

Digital engineering at Waka Kotahi

By Andrew Field

The transport sector faces several challenges that impact the priorities for investment and long-term asset planning: on one side there are rising operational and capital works costs, sea level rise, natural hazards. From a policy perspective there is a growing awareness of the need to provide safe and effective travel options that reduce carbon emissions and connect communities together.

Combining innovative digital processes with reliable asset information gives network planners, asset managers and delivery managers new ways to assess these demands, make informed decisions to deliver targeted improvements efficiently. For Waka Kotahi NZ Transport Agency, both the Asset Management Data Standard (AMDS) and Digital Engineering practices provide the foundations for future-focused, digitally capable asset management.

Beca has been assisting Waka Kotahi and their delivery partners to articulate a clear vision for the adoption of digital engineering across the service lifecycle of transport assets. The goal is for the agency to be fully digital from business case through delivery and operations. This presentation will provide an overview of the journey the agency has been on, where it is going and how this effort aims to inspire a new generation of professionals to enter the transport sector.

Bio - Andrew Field

Andrew is an experienced Project Director, Digital Transformation lead in the construction sector; supporting the digital enablement of delivery practices on major utility and transportation projects. Assisting clients to connect their asset management strategies to their information management processes; supporting decision-making for better outcomes for asset owners and their customers.