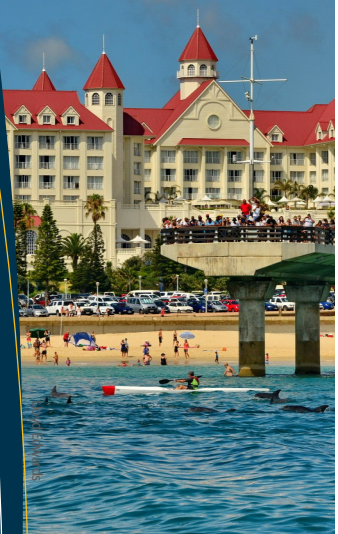


Participating
Institutions &
Project
Partners
Nelson Mandela
University
(NMU)
Institute for
Coastal and
Marine
Research
(CMR)
Rhodes
University (RU)
University of Fort
Hare (UFH)
Council for Geo-
science
South African
Environmental
Observation Net-
work (SAEON)
South African
Institute for
Aquatic Biodiver-
sity (SAIAB)
African Coela-
canth Ecosystem
Project (ACEP)
Higher
education,
Science and
Technology,
National
research
foundation
(DST/NRF)



WHY WE NEED YOU

Building upon the Institute for Coastal and Marine Research's overarching Algoa Bay Marine Spatial Planning project, the AB CoDyM process depends on **stakeholder involvement** to provide information, ideas and contribute to sustainable marine planning. The model tries to incorporate everybody's opinion. Those who are interested are encouraged to be a part of AB CoDyM.

WHAT IS IN IT FOR YOU?

The AB CoDyM process is a **unique** opportunity to have your say and give input towards a shared understanding of marine planning and management for the Bay. The model is a collaborative product **by**, and **for** stakeholders in the Bay. We are working towards:

- **Achieving a holistic understanding of the interactions amongst sectors and the marine environment in Algoa Bay**
- **Improving the decision-making quality of stakeholders through transparent planning and scenario-building**
- **Reaching consensus regarding sustainable management in the Bay**

WANT TO KNOW MORE?

Contact:

Algoabayproject@gmail.com | facebook.com/AlgoaBayProject

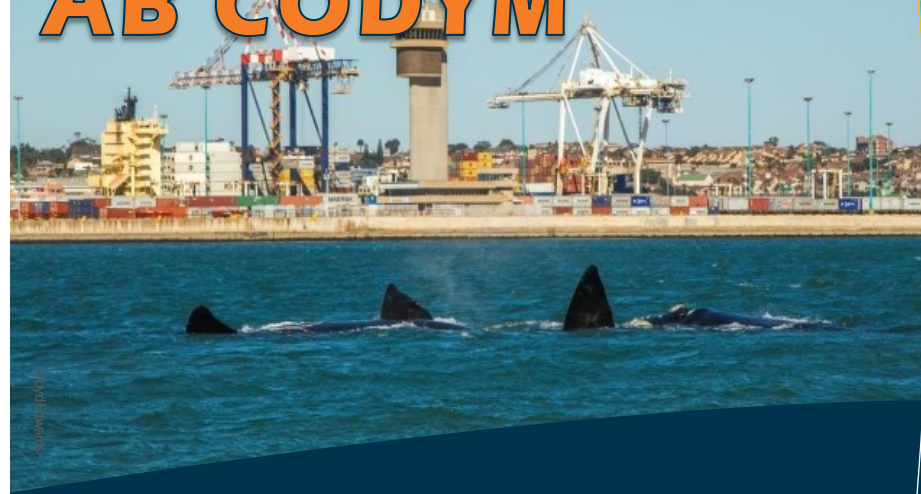
NELSON MANDELA
UNIVERSITY



THE ALGOA BAY PROJECT

AB CODYM

Working together for our oceans



AN OVERVIEW OF AB CODYM:

Algoa Bay Collaborative Dynamic Modelling process

AB CoDyM is a collaborative effort between multiple stakeholders that aims to apply systems analyses to investigate the socio-ecological dynamics of the main human uses in Algoa Bay. This is to determine the influence that these uses have on marine sustainability in the Bay.

DOES THE AB CoDyM PROCESS AFFECT YOU?

- Everyone needs and benefits from **healthy oceans**.
- A variety of ocean users and stakeholders are included in the AB CoDyM process:
- Fishing
- Mariculture
- Land-Based Polluting Activities
- Conservation
- Tourism
- Recreation
- Bunkering
- Shipping
- Cultural Activities

WHO Facilitated by a community of academics from the Institute for Coastal and Marine Research (CMR), Nelson Mandela University, with funding from the **Algoa Bay Project**, a transdisciplinary research project shared across several marine science research institutions in the Eastern Cape.

WHEN AB CoDyM runs between May 2019— May 2020, with the main stakeholder interactions scheduled for mid **August 2019 – May 2020**.

WHY This project aims to facilitate multisectoral stakeholder engagement, in an attempt to simulate sustainable management strategies for Algoa Bay to ensure both economic prosperity and environmental sustainability.

GOALS To achieve a **more holistic understanding of the interconnections** of the sectors in Algoa Bay and to **improve the decision-making ability** of multiple stakeholders by creating a tool that simulates the overall health of the Bay as a result of sectoral actions.

MODEL SYNTHESIS

From the activities undertaken in the scoping phase (see Figure 2), we are developing an initial model with a Marine Sustainability Index (MSI) at the centre. The MSI is driven by the ecological functioning of different sectors in Algoa Bay, namely fishing, shipping, bivalve mariculture, land-based wastewater treatment and tourism. Each sector impacts other sectors and the marine environment in different ways. The model forms the basis for investigating these sectoral actions and exploring with stakeholders how certain policies can minimise negative impacts both within each sector and within the larger marine system.

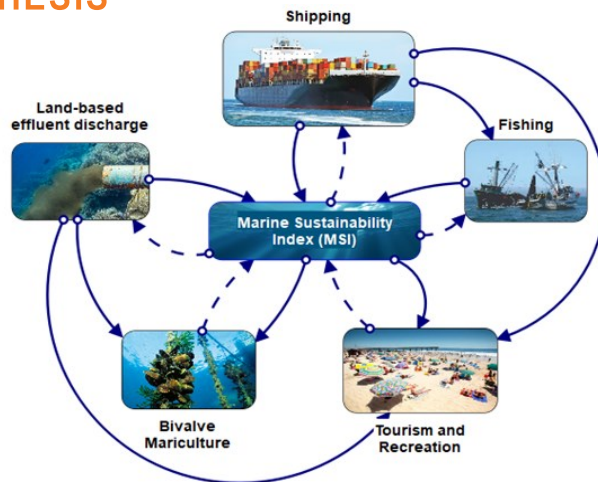


Figure 1. Connections of the AB CoDyM model

THE PROCESS

AB CoDyM phase	1. Scoping	2. Initial stakeholder engagement: Individual meetings, interviews, and small focus groups	3. Sector-based workshops	4. Multi-sectoral workshop	5. Refining & upscaling
Illustration					
Timeframe	May - mid-Aug. 2019	late August - November 2019	Feb - March 2020	April - May 2020	TBC

Figure 2. AB CoDyM process (based on Clifford-Holmes & Pollard (2016))

PHASES

- 1 Scoping phase**
 - Problem analyses
 - Literature review
 - First model draft **based on theory**
- 2 Initial stakeholder engagement**
 - Individual stakeholder meetings
 - Expert information gathering
 - Second model draft **based on interviews**
- 3 Sector-based workshops**
 - Sectoral meetings
 - Identification of trade-offs
 - Model quantification **based on meetings**
- 4 Multi-sectoral workshop**
 - Multi-stakeholder workshop
 - Scenario game
 - Visual user interface

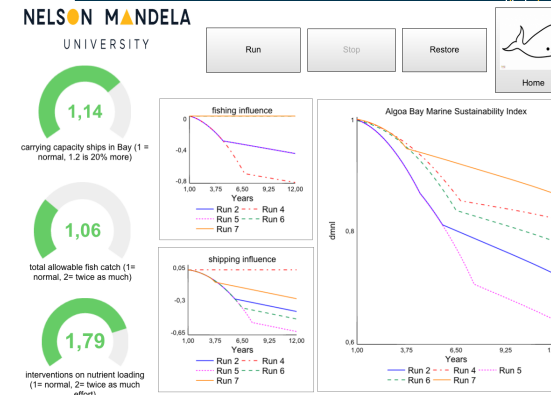


Figure 3. Early draft of Visual User Interface