exceptions and restoring production.



Material inventory management

Ensuring the circulation, safekeeping, and storage of materials within the laboratory, as well as timely replenishment of consumables.



