

CASE STUDY

# How Sir Robert McAlpine and Vinci's JV Harnessed AI to Improve Collaboration and Efficiency



**24,000**  
SQM



**2,300**  
ROOMS



**£200m**  
TOTAL PROJECT  
VALUE

### OPPORTUNITY

- Enhance weekly planning
- Improve trade monitoring
- Minimise delay risks
- Prompt issue detection

### SOLUTION

- Automated progress tracking
- Single source of truth
- Data-based weekly plans

### RESULTS

- Increased weekly plan completion
- Accelerated progress
- Improved forecasting
- Fewer disputes

This case study delves into how Buildots' advanced AI technology greatly increased on-site efficiency, streamlined subcontractor activities, and successfully facilitated real-time adjustments to work plans. This enables IHP, a JV between SRM and Vinci, to achieve enhanced time and cost efficiency on the Royal Bournemouth Hospital for the new BEACH Building.

Four key areas were identified for improvement, each one presenting an opportunity for IHP to optimise overall productivity on site.

#### Weekly Plan Optimisation

Boost weekly goal achievement with Buildots Plan Tracker, helping IHP to increase success rates in meeting short term objectives.

#### Delay Risk Mitigation

Identify areas along the critical path that deviated from the programme, resulting in forecasted end dates for those areas being brought forward.

#### Forecasting Capability

Improve their forecasting ability, allowing the team to set more realistic targets and deadlines.

#### Subcontractor Collaboration

Reduce disputes with subcontractors due to accurate and objective data, helping to improve collaboration.

### CLIENT SPOTLIGHT

## Integrated Health Projects (IHP)

IHP, a leading provider of healthcare construction solutions, is an integrated joint venture between VINCI Construction UK and Sir Robert McAlpine. IHP is delivering a new ~£200m, 24,000 sqm extension at the Royal Bournemouth Hospital for a BEACH unit (Births, Emergency Care, Critical Care and Child's Health) on behalf of University Hospitals Dorset NHS Foundation Trust (UHD). **IHP utilise Buildots' Technology to help provide the best value for money for the taxpayer, generating weekly time savings and offering powerful insights to mitigate delay risk and safeguard the critical path.**



*"Buildots' Plan Tracker has transformed our weekly planning meetings. It enables us to set plans based on the project's real-time status and track completion rates effectively. It significantly enhanced our planning and tracking process as well as collaboration with our trades"*

**Lee Howlett** Planner | IHP



*“There is no doubt about it; having Buildots has by far saved 2-3 person days per week to gather the progress data for review in collaborative meetings and input into the monthly reports.”*

**Lee Howlett** Planner | IHP



## STAYING AHEAD OF CHALLENGES

### Boosting Proactive Behaviour

Mindful of on-site complexities and numerous stakeholders involved, IHP recognised the challenge to monitor both progress and trade activities. Traditionally reliant on time-consuming site walks and third-party updates that are prone to errors, the company utilise Buildots AI-driven data processing capabilities as a comprehensive solution to enhance data accuracy, reduce delay risks and eliminate errors before they escalate, resulting in greater site efficiency overall.

### Using Automation To Enhance Productivity

Buildots' AI technology automatically captures and analyses the project's progress data and compares it to the design and schedule. Using the system's automated progress tracking capabilities, IHP was able to utilise Buildots' Plan Tracker feature to create data-driven weekly work plans. The AI-powered tool ensured:

- Data Accuracy And Efficiency**  
 Automated tracking reduced reliance on manual processes and minimise human error.
- Delay Risk Mitigation**  
 Buildots estimated the expected delivery date based on average pace and identified activities that were blocking the sequence of works. Labour was then reallocated to bring forward the forecasted end dates which reduced predicted delays along the critical path.
- Collaborative Environment**  
 The tool facilitated trust based relationships with subcontractors, with full transparency on progress tracking and short term planning.
- Enhanced Forecasting**  
 Predictions made from automated progress tracking allowed for proactive and data-driven planning to ensure deadlines were met.



*“We're proud to be the first NHS transformation project embracing Buildots smart technology in order to efficiently track build progress compared with design and schedule to help ensure we remain on course.”*

**Bruce Preston** Project Director | IHP



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## Connected Construction

Buildots empowers true Connected Construction. Our AI-based technology gives construction companies the power to stay connected with what's happening on-site. Wearable 360-degree cameras automatically capture every element. The data is compared with the original design models and schedules to provide an accurate, objective status, giving construction companies complete visibility and control. One central platform connecting all aspects, connecting you straight to reality. Welcome to construction as it should be.