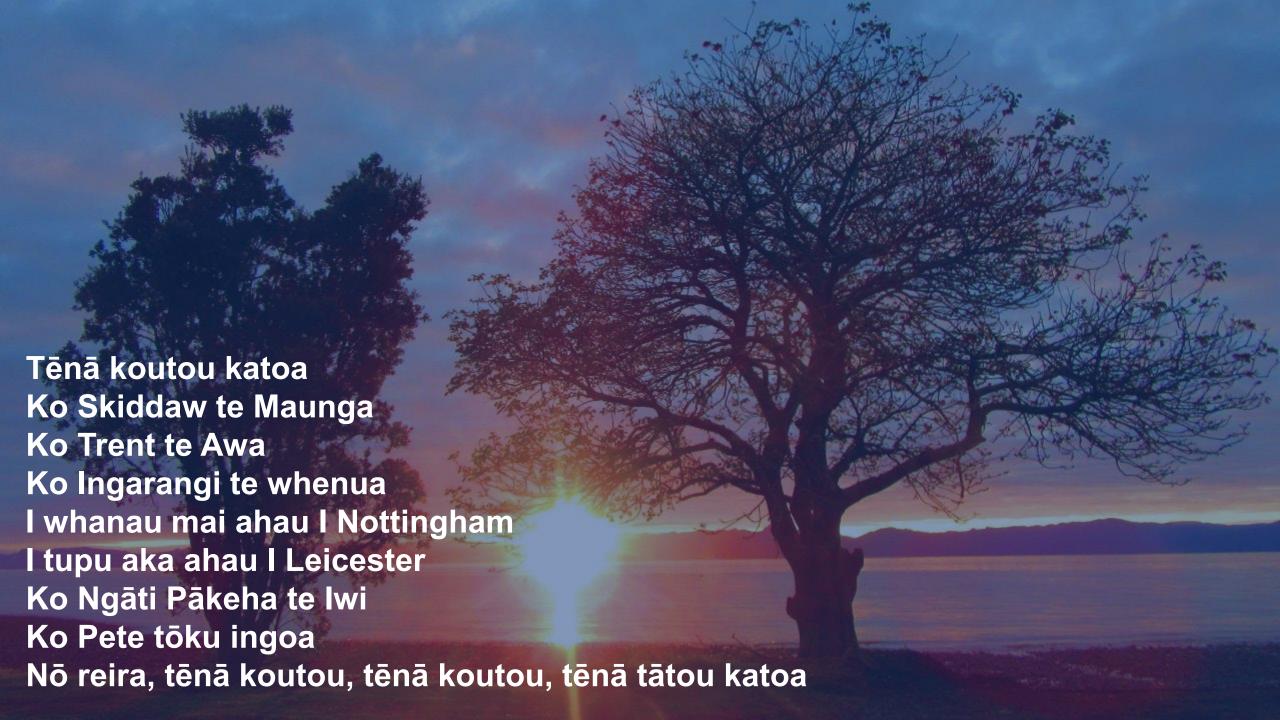


Digitisation and Business Intelligence Supporting Affordable Water Reform

Pete Brooks
Associate Director – Water Engineer
AECOM



Water
NEW ZEALAND
CONFERENCE & EXPO
17-19 OCTOBER 2023
Täkina, Te Whanganui-a-Tara Wellington



Session Structure

- 1. Context
- 2. Enablers of Digital Transformation
- 3. Focus Areas for Digital Transformation
- 4. Case study







1. Context





Definitions

'Digital' means how people use electronic technology to create, organise and process information. Digital is a way of doing things.

'Digital Transformation' is a process by which we embed and integrate technology to drive fundamental change in how we do things.

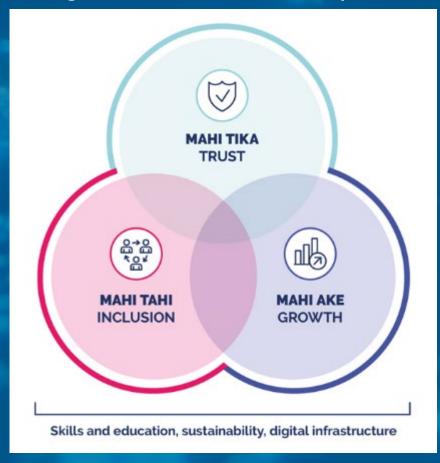
By investing in the right digital transformation enablers, organizations can improve operations, create new value for customers, and gain competitive advantage.

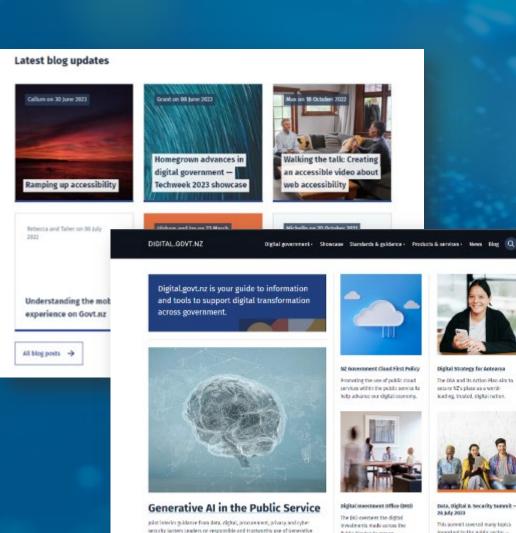




Enablers of Digital Transformation

NZ Digital Government Initiative | Connected Themes





Artificial intelligence (Gentil) across the New Zealand Public Service.

The 05A and its action Plan aim to

Data, Digital & Socurity Summit -

This waren't covered many topics

important to the public sector -

doud, cyber security, artificial.

Intelligence, digital skills and more.

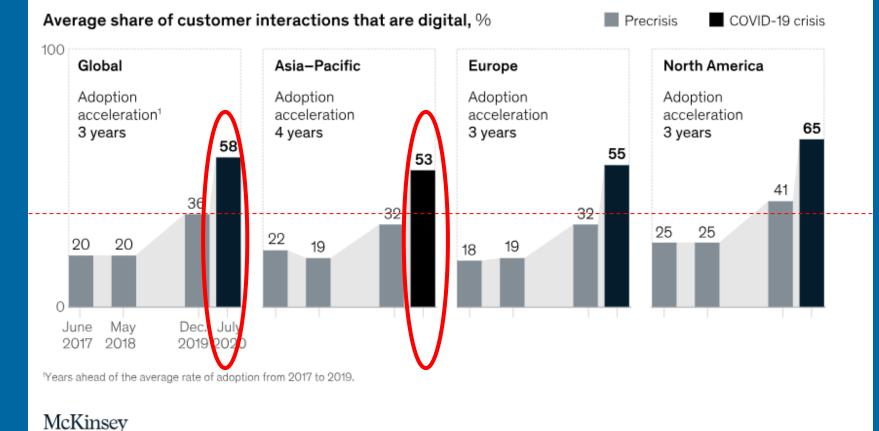
Public Service to ensure

lowstream are efficient and support government outcomes secure NZ's place as a world-

leading, trusted, digital nation.

Covid-19 Digital Customer Acceleration

The COVID-19 crisis has accelerated the digitization of customer interactions by several years.



& Company

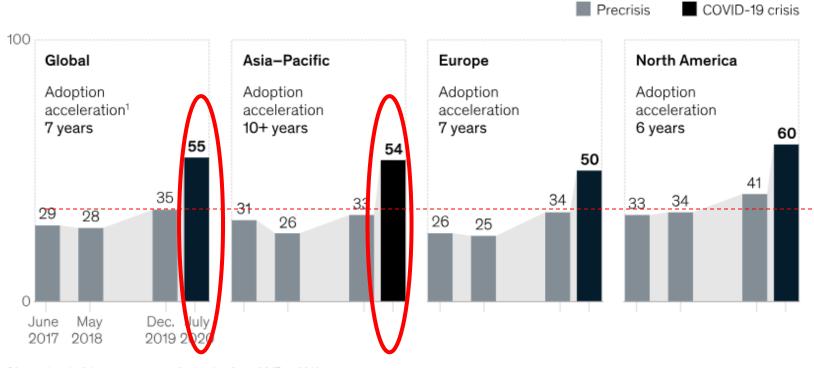




Covid-19 Digitization Acceleration

Across business areas, the largest leap in digitization is the share of offerings that are digital in nature.

Average share of products and/or services that are partially or fully digitized, %











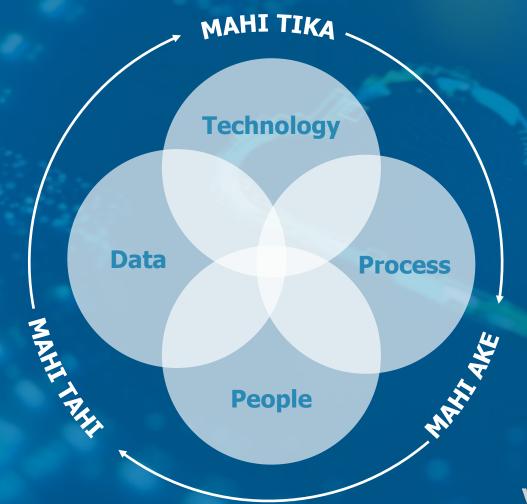


2. Enablers of Digital Transformation

Blackberry phone Curve 8530 – 2009



Enablers of Digital Transformation







Examples

Cloud Computing

- Satellite-based leak detection solution Link
- Cloud-Based Asset Management Solutions Link
- Cloud Contact Center Platform Link

Digital Skills & Training

Use of GenerativeAI (ChatGPT) Link





Examples

Artificial Intelligence

- PipeInsights Link
- Landuse mapping Link
- Tools for Mathematics Link

Data Management & Accessibility

PlanEngage - Link







iPhone 3G S 2009

3. Focus Areas for Digital Transformation









Strategic alignment, objectives and investment











Data Strategy and management









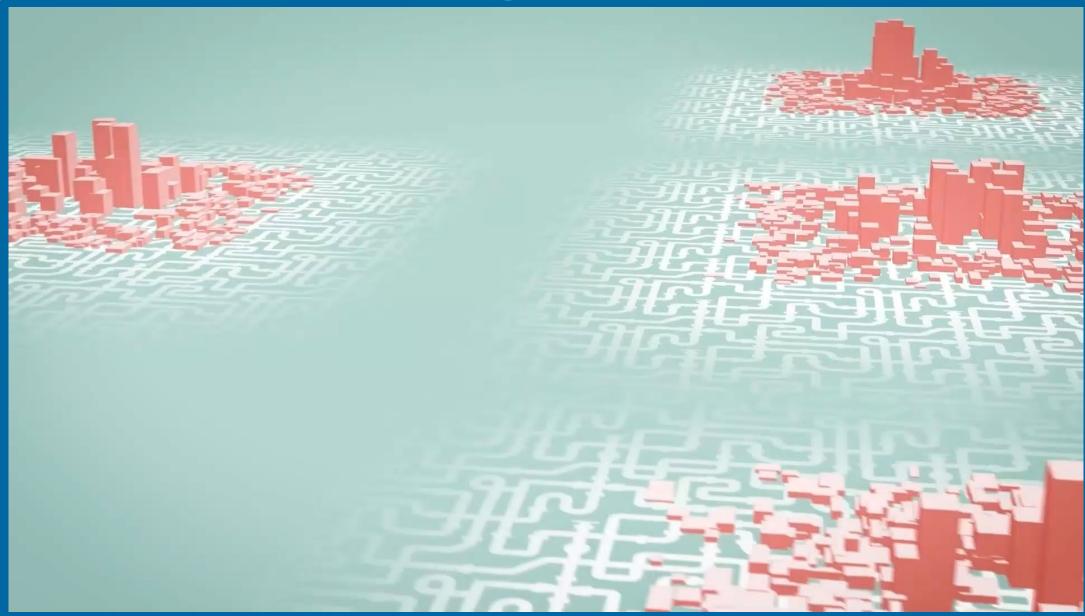








Smart water and digital investment





Community engagement and education





















Sustainability and environmental impacts















Continuous improvement and change management







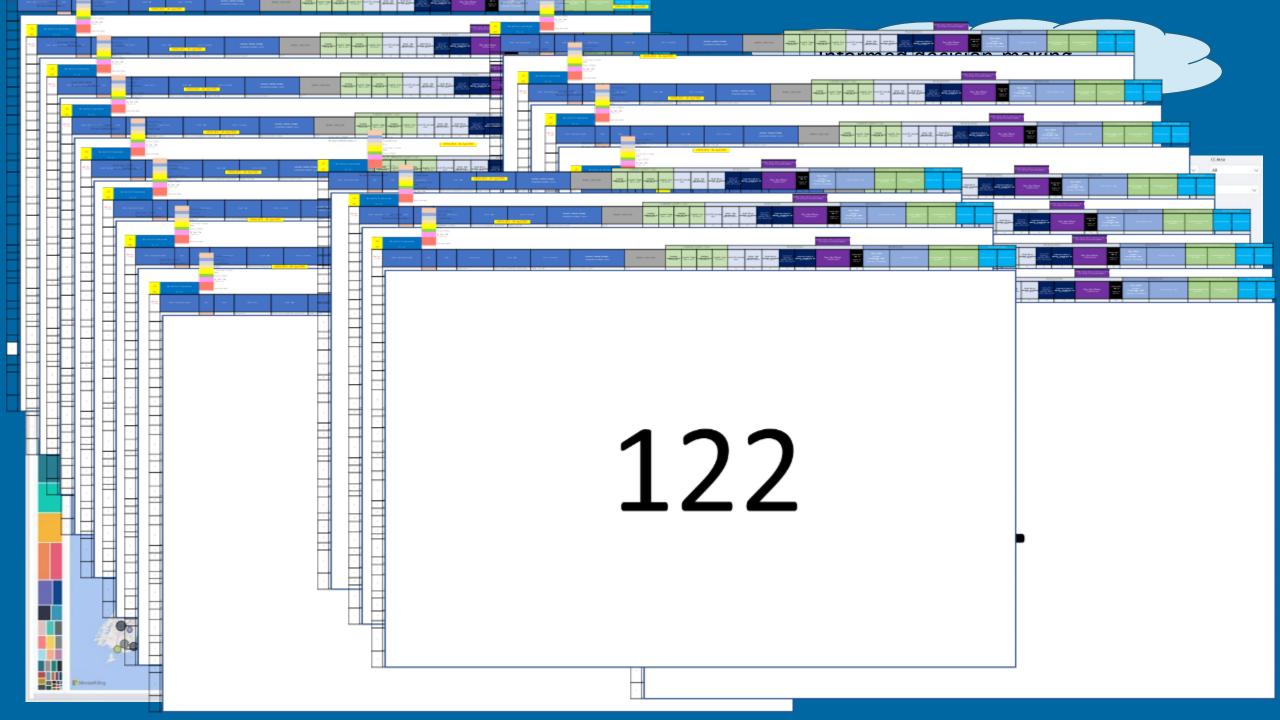




Samsung Galaxy S8 2017

4. Case study





What does Digitisation and Business Intelligence bring to water reform?



Summary









Thank you and acknowledgments



