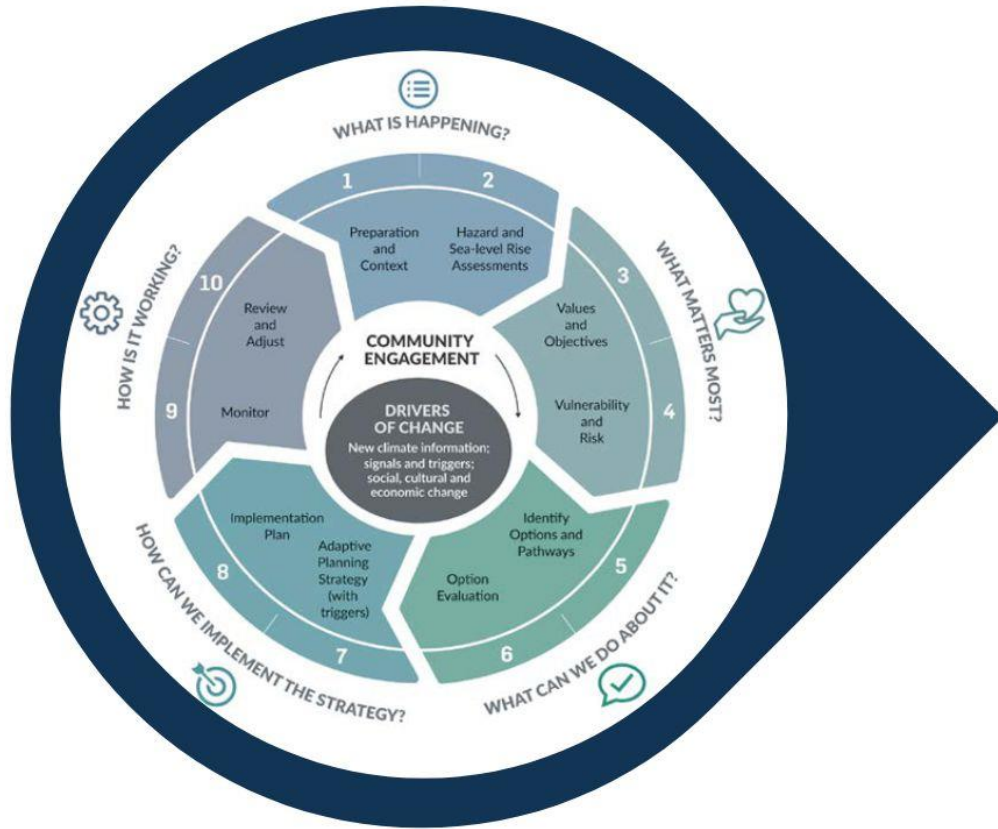




COASTAL CONVERSATIONS

Leithfield Beach
17 April 2023

The project



Phase 1

- **WHAT IS HAPPENING?**

Phase 2

- **WHAT MATTERS MOST?**

Phase 3

- **WHAT CAN WE DO ABOUT IT?**

Phase 4

- **HOW CAN WE IMPLEMENT THE STRATEGY?**

Adaptive planning – what is it?

- The future is uncertain
- Don't want to lock in options – but want to know they exist and can be implemented
- Trigger based not time based
- Allows us to monitor change and act before things deteriorate
- Funding

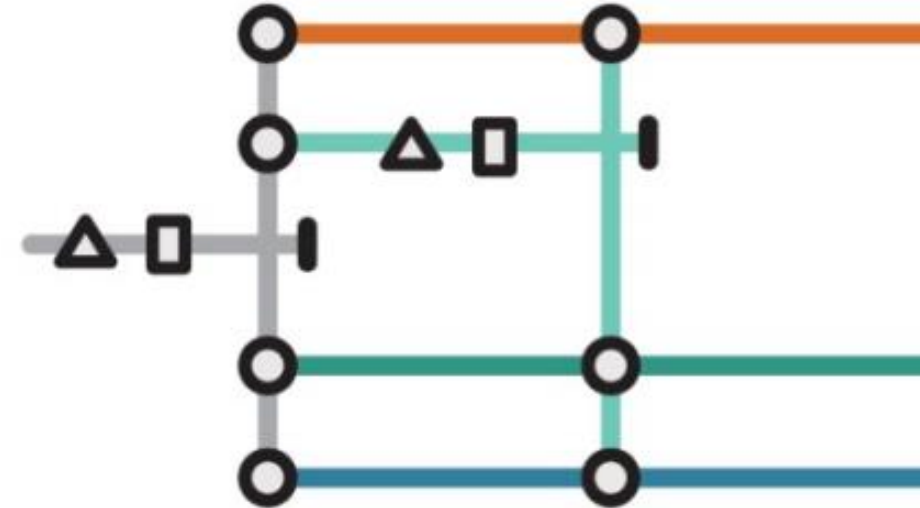
Action A

Action B

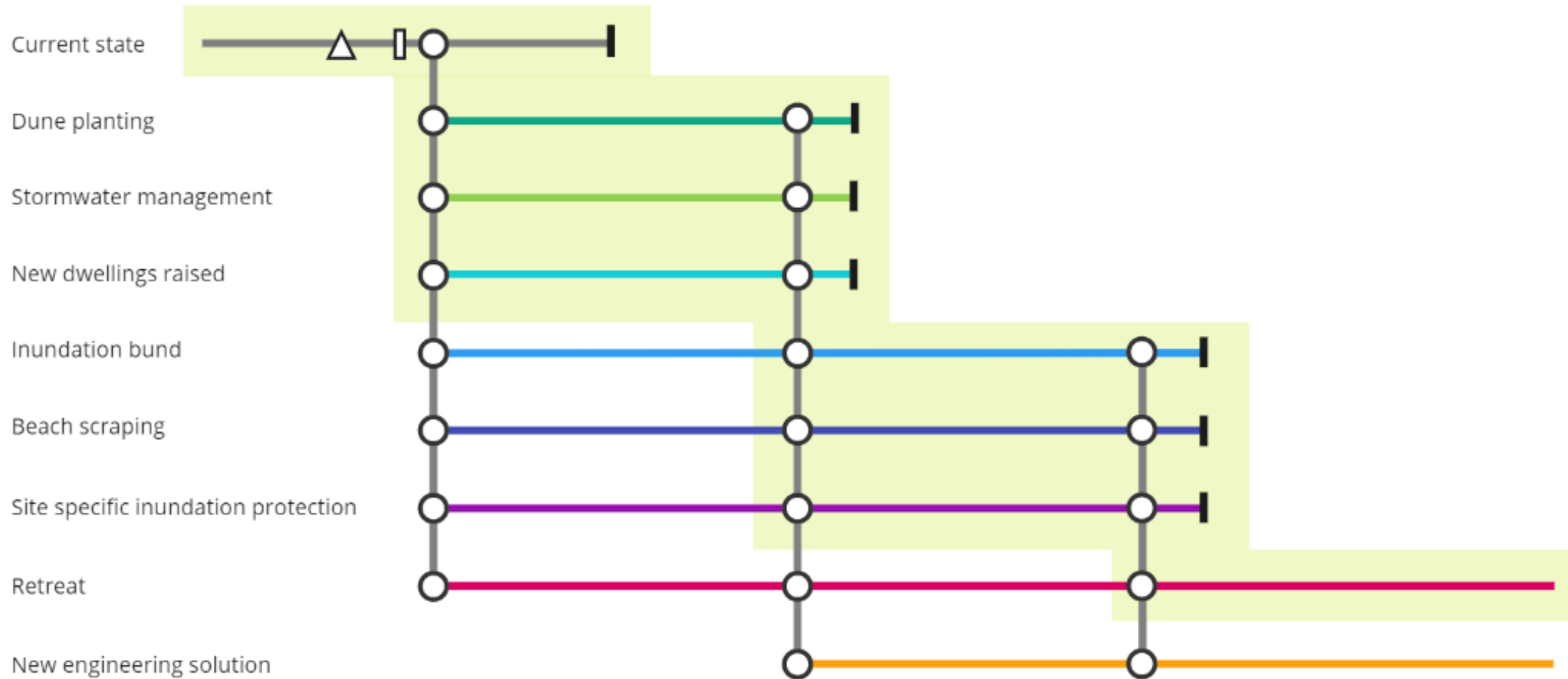
Current situation

Action C

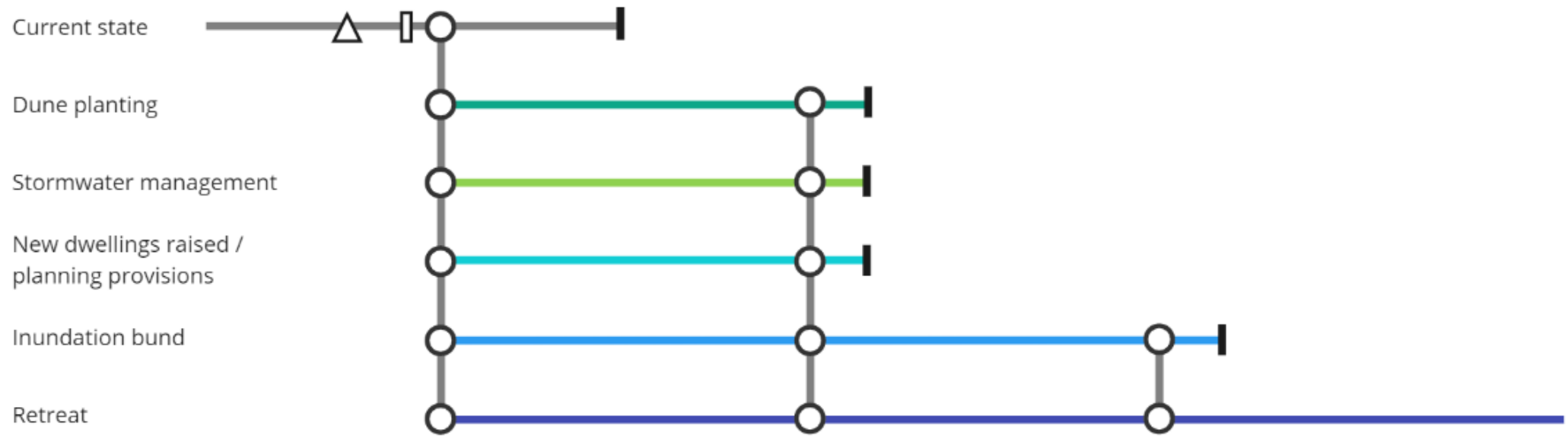
Action D



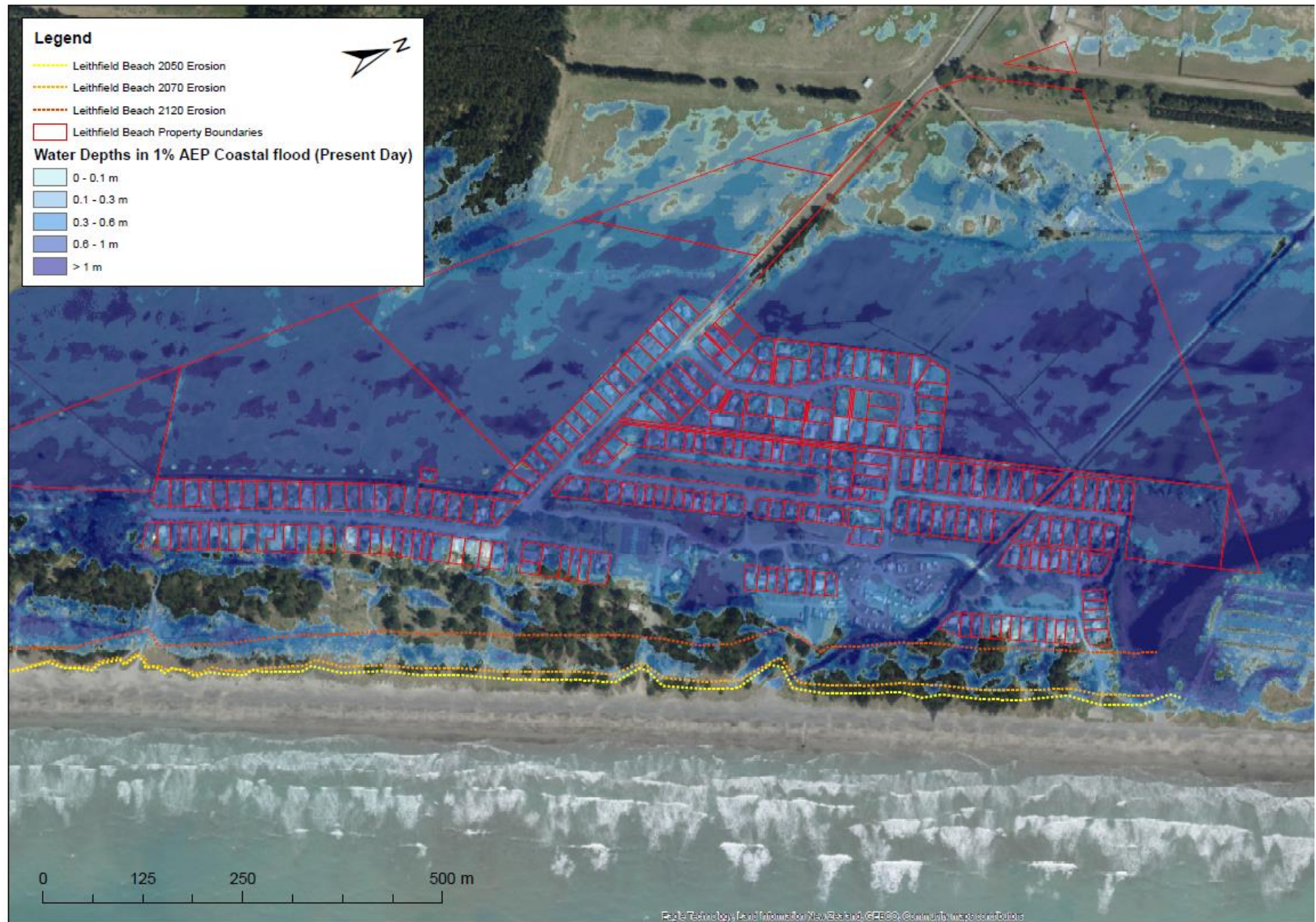
Example pathways



Agenda



Current State

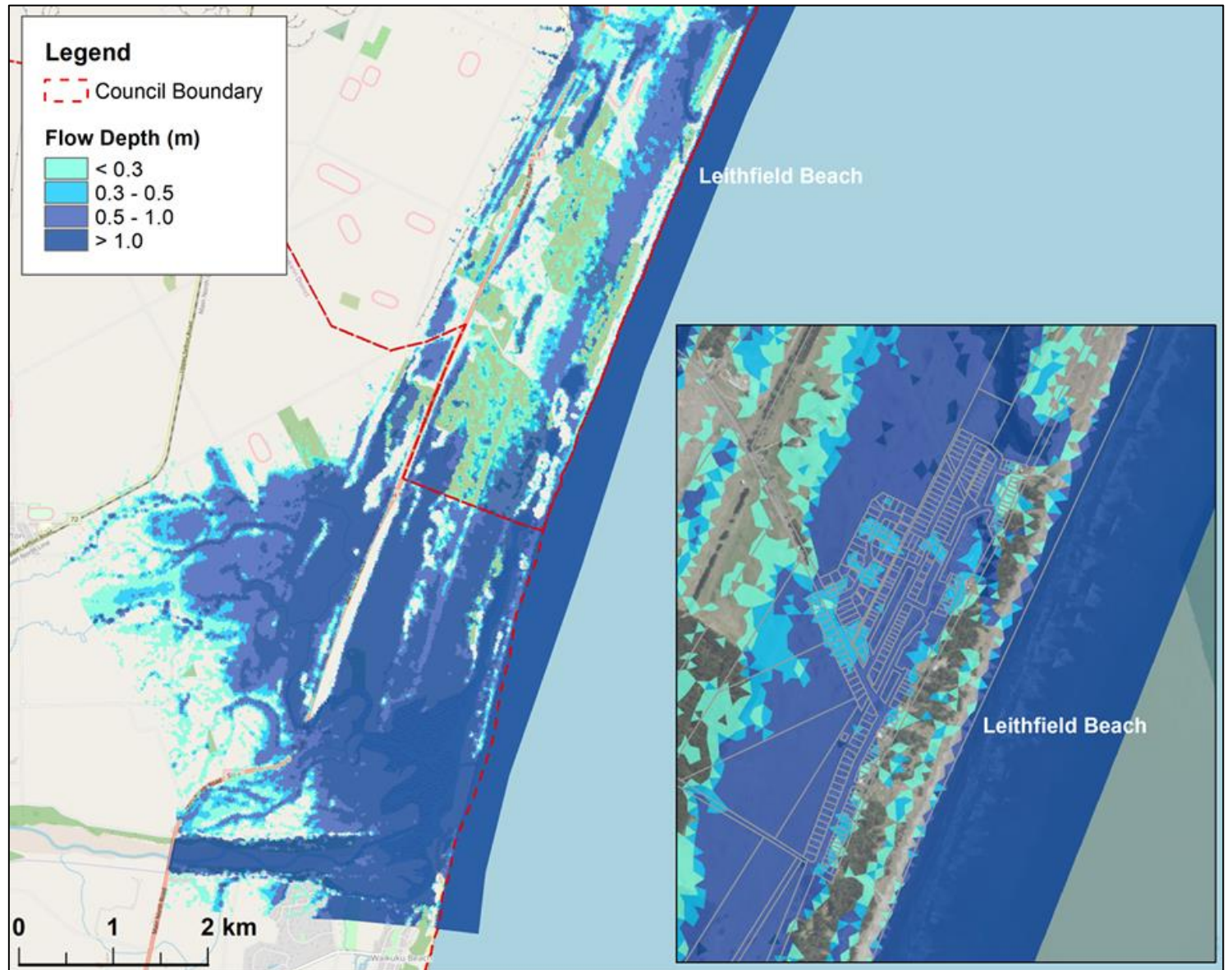


Current State

Sea Level 0 m

Coastal 1 in 200

Fluvial/Pluvial 1 in 20

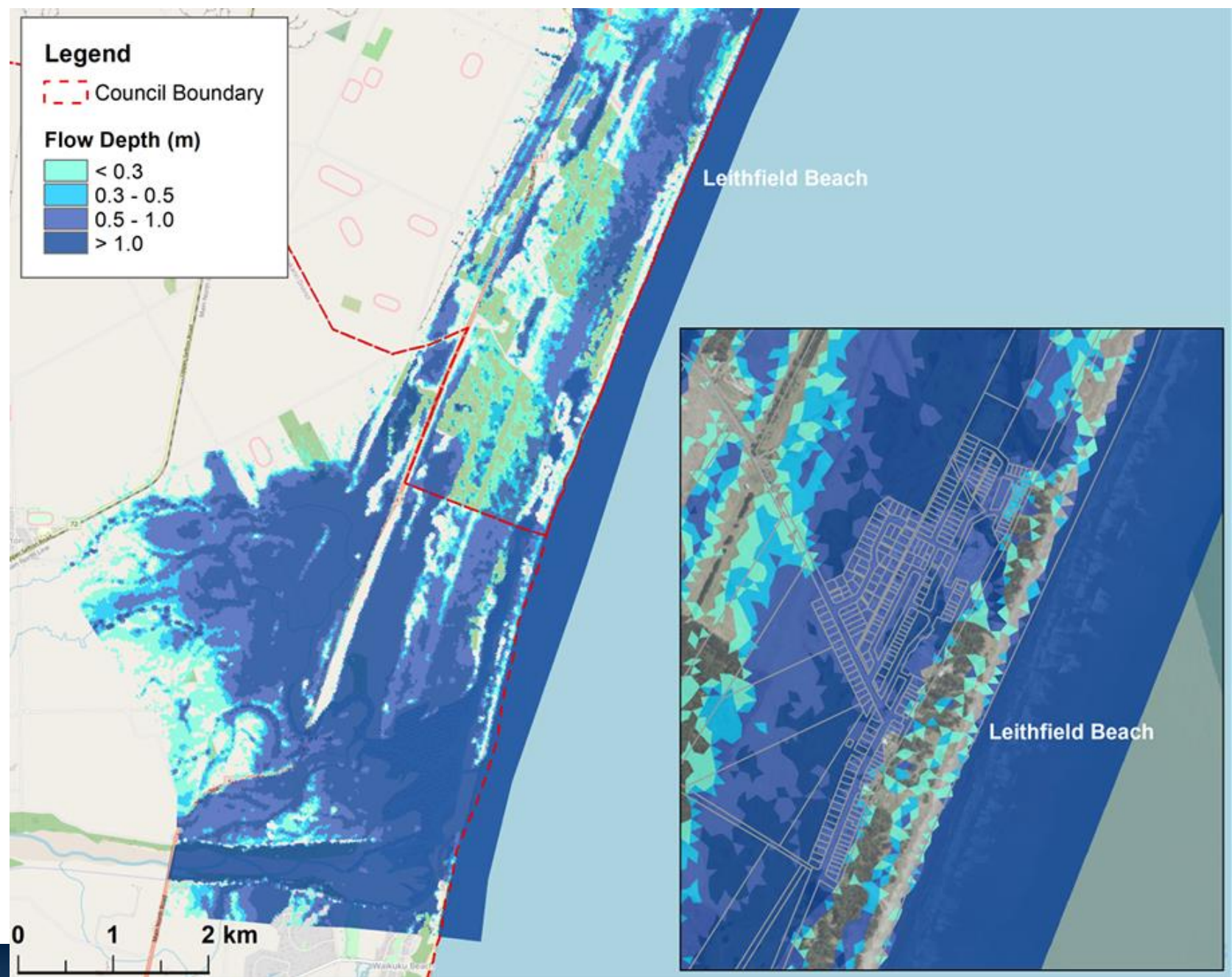


Current State

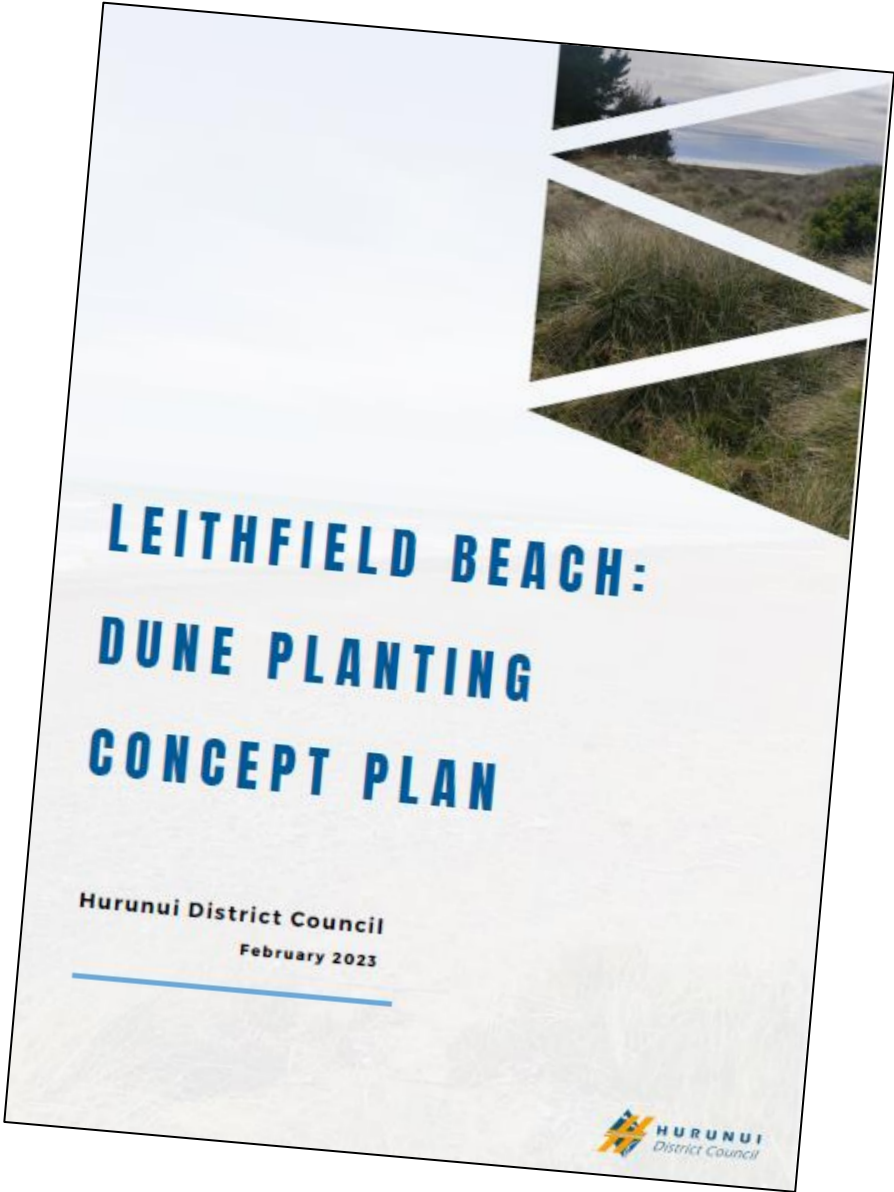
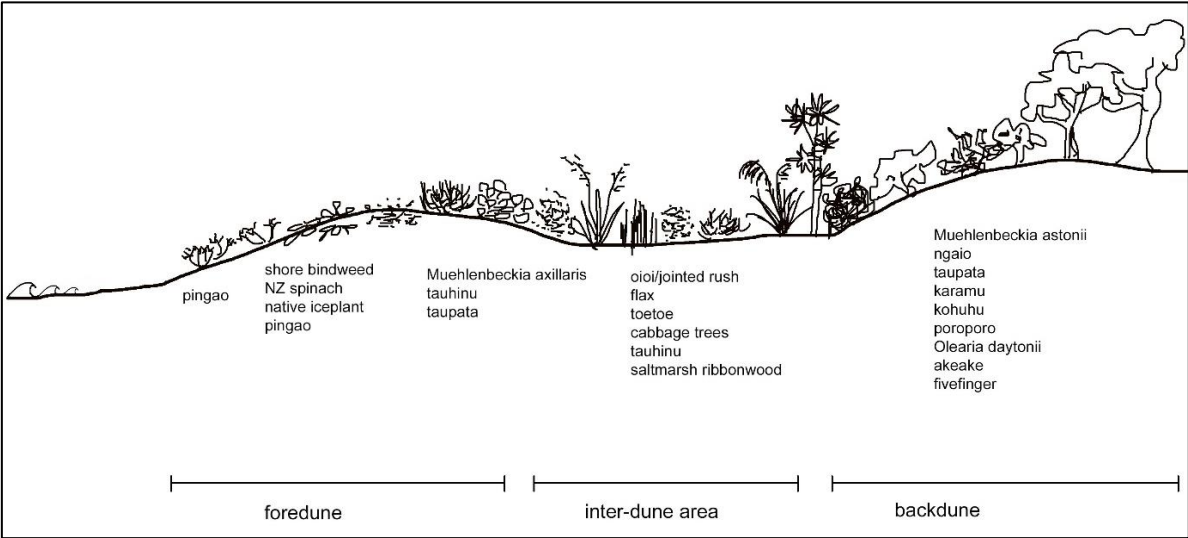
Sea Level 0 m

Coastal 1 in 20

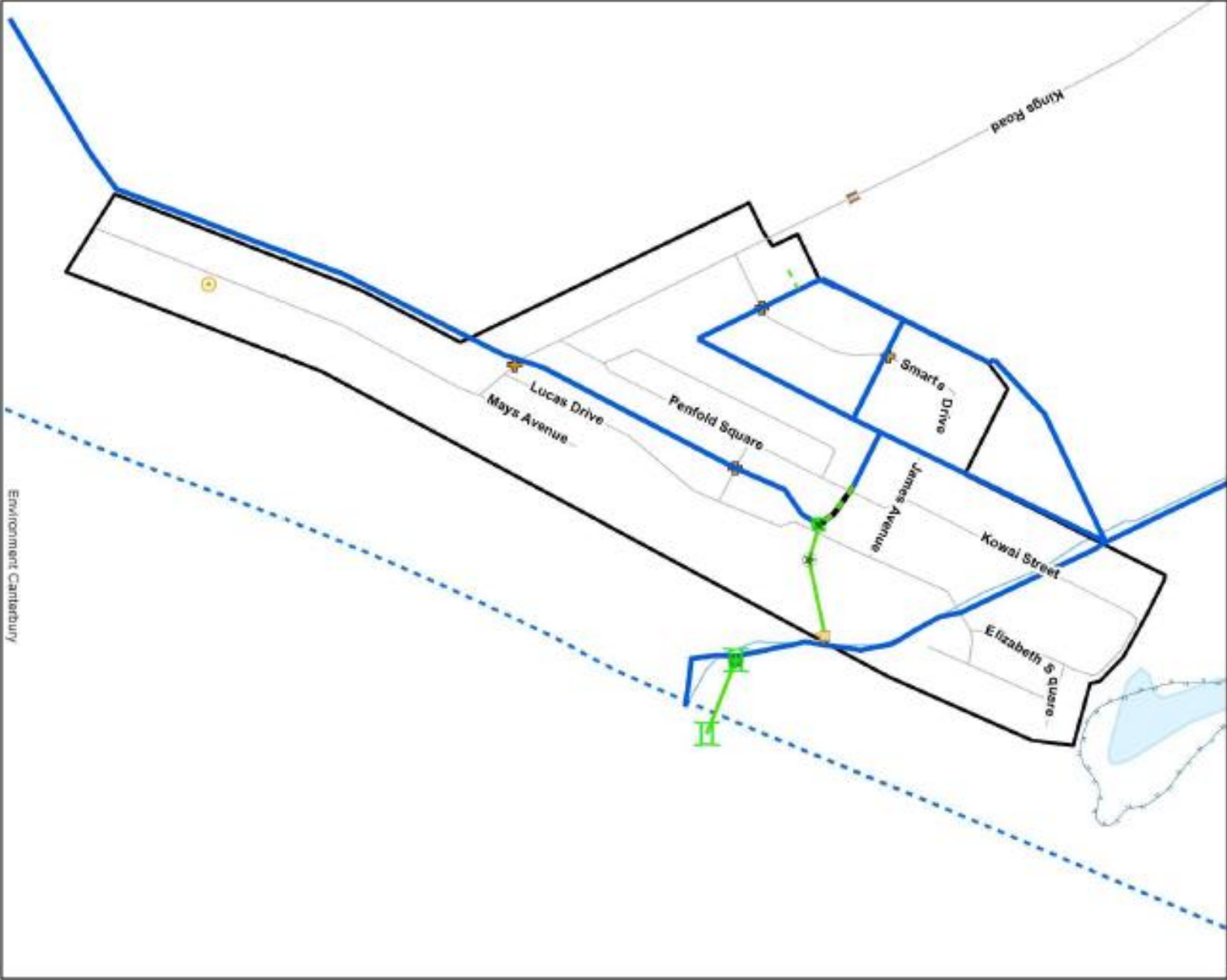
Fluvial/Pluvial 1 in 200



Dune planting



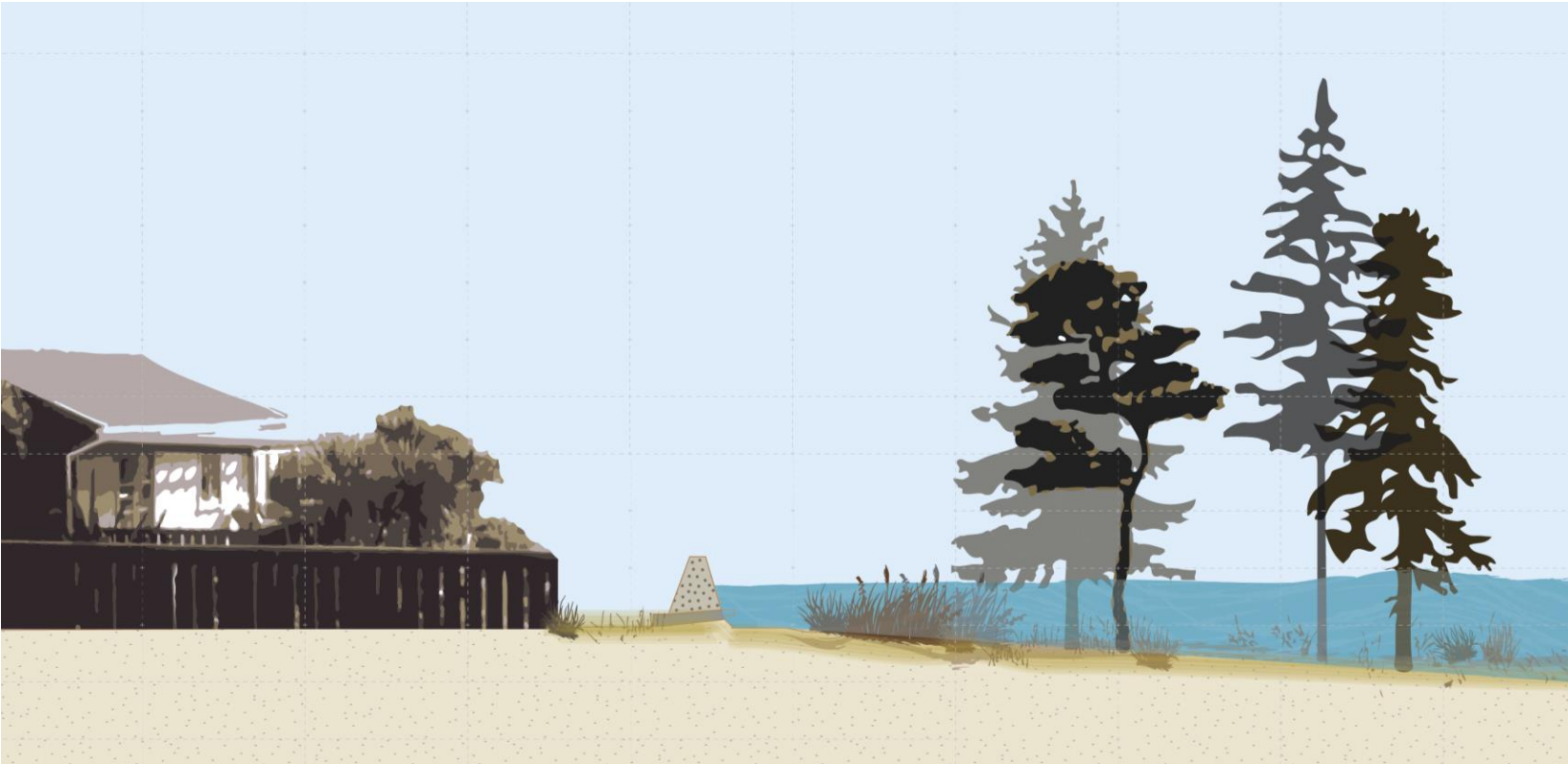
Stormwater maintenance



Planning provisions



Stop banking/earth bund on the west side of the settlement





- A medium-term protection option involving the construction of an engineered earth bund.
- Allows water to flood the low laying land to the west, but not enter the properties in the settlement.
- The total bund length required would be approximately 1.9 km in length, and an average of 1.2 m high.
- Due to 'dam' like nature of the structure – unlikely to be easily consented, potential to be over designed in order to meet dam specification requirements, and therefore price estimate may be lower than actual cost.
- Indicative costing of \$740,000

Managed retreat

305 - Leithfield Beach. Looking south-east along Kings Road - 31-07-2008



Photo: ECan



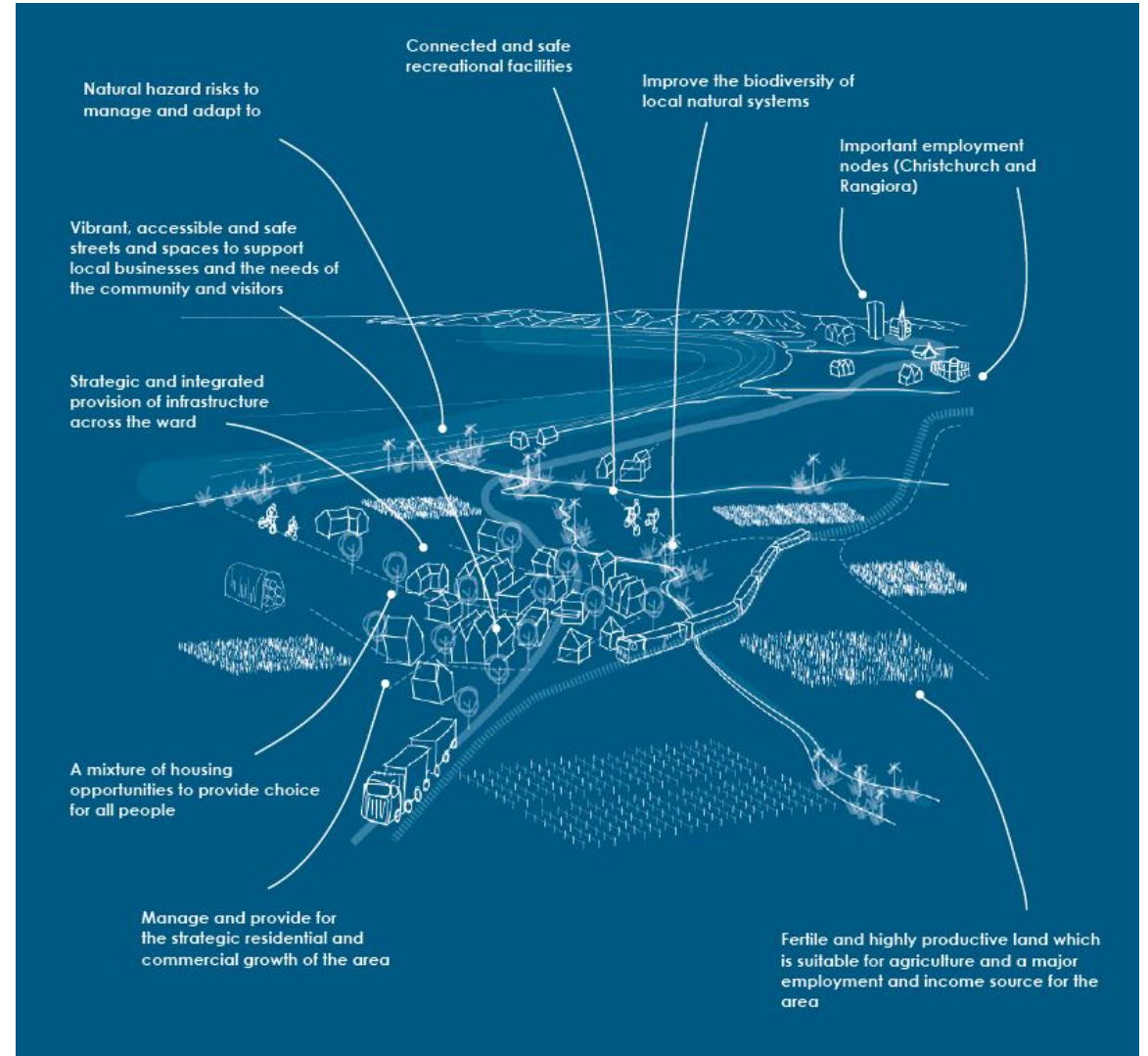
Hurunui District Council

South Ward Spatial Plan

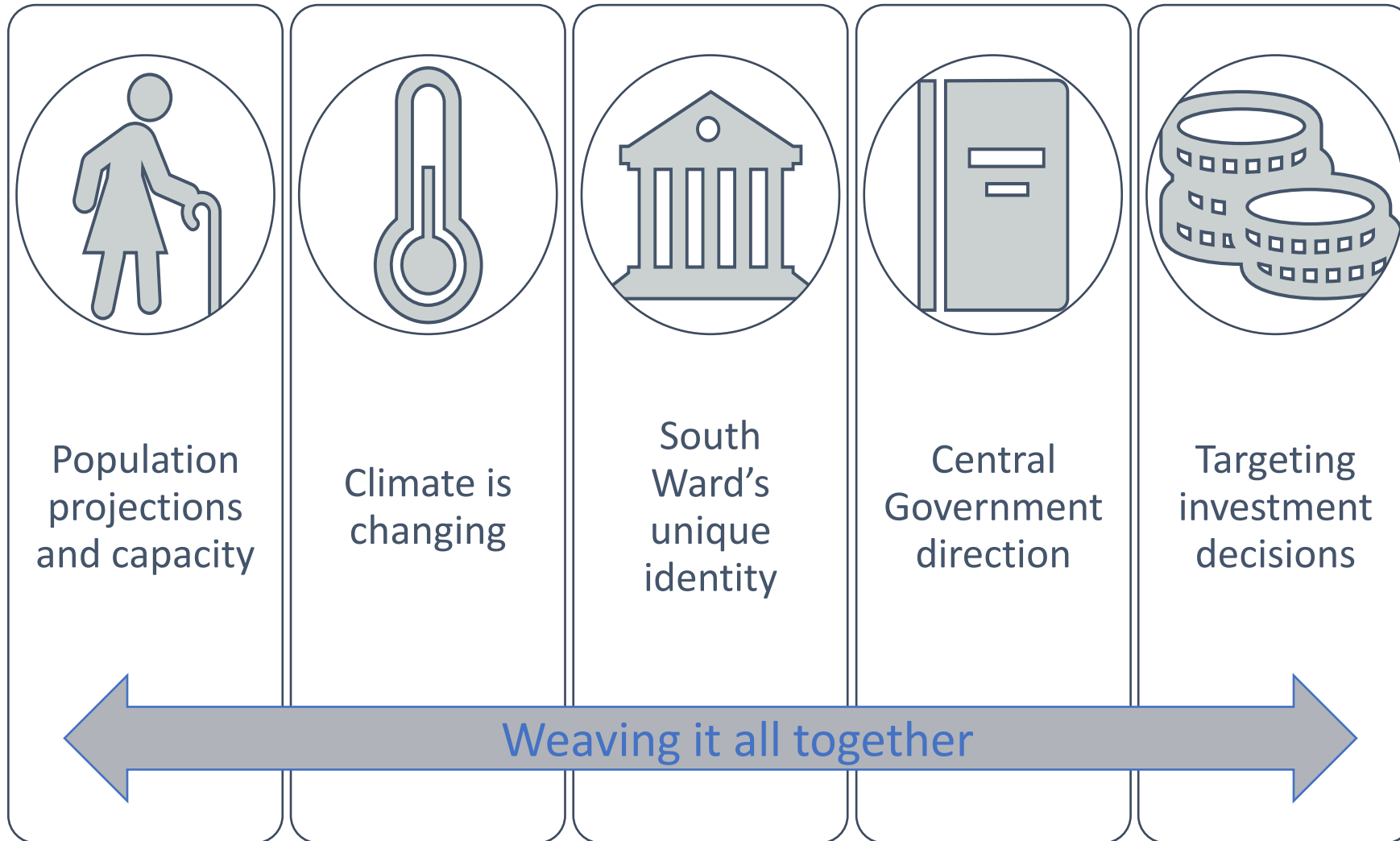
17 April 2023



- Blueprint that sets out where and how we should grow and develop over the next 30+ years
- It identifies:
 - Urban areas
 - Infrastructure needs
 - Areas to protect and enhance
 - Areas subject to constraints
 - Priority areas for investment and action
 - Framework for investment decisions
 - Other strategically significant priorities



What is a Spatial Plan?



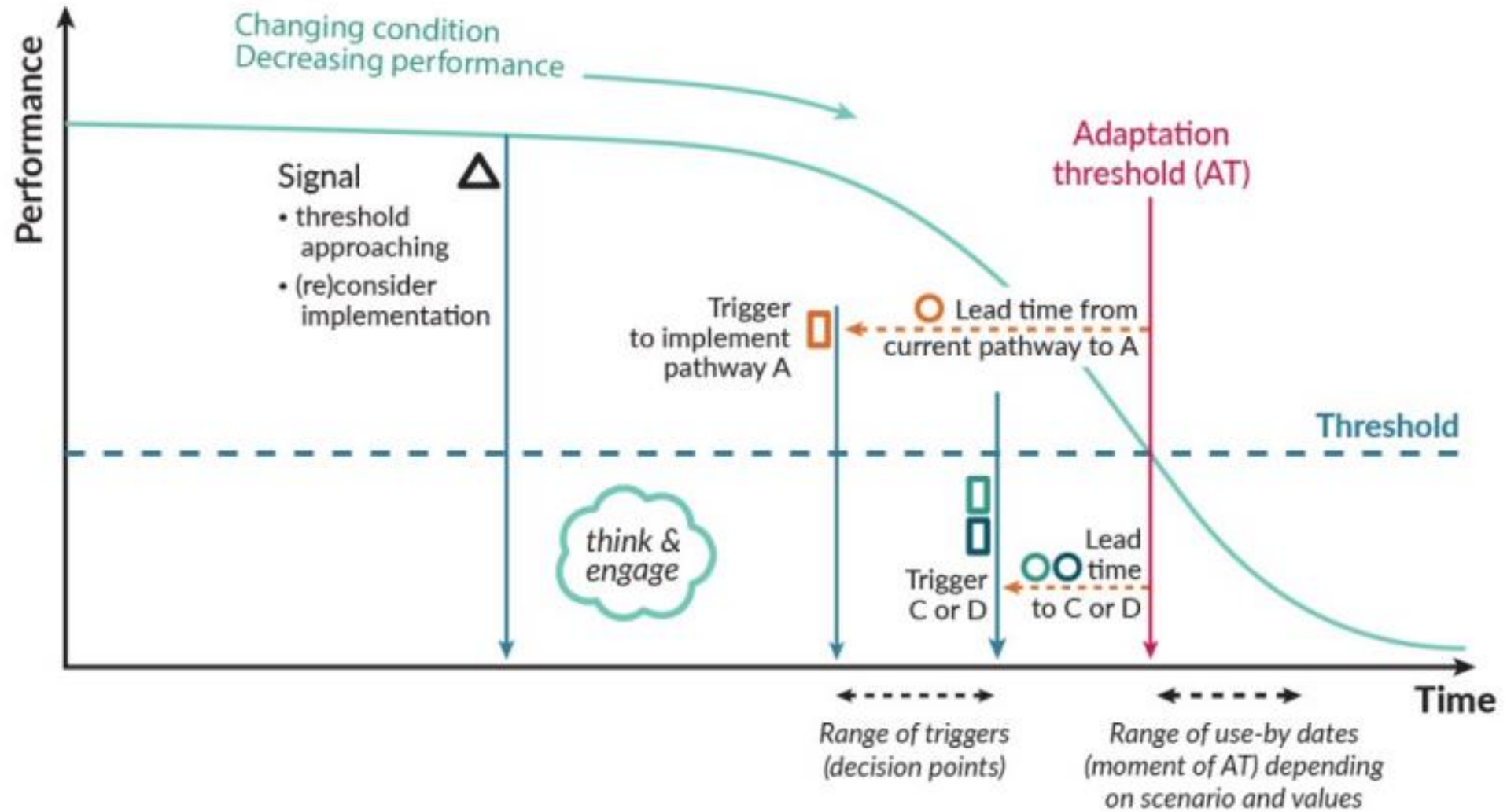
Why it matters

- Gather background information
 - Population projections
 - Meetings with resident associations and other community groups
 - Youth week
- Community engagement round 1
- Analyze feedback and background information
- Develop draft spatial plan
- Community engagement round 2
- Final Spatial Plan complete



Next steps

Triggers



Triggers

Proactive triggers

- Ponding of water is becoming a nuisance? Regularity of flooding is becoming a nuisance?
- Flooding events are of a level that is causing damage to property?
- Threat of insurance retreat?
- Cost of managing the flood risk is too great?
- Groundwater intrusion into sewer system? Seawater intrusion into wastewater pipes?
- New capital works are required?

Reactive triggers

- Large event?