

Asset Management Data Standard

Capital & Renewal Forward Works

AMDS Candidate Release Overview

14 March 2023

Opening Karakia

Ka rongō tātou i te reka o te kōrero

Ko ngā tikanga

Ko ngā kawa

Ko te whanaungatanga

Ko te manaakitanga

Ko te kotahitanga

Hei kōrero mā te hinengaro, mā te wairua, mā te tinana, mā tātou, te whanau o te Waka Kotahi.

Kaikarakia (leader): Tūturu whakamaua kia tina

Katoa (all): Tina

Kaikarakia: Haumi ē, hui ē,

Katoa: Tāiki e



What's Included

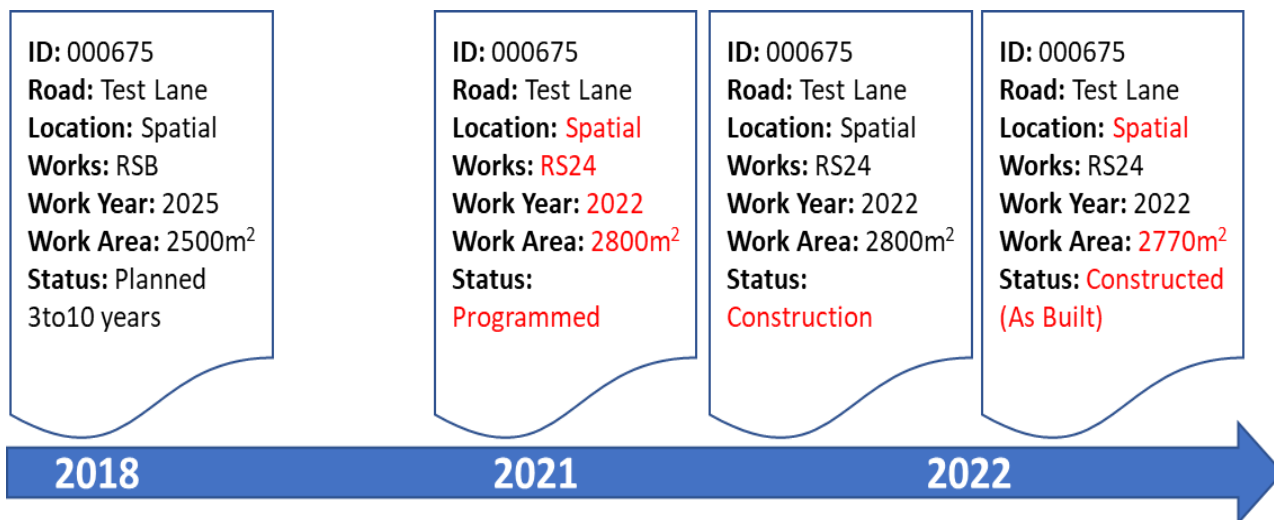
Planning intent – 30yr plan vision through to continuous programmes

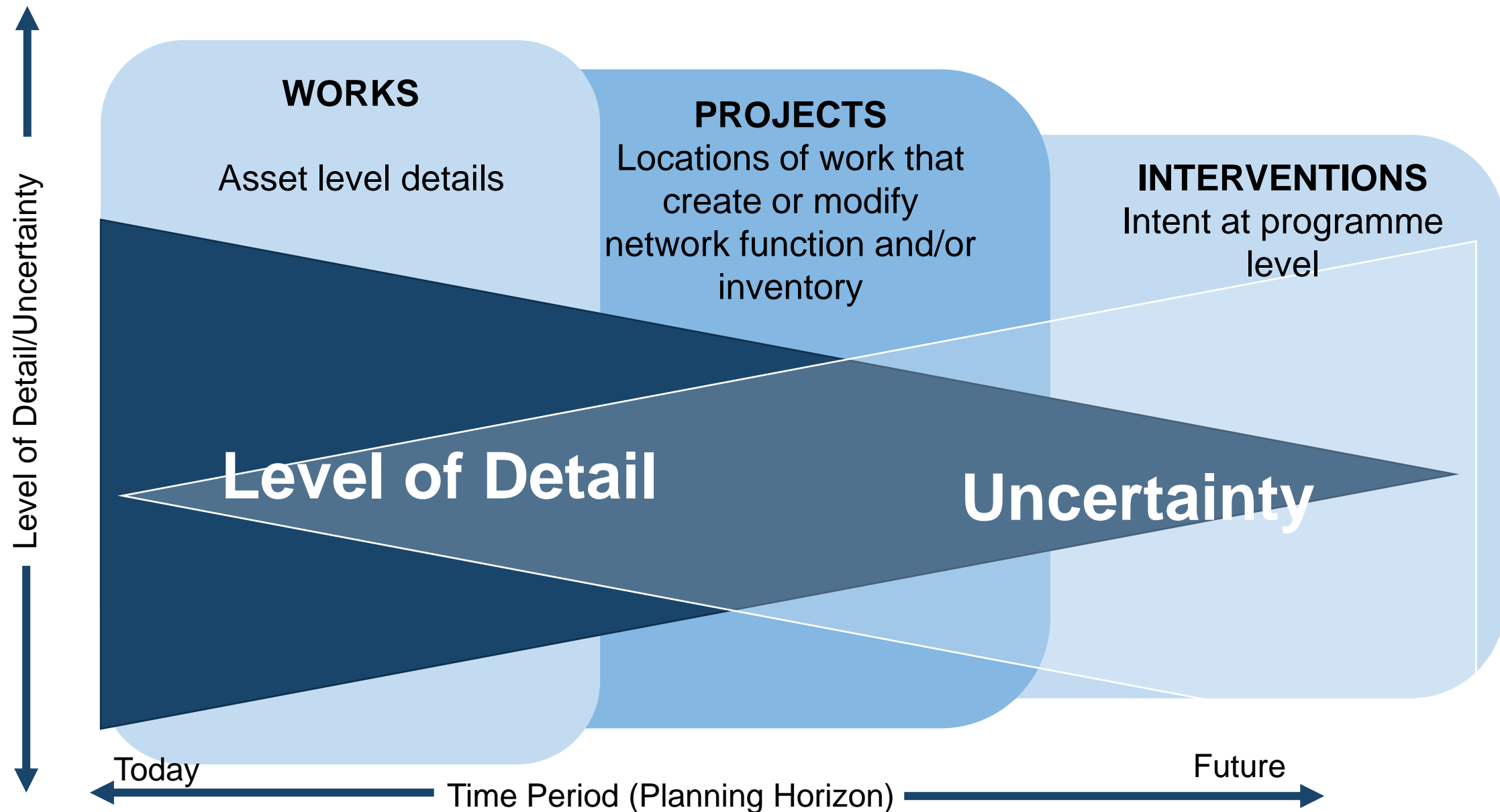
- Existing transport network planning
 - Safety Improvement Programs including multimodal access & safety, widenings, roundabouts and associated upgrades
 - Transport Renewals (all assets including pavement, surfacing, bridges, etc)
 - Resilience initiatives (climate adaptation etc)
- Future transport network planning
 - Greenfield Capital Programs (including revocation or disposal of existing infrastructure)
 - Subdivisions and other spatial planning developments including Mode Shift, walking, cycling and PT initiatives. Works programs only for appropriate works items
 - Resilience initiatives (climate adaptation etc)



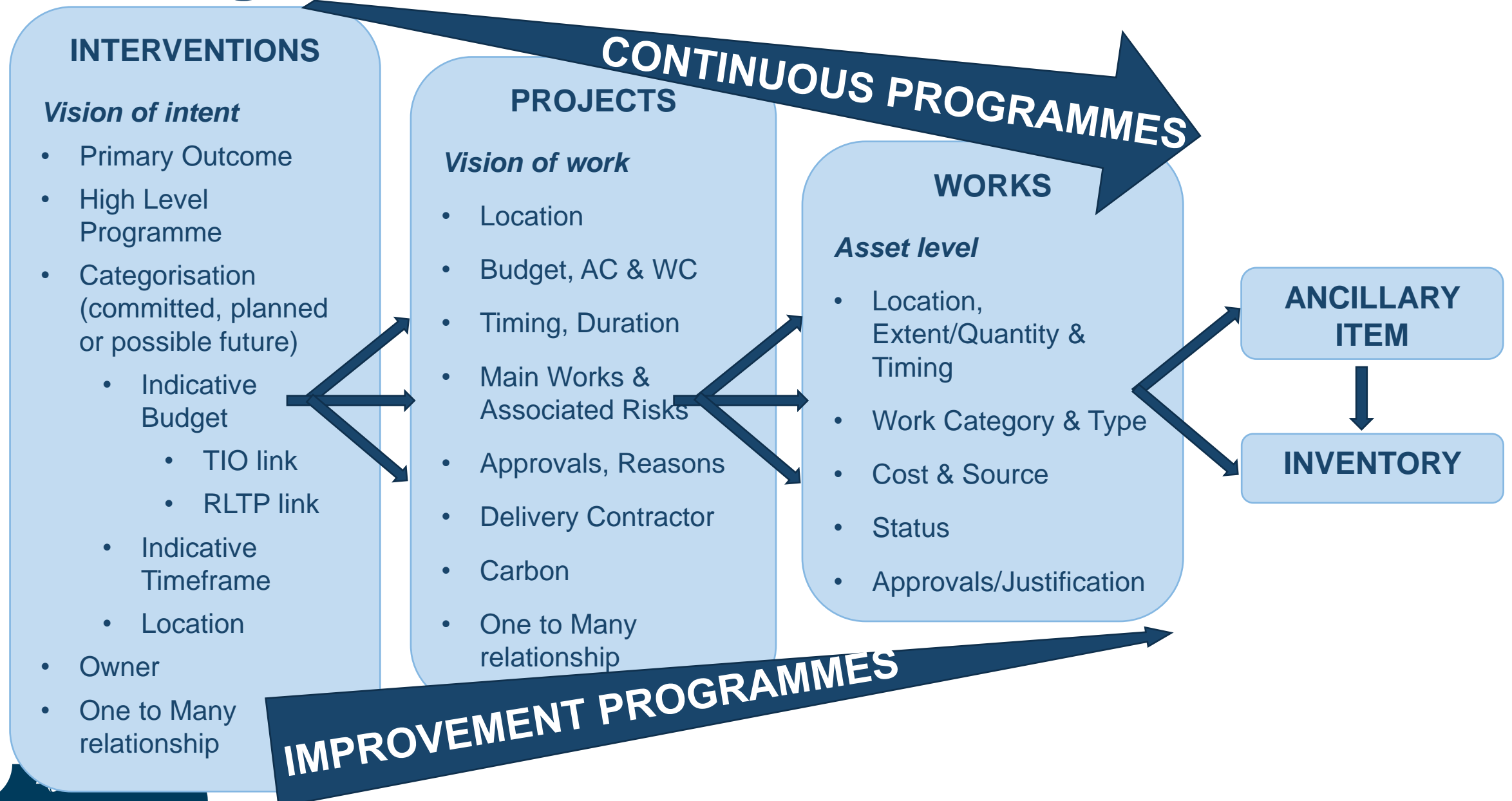
Core Features

- **Asset Inclusive:** Structured to accommodate all assets.
- **Status Tracking:** Each element will be tracked through its life from identification through to completion/closing. A status flag will identify the key stage of the element at any point in time.
- **Temporal:** Ability to roll back the clock to view historical information



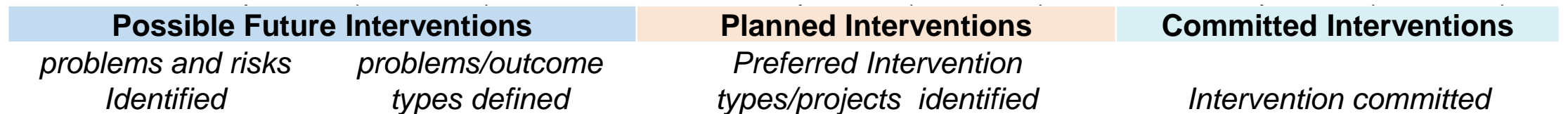
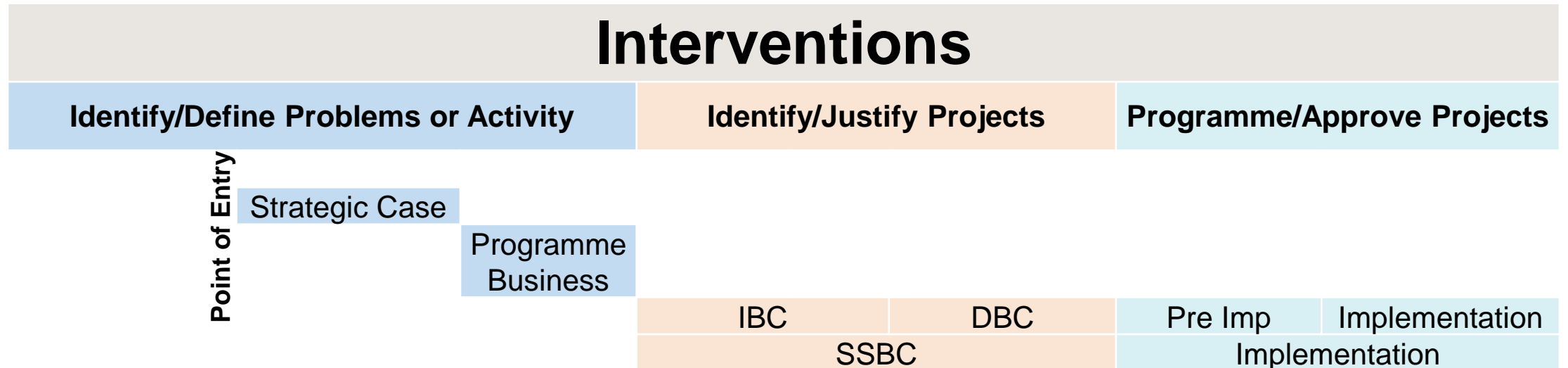


Planning Workflow



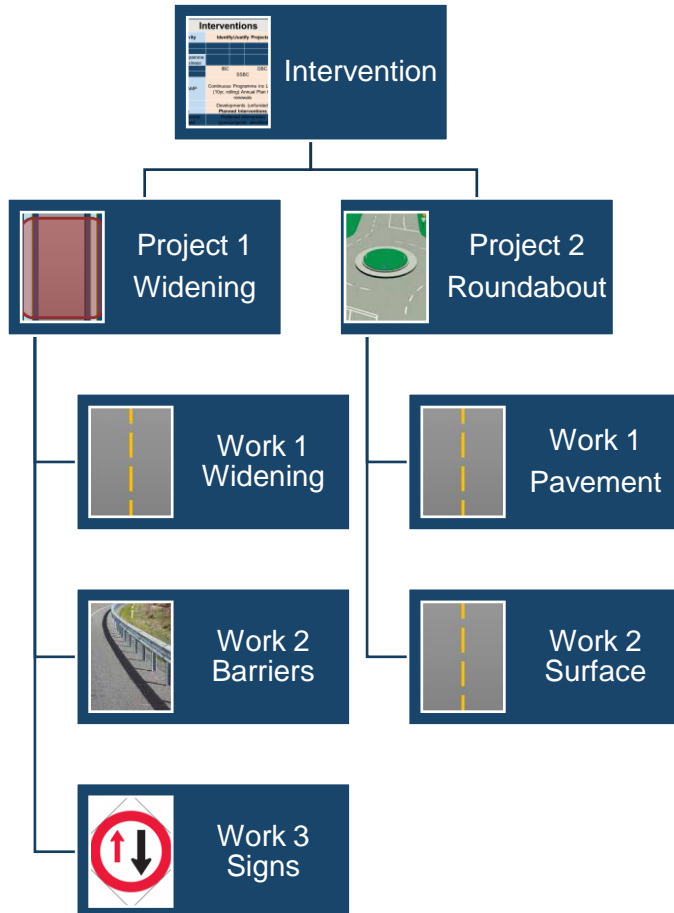
Interventions

Vision of intent – Possible Future, Planned, Committed



Projects

Vision of Work



- Single or groups of assets or activity
- Capital projects – Intervention to Project at single stage business case
- Renewal projects – primary planning table
- Information captured at this level includes general location, what the project is, estimate timing, duration and confidence of delivery and capture of project level decisions. A project is not linked to any infrastructure, however the record remains active until all associated Works are completed.
- One to many links to Works items
- Aggregate information up from Works items to provide visibility of
 - Assets involved
 - Quantity of Work
 - Cost of Work

Works

Project

Type: Resurfacing
Location: Polygon
Timing: 2025 to 2028
Confidence: Approved
Value: \$80k
Delivery Contract: NOC

Works

Asset Class: Drainage
Asset Type: Channel
Name: Test Road
Location: Polygon (x2)
Side/Lane: Both
Works: Reshape SWC
Work Year: 2025
Work Area: 1000m²

Works

Asset Class: Roadway
Asset Type: Surface
Name: Test Road
Location: Polygon
Side/Lane: Both
Works: RSB
Work Year: 2025
Work Area: 2500m²

Works

Asset Class: Drainage
Asset Type: Channel
Name: Test Road
Location: Polygon
Side/Lane: Left
Works: Reshape SWC
Work Year: 2024
Work Area: 200m²

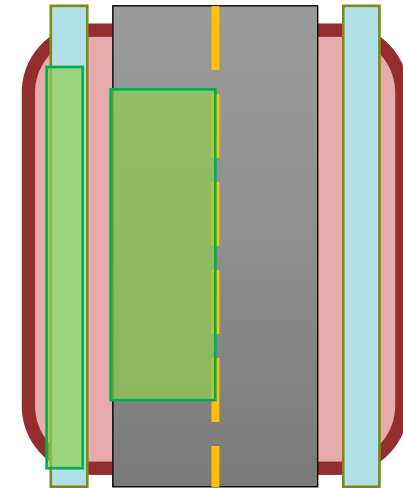
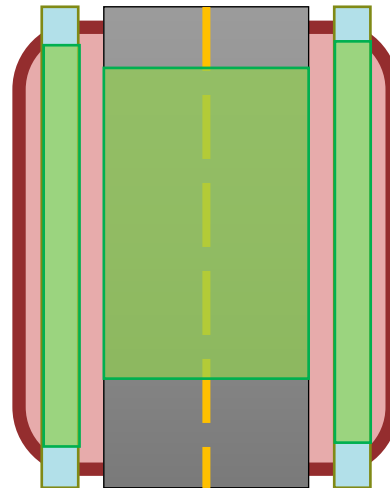
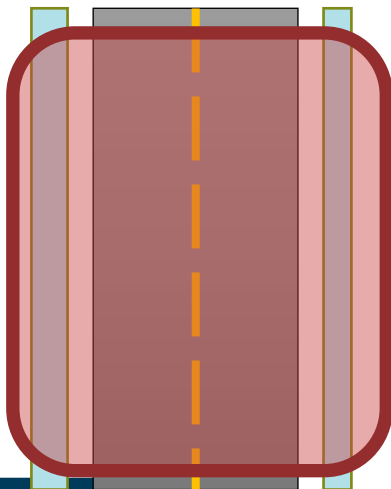
Works

Asset Class: Roadway
Asset Type: Surface
Name: Test Road
Location: Polygon
Side/Lane: L1
Works: RS24
Work Year: 2025
Work Area: 1350m²

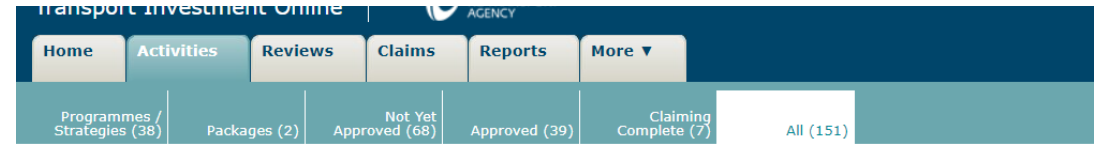
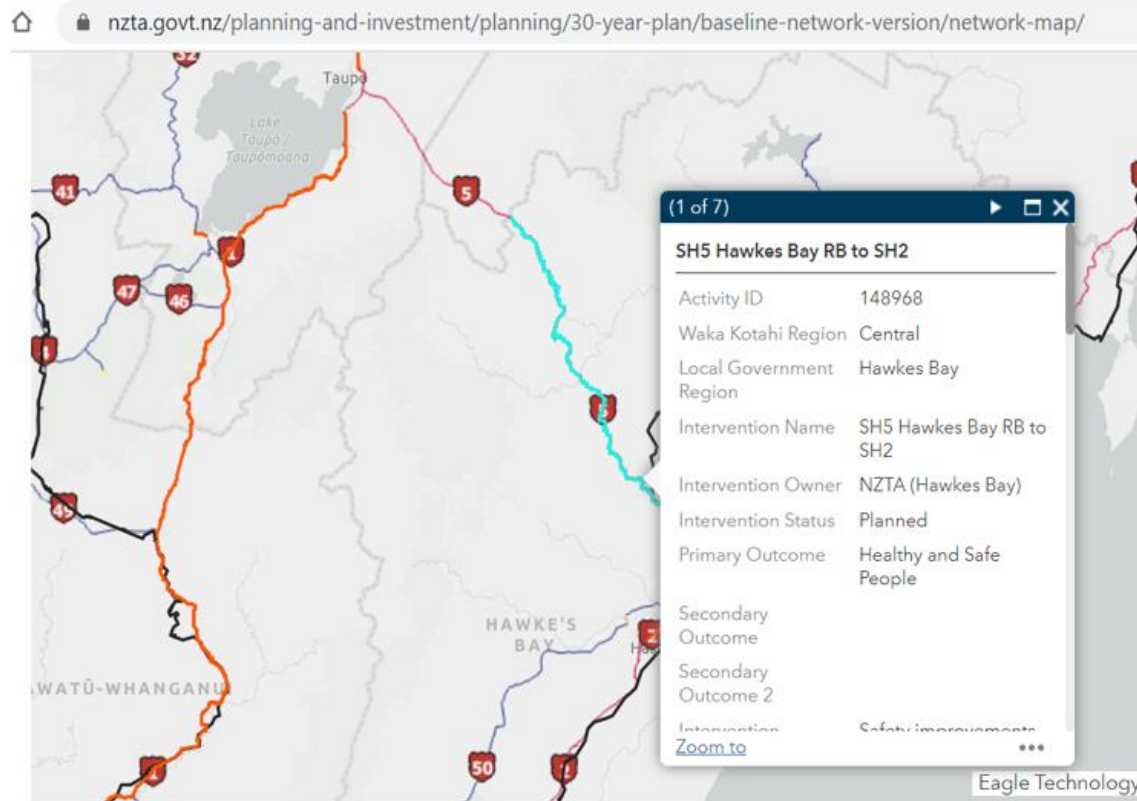
Longer Term

Mid Term

Near Term



System Alignment



Activities → All → NZTA (Hawkes Bay) → SH5 Hawkes Bay RB To SH2

[Improvement activity outline](#)

[Benefits and measures](#)

[Geospatial information](#)

[Economic and Financial Summary](#)

[NZTA assessment of business case](#)

[Investment Prioritisation Profile](#)

[Supporting documents](#)

[Phases summary](#)

[Pre-implementation* - SH5 Hawkes Bay RB to SH2](#)

[Implementation - SH5 and SH2 IS](#)

[Implementation - SH5 and Ohurakura Rd IS](#)

[Implementation - SH5 Matea Rd to SH2](#)

[Property - SH5 Hawkes Bay RB to SH2](#)

[History of changes](#)

[Print record](#)

Improvement activity outline

Unique identifier - Activity ID

*Activity name

SAP initiative name

SAP initiative id

Public name

Your reference

NZTA safety identifier

Business case outline

This section provides a link to the earlier development stages of the Business Case.

Activities included in the NLTP should be linked to a programme business case. Where the activity does not link to a PBC, a completed PoE will need to be uploaded for funding approval.

See the [Business Case Approach Guidance](#)

Select the programme business case this activity arose out of [Show details](#)

Upload any supporting information for the inclusion of the activity into the NLTP. Where the activity is not linked to a PBC, upload any supporting information for the inclusion of the activity into the NLTP (such as completed record of PoE document)

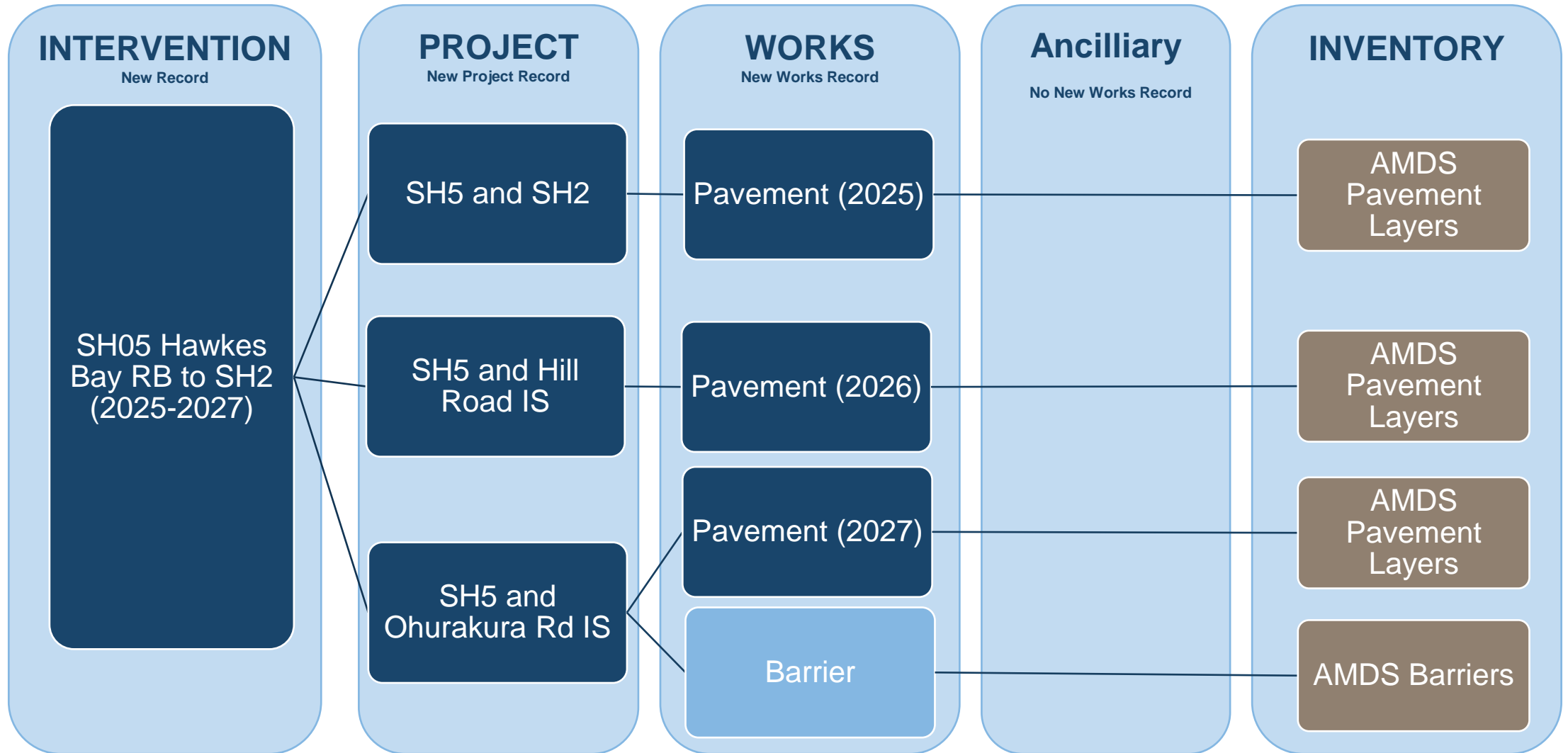
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*Strategic context

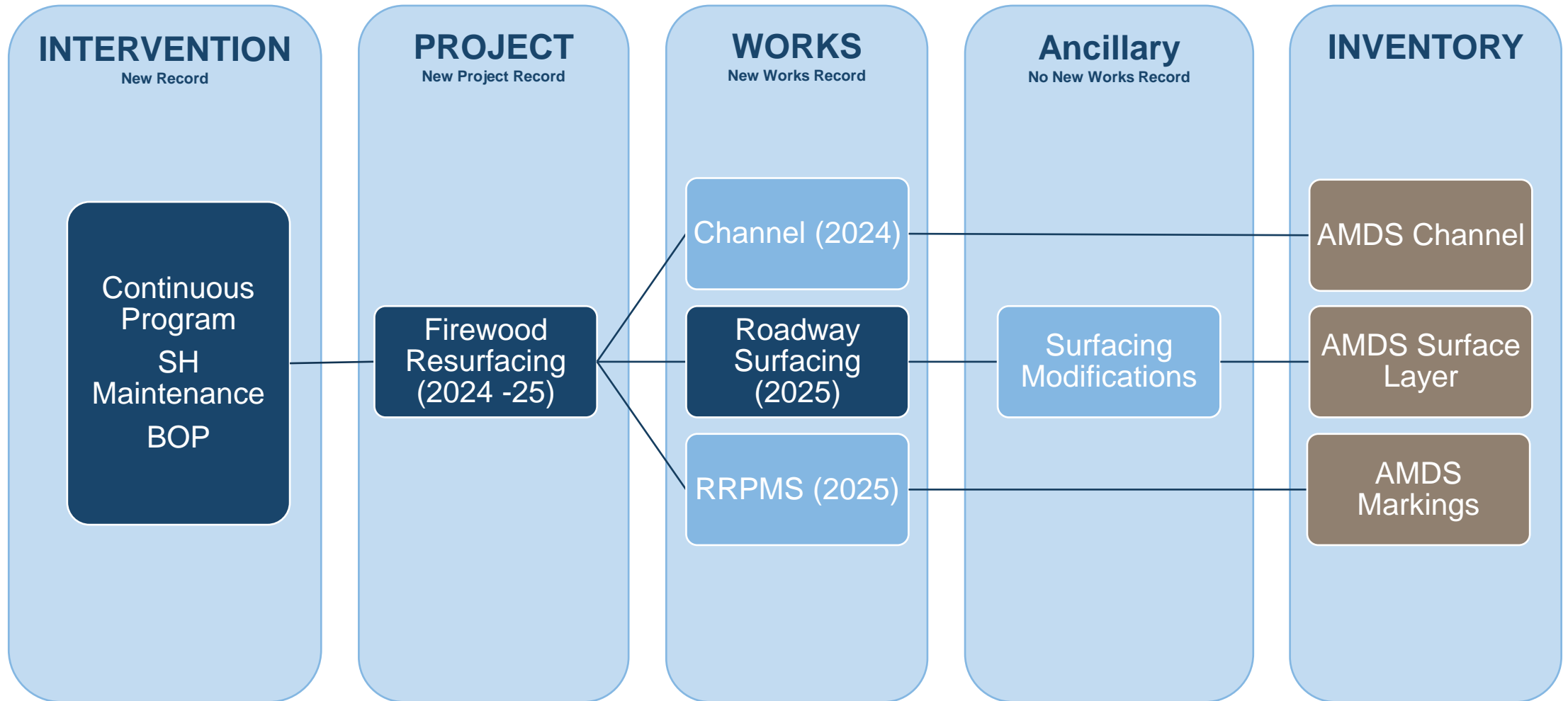
What is the particular transport problem / opportunity of the programme business case (should it be a component activity) that relates to this activity?

Project Investment Story
The corridor is a key inter-regional corridor, connecting Taupo and Napier (and Waikato to Hawkes

Planning Workflow – Capital v2



Planning Workflow – Renewal



Treatment Lengths

- Two groups for assigning treatment extents.
 - Linear assets: Treatment Lengths or Treatment Segments (equivalent to start/end location)
 - Point assets: Full Asset
- Linear asset Activities (Pavement, Surfacing, Pathways, Drainage, Shoulder, Barriers/Railings) have associated TL definition.
 - Different TL segmentation for each asset type
 - Base TL segmentation established using industry accepted practice for each asset type
 - First Treatment: Changes to Work Extent (start and end on the first treatment on a site) will drive changes to TL segmentation.
 - Subsequent Treatments: Work Extents will auto update to match the TL or first Work on the site.
 - Lane or Side definitions accepted



Attributes

INTERVENTION

UUID
Intervention Name
Source
Intervention Owner
Intervention Status
Intervention Type
Total Expected Capital Cost
Start Estimate (delivery phase)
TIO Extract
TIO Activity Name
TIO Activity ID
Programme Business Case Name
Programme Business TIO Activity ID
Strategic Case Name
Strategic Case TIO Activity ID
Region
RCA Link
RLTP Link
RPTP Link
Geometry
Primary Outcome

PROJECT

UUID
Project Name
Network Section UUID
Network Section Name
Geometry
Project Status
Project Approval Status
Primary Activity Class
Primary Work Category
Implementation Start Financial Year
Implementation Start Month
Implementation Duration
Total Estimated Capital Cost
Bottom-up Calculated Value
Main Treatment /Intervention Category
Main Treatment /Intervention Type
Associated Risks - Owner
Associated Risks -Tmt
Associated Risks -Asset
Embodied Carbon
Reason
Contract Awarded?
Associated Main Contract
Associated Main Contract UUID
Contracted Party

WORK

Work Item UUID
Geometry
Linked Project UUID
Linked Project Name
Network Section UUID
Network Section Name
Work Item Category
Work Item Type
Asset UUID
Treatment length UUID
Treatment Length Name
Treatment Length Type
Side
Start_m
End_m
Lane_m
Activity Class
Work Category
Main Work Type
Work Start Financial Year
AMDS Inventory Class
AMDS Inventory Type
Quantity
Quantity unit
Treatment Cost
Cost Source
On-Cost %
Unit Rate

ANCILLARY

Ancillary Item UUID
Ancillary Item Name
Ancillary Item Type
Linked Work Item UUID
Linked Work Item Type
Linked Project UUID
Linked Project Name
Quantity
Quantity unit
Cost
Cost Source
Unit Rate

Wrap Up

- Candidate release Friday 17th March 2023
- Feedback will be received through AMDS@NZTA.govt.nz
- Subscribe to the AMDS e-newsletter for first notice of when the slide pack, candidate release and webinar recording are available on our website:

<https://www.nzta.govt.nz/roads-and-rail/asset-management-data-standard/updates-and-stories/>

Acknowledgements

- **AMDS Working Group:** Michaela James & Leah Watts (AMDS), Robert Choveaux & Hine Hausman (Waka Kotahi), Mike Tapper (Beca), Carol Mā (HEB) Pam Fletcher, Kyran Fergusson (Downer), Kris Garner (Fulton Hogan), Elke Beca, Stephen Martin (WSP)
- **AMDS RCA Working Group**



Hei konā mai

Visit the AMDS website for
updated information:

<https://www.nzta.govt.nz/amds>

Closing Karakia

Kia whakairia te tapu
Kia wātea ai te ara
Kia tūruki whakataha ai
Kia tūruki whakataha ai
Hui e, tāiki e

