

CASE STUDY

NCC enhances efficiency across six projects with Buildots' Performance-Driven Construction Management



172k sqm
(1.8M sqft)
SCOPE



Nummen Koulu



Fredriksberg



Oulu Hospital



Valkeavuoren Kampus



We Land



Riihitonttu

Introduction

Nordic construction company NCC integrated Buildots' AI-powered construction management platform across six projects in Finland. In doing so, it demonstrated a strong commitment to Buildots' performance-driven approach to improving operational efficiencies.

Key challenges

Lacking accurate data, NCC's project teams faced the challenge of precisely assessing progress. It wanted to uncover hidden inefficiencies during the construction process and resolve them as early as possible – before they spiraled into larger problems.



"Buildots allows me to detect wrong installations or model updates at an early stage and provide that information to the trades so they do not keep repeating those errors."

Röppänen Juha, Site manager, Nummen Koulu | NCC

The solution

By adopting Buildots' AI-powered progress tracking and predictive analytics, NCC's project teams were able to address issues proactively and prevent delays that could have derailed project timelines. The following examples illustrate how NCC managed to achieve this.

1

Design coordination at Nummen Koulu

At Nummen Koulu – a school renovation project– design teams used Buildots' data to coordinate models. On multiple occasions, the platform flagged incorrect installations that didn't match the model. This enabled NCC to make targeted interventions to rectify discrepancies and reduce rework – or update models to ensure they remained accurate.

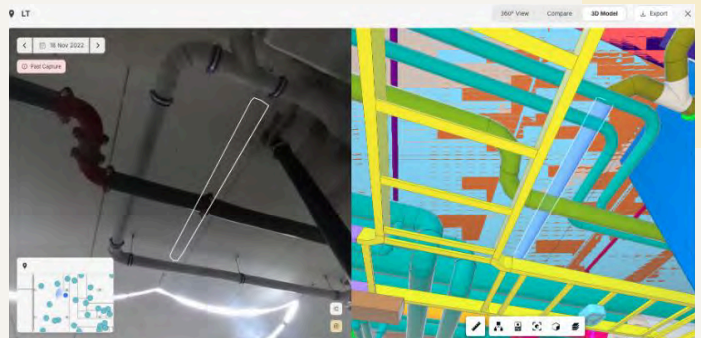


When notified of an incorrect installation, Nummen Koulu's team would either adjust their models or flag the error to the relevant trade for correction.

2

Early discrepancy detection at the Frederiksberg office building project in Helsinki and the Oulu Hospital

NCC compared Buildots' real-time progress data with its original plans and models to spot loose ends (incomplete work) and deviations before they were overlooked or repeated. This method reduced activity sequence disruptions, demolitions and return visits – ultimately preventing project delays.






After being alerted of the incorrect positioning of a pipe, Oulu's project teams readjusted the installation before the error could snowball

3

Productivity boost at Valkeavuoren Kampus, Oulu and WeLand

NCC used Buildots' progress data to compare each subcontractor's completion rates and work pace to weekly plans. Armed with those insights, managers could:

-  Hold trades accountable, verify critical milestones, and allocate more resources.
-  Boost weekly Plan Percent Complete ratios over time and minimize any disruptions.
-  Analyze pace risks for key activities on a bi-weekly basis and communicate those insights to the trades and project leadership.



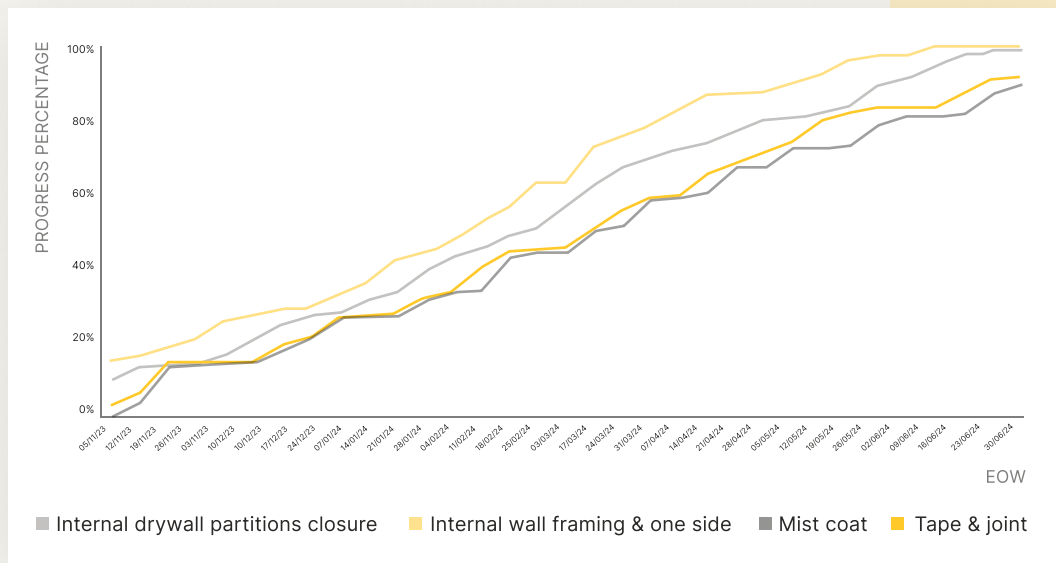
"With Buildots, I can verify completed works and see if something is done or not. I don't have to run to the site every time. Plus, I'm able to understand how fast we advance each week and monitor the pace, output, and performance of my trades"

Jonne Maunu, HVAC Engineer, Oulu | NCC



“We use Buildots to detect unfinished work and hidden issues. The trades can also monitor their work this way and act quickly”

NCC Frederiksberg project team



At Valkeavuori Kampus, completion ratios of key activities are steadily increasing over time as bottlenecks are eliminated and sequence disruptions minimized.

The outcomes

Implementing Buildots' platform and a performance-driven construction management approach supported NCC in managing project resources efficiently. Using objective data to monitor trade weekly performance and project progress, NCC:

➔ **Boosted productivity rates** ➔ **Reduced errors** ➔ **Slashed delays**

In addition, the platform facilitated collaboration during weekly reviews, short-term work planning, and real-time design coordination, making sure all stakeholders adhered to project specifications and timelines.

Explore more case studies ➔

About Buildots

Buildots, an award-winning leader in construction technology, leverages AI and computer vision to upgrade traditional project management methods, introducing a performance-driven approach to managing construction projects. Our platform automatically generates accurate, unbiased data and actionable metrics crucial for strategic decision-making. Enhancing visibility and control for site teams and management alike, Buildots sets new standards for efficiency and productivity, effectively minimizing delays and ensuring projects are completed on time and within budget.



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