

REAAA[®]

Driving Progress

ROAD ENGINEERING ASSOCIATION OF ASIA & AUSTRALASIA (NZ)

Design and Testing Protocol for Local Authority Networks

JAIME CLARK



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Local Road Controlling Authorities

LOW
VOLUME
ROADS
WORKSHOP
2022



WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

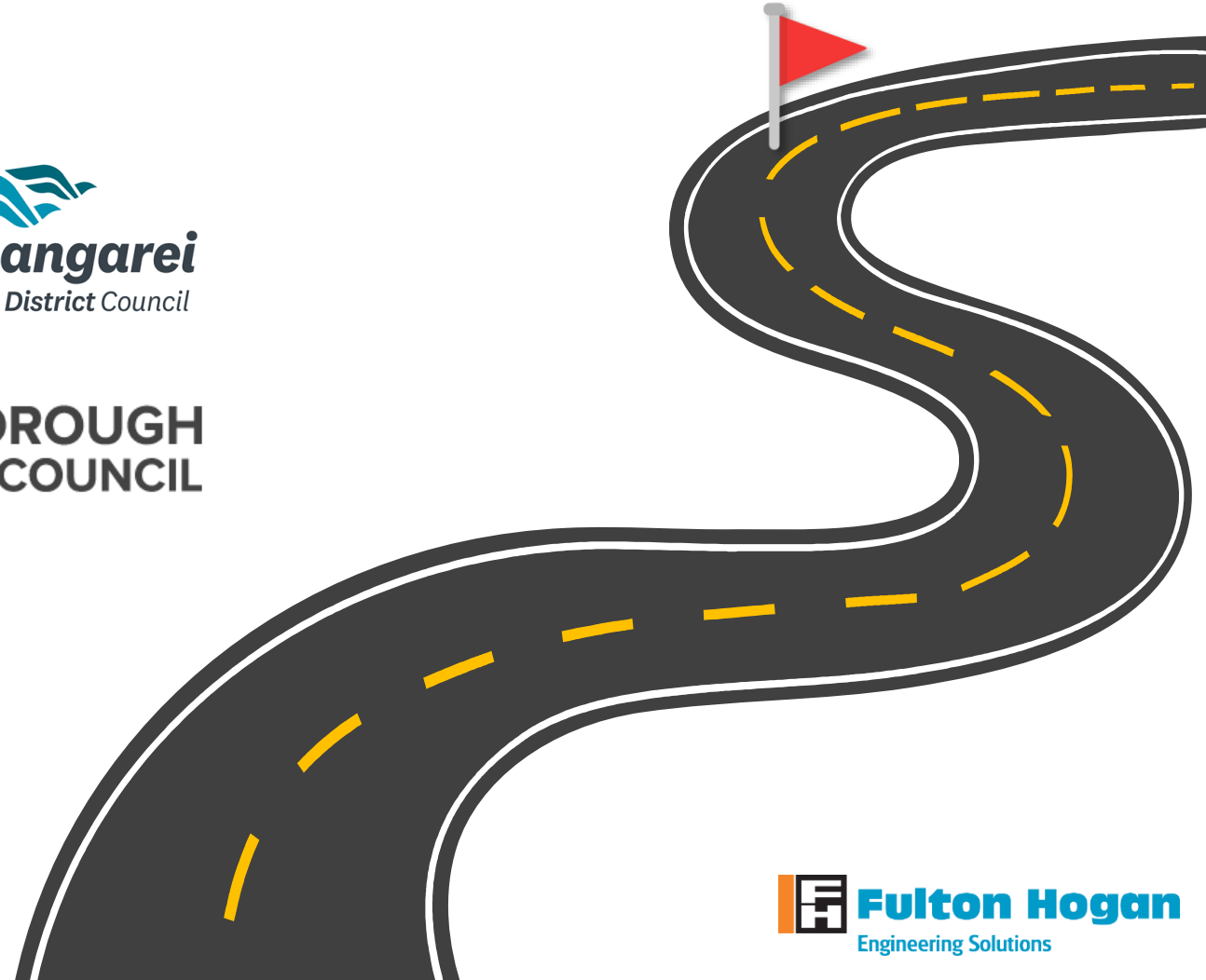


Te Kaunihera-ā-Rohe o Ngāmotu
New Plymouth
District Council

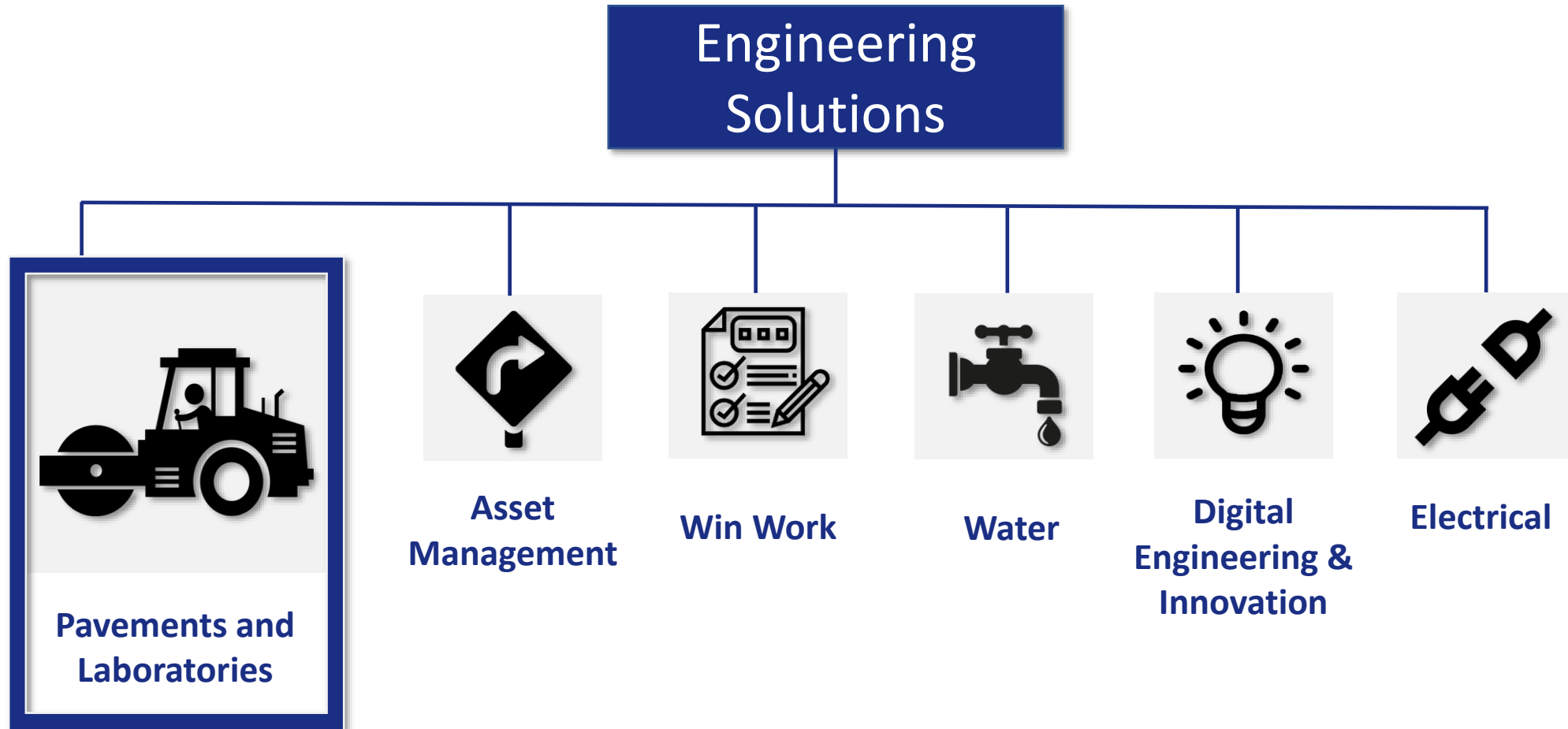


And many more....

How can we help?



Introduction



Pavements and Laboratories

**LOW
VOLUME
ROADS
WORKSHOP
2022**



**Product
Development**



**Aggregates,
Bitumen and
Asphalt**



**Pavement and
Material Quality**



Technical Service



**Training and Industry
Representation**

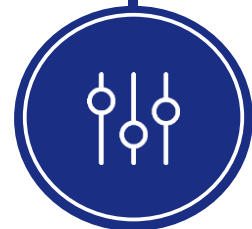
Background



- Pavement design work
- Rehabilitation and Seal Extensions



- Waka Kotahi & Local Authority contracts



- Various other pavement related works
 - Heavy duty pavements and ports
 - Construction monitoring
 - Construction quality processes

Challenge

- 2017 introduction of “Rehab Guide”
- Document adopted by some LA contracts
 - Not well suited for lower traffic roads
- Investigation process can be drawn out
- Extensive testing requirements
- Process leads to ‘bulletproof’ treatment

New Zealand guide to pavement evaluation and treatment design

Martin Gribble

21/8/2018

VERSION 1.2



 NZ TRANSPORT
AGENCY
WAKA KOTAHU

New Zealand Government

LOW
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Our solution: Design and Testing Protocol

*Implemented on contracts
held by Fulton Hogan*

*Protocol provides
direction*

*Refined summary of
Rehab Guide*

*Agree process
with relevant parties*

Risk based approach



What's different?



Test pits

- Frequency reduced
- Target problem areas



Lab testing

- Targets best value for money testing
- Utilise knowledge of local materials



Visual inspection

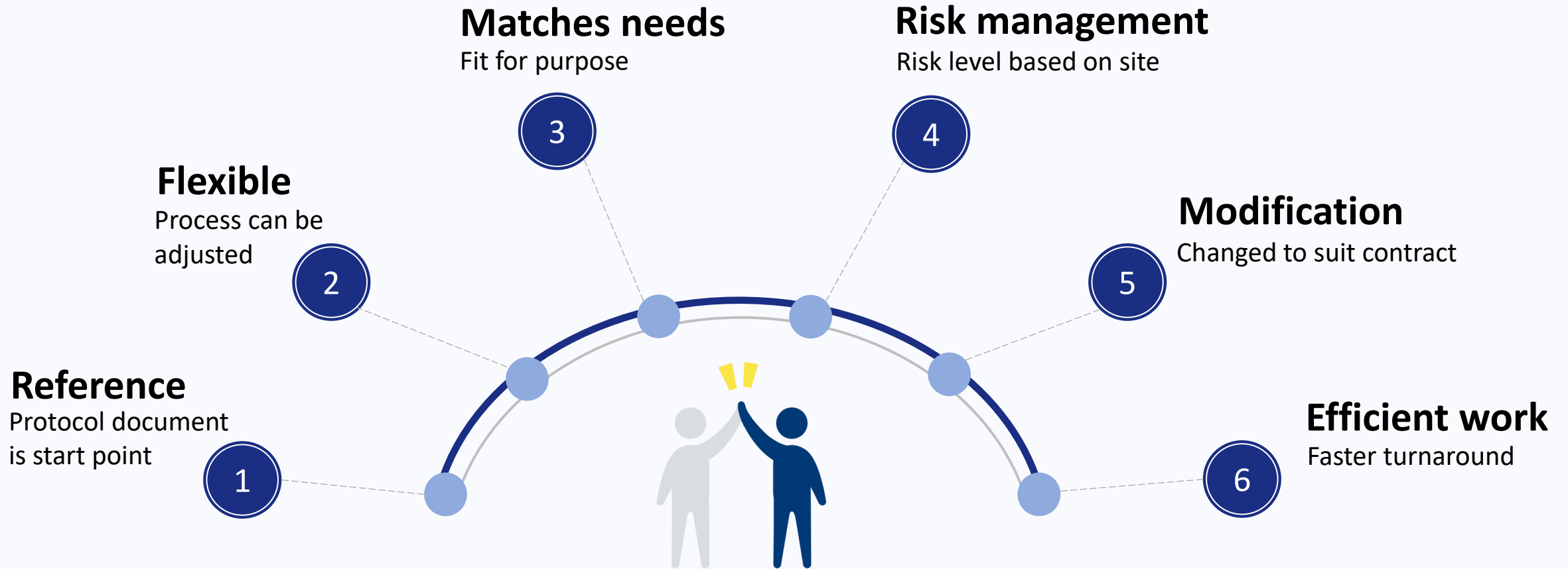
- More emphasis to gain early insights

Implementation



- **Assess**
 - Check suitability of contract or site
- **Propose Protocol to client**
 - Outline process method and steps
- **Agree**
 - Ensure all parties are involved in decision of implementation

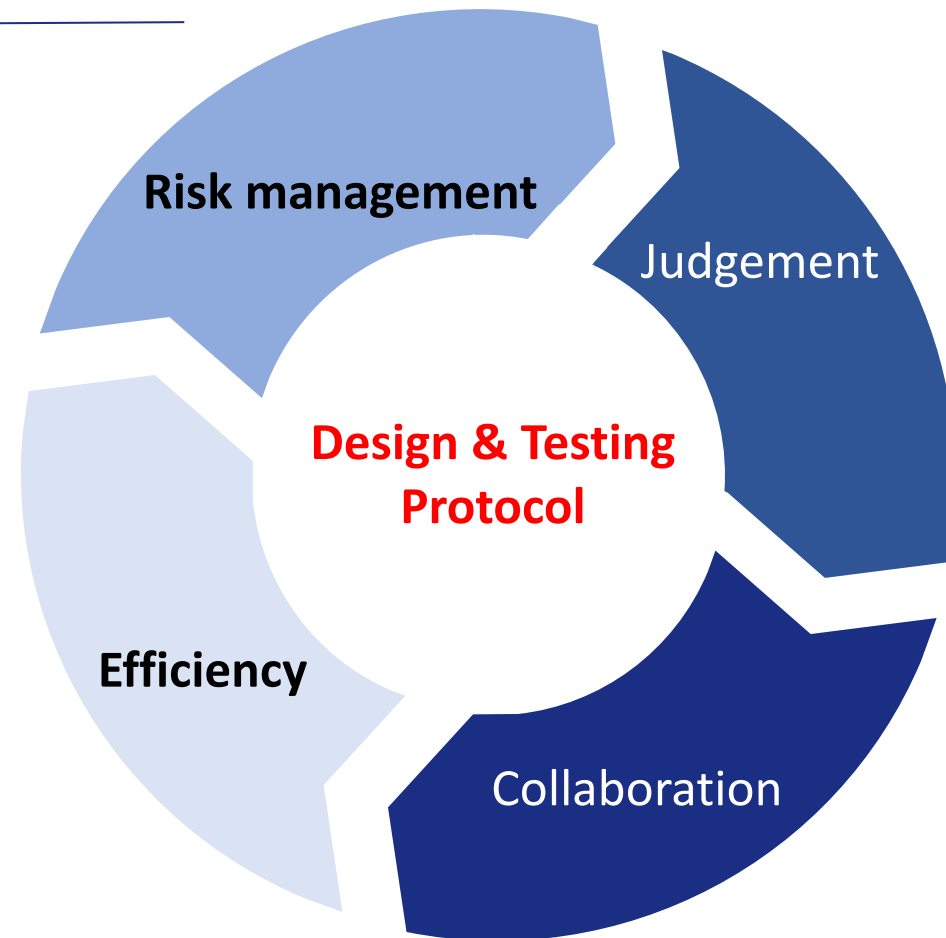
Success and Benefits



Design and Testing Protocol



- Existing process not fit for purpose
- Alternative approach required



“Consider how the design process can match your desired outcome”

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Thank you!

Questions?

JAIME CLARK

JAIME.CLARK@FULTONHOGAN.COM

