



CASE STUDY

Hawkins NZ enhances construction safety and efficiency at Auckland Airport

Timescapes supports Hawkins in navigating the complexities of airport construction with precision, transparency, and accountability.

Company:

Hawkins is one of New Zealand's leading construction companies with a strong track record of delivering complex projects across commercial, infrastructure, and institutional sectors. Its commitment to safety, innovation, and collaboration has earned it recognition as a trusted partner in the construction industry.

Location:

New Zealand

Firm Type:

General Contractor

Primary Industry:

Commercial & Infrastructure

Client Since:

2019

Challenges

Hawkins' project at the Auckland Airport involves the construction of a new domestic terminal and all supporting infrastructure. Coordinating input from diverse stakeholders—including airport authorities, contractors, and project partners—is critical to keeping the project on track within a fully operational airport environment.

With the airport's daily operations in full swing, minimising disruption to passengers and staff requires meticulous planning and execution across teams. Safety is paramount in such a high-traffic area, as is compliance with strict operational regulations.

“With multiple contractors and stakeholders involved in a live airport environment, maintaining clear communication and visibility is a necessity.”

Joe Burke, Project Manager, Hawkins

Solution

Auckland Airport requested the use of Timescapes cameras by Hawkins, based on the platform's proven track record on earlier airport projects. Timescapes' continuous image capture capabilities provide Auckland Airport, Hawkins, and other stakeholders with up-to-date visual tracking of progress, reducing the need for on-site visits.

With Timescapes, Hawkins overlays 3D Building Information Modeling (BIM) designs onto live images of the project, ensuring alignment between the physical build and the design plan. Automated visual data collection and reporting eliminate manual tracking, allowing the team to monitor progress on site efficiently.

“Timescapes gives us the tools to bring everyone onto the same page, whether they are on-site or off-site. The intuitive interface and robust analytics capabilities make it a game-changer for monitoring progress and ensuring accountability at every stage of the project.”

Christian McCartney, Technology Systems Lead, Hawkins





Implementation

Hawkins integrated Timescapes into the project early on, strategically placing cameras to provide comprehensive coverage across the site. Despite the complexities of working in a live airport environment, the solar-powered cameras were quickly installed and operational.

The Timescapes team provided hands-on training to Hawkins staff, ensuring they could gain maximum value from the platform's features, including timelapse creation, live zoom functionality, and analytics reporting. By extending limited access to subcontractors, Hawkins also fostered a culture of transparency and collaboration while maintaining control over sensitive project data.

"Timescapes is so easy to use that we can train someone in two minutes, and they're up and running. This simplicity drives quick adoption," said Christian.

"One of the key reasons we chose Timescapes was its ease of installation and maintenance, based on our previous experience. On top of that, we were impressed by its user-friendly interface, which is intuitive and simple to navigate—a must-have when rolling out to multiple construction users."

Dinesh Jayasekara,
Construction Operations Manager,
Auckland Airport

Key Stats

7

cameras
deployed

5 min

image capture
intervals

200+

active users, across
all project teams

Outcomes

1. Enhanced Collaboration and Stakeholder Trust

Timescapes transforms how Hawkins collaborates with stakeholders, providing a “single source of truth” that unifies everyone around a shared visual reference.

“Having this shared platform improves communication and collaboration. It provides a single source of truth that builds transparency and trust between the main contractor, client, and consultants.”

Dinesh Jayasekara, Construction Operations Manager, Auckland Airport

This real-time visibility into project progress means stakeholders, both on-site and remote, can access consistent and accurate updates, eliminating discrepancies and ensuring alignment across the board.

“Most of our coordination meetings have Timescapes up on the screen. It saves time explaining issues—everyone sees the same thing, at the same time.”

Joe Burke, Project Manager, Hawkins

2. Time and Cost Savings

The platform’s remote progress monitoring capabilities and automated data tracking reduces the need for frequent site visits and manual reporting, delivering measurable time and cost savings.

“Once the cameras went up, we saw immediate benefits in tracking progress, responding to incidents quickly, and improving supervision—even when working remotely.”

Dinesh Jayasekara, Construction Operations Manager, Auckland Airport

For example, project teams can monitor construction traffic congestion on the roads around the airport and address any issues before they cause a problem to airport or passenger flow.

Project stakeholders validate progress claims and resolve disputes faster, saving countless hours of investigations. Automated reporting further streamlines operations by eliminating manual tracking tasks, allowing the team to focus on more critical aspects of the project. The combination of these efficiencies ensures that the program stays on schedule, even while adapting to the unique demands of a live airport project.

“Rather than sending someone out daily to take photos, Timescapes automates everything. It’s like an insurance policy—nothing gets missed.”

Christian McCartney, Technology Systems Lead, Hawkins



3. Improved Safety and Incident Management

Safety is a top priority in live airport projects, and Timescapes plays a key role in safeguarding workers and passengers alike. The platform's high-resolution footage provides Hawkins and Auckland Airport with the ability to review near misses and incidents, identify root causes, and swiftly implement corrective measures.

“The cameras gave us the visibility to identify safety concerns early and implement corrective measures without delay. By reviewing footage of potential hazards, we can make proactive changes that improve safety for everyone.”

Dinesh Jayasekara, Construction Operations Manager,
Auckland Airport

For instance, when a safety lapse involving a subcontractor occurred, the team quickly accessed time-stamped footage to analyse the incident, enabling them to address the issue effectively and prevent future occurrences.

“We had an incident involving a crane lift while unloading a truck. Reviewing the footage helped identify the issue, inform decision-making, and ensure it doesn’t happen again.”

Dinesh Jayasekara, Construction Operations Manager,
Auckland Airport

This real-time visibility enhances safety planning and ensures compliance with the airport’s stringent operational regulations. The team also uses Timescapes during toolbox talks and monthly safety awards to highlight real-life examples of safety practices and risks, fostering a proactive safety culture across the project.

4. Precision in Planning and Execution

By integrating real-world visuals from Timescapes with 3D design models in BIM, the team gains clear, actionable insights into the construction process without requiring expertise in 3D modeling. This powerful combination allows them to visualise the project in context, identify potential clashes between the design and physical build, and address issues proactively before they escalate.

This enhanced alignment between design and execution ensures that construction proceeds smoothly.

“The BIM overlay is such a powerful tool. Seeing the foundation layout against live site imagery saves time and improves planning for piling and other trades.”

Joe Burke, Project Manager, Hawkins

5. Optimised Resource Management and Logistics

Timescapes provides Hawkins with an unprecedented level of visibility into the movement of critical resources, including concrete trucks, equipment, and personnel on-site. This real-time monitoring streamlines operations, reduces waste, and allows the team to verify deliveries, track equipment usage, and optimise scheduling.

“The ability to monitor truck movements, weather conditions, and on-site activity saves countless hours compared to manual tracking or gate logs. For example, we could see exactly when concrete trucks arrived and whether they were being used efficiently.”

Joe Burke, Project Manager, Hawkins

What's Next for Hawkins NZ & Timescapes

Recognising the platform as more than just a monitoring tool, Hawkins aims to integrate Timescapes further into its workflows, using advanced analytics and real-time project management integrations to enhance decision-making and improve safety.

"It's hard to imagine running a project without Timescapes now. Everyone uses it daily—it's just part of how we work," said Joe.

"This project proved that Timescapes isn't just a progress monitoring tool—it's an operational asset that drives efficiency, collaboration, and safety. As we look ahead, we're excited to take what we've learned from Timescapes and apply it to even more ambitious projects."

Christian McCartney, Technology Systems Lead, Hawkins

Experience Timescapes today

Timescapes' visual progress tracking technology is quickly becoming the standard on all top construction sites globally. Over 100 leading construction companies on over 400 projects in New Zealand, Australia, and Canada are using Timescapes to make better-informed decisions to lower costs, reduce schedule delays, mitigate risk, and engage stakeholders across the construction project.

For more information and to learn more about Timescapes, visit timescapes.co.

