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SLA, COWI, Aas-Jakobsen.



## CASE STUDY

# New University Hospital in Stavanger

Efficient management system integration

## Project Summary

The New University Hospital in Stavanger addresses community healthcare needs through functional architecture and sustainable design. This project emphasizes integration and modern medical services, ensuring a lasting positive impact.



### Client

Sykehusbygg, The Norwegian Hospital Construction Agency



### Location

Stavanger, Norway



### Construction Commencement

Started in 2019



### Phase One Completion

Scheduled for completion in 2024



### Total Area

200 000 m<sup>2</sup>

## Overview of the project

The New University Hospital in Stavanger is situated at Ullandhaug in Norway. The close proximity to the University of Stavanger is viewed positively by both students and patients. Phase one is scheduled for completion in 2024 and covers an area of 200 000 m<sup>2</sup> with a budget of 11.2 billion NOK.

The complex architecture of the hospital includes patient rooms, outpatient rooms, laboratories, operating theaters, radiation and intervention rooms, emergency rooms, intensive care, premature rooms, and auditoriums. There was a focus on a compact solution, allowing for movement between the buildings via bridges on the second and third floors.

## Navigating the challenges

### Large-scale project

Managing a project spanning an area of 200 000 m<sup>2</sup> presented significant challenges in terms of overview, organization, and execution. Large projects also involve multiple teams, departments, and organizations.

### Integration of new technologies and methods

Introducing new technologies or construction methods to increase efficiency requires significant changes in current practices. Training personnel, adapting existing processes, and integrating these changes into current workflows is complex and time-consuming.

## Omega 365's role in the project

The New University Hospital adopted the Omega 365's systems in 2015. The project encouraged local companies to bid for contracts. It was during this period that Project Director Kari Gro Johanson, who was already familiar with Omega 365 from previous projects in the oil and gas sector, invited Omega 365 to tender. Subsequently, Omega 365 secured the contract in 2015.

"We have taken all the modules from Omega 365's solution on board," said Johanson.

Omega 365 assisted with the organization and overview of the New University Hospital project. From logging variation order requests and technical deviations to tracking orders, everything was integrated into the system. This promoted a unified workflow, with all reporting taking place within Omega 365.

“ While some people from the construction industry might not be used to such rigid HSE requirements, for us it is paramount that everyone returns home from work safely.

Kari Gro Johanson, Project Director

One key addition to the system was the module Building Information Modeling (BIM), which provided a comprehensive tool for the operational phase of the project.

Johanson elaborated, "We also utilize the Completion module, and last but not least, the Meeting module, including all related actions. When team members open this tool, they see what's important for the week. Everyone has their own personal site where they can add the modules that best suit their needs."

Another essential requirement of the project was following the Health, Safety, Environment, and Quality (HSEQ) standards. This focus was particularly influenced by team members with backgrounds in the oil and gas industry.

Johanson explained, "While some people from the construction industry might not be used to such rigid HSE requirements, for us it is paramount that everyone returns home from work safely."

Omega 365's involvement in the project highlights the software's adaptability and ability to manage complex projects. Its role as a unified project management platform was intended to make the workflow more efficient. The goal was to simplify reporting processes and support a culture of safety and compliance within the project.

## Sustainability in Omega 365

Omega 365 involves a selection of technologies, adherence to environmental standards, and rigorous monitoring of performance. This robust approach ensures that development projects align with sustainability objectives, meeting the demands of even large-scale initiatives.

The commitment to sustainability within Omega 365 also extends to efficient project management. Through careful alignment of planning and execution, the system aims to minimize waste in terms of time, resources, and materials. The goal is to ensure optimal utilization of resources and to significantly reduce both excess and environmental impact.

## Economic aspects of the project

Sykehusbygg actively shaped the development of the project management system to meet the specific demands of the construction sector. Through close collaboration, they provided insights to customize tools, directly addressing construction challenges. This led to more efficient management and a tangible impact on project efficiency, contributing to savings and positive ROI.

The streamlined workflow and coordination facilitated by project management systems ensure that projects stay on schedule. The collaborative environment created by the integrated tools fosters clear communication and efficient decision-making, saving valuable time. By enabling team members to work together effectively, the systems support the complex demands of various projects and contribute to their timely completion.

## About Omega 365

**Company:** Omega 365 Solutions

**Headquarters:** Ølensvåg, Norway

**Mission:** Improving project performance

### Main products utilized in this project:

- BIM and Digital Twin
- Document Management
- Completion Management
- Risk Management
- Contract Management
- Cost Management
- Quality Management

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