

RESILIENCE VALUATION INITIATIVE CASE STUDY

Enabling Resilience Investment Approach: Port Adelaide Enfield



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Summary

- The Port Adelaide Enfield area is vulnerable to climate hazards including flooding, coastal erosion, heatwaves and increasingly frequent and severe weather events.
- The Enabling Resilience Investment approach is being applied to inform the development of interventions to reduce disaster risk and create opportunities to improve social, economic and environmental outcomes for the community.
- Once a shared vision and pathways to build resilience are established, the next phase will be to generate resilience investment cases and identify funding for specific interventions.

Decision Type

- Community resilience

Level of analysis

- Bottom-up, locally-led approach

Outputs generated

- Measures of value generated by resilience, encompassing community capacities, job creation, productivity, income and ecosystem health

Outcomes

- Develop suitable interventions to manage risk and build resilience
- Build a business case for investment in resilience-building interventions

Next steps

- Resilience-building measures implemented
- Lessons learned to build capabilities and scale up the Enabling Resilience Investment (ERI) approach

Exposure to hazards

The Port Adelaide Enfield area is prone to regular coastal and stormwater flooding, inundation, coastal erosion and heatwaves. The intensity and frequency of these hazardous events are expected to increase due to impacts of climate change and local land subsidence (downward movement of the ground).

Port Adelaide Enfield is made up of residential areas, recreation/reserves, marina, port, defence, power station and industrial areas.

Key Stakeholders

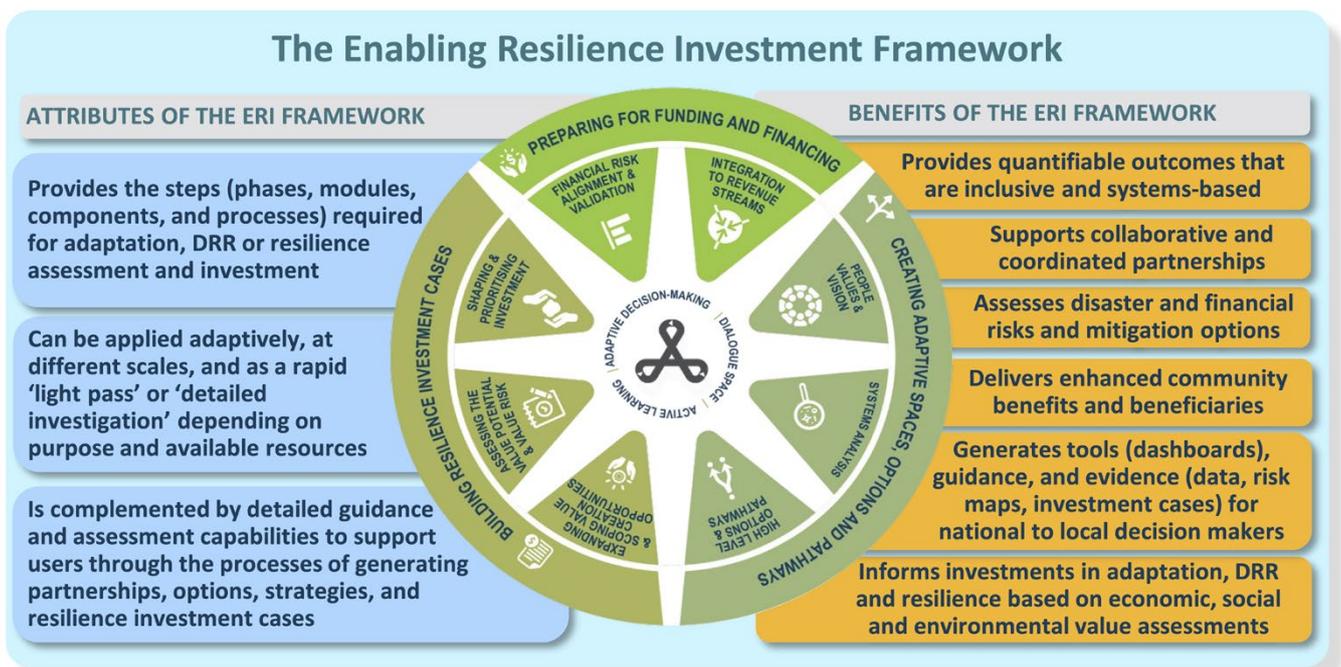
CSIRO, Value Advisory Partners and the University of Adelaide have been collaborating with the Port Adelaide Enfield local council and State Government agencies since December 2020 to develop potential opportunities and investment cases which would create value and reduce climate and disaster risk in the Inner and Outer Harbour areas of Port Adelaide. The initial focus is on coastal protection infrastructure.

About the ERI methodology

The Enabling Resilience Investment (ERI) Framework provides the over-arching framing of the engagement, assessment and learning activities, methodologies that make up the approach.

The ERI is used to generate place-based risk mitigation options for communities in cities, suburbs and rural and

regional Australia. It allows users to identify the beneficial outcomes of the options such as jobs, infrastructure, social capital, natural capital, and increased economic activity which supports the case for funding and potentially investment. In doing so, the approach supports communities, regions and economies to recover, transition, and develop towards sustainable, well-adapted and disaster-resilient futures.



Outcomes for our cities

- I have access to great job opportunities
- I feel at ease knowing my retirement savings are invested in assets that are climate resilient
- My workplace contributes to facilitating Australia's transition to a carbon neutral economy
- My commute to work is sustainable, safe and reliable
- I am helping us build a smarter, greener city

Benefits for our suburbs

- This is a great place for our growing family to settle down in
- I feel connected to and supported by my community
- My home and investment properties are safeguarded against the impacts of sea level rise
- I can easily access high quality amenity and services
- I am well educated about the importance of making our communities more resilient to climate change

Enhancing rural & regional Australia

- I employ industry best practices that reduce livestock emissions while increasing productivity and resilience at the same time
- I can access the jobs and services I need in growing regional centres
- Sustainable tourism in regional Australia is thriving
- I am well prepared for the bushfire season
- The diversity of our native flora and fauna is better conserved

Understanding the value of investing in resilience-building measures

As well as understanding a global view of the physical risk, this case study focused on building an investment case for resilience building assets in Port Adelaide Enfield, by:

- Identifying new value creation and funding strategies
- Evaluating community benefits and beneficiaries
- Facilitating collaborative and coordinated partnerships

By exploring different scenarios of what could happen at Port Adelaide Enfield, this project was able to identify opportunities that build resilience to disaster and climate hazards while also creating social, economic and environmental value for the benefit of the local community. This information will be used to enhance decision-making around how to reduce climate and disaster risk.

This first phase of work has demonstrated a viable investment case that creates social, environmental and economic value for multiple beneficiaries through interventions that mitigate climate and disaster risks.

The next phase will focus on working with the community and diverse stakeholders to create a shared vision of what a well-adapted and disaster resilient future looks like, along with robust options and pathways towards that future. The ERI framework will also support the creation of investment cases to bring public and private funding and financing to resilience-building projects.

Results

It is expected these efforts and activities will generate benefits to communities and for the region by identifying place-based risk mitigation and resilience building actions, along with fundable opportunities that benefit the economy, community and the environment. It will also serve as a demonstration of a successful resilience investment case, developed using the ERI approach and will generate lessons and capabilities for subsequent scaling up.

How results can be utilised in the future

This framework of processes, assessment methods, tools and guidance support users to generate and explore future options and pathways to adapt to climate change and build resilience to disasters. It supports users to identify the value these options generate which can underpin the development of business cases for investment in identified options.

The ERI Framework can be used at any level or stage of decision making to:

- Address gaps in knowledge
- Reveal important tensions and trade-offs in value priorities
- Create governance that generates a wider set of adaptive options and pathways.

More information

Find out more at: www.research.csiro.au/enabling-resilience-investment

For more information about the Resilience Valuation Initiative: www.resiliencevaluation.com.au
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