

Northern and Central Adaptation Areas: Signals, Triggers and Adaptation Thresholds

CAP Meeting 30th November 2023

Information prepared by TAG

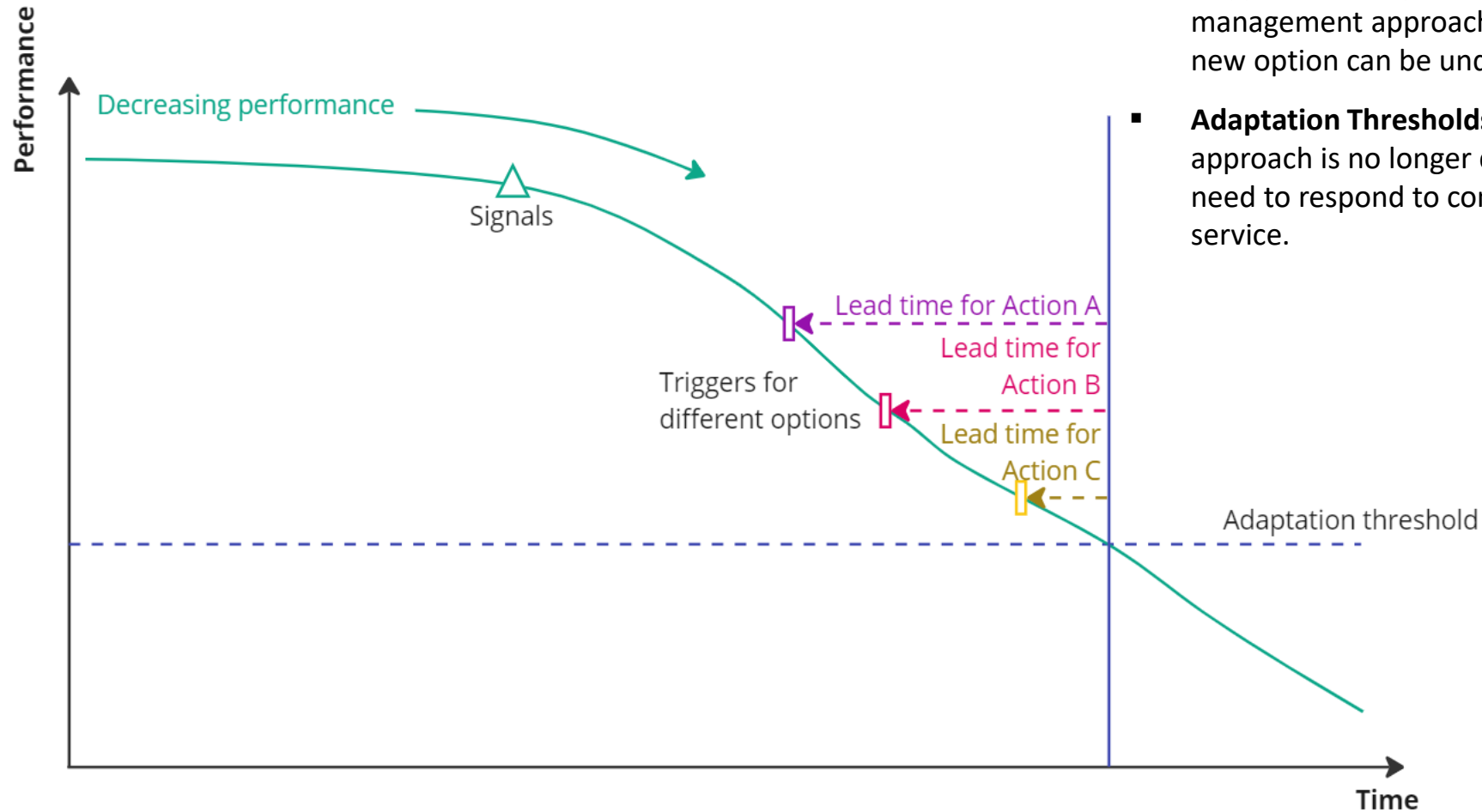


This workshop

This workshop session consists of:

1. Signals, triggers and adaptation thresholds overview
2. Case study – Amberley Beach
3. CAP Recommendations Required: Strawman Thresholds

Signals, Triggers and Adaptation Thresholds



- **Signals** provide early warning that a trigger is approaching. They indicate that we should start thinking about early engagement on the change.
- **Triggers** are the point at which we need to progress a change in the management approach. They allow sufficient lead in time to ensure the new option can be undertaken prior to the threshold being met.
- **Adaptation Thresholds** describe the situation where the management approach is no longer delivering the desired outcome. The thresholds need to respond to community values, risk exposure and agreed levels of service.

Setting Adaptation Thresholds

- **Adaptation Thresholds** describe the situation where the management approach is no longer delivering the desired outcome. The thresholds need to respond to community values, risk exposure and agreed levels of service.
- The situation we do not wish to reach
- Independent of the adaptation action to be implemented
- Is personal to individual communities
- Cover a range of different values and risks

Limitations

- Coastal inundation and erosion pathways only
- Community thresholds only

Setting Triggers and Signals

- **Triggers** are the point at which we need to progress a change in the management approach. They allow sufficient lead in time to ensure the new option can be undertaken prior to the threshold being meet.
- **Signals** provide early warning that a trigger is approaching. They indicate that we should start thinking about early engagement on the change.

- Link to the selected actions
- Link to the selected thresholds
- No regrets decision points
- Monitorable

Adaptation option	Indicative lead in time
Nature based solutions	1-3 years
Soft or hard protection	5 years
Retreat	5-10 years

Amberley Beach Case Study

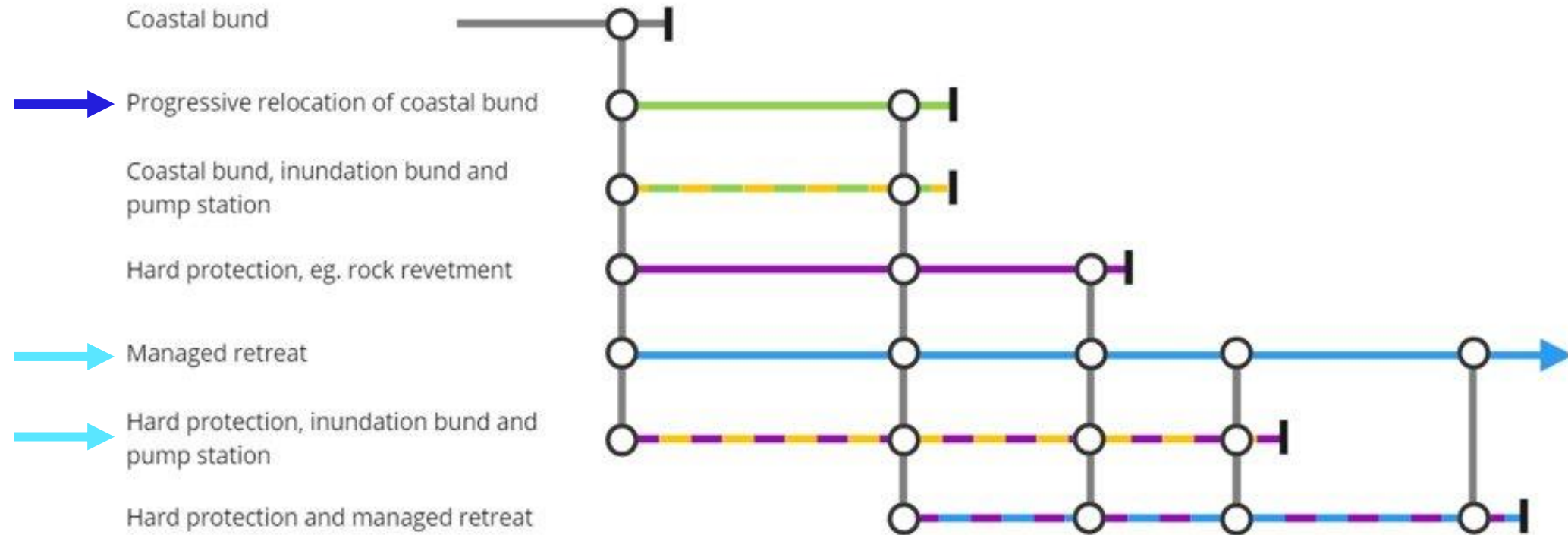
Case study – Amberley Beach

Community Objectives

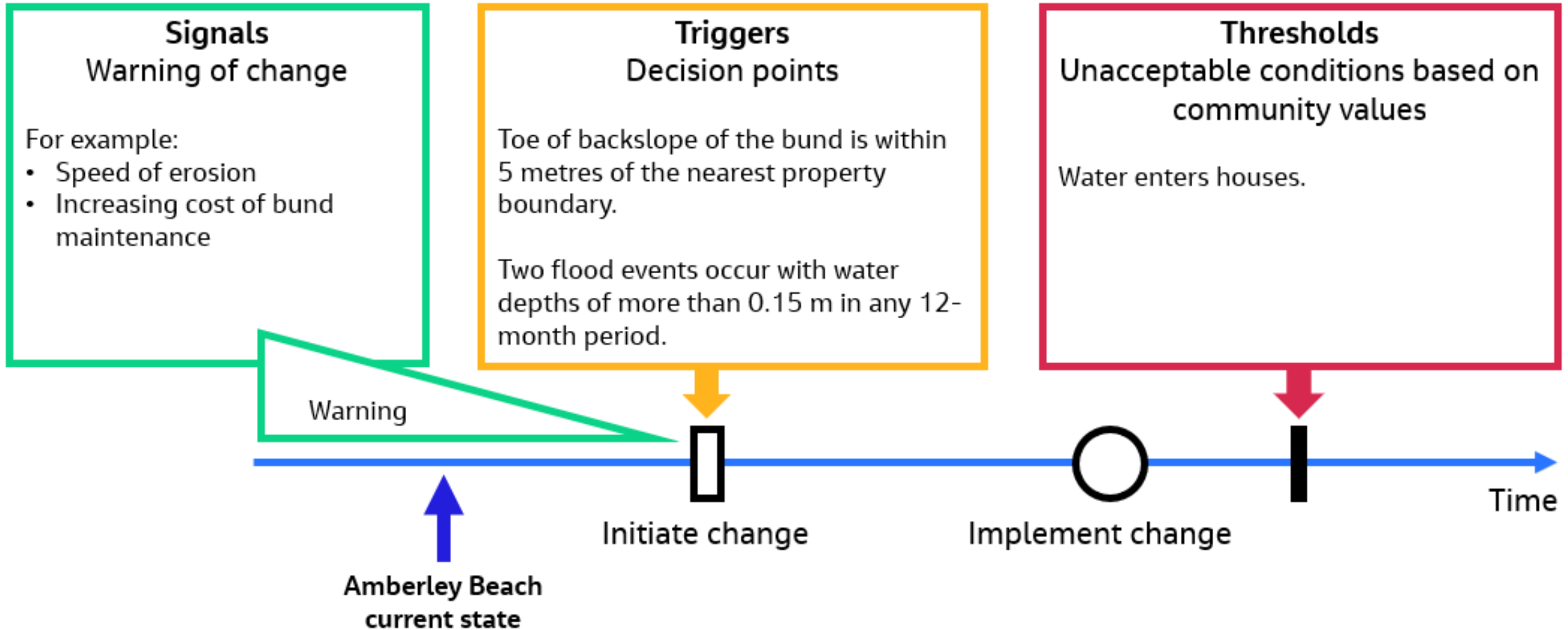
- Ensure houses are kept free from water and remain insurable and serviceable.
- Retain the small-town community feel whereby residents can feel safe and close to the natural environment.
- Secure and safe access is provided to and from Amberley Beach 24/7.



Case study – Amberley Beach



Case study – Amberley Beach



CAP Recommendations Required: Strawman Thresholds

Triggers and Signals – Work Post Takutai Kāpiti and CAP

- CAP has the important job of defining strawman thresholds as part of their recommendation report for Council's consideration. These strawman thresholds could function as a key starting point for Council to directly engage with affected communities in the Kāpiti District after Takutai Kāpiti and the CAP.
- Post Takutai Kāpiti, it is likely Council will work with each Management Unit community to refine, build on, or replace these strawman thresholds.
- Signals and triggers need detail and time with each specific community in order to tailor and achieve community buy in. The detailed community engagement for signals and triggers for each Management Unit is anticipated to occur post Takutai Kāpiti.

Northern Adaptation Area Objective

Secure long-term coastline resilience through nature-based adaptation solutions, where possible, that:

- *Maintains safe access to the beach;*
- *Maintains food basket values (mahinga kai); and*
- *Provides flexibility for the community to respond to increasing sea level rise risks over time.*

Central Adaptation Area Objective

Plan and implement sensible adaptation solutions that recognise the natural and relaxed coastal community feel as the coastline evolves over time by:

- *protecting the mana of the coast, dunes, biodiversity, and river and wetland areas;*
- *utilising natural solutions where practical; and*
- *adapting our public recreation assets and services;*
- *keeping the community informed and involved about the types of solutions and associated costs.*

Thresholds Template

Threshold Name/Subject	Parameters	NAA Erosion	NAA Inundation	CAA Erosion	CAA Inundation
<i>Eg: Dune width</i>	<i>Eg: The dunes at _____ Beach are less than ____ m in width.</i>				

Thresholds Template Continued

Threshold Name/Subject	Parameters	NAA Erosion	NAA Inundation	CAA Erosion	CAA Inundation