

# Towards Sustainable Port Development in Western Indian Ocean

## Overview of Project



13 & 14 April 2023

Stakeholder meeting, Dar es Salaam, Republic of Tanzania



# Core Partners



# Purpose and Terms of Reference

Seek sustainable port development in WIO in response to Conference of Parties (COP) decision:

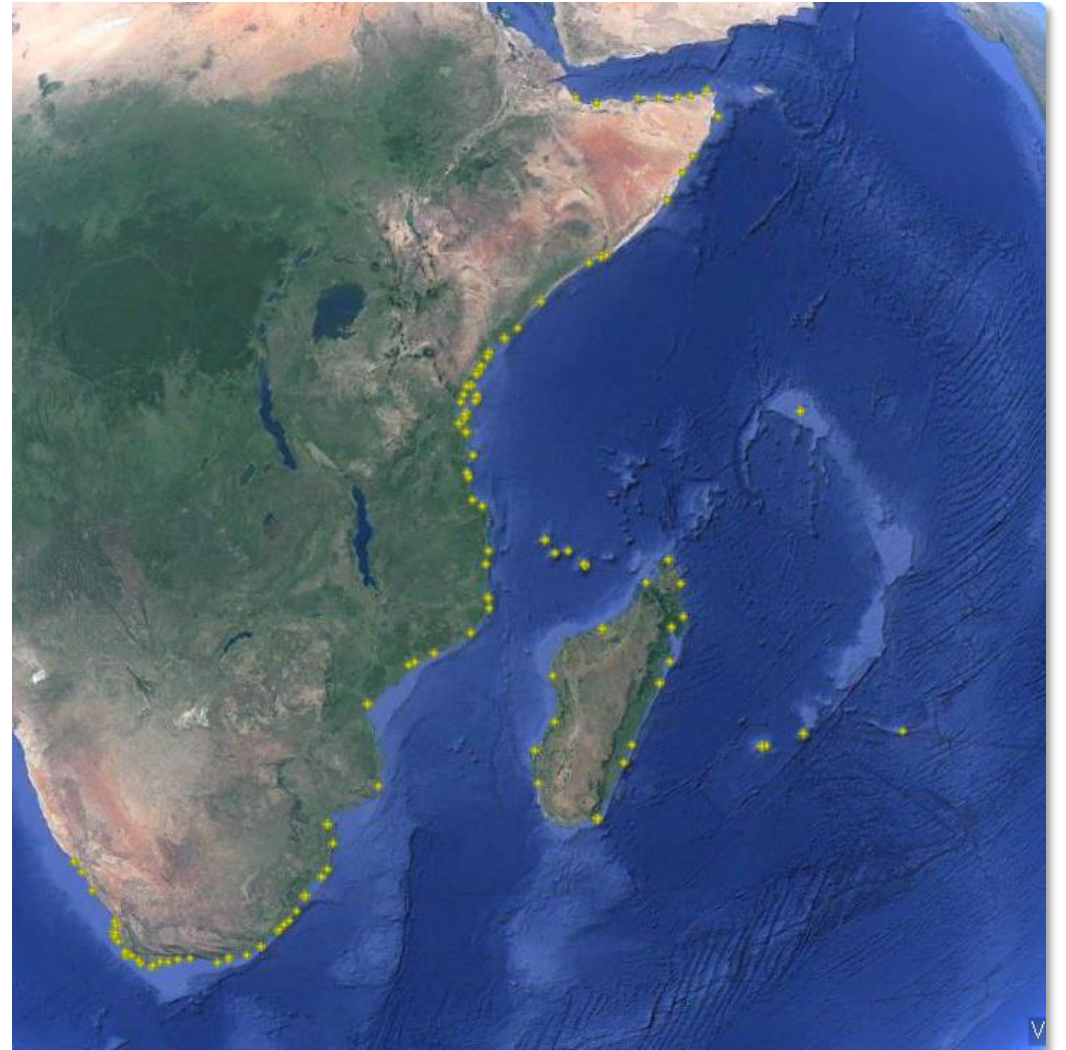
*Decision CP.9/13. Enhancing cooperation, collaboration and support with partners: To request secretariat, in collaboration with IMO, PMAESA and other partners, to undertake a baseline study and scenario analysis, and develop a toolkit for green port development and expansion in Western Indian Ocean region*

Therefore , Terms of Reference:

- Conduct Situation Assessment (Baseline study)
- Conduct Scenario Analysis
- Develop Toolkit for Green Port Development
- Prepare Policy Brief

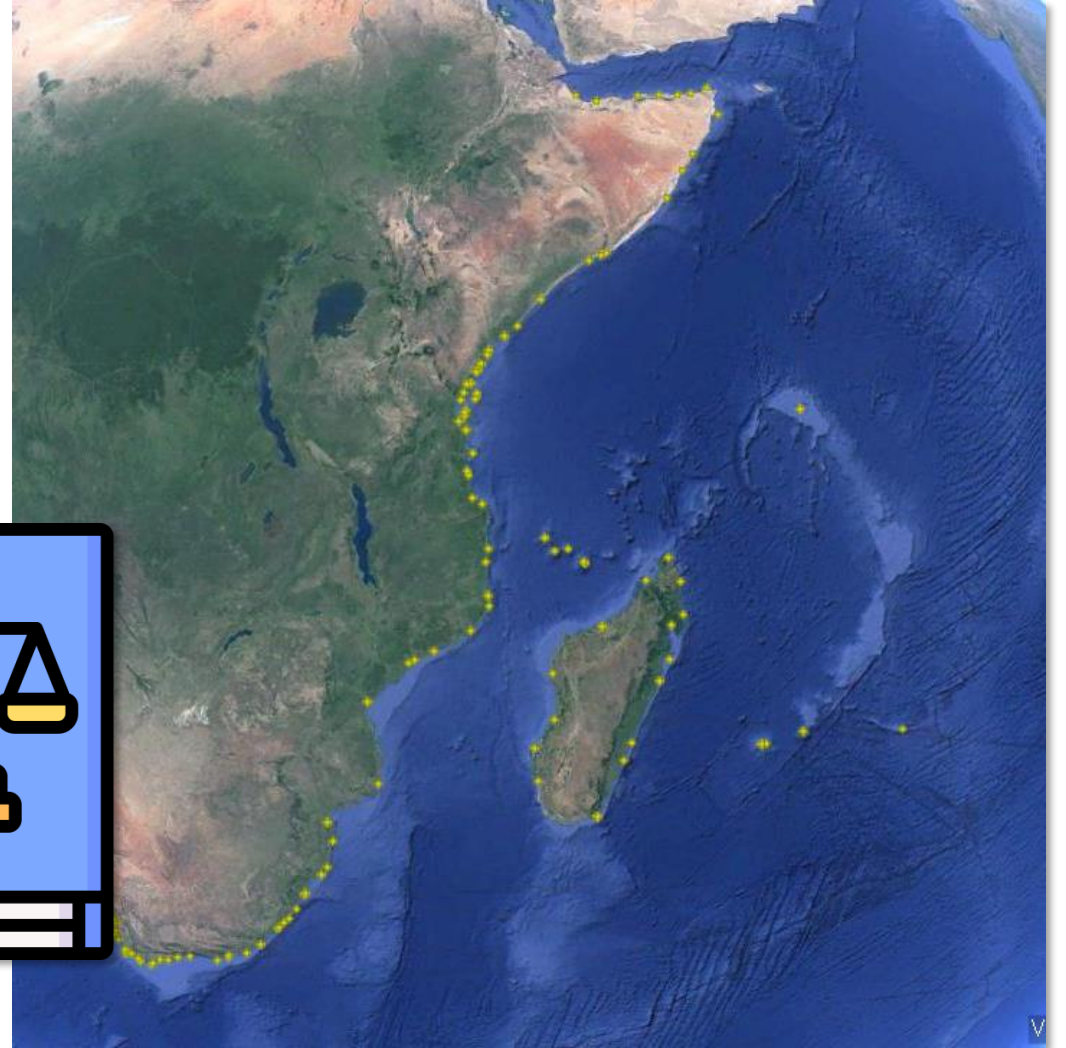
# Situation Assessment

- Overview of Ports in WIO region



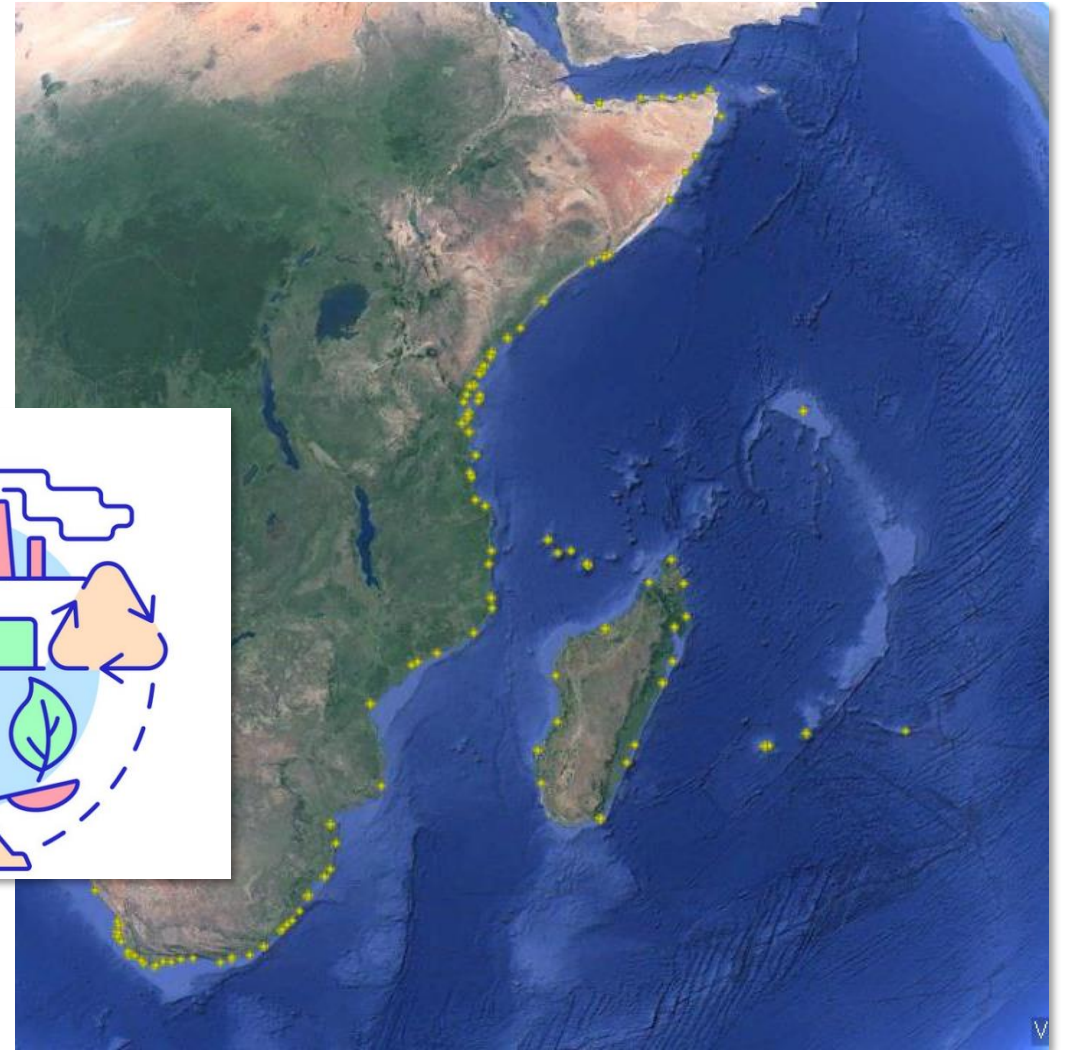
# Situation Assessment...

- Overview of Ports in WIO region
- **Port Legislation & Authorities**



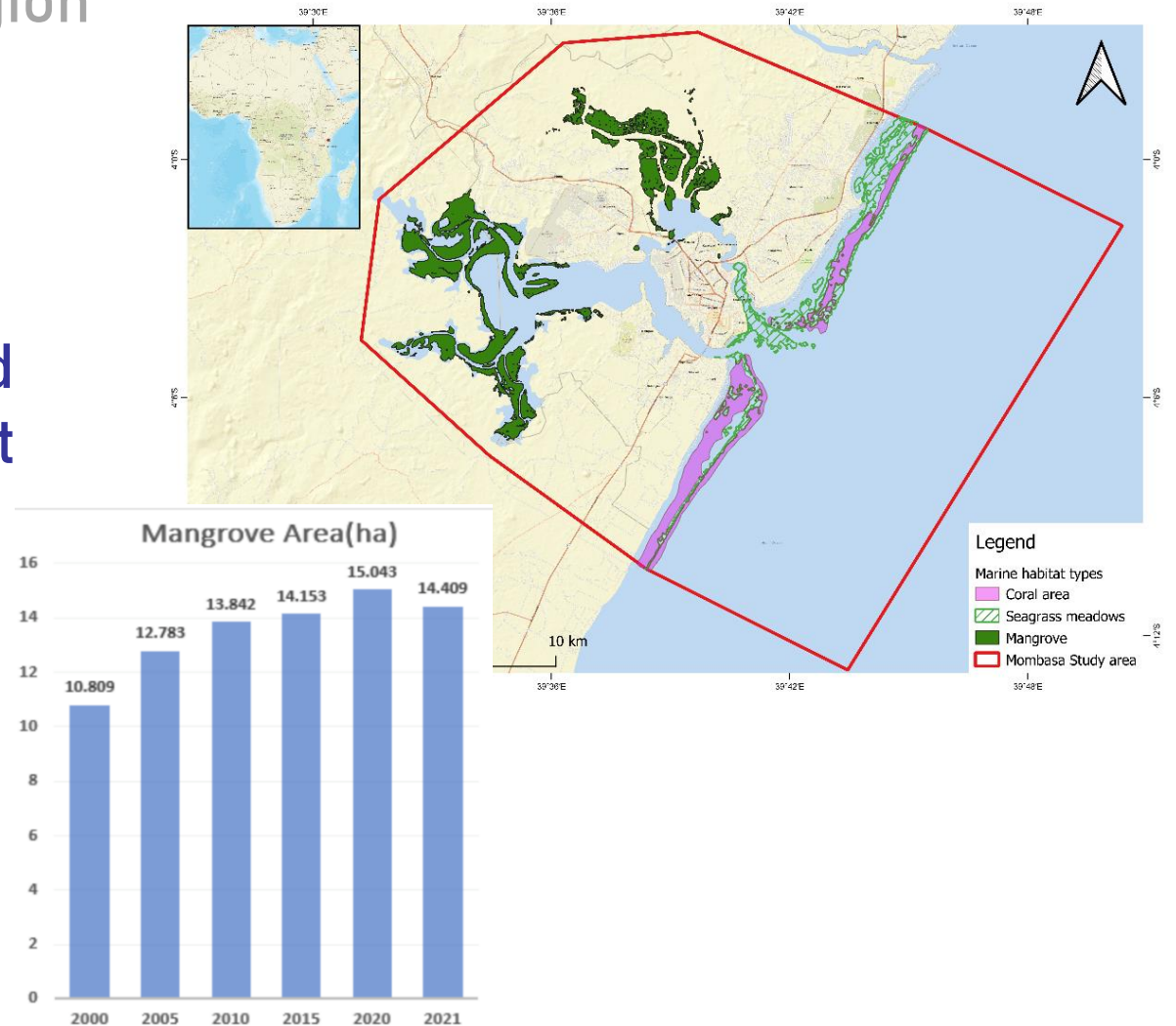
# Situation Assessment...

- Locality and overview of Ports in WIO region
- Port Legislation & Authorities
- **Important Environmental Issues**



# Situation Assessment...

- Locality and overview of Ports in WIO region
- Port Legislation & Authorities
- Important Environmental Issues
- **Spatial Assessment of Habitat in selected Ports (NB spatial layers to include in Port planning and development)**



# Situation Assessment...

- Locality and overview of Ports in WIO region
- Port Legislation & Authorities
- Important Environmental Issues
- Spatial Assessment of Habitat in selected Ports
- Concept of Sustainable 'Green' Ports (NB: provide insight into type of 'Tools' to include in Green Port Toolkit)

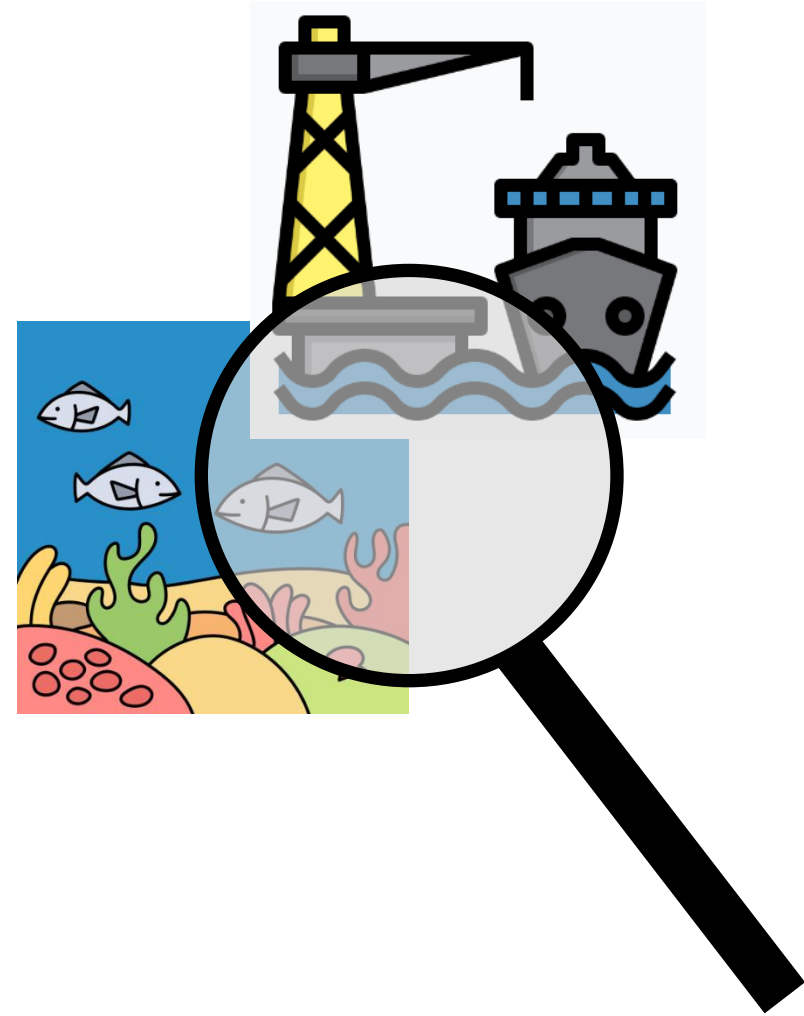


**Situation Assessment to be dealt with in greater detail  
in next session later today**



# Scenario Analysis

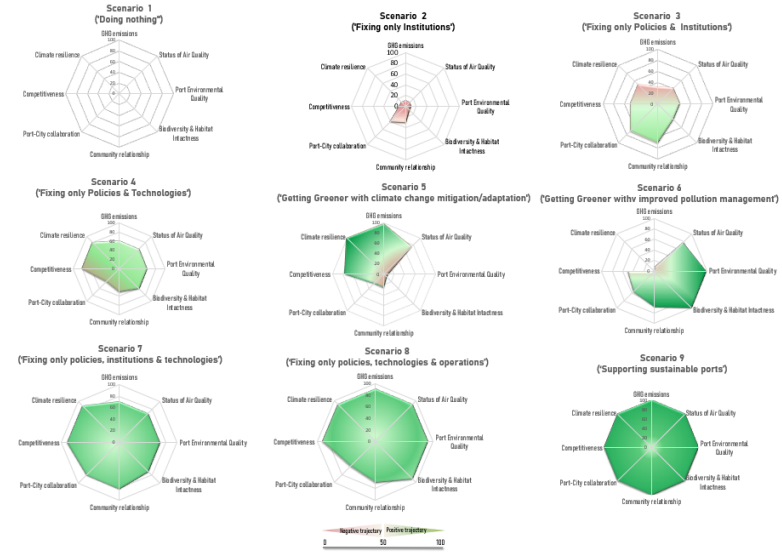
- Overview of International approaches
- Developed approach for WIO Region (as confirmed with stakeholders at 1<sup>st</sup> in person workshop in Aug 2022)
- Key external and internal driving forces (workshopped with stakeholder at 1<sup>st</sup> in-person workshop)
- Sustainability indicators (as confirmed with stakeholders at 1<sup>st</sup> in-person workshop)



# Scenario Analysis...

- Overview of International approaches
- Developed approach for WIO Region
- Key external and internal driving forces
- Sustainability Indicators
- Designed editable spreadsheet model (option to perform analysis at country/ individual port level)

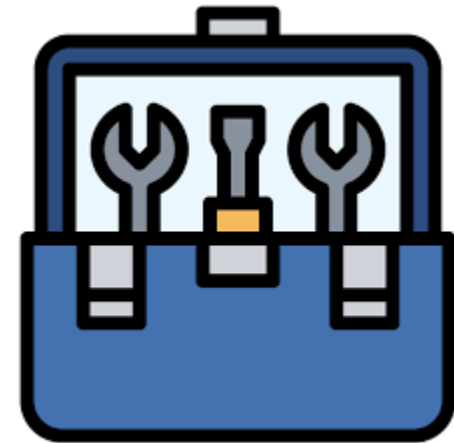
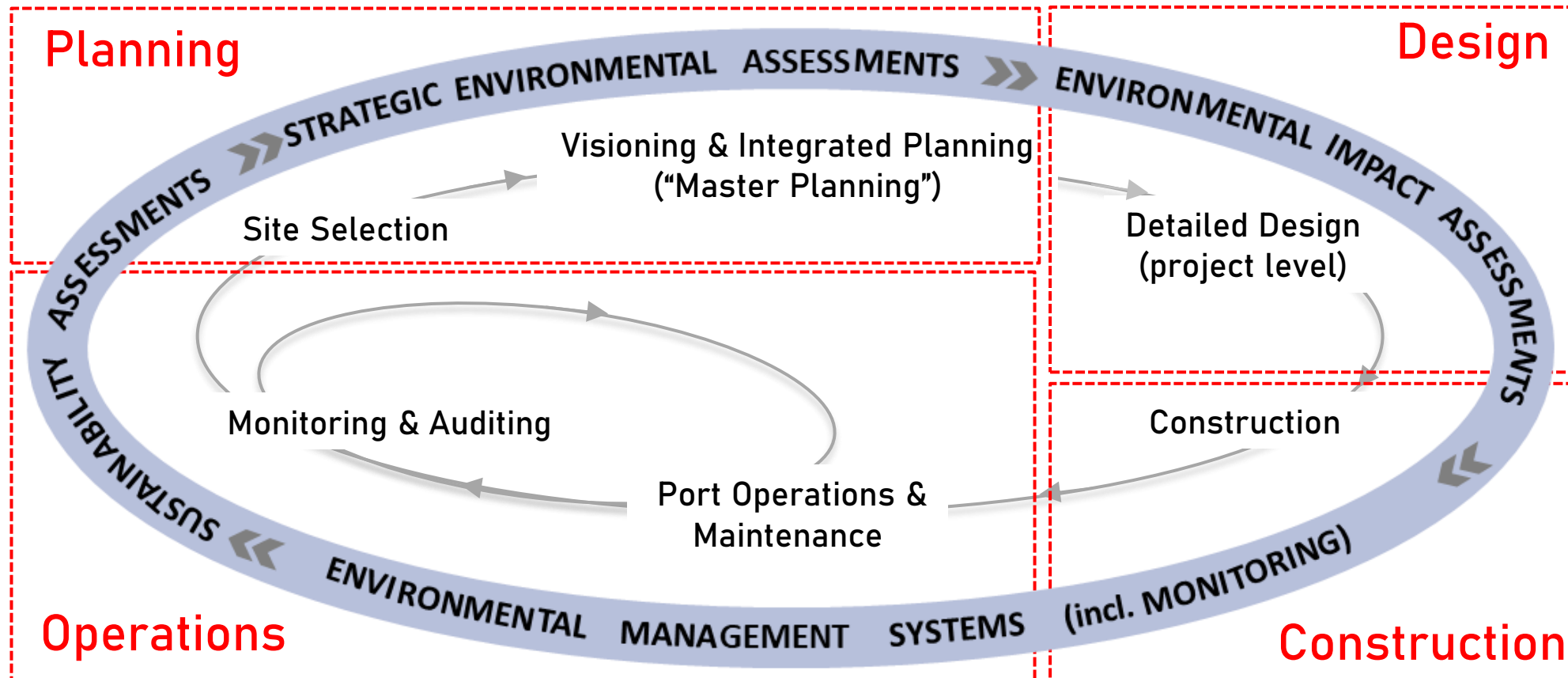
INTERNAL DRIVING FORCE CATEGORY	1	2	3	
	Doing nothing	Fixing only Institutions	Fixing only Policies & Institutions	
<b>1 Corporate culture and policy</b>	<b>A</b>	<b>A</b>	<b>D</b>	
<b>2 Institutional arrangements</b>	<b>A</b>	<b>D</b>	<b>D</b>	
<b>3 Technological development</b>	<b>A</b>	<b>A</b>	<b>A</b>	
<b>4 Operational efficiency</b>	<b>A</b>	<b>A</b>	<b>A</b>	
<b>COMPARATIVE SCENARIO ANALYSES</b>				
INDICATOR	WEIGHT	1	2	3
<b>ENVIRONMENT</b>	<b>0.60</b>	<b>-2.00</b>	<b>-1.60</b>	<b>-0.50</b>
<b>1 GHG Emissions</b>	<b>0.25</b>	<b>-2.0</b>	<b>-1.6</b>	<b>-0.8</b>
Corporate culture and policy	0.20	-2	-2	2
Institutional arrangements	0.10	-2	2	2
Technological development	0.40	-2	-2	-2
Operational efficiency	0.30	-2	-2	-2
<b>2 Status of Air Quality</b>	<b>0.25</b>	<b>-2.0</b>	<b>-1.6</b>	<b>-0.4</b>
Corporate culture and policy	0.30	-2	-2	2
Institutional arrangements	0.10	-2	2	2
Technological development	0.30	-2	-2	-2
Operational efficiency	0.30	-2	-2	-2
<b>3 Status of Port Environmental Quality</b>	<b>0.25</b>	<b>-2.0</b>	<b>-1.6</b>	<b>-0.4</b>
Corporate culture and policy	0.30	-2	-2	2
Institutional arrangements	0.10	-2	2	2
Technological development	0.30	-2	-2	-2
Operational efficiency	0.30	-2	-2	-2
<b>4 Status of Biodiversity &amp; Habitat Intactness</b>	<b>0.25</b>	<b>-2.0</b>	<b>-1.6</b>	<b>-0.4</b>
Corporate culture and policy	0.30	-2	-2	2
		-2	-2	-2
		-2	-2	-2
		<b>-0.60</b>	<b>0.80</b>	
		<b>-0.8</b>	<b>0.8</b>	
		-2	2	
		-2	2	
		-2	-2	
		-2	-2	
		<b>-0.4</b>	<b>0.8</b>	



**Scenario Analysis to be dealt with in greater detail in tomorrow's session**

# Toolkit for Green Ports

- Used Framework for Integrated Port Management, linking engineering port development cycle with sustainable environmental practice...



Green Port Toolkit to be dealt with in greater detail in tomorrow's session

# Policy Brief

- Overview of findings from this study
- Recommendations for consideration by Contracting Parties for adoption

## Policy Brief

Towards Sustainable  
Port Development in the  
Western Indian Ocean

## Progress to date...

- Stakeholder consultation with maritime agencies facilitated by MTCC (March 2022), as well as valuable input from port management authorities facilitated by MTCC (May/June 2022)
- Provided feedback to stakeholders at 6<sup>th</sup> WIOSAP Project Steering Committee Meetings in Madagascar (July 2022)
- Obtained valuable input on Situation Assessment, Scenario Analysis & Toolkit for Green Ports at 1<sup>st</sup> in-person workshop (August 2022)
- Submitted draft documentation for stakeholder review end of February 2023, provided to stakeholders in March 2023 (see website)

## Purpose of this 2<sup>nd</sup> Stakeholder Workshop...

2<sup>nd</sup> in-person stakeholder workshop with Convention focal points, maritime agencies, port management authorities, RECs, regional environmental experts:

- Present and obtain feed-back on final draft Situational Assessment
- Present and obtain feed-back on draft Scenario Analysis for Sustainable Green Port Development
- Present and obtain feed-back on Tools in draft Toolkit for Green Port Development in WIO region



Steven Weerts - [sweerts@csir.co.za](mailto:sweerts@csir.co.za)  
Susan Taljaard - [staljaar@csir.co.za](mailto:staljaar@csir.co.za)