



AUCKLAND AIRPORT

PROGRAM CONSTRUCTABILITY OPTIMISATION

Client: Auckland Airport International

Location: Auckland, New Zealand

Value of services: Confidential

Project lifecycle stage: Delivery

Duration: 2025 (8 months)

At a glance: Auckland Airport is undertaking its biggest redevelopment since the airport first opened in 1966, consisting of significant transformation of its assets with capital works program of \$5.7 Billion NZD to upgrade terminals, the airfield, and transport networks on a long-term program through to 2032.

Objectives

Auckland Airport was seeking to establish and maintain a sustainable and efficient project delivery framework for its capital works program, establishing sustainable systems and processes for the management of projects through development, delivery and operationalisation from both a technical and commercial perspective.

Our services

To assist Auckland Airport in successfully delivering its capital works program, SmedTech was engaged to support the airport's project delivery team in reviewing the capital works program and assisting the airport in identifying opportunities to optimise the program of work - which constituted approximately 90 separate projects that were in the pipeline at the various stages of development from conceptualisation through to delivery.

As part of our engagement, we worked with the airport's project delivery team, a constructability advisor and the airports individual project teams to develop a tailored methodology and framework to assess the planned delivery of works. In this role, we:

- Established a program-wide procurement and delivery schedule, including program wide critical path.

- Established and implemented a framework to identify the critical projects that had an ability to materially influence the airports overall program of works and its overall objectives. This allowed us to filter the 90 projects that make up the capital works program, to distinguish between critical projects and business as usual projects.
- Applied a risk-based approach to assess and evaluate the risk profile of each of the 27 critical projects identified, including the identification of key risks and opportunities to optimise the overall program.
- Conducted an operational assessment to ensure continuity of airport operations during construction.
- Reviewed the program-wide management processes for tracking and reporting progress to identify opportunities for continuous improvement.

Our impact

SmedTech's review culminated in a series of strategic recommendations to improve procurement, delivery efficiency and risk management. These findings provided Auckland Airport with a clearer, more robust pathway for advancing its planning, operations, and program execution of the major investments being made through the projects.