#### He Ara Kotahi – Implementation of the Palmerston North to Linton Shared Pathway



Rob Green – Green Infrastructure Services Ltd

Jon Schwass – Roading Manager – Palmerston North City Council

Peter Kortegast – WSP Opus



NSD OPUS



# Introduction

- Background
- Project Governance
- NZTA Approval
- Route Selection
- Regulatory Approvals
- Ruha Street Bridge
- Pathway
- Summary and Conclusions



OPUS

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# Background

- A number of factors coalesced:
  - Ongoing submissions by NZDF about safety concerns
  - Government making UCP funding available
  - Powerco electricity supply strengthening project



# **Feasibility Study**

Aim: To identify feasible routes for a shared pathway from the city to Linton Army Camp with a connection to Massey University

OPUS

- Completed in September 2014
- Five routes identified each linking to existing streets with a bridge across the Manawatu River
- Final route selection would be based on projected commuter user numbers







# **PNCC Long Term Plan (LTP)**

- Based on project estimate of \$10m funding provision was made in the PNCC LTP:
  - Urban Cycleways Fund \$3m (available until 30 June 2018)
  - Powerco \$0.5m
  - National Land Transport Fund \$3.3m (51% of residual cost)
  - PNCC \$ 3.2m (49% of residual cost)



# **Project Steering Group**

- PNCC
  - GM City Networks Chairperson
  - One Elected Member
- NZ Defence Force two representatives
- Massey University one representative
- Horizons Regional Council one representative
- NZTA two representatives
- Iwi three representatives







The pathway that

brings people together.



# NZTA Approval

- Indicative Business Case Four bridge options to one zone
- Detailed Business case final bridge site
- Assessments of:
  - Landscape and visual effects
  - Ecological factors
  - River hydraulics and flood control
  - Land use planning
  - Accessibility
  - Projected commuter numbers
  - Recreational benefits







#### Detailed Business Case

Detailed Business Case to proceed from Initiation to Implementation Manawatu River Pedestrian and Cycle Bridge





Final 26 July 2016



# **Final Route**





# **Project Details**

#### **Ruha Street Bridge**

- 195m long, 4.2 m total width
- 10m wide viewing platform at mid-span
- Four spans across
  - Manawatu River











# **Project Details**

#### Pathway

- 7.6 km total length 3m wide to proposed lookout and 2.5 m wide beyond
- Four bridges 2 x 35 m long, 1 x10m long and 1 x 45m long
- 200m of elevated boardwalk sections
- Two registered heritage sites
- Links to Massey University and Linton Camp



## **Ruha Street Bridge – Karaka Tree Theme**





Showing the ribs of the tree trunk through the centre of the bridge







# **Ruha Street Bridge Construction**

OPUS

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- PNCC accepted alternative tender in October 2017
- Time delays through need to complete detailed design and peer review of alternative tender
- Construction management plans approved (consent requirement) – January 2018
- Construction commenced February 2018

PALMERSTON NORTH

**CITY COUNCIL** 



# **Ruha Street Bridge Construction**



Pier construction from causeway in river



Abutments and piers completed – looking from city

**WSDI OPUS** side





### **Ruha Street Bridge Construction**

#### Proposed Plaza on City side of bridge





# **Pathway Construction**

- Progressing to completion in April 2019
- Topographical challenges
  - Steep sections of 20 m elevation change
  - Three stream and one farm road crossing
  - Two heritage sites
  - Area of very sensitive vegetation
- None of pathway is on Council owned land



Turitea Bridge – pile/pier construction Turitea Bluff in background







### Conclusion

- Feasibility studies should not be rushed identify all of the constraints
- Setting the correct project structure at the outset is critical
- Important to understand the construction market
- Select the right contractors not just based on lowest price



### **Conclusion (cont'd)**

- Non construction related elements to meet RMA and NZTA processes are time consuming and expensive (23% of costs) – final cost likely to be > \$15m
- Form partnerships with iwi
- Recognise and acknowledge landowner requirements
- Celebrate success and focus on positive aspects of the project !!!

