Data Sharing to Enable Business at the Speed of Customer

Delivering digital engineering for land transport
Industry 4.0

To decide our future or be sold what is available

A radical reshaping of processes and behaviours, across business and throughout social interactions
Driving into the digital dimension

Working together is key . . .

Open harmonised datasets

Resilience & productivity gains

Service and demand insights

Reduced customer frustration

Improved processes & decisions

The Digital Steering Wheel
Ensure we are gearing NZ’s land transport assets for the best possible future.
Getting with the lingo is Standard business

- A national asset data language
- Ontological Model
- Developed in partnership
- Consider ease of maintenance, implementation → BAU
A Plan to Deliver Enhanced National Outcomes

AMDS PROJECT SCOPE

NATIONAL DATA STANDARD
DATA QUALITY ASSURANCE TESTING
ASSET MANAGEMENT SYSTEMS
ONE NETWORK PERFORMANCE FRAMEWORK
CONSISTENT EVIDENCED INVESTMENT
IMPROVED CUSTOMER OUTCOMES

REG PROGRAMME SCOPE

REG VALUE CHAIN

IMPROVED NATIONAL RESILIENCE
INTEGRATED SPATIAL ANALYSIS
3D & BIM DESIGN TECHNOLOGY
NATIONAL INVESTMENT PIPELINE
SMART PROCUREMENT
ENHANCED NATIONAL OUTCOMES

DEFeT VALUE CHAIN
Transport corridors are busy places
Leverage technology to deliver safest, most productive transport corridors

(Re)Development  Fibre

Electricity
Abandoned gas main

Creek in culvert

Sewer

Transport data
Storm water
Catch pit
Water main
Proposed water main

Location Referencing
- Stats NZ, LINZ, DIA
- NTSC & NZTA

Gas main
Data as an Asset (D3A) - Standards pave the way

Better asset and service decisions and outcomes for all New Zealanders

Benefits of AMDS for Land Transport

- Remove wasted, duplicated effort
- Improve process efficiency
- Improve customer service
- Improve transport information quality
- Provide structure for consistent records
- Improved asset management decisions
Integrated Decisions

Integrated Spatial Analysis

• UK Govt 2017 Report – Greater data sharing £15B
• Spatial Layering clean, complete data sets
• National procurement, regional delivery pipelines
• Example: Public transport choices, drivers licence numbers, unemployment rates?
• Example: Traffic flows, education levels, children's health?
• Provides insight, smarter investment, better community outcomes
Enhanced data capture

To smooth the road ahead
As we approach implementation . . .

Business Case

• Success involves partnership
• Local financial planning processes
• Local funding/resourcing challenges
• Existing groups and partnerships
• Sector needs and challenges will vary

“Who votes to give this case to Bernard, too?”
Thank you

amds@nzta.govt.nz
www.nzta.govt.nz/amds