

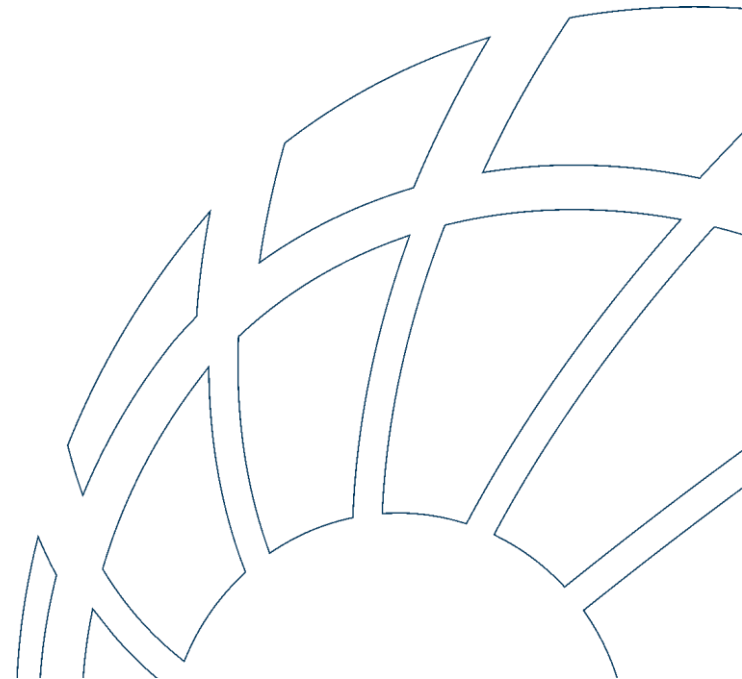


# Coochiemudlo Island SEMP

Jessie Cullen

Jeremy Visser

Malcolm Andrews

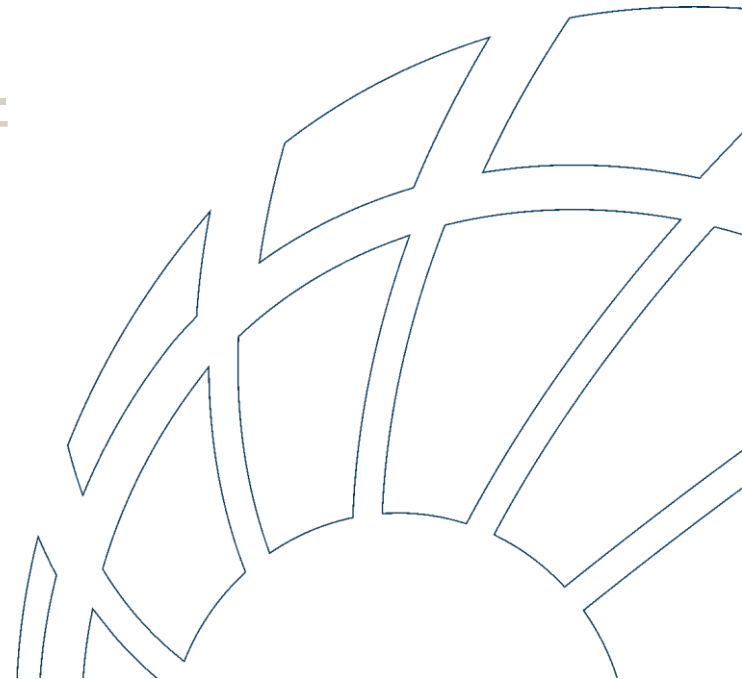


# Coastal Adaptation Strategy (CHAS Part 1: Current Hazards

At adoption, identified 44 (now 65) Coastal Hazard locations across Redland City, 7 on Coochiemudlo Island.

Recommended further detailed planning in the form of a Shoreline Erosion Management Plan (SEMP) for Coochiemudlo Island.

<https://yoursay.redland.qld.gov.au/coastal-adaptation>

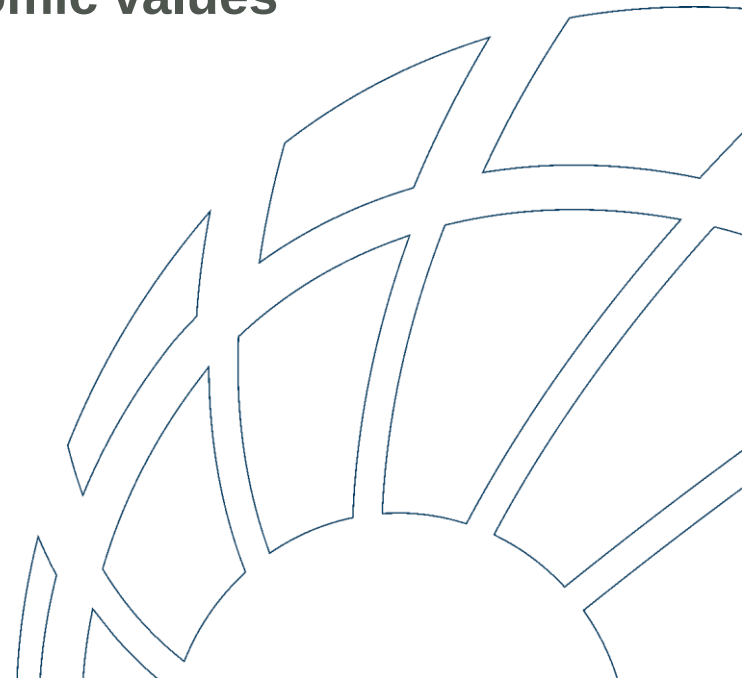


# The Purpose of a SEMP

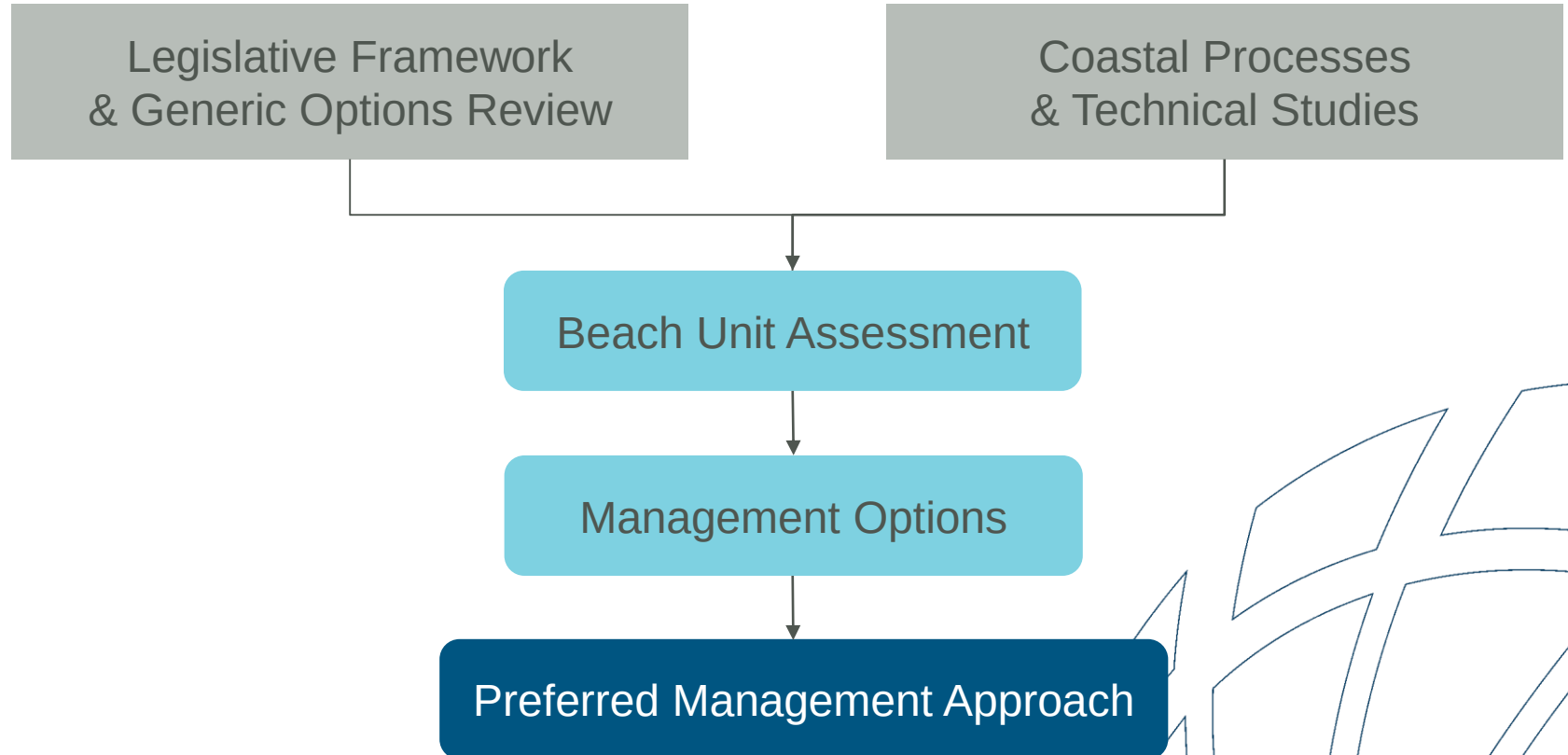
**Proactive planning for short to medium term future shoreline erosion management**

**Investigate causes and likely future progression of shoreline erosion**

**Determine management strategies to maintain or enhance social, environmental and economic values**

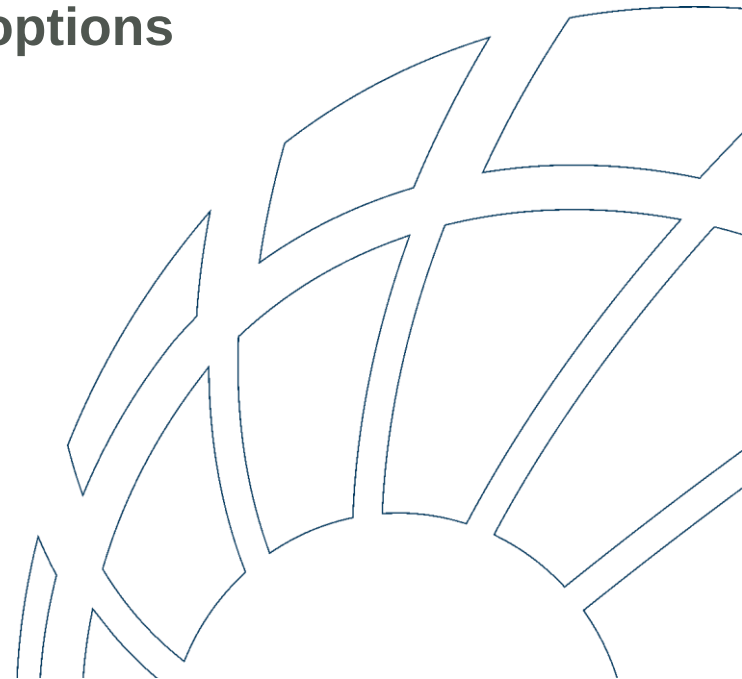


# The SEMP Process



# The SEMP Process

- Community and stakeholder engagement
- Assessment, identification and review of factors comprising risk, physical coastal processes, implementation strategies and responses (Shoreline Erosion Management Study).
- Identification of preferred management options
- Implementation Strategy.



# Previous study: Norfolk Beach Shoreline Erosion Study

Identified points controlling movement of sand around the island (control points).

Identified broad sand transport pathways.

Whole island considered in a general sense however study was focused on erosion at Norfolk Beach



# SEMP Stage 1: Shoreline Erosion Management Study

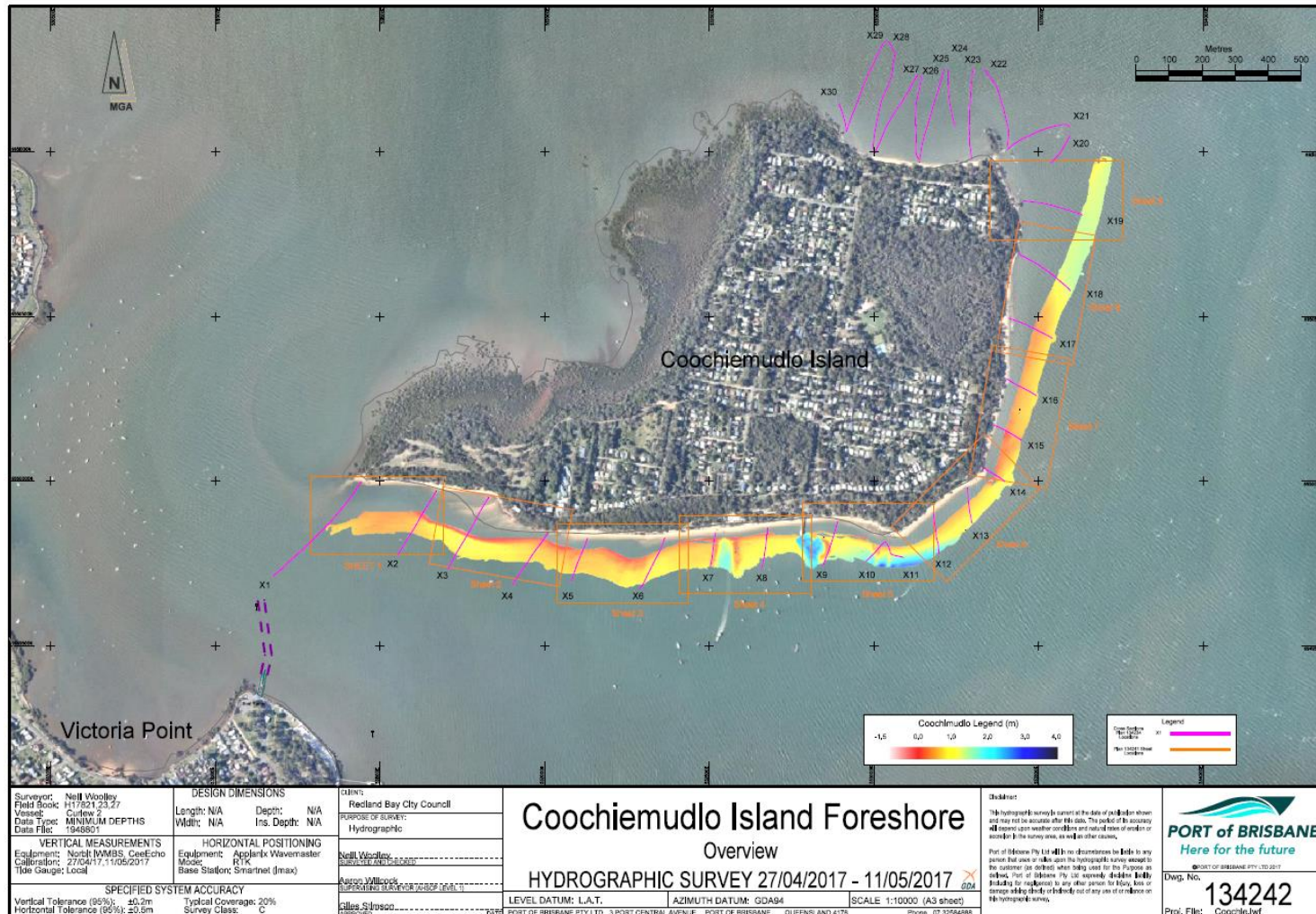
- Build on and extend the Norfolk Beach Shoreline Erosion Study
- Inspection at low tide to identify seaward extent of rocks/reef (proposed for early October)
- Extended and refined modelling with updated bathymetry to include recent survey
- Collation of any additional information relating to Coochiemudlo Island and regional processes, including ortho-rectified historical photos from DES.

<http://qgsp.maps.arcgis.com/apps/webappviewer/index.html?id=a61bfcc194994550ab81302aa7236ede>

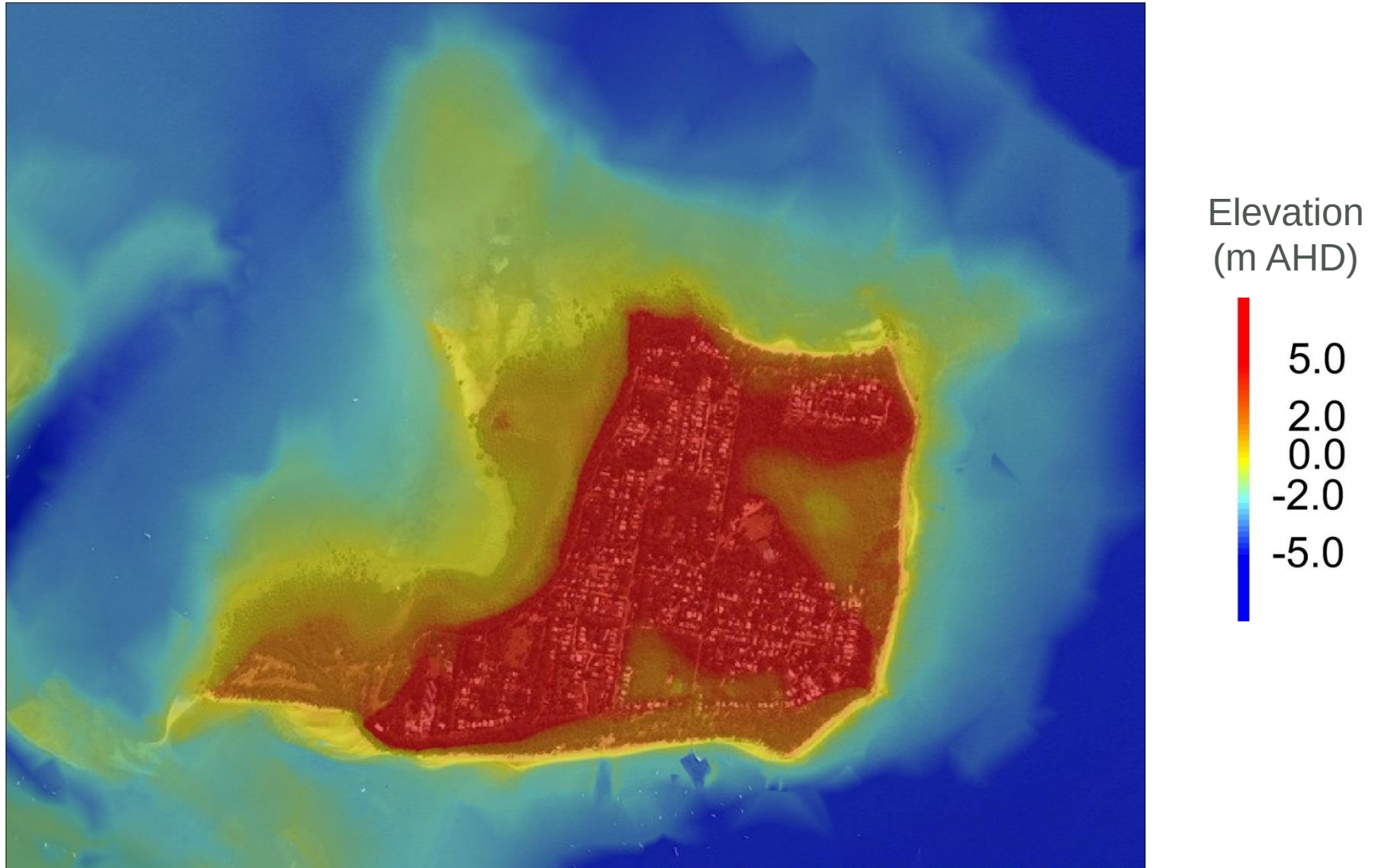


# SEMP Stage 1: Shoreline Erosion Management Study

## 2017 Bathymetric Survey



# SEMP Stage 1: Shoreline Erosion Management Study

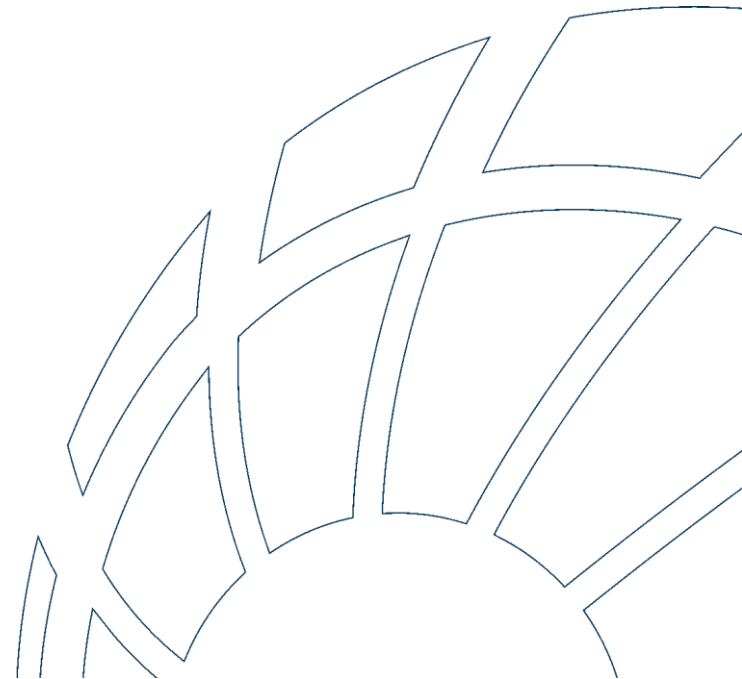




- 
- LEGEND**
- Colonnade Boundary
  - Mandurah Bay Marine Park
  - Habitat Protection Zone
  - Designated Area - mooring area
- DATA SOURCES:**  
 coastline  
 Mandurah Bay Marine Park  
 Google  
 Colonnade boundaries  
 MCA/MRPA  
 Aerial photography
- Notes**
- Protected Areas in the Norfolk Beach SES Area**
- 84° W88° advance notice is given that the information provided in this map is not an official map of the Commonwealth of Australia and is not intended to be used for legal purposes. It is provided for information only and is not intended to be used for legal purposes.
- Figure 2-4**
- Scale**
- 0 1000m
- North**
- BMT WBM**  
 www.bmtwm.com.au

# Shoreline Erosion Management Plan and Operational Plan.

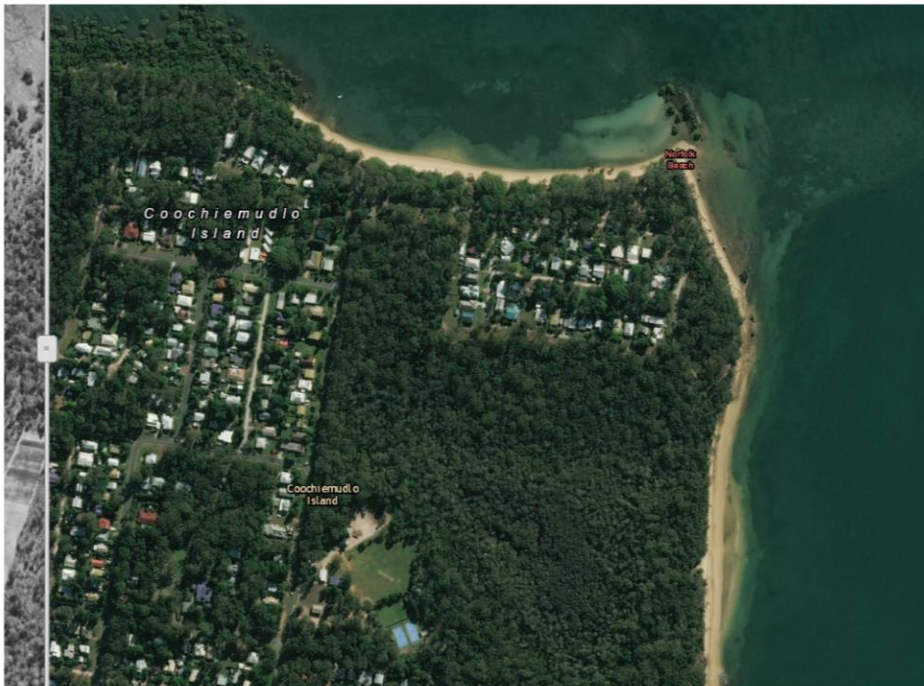
- To be informed by the outcome of the Shoreline Erosion Management Study and through consultation with stakeholders.
- Identify the preferred management option/s for each beach compartment
- Develop a strategy for implementation.



<http://qgsp.maps.arcgis.com/apps/webappviewer/index.html?id=a61bfcc194994550ab81302aa7236ede>

Images from 1955, 1997,  
2012 and 2015

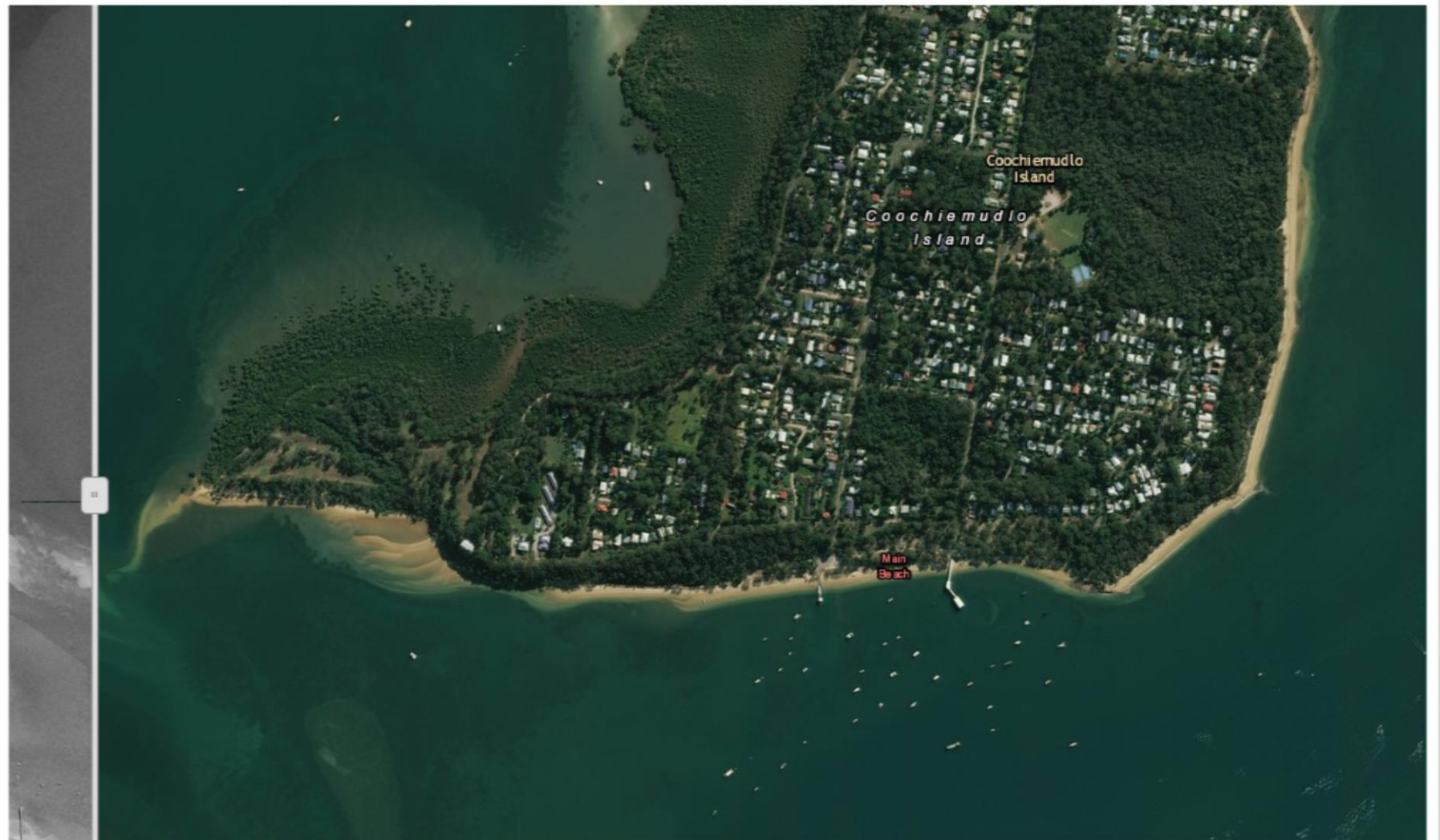
(1955 and 2015 shown)



Important to note that the photos are composite images (1955 photos are a composite of aerial photos from 1955 to 1958) and are likely to be at different times in the tide cycle.



1955 and 2015



1955 and 2015