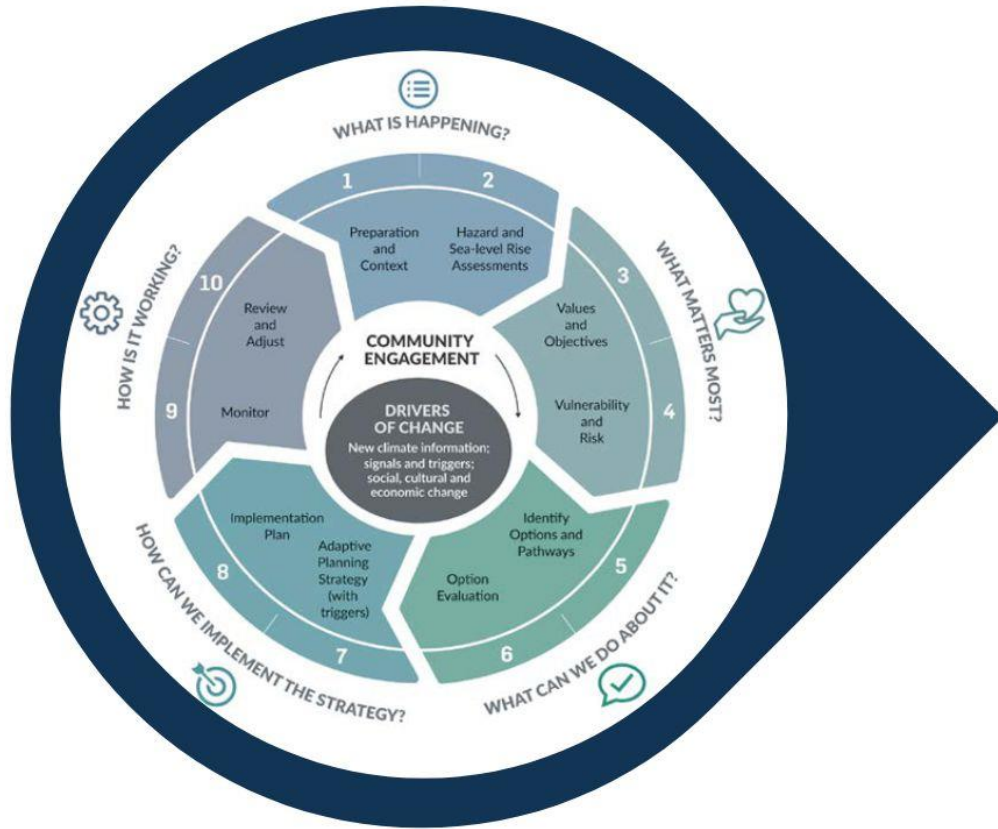


A wide-angle photograph of a coastal landscape. In the foreground, there is a sandy dune covered with dry, golden-brown grasses and some green, low-lying plants. The dune slopes down towards a dark, pebbly beach. The ocean is visible in the middle ground, with gentle waves breaking onto the shore. The sky is a clear, bright blue with a few wispy clouds near the horizon. The sun is reflecting off the water's surface, creating a shimmering effect. The overall scene is peaceful and natural.

COASTAL CONVERSATIONS

Leithfield Beach
13 February 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

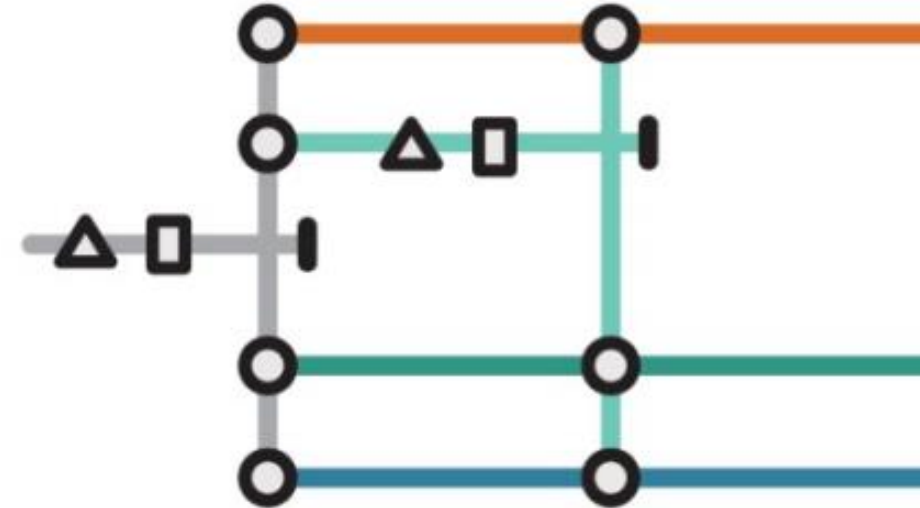
Action A

Action B

Current
situation

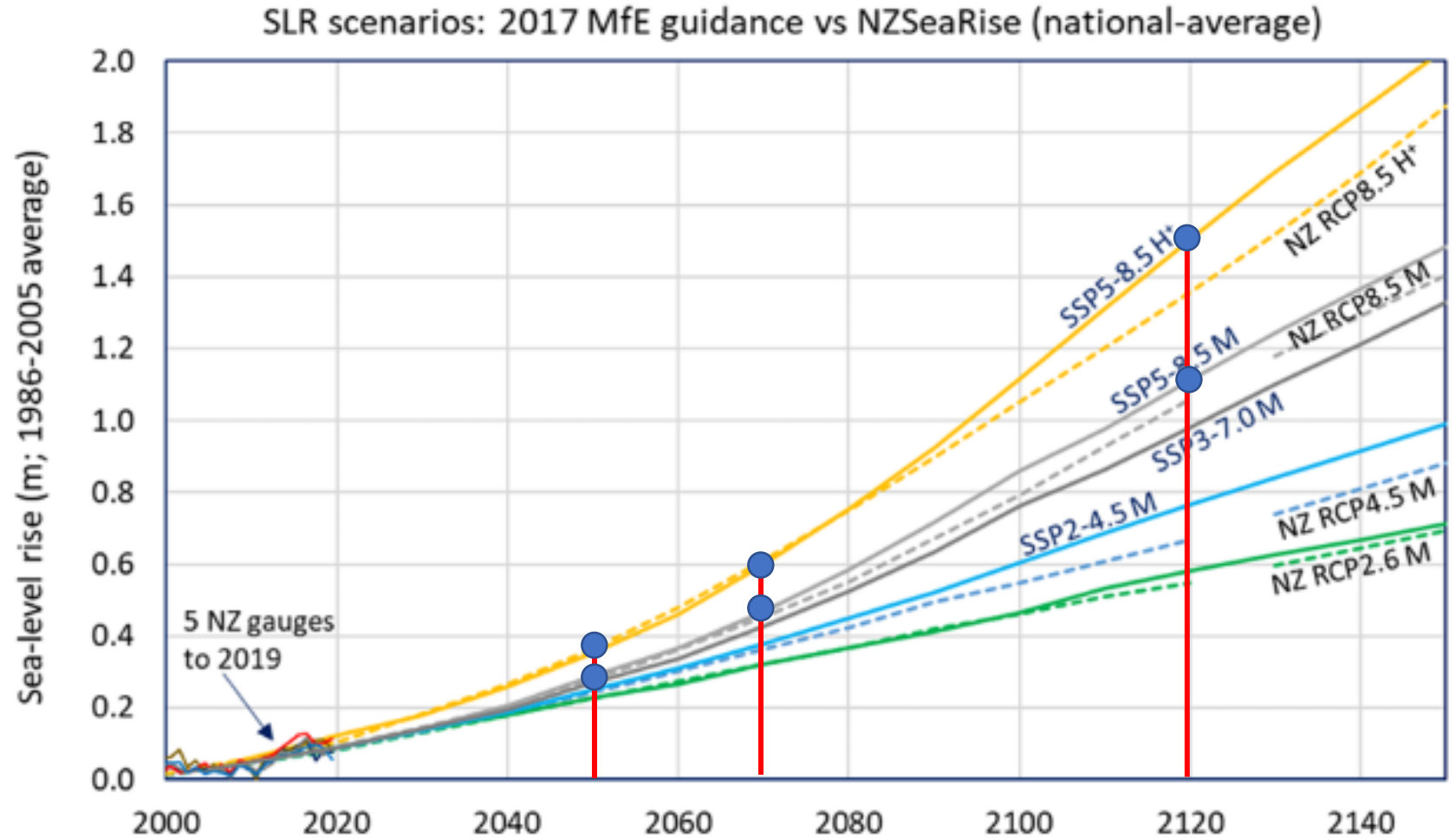
Action C

Action D

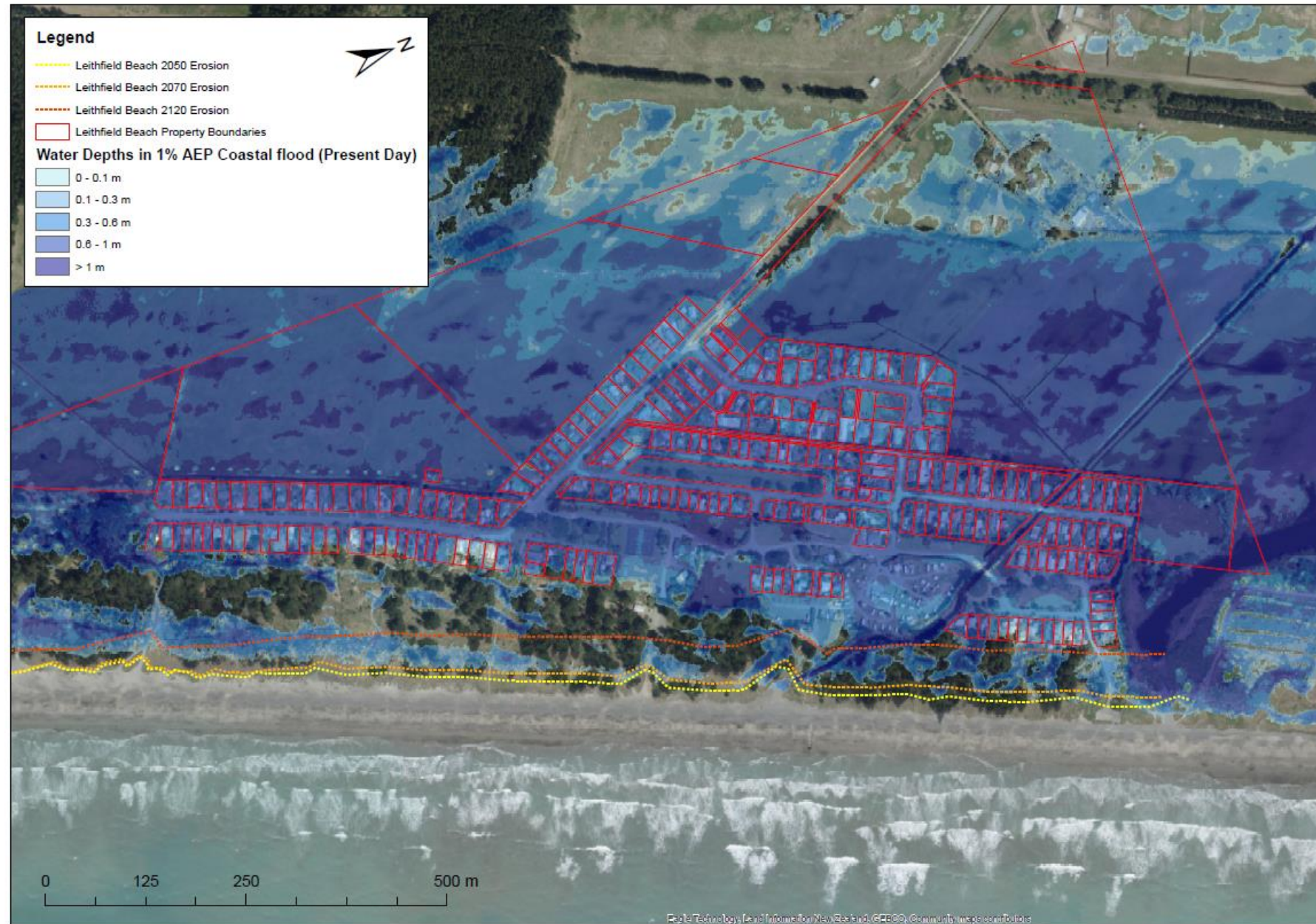


Phase one: What is happening?

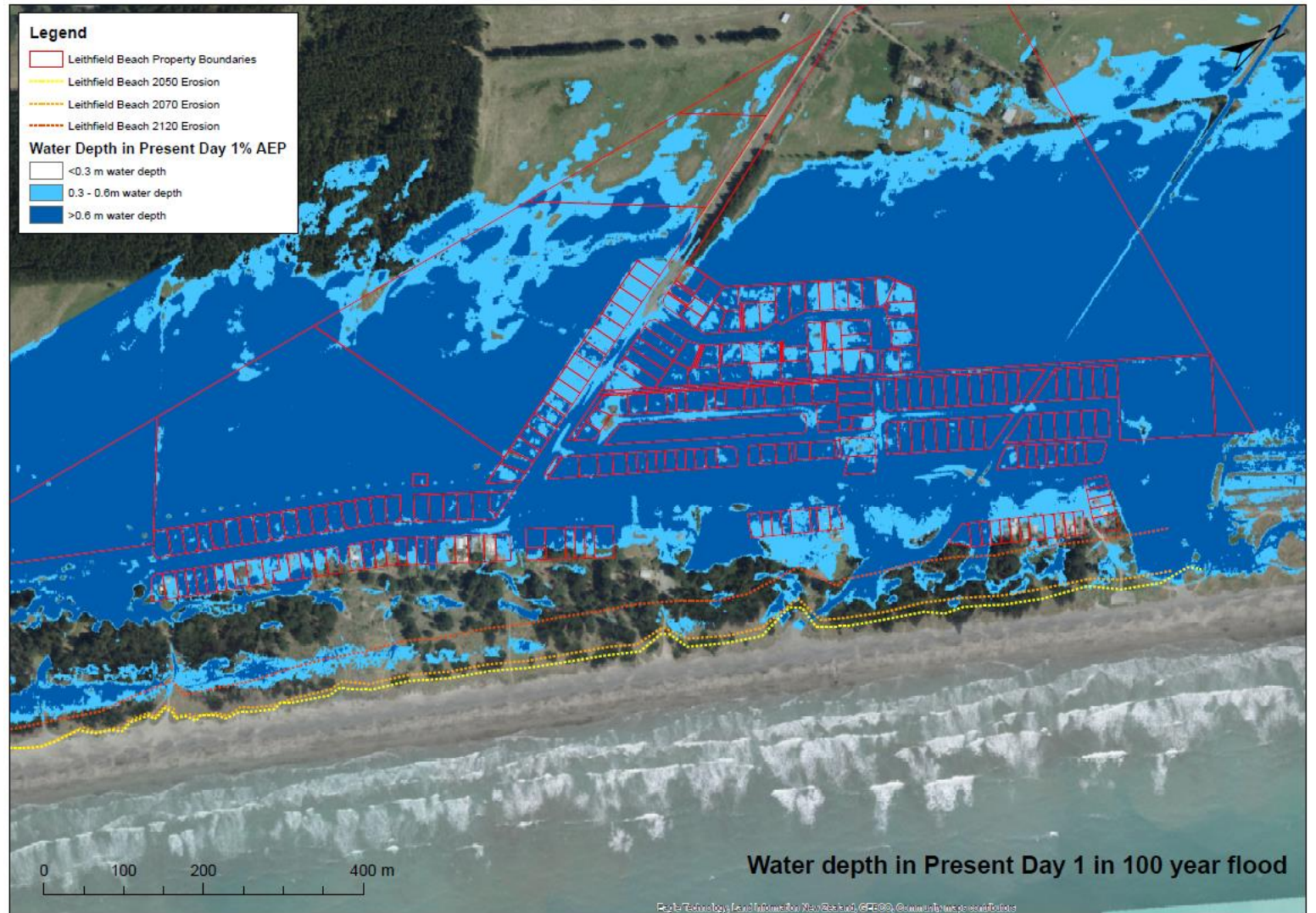
Figure 1: Comparison of new NZSeaRise projections with 2017 coastal hazards guidance projections from 2000 to 2150



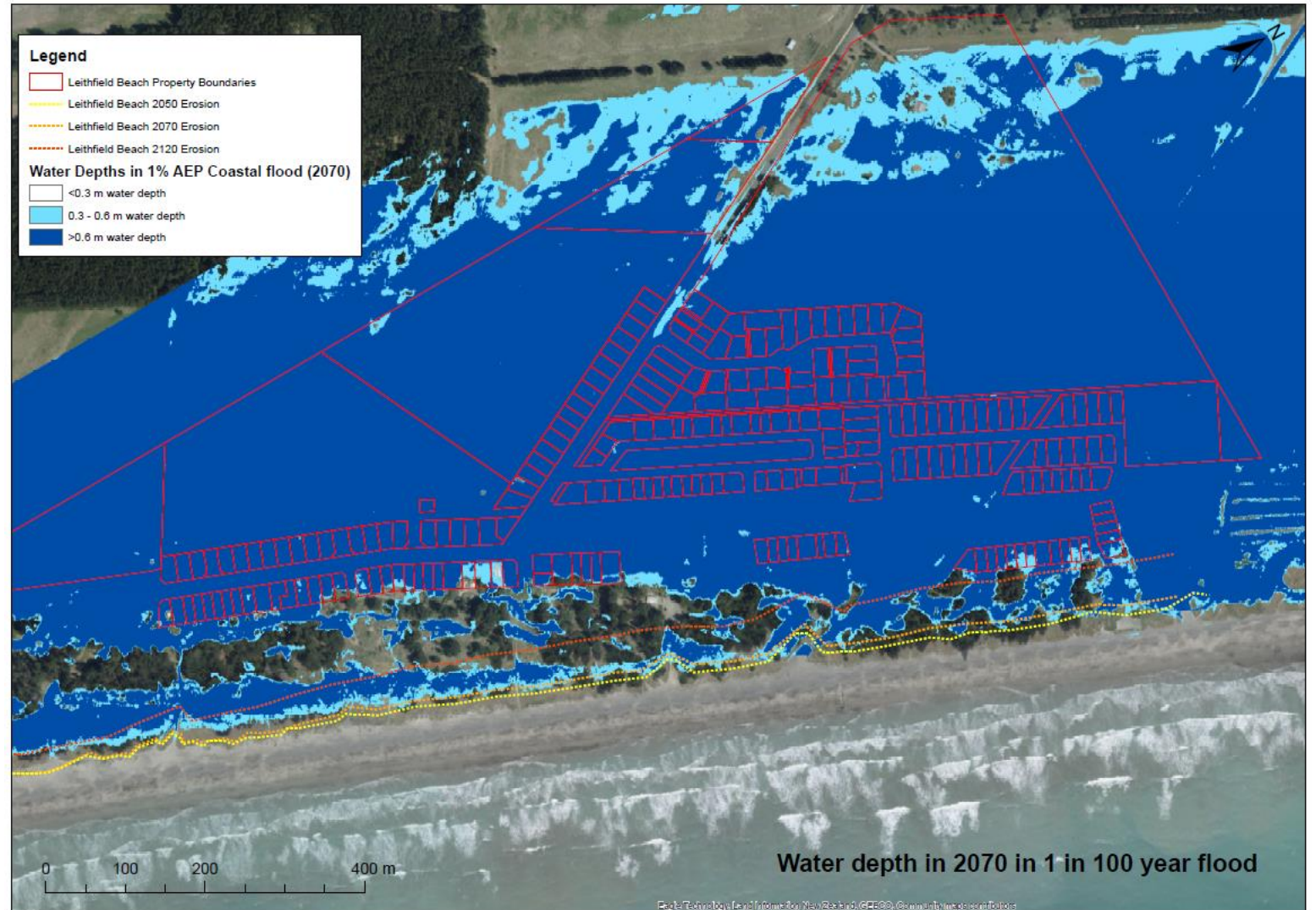
Phase one: What is happening?



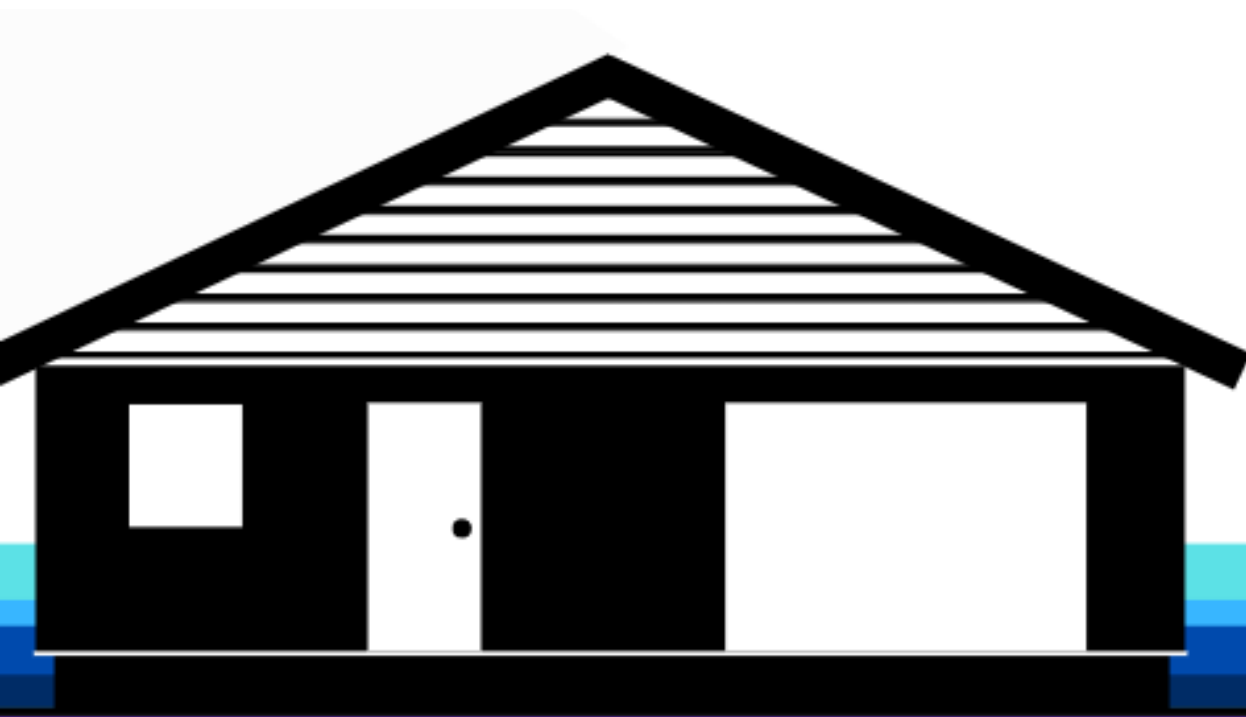
Phase one: What is happening?







Phase one: What is happening?



Phase one: What is happening?



Property on Kowai Street

-  1 in 100 year flood depth in 50 years
-  1 in 100 year flood depth today
-  1 in 10 year flood depth in 50 years
-  1 in 10 year flood depth today



Phase two: What matters most?

What I value most

1 – the most important to you.
2 – the nice to have but not essential to you.
X – the things that aren't that important.

Visual appearance of my settlement

Cultural or historical significance

Feeling of being on holiday

No flooding on access roads

Family connection with the area

Existing trees and vegetation

Recreation trails

Fishing opportunities

No flood water in my house

No flood water on my property

Ability to get insurance for my house

I also value...

Who I live next to

Smell or sound of the ocean

Birdlife

Drinking water security

Community feel

Physical access to beach

Uninhibited vehicle access to my property

Easy walking distance to beach

Ability to dispose of wastewater

Space on beach to play and enjoy

COASTAL CONVERSATIONS
The environment is changing, how will you?

HURUNUI
District Council

Draft objectives:

- Ensure houses are kept free from water and remain insurable and serviceable.
- Retain the authentic and original feel of Leithfield Beach.
- Maintain a well-functioning coastal dune system and continue to promote biodiversity.

Phase three: What can we do about it?

Action A

Action B

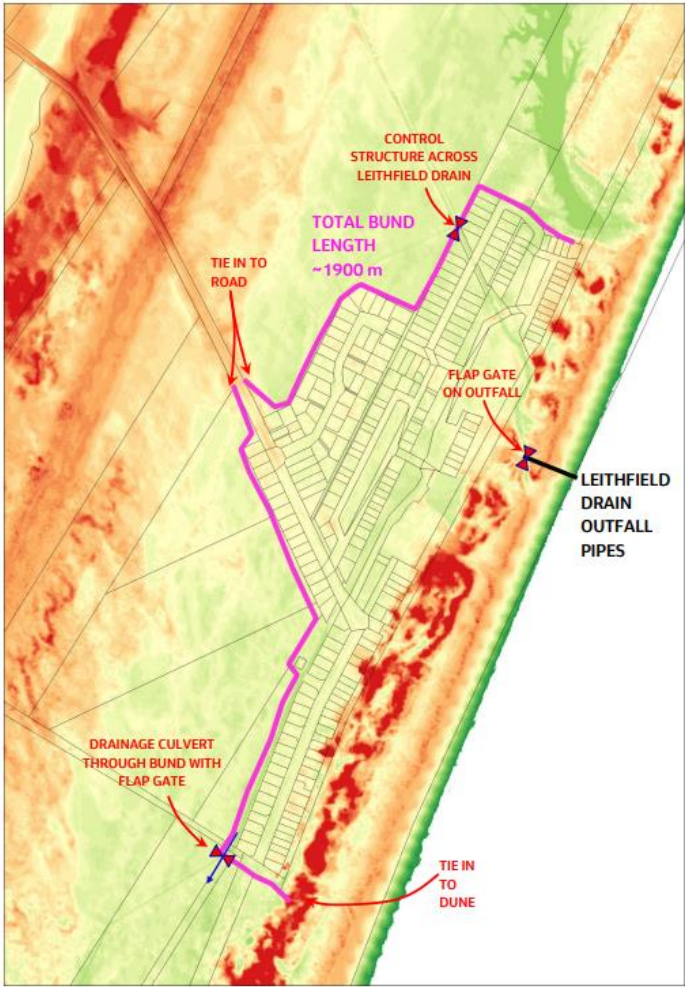
Current
situation

Action C

Action D



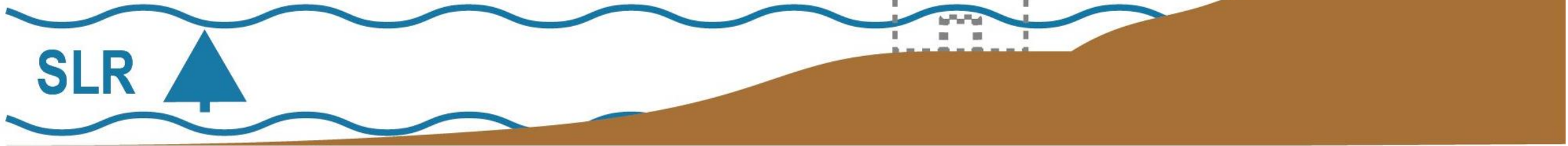
Settlement wide inundation protection – inundation bund vs stop bank



Site specific inundation protection – raising floor heights or waterproofing

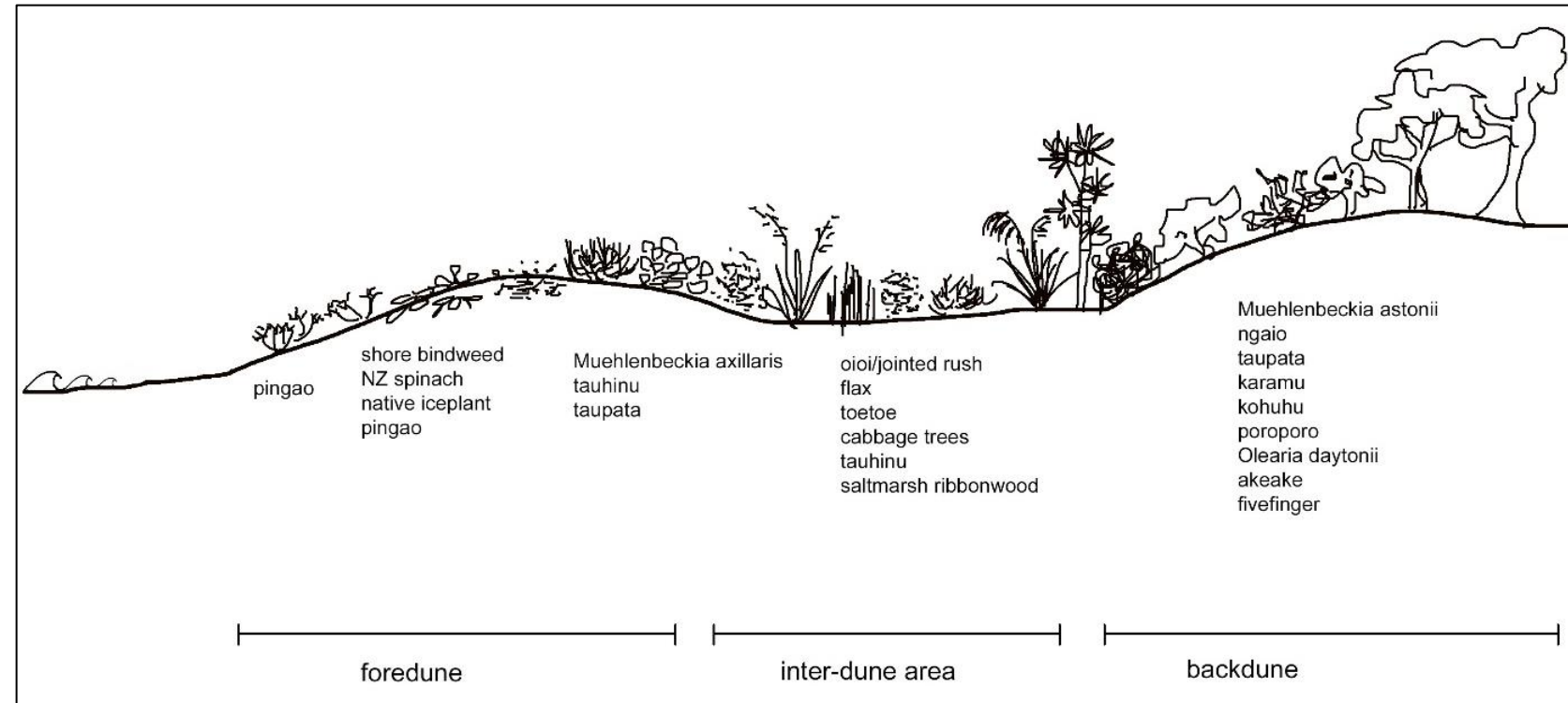


Relocatable dwellings or retreat

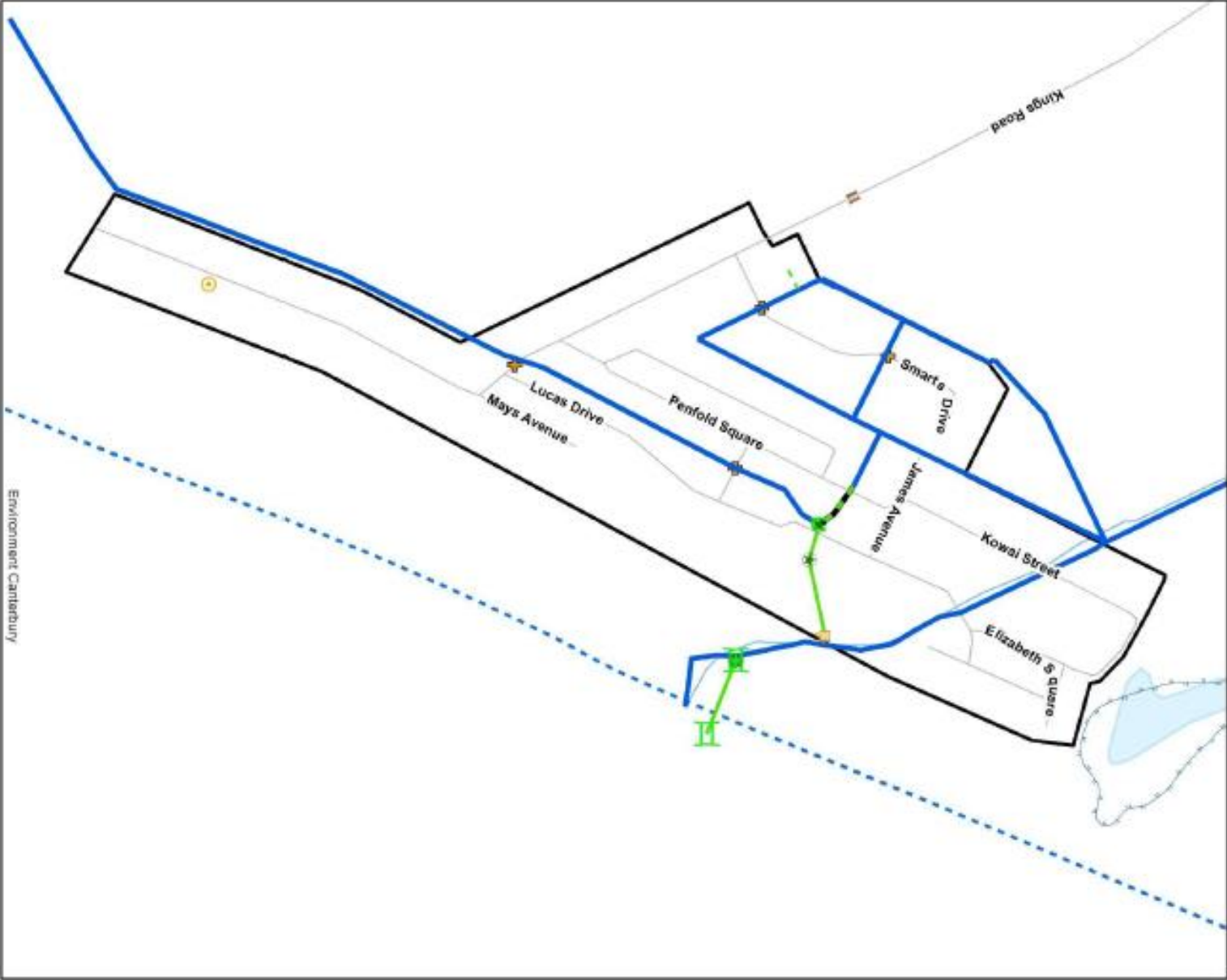


Coastal protection – dune maintenance vs beach scraping

- Importance of the dunes
- Dune management / planting
- Beach scraping



Stormwater maintenance



Next steps

- Do we need to do anything now?
- Do we agree on a trigger where we revisit the options?
- Are there small things we can do in the interim to delay the need for a bigger adaptation?
- Do we need to start putting funds aside?

Example pathway

