

Cape to Cape Resilience Project

PROJECT UPDATE #4: April 2022



The project team has been using the Inverloch Coastal Hazard Assessment (CHA) modelling results, exploring how coastal hazards might interact and impact on values, uses and infrastructure in the region's coastal areas. This understanding is important for informing our adaptation approach.

Technical work update

The completion of the CHA modelling has allowed the project team to begin the next stages of the project with various key technical and strategic assessments. Recent work has included:

- Hazard mapping
- Values, uses and infrastructure database
- Hazard exposure assessment
- Vulnerability and risk
- Economics assessment
- Adaptation option development

Hazard mapping

Estimated as “coastal hazard extents”, mapping the CHA modelling results indicates areas along the Cape to Cape coastlines that may be exposed to inundation (flooding), erosion (sand loss) or sea level rise.

Many maps have been produced by the project team, showing combinations of the different hazard types, storm events and timeframes. This helps to highlight how hazards and exposure varies for each hazard type, storm events, climate conditions and over different timeframes. This spatial understanding informs our understanding of exposure, vulnerability and risk.

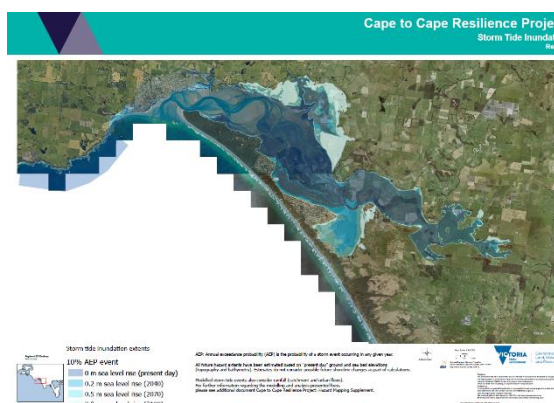
These maps are an excellent way to communicate some of the CHA outcomes with the Cape to Cape community.



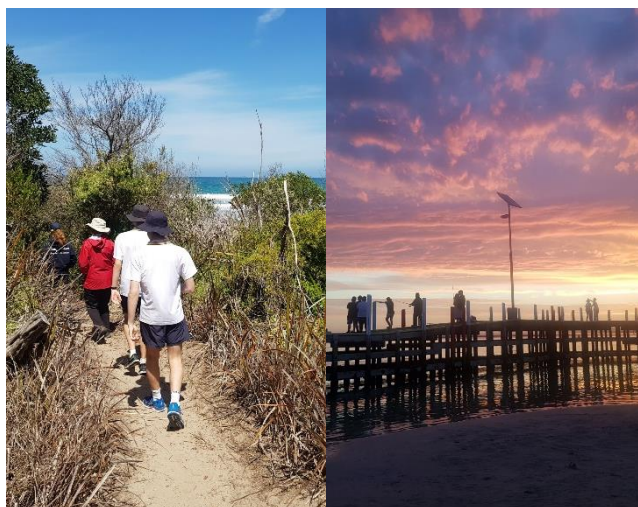
Some of these maps are now available to view on the **Cape to Cape Resilience Project** website

engage.vic.gov.au/cape-cape-resilience-project

Our **Hazard Mapping Information Sheet**, also on our website, explains more about the maps and provides you with additional information on the maps to better interpret of coastal hazard.



Cape to Cape Resilience Project



Values, uses and infrastructure database

Building on the Community Values Study, the Cultural Values Assessment and the extensive data gathering undertaken early on in the project, we have created a spatial database of local values, uses and infrastructure. This includes:



Hazard exposure

Using the hazard extents and the spatial database of values, uses and infrastructure, we have assessed what things we have located in the hazard areas that may potentially be impacted by hazards. This assessment has calculated lengths, areas and counts of values and assets that may be exposed to each hazard event.

Vulnerability and risk

Guided by our tailored risk framework, we are using the results of the exposure analysis to inform the risk and vulnerability assessment. Our analysis combines likelihood of the coastal hazard (i.e. a hazard event) and the potential consequence to the value/use exposed to that hazard. We will then be able to quantify risk, which will help us strategically prioritise and manage (mitigate) risk, through adaptation.

Economics assessment

Our economic analysis is also using the exposure analysis to establish an economic “base case”. This assessment can be used to help justify the case for adaptation, providing an understanding of potential financial costs of hazards (through damages and loss) without adaptation (intervention).

Part of this work looks to explore the value of a sandy and accessible Inverloch Surf Beach in driving tourism and visitation, and its role in the local economy.

Engagement update

In recent months, we have had a range of workshops with our project working group (PWG) and project control board (PCB), as well as with various land and asset managers, discussing key outcomes from the technical work.

We've also met several times with our Stakeholder Reference Group (SRG), with workshops on:

- Approach to risk (virtually, Dec 2021)
- Exposure, risk and adaptation (in-person, Mar 2022)



Recent SRG workshop on exposure, risk and adaptation

These sessions have allowed us to share key project findings to date and to discuss potential implications for the region. Feedback from our community representatives is guiding the next stages of our strategic thinking.

Cape to Cape Resilience Project

Upcoming community engagement

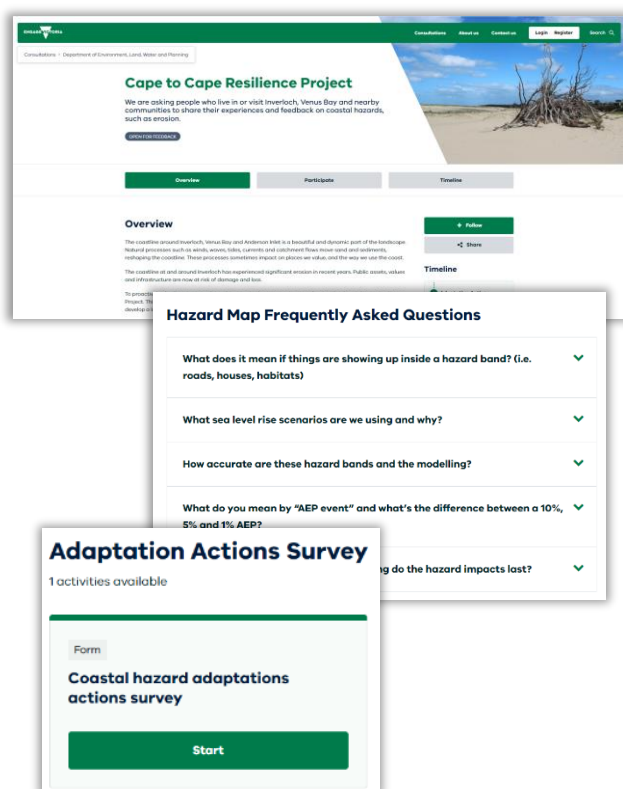
The community continue to have a role in informing our adaptation approach, including adaptation actions that we consider for managing hazard risk.

We have just launched our next round of online engagement the Cape to Cape Resilience Project website. We're keen to hear your views, ideas.



Visit our Engage Victoria page at engage.vic.gov.au/cape-cape-resilience-project

There are also maps, new factsheets, and summaries of some of the earlier technical work



Next steps

As we complete different sections of the technical work, we are establishing a better understanding of hazards and risks. We are starting to bring together what we know from all the work so far, and we're now using it to start shaping up potential adaptation options.



Further information about coastal hazard adaptation can be found in [Factsheet #6 Strategic approach to adaptation](#) and [Factsheet #7 Adaptation actions](#)

How can I get involved?

To ensure you keep up to date with the Cape to Cape Resilience Project and upcoming events and activities:

- Visit the project website at marineandcoasts.vic.gov.au/coastal-programs/cape-to-cape-resilience-project
- Sign-up to receive progress updates and notifications – email capetocape.project@delwp.vic.gov.au
- Read our latest factsheets via the website
- Ask us a question – email capetocape.project@delwp.vic.gov.au
- Visit our Engage Victoria page at engage.vic.gov.au/cape-cape-resilience-project

© The State of Victoria Department of Environment, Land, Water and Planning 2022



This work is licensed under a Creative Commons Attribution 4.0 International licence. You are free to re-use the work under that licence, on the condition that you credit the State of Victoria as author. The licence does not apply to any images, photographs or branding, including the Victorian Coat of Arms, the Victorian Government logo and the Department of Environment, Land, Water and Planning (DELWP) logo. To view a copy of this licence, visit <http://creativecommons.org/licenses/by/4.0/>

ISBN 978-1-76105-956-8 (pdf/online/MS word)

Disclaimer

This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication.

Accessibility

If you would like to receive this publication in an alternative format, please telephone the DELWP Customer Service Centre on 136186, email customer.service@delwp.vic.gov.au, or via the National Relay Service on 133 677 www.relayservice.com.au. This document is also available on the internet at www.delwp.vic.gov.au.