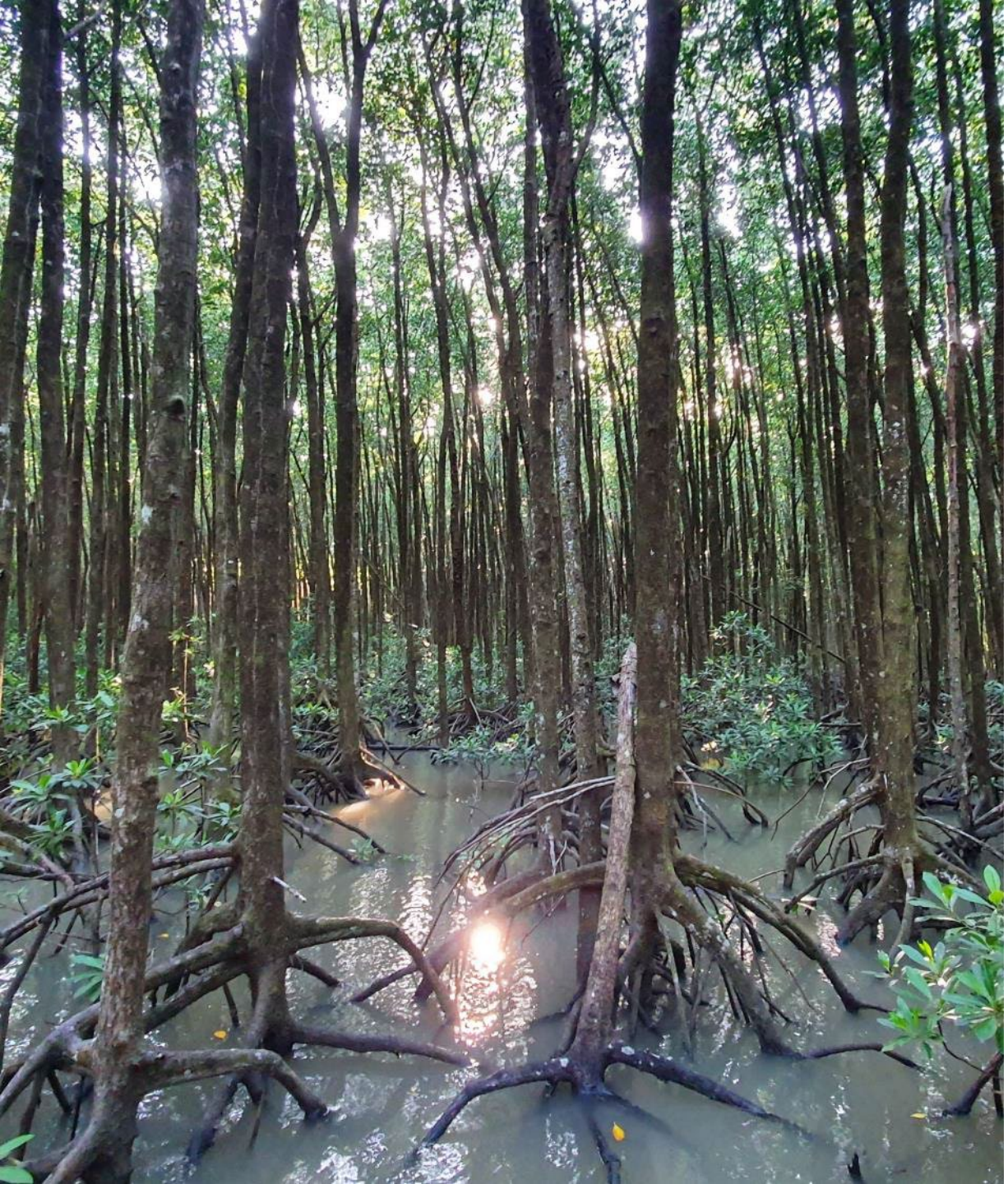
# South Australian Blue Carbon Project

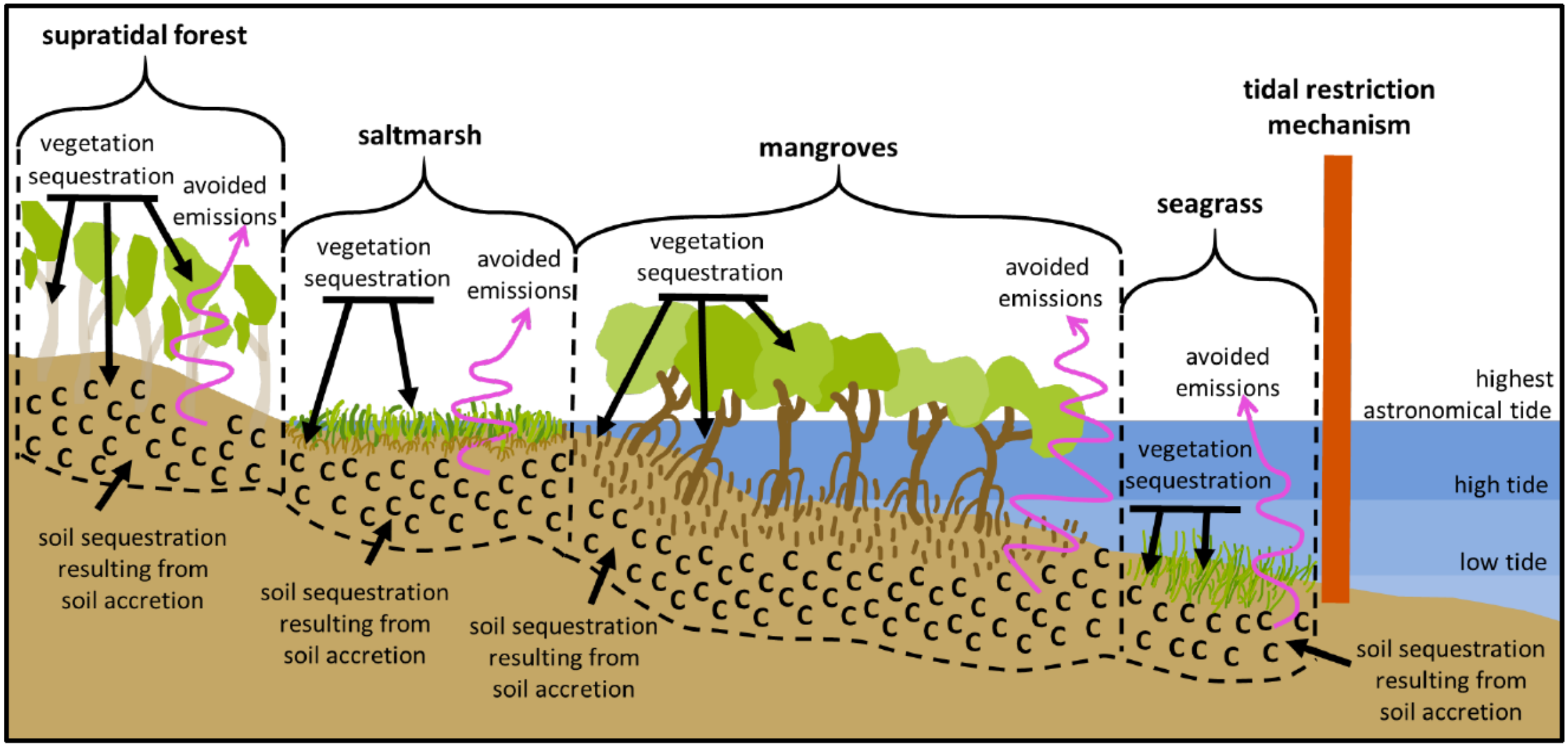
*TNC Australia - Blue Carbon Team*

The Nature Conservancy Australia

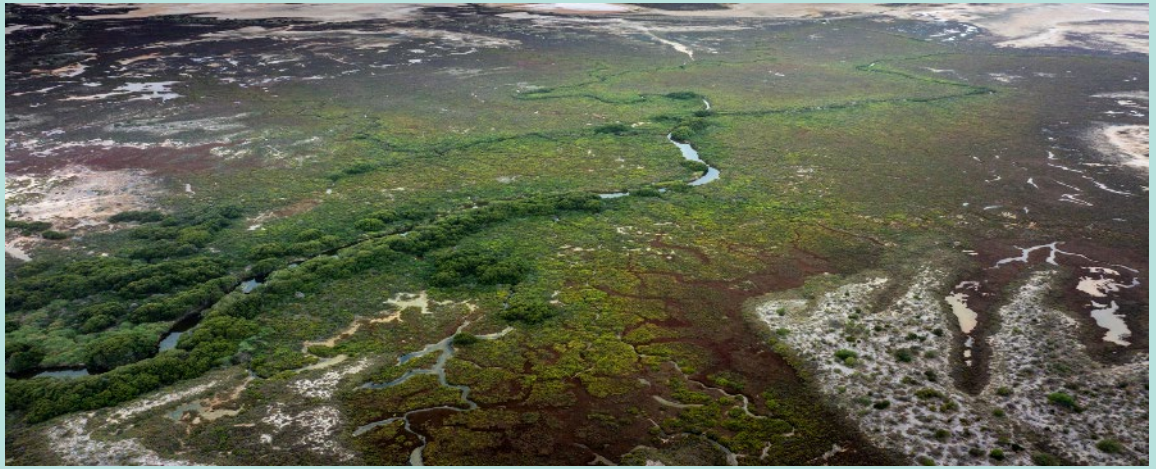


# Blue Carbon Method

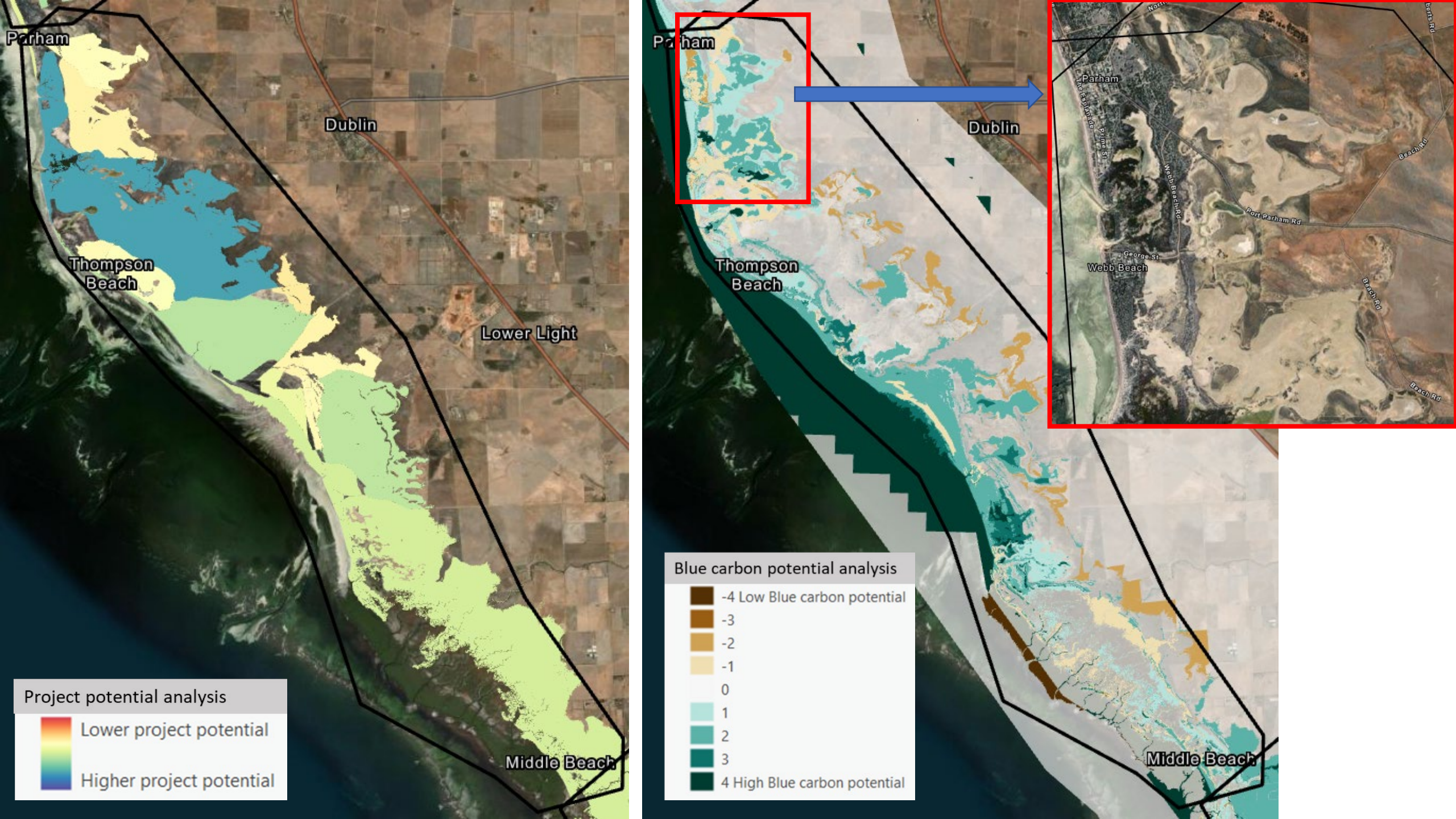
1. Method approved January 2022
2. Restore mangroves and saltmarshes through the reintroduction of tidal flows
3. Requires an intervention, either removal of road/bund/culvert installation/opening tidal weir
4. 25- or 100-year permanence period with varying returns
5. Restrictions on land use activities such as grazing, cropping and aquaculture


supratidal forest
vegetation sequestration
avoided emissions
soil sequestration resulting from soil accretion
saltmarsh
vegetation sequestration
avoided emissions
soil sequestration resulting from soil accretion
mangroves
vegetation sequestration
avoided emissions
soil sequestration resulting from soil accretion
seagrass
avoided emissions
vegetation sequestration
tidal restriction mechanism
highest astronomical tide
high tide
low tide
soil sequestration resulting from soil accretion


SOUTH
AUSTRALIA




Red necked stint © Chris Purnell


Parham
Dublin
Thompson Beach
Lower Light
Middle Beach
Project potential analysis
Lower project potential
Higher project potential
Parham
Dublin
Thompson Beach
Middle Beach
Blue carbon potential analysis
-4 Low Blue carbon potential
-3
-2
-1
0
1
2
3
4 High Blue carbon potential
Parham
Webb Beach
George St
Port Parham Rd
Webb Beach Rd
Beach Rd

# Blue Carbon Project – South Australia

Critical to engage with the Traditional Owners at the outset of the project and throughout project development

Kaurna Traditional Owners

# Lessons Learned

- Innovation and going first isn't easy but there is a lot to be said for learning by doing!
- Costs of project development are high, and income is limited to 25 year crediting period, making co-benefits and other markets important
- Planning pathways are complex and designed for coastal development, not coastal wetland restoration and are likely to vary between sites, even within the same state

# Lessons Learned

- The method requires landowners to demonstrate that the structures were legal when installed (had approvals), this could be limiting in some areas
- Understanding the new blue carbon method, the mapping and modelling requirements and the effective use of Blue CAM requires time to learn and or extensive expertise
- Importance of managing surrounding threats to blue carbon ecosystems, landscape scale planning and management

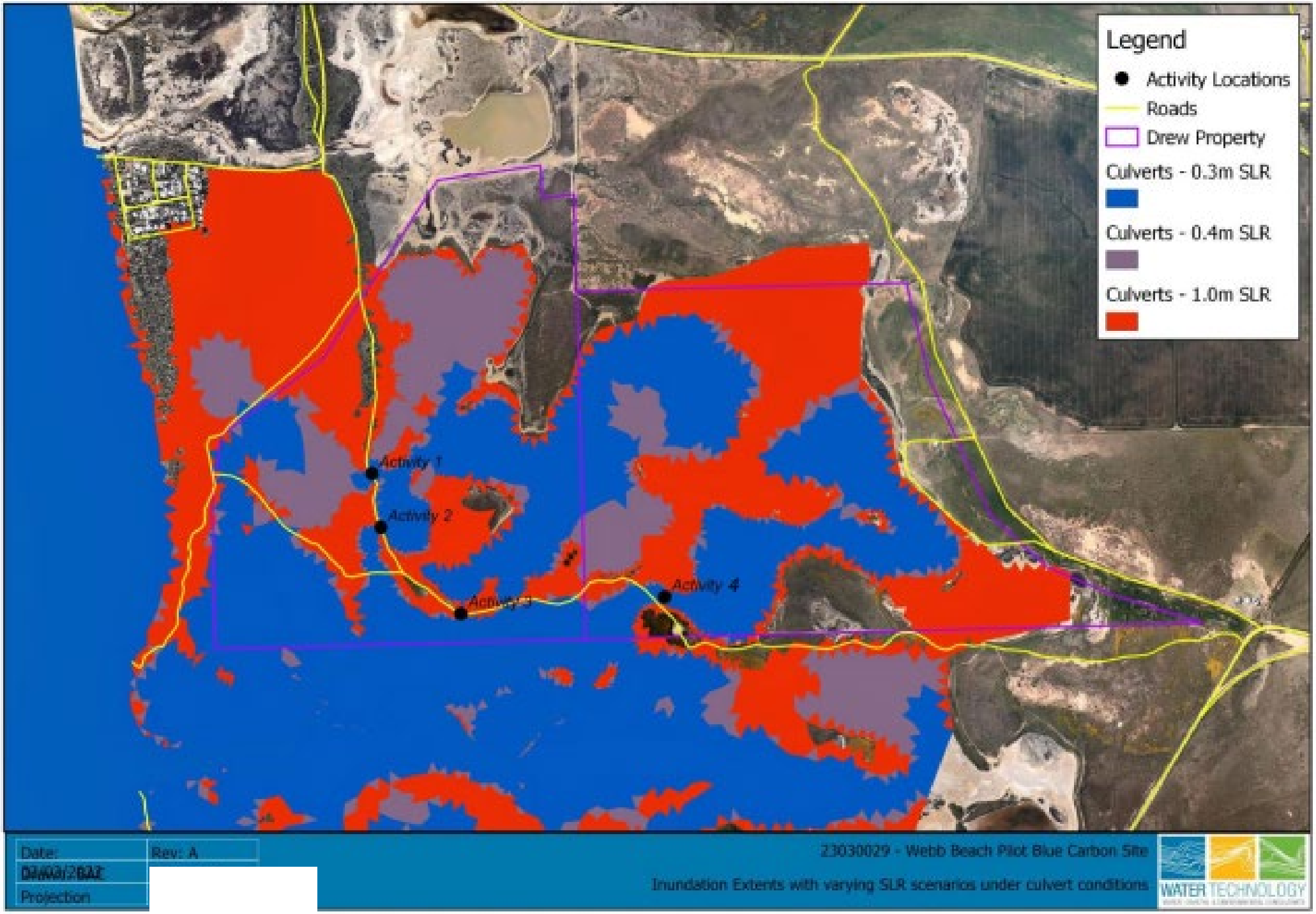
# Lessons Learned

- The importance of partnerships and community engagement (EIH's) to ensure there is broader support for project development and long-term protection
- Long lead times required for projects to establish trusting relationships with landowners and help them understand how the blue carbon method could apply to them
- The importance of supportive local, state and federal governments, SA Blue Carbon Strategy and investment by the Australian Government

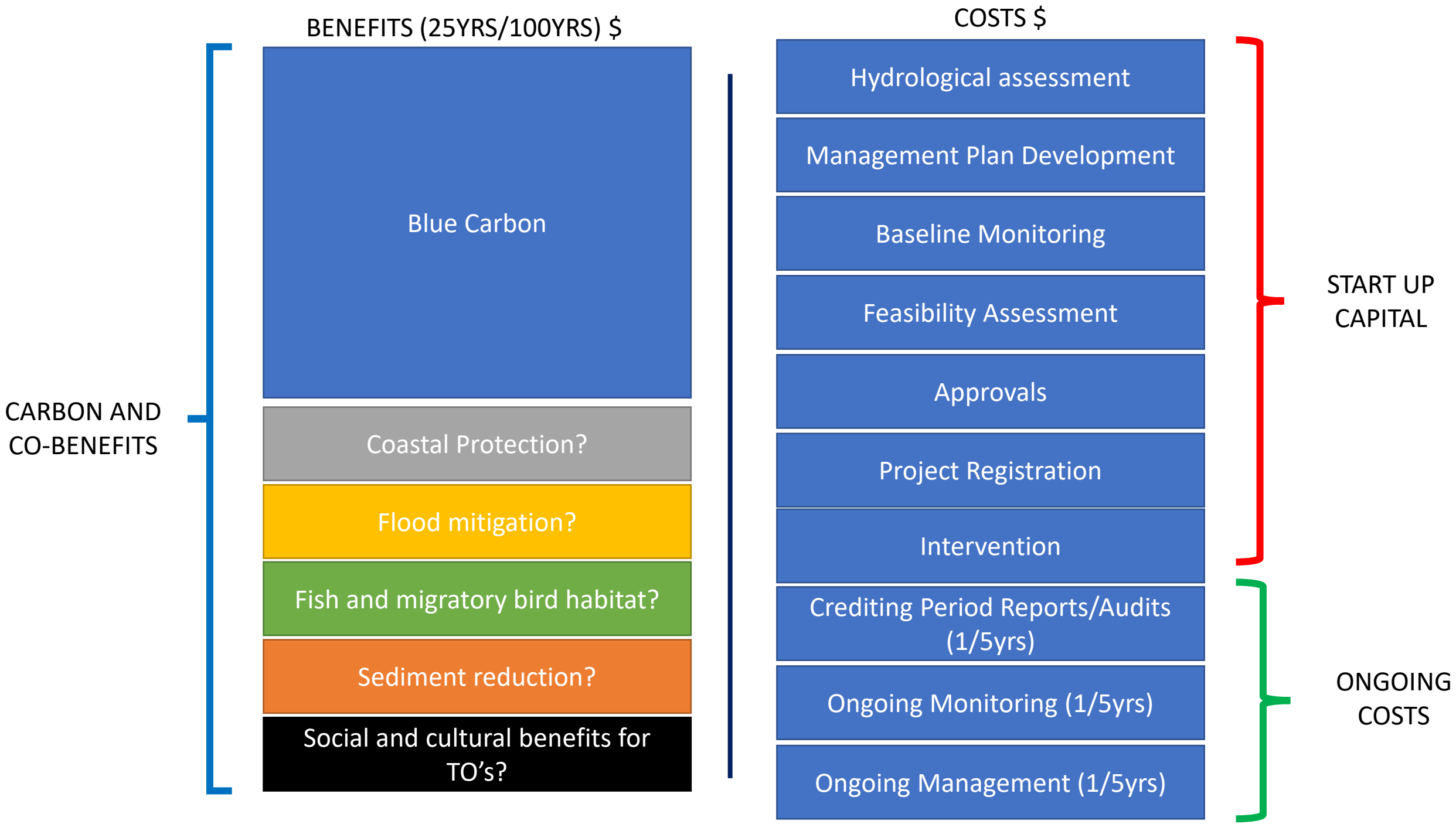
# Lessons Learned

- Legal collaboration agreement defining roles and functions of each party along with long-term management has assisted
- Importance of monitoring, evaluation and learning - how we demonstrate transparency and accountability
- The need for new finance models to support uptake. The insurance industry can play a role in de-risking investment in blue carbon project development


Webb Beach
AUSTRALIA
Legend
Reconnection point
Pilot Blue Carbon Site
0
0.5
1 km
N
The Nature Conservancy


Legend
Activity Locations
Roads
Drew Property
Culverts - 0.3m SLR
Culverts - 0.4m SLR
Culverts - 1.0m SLR
Activity 1
Activity 2
Activity 3
Activity 4
Date:
Rev: A
Projection
23030029 - Webb Beach Pilot Blue Carbon Site
Inundation Extents with varying SLR scenarios under culvert conditions
WATER TECHNOLOGY

# Biodiversity co-benefits


BENEFITS (25YRS/100YRS) $
COSTS $
CARBON AND CO-BENEFITS
Blue Carbon
Coastal Protection?
Flood mitigation?
Fish and migratory bird habitat?
Sediment reduction?
Social and cultural benefits for TO's?
Hydrological assessment
Management Plan Development
Baseline Monitoring
Feasibility Assessment
Approvals
Project Registration
Intervention
Crediting Period Reports/Audits (1/5yrs)
Ongoing Monitoring (1/5yrs)
Ongoing Management (1/5yrs)
START UP CAPITAL
ONGOING COSTS

# Thank you

**Partners:**
- Kaurna Traditional Owners
- South Australian Government DEW/NPW
- Adelaide University
- Flinders University
- Adelaide Plains Council
- Northern and Yorke Landscape Board
- Birdlife Australia
- Birds South Australia

**TNC Australia Blue Carbon Team:**
- Stella Kondylas (Lead)
- Anita Thomas
- Kylie Moritz
- Abby Goodman
- Megan Connell
- Vera Rullens
- Alice Howie
- Geoff Lipsett-Moore

**Funding:**
- DCCEEW
- Smart Group