

Overview of the contents and process of the National Research, Innovation and Knowledge Management Road Map for the Marine and Maritime Sectors

Nikki Funke (CSIR) and Marius Claassen (Independent)

Seminar on generating inputs for the Development of an Integrated

National Maritime Security Strategy for South Africa

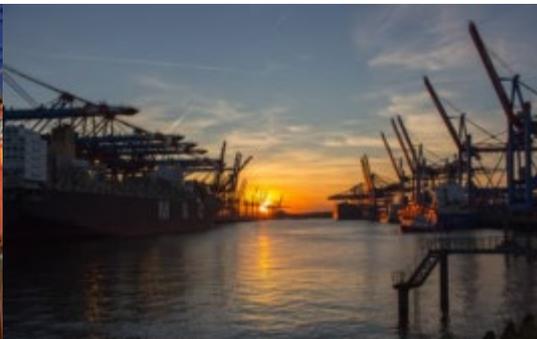
STIAS, 28-29 July 2022



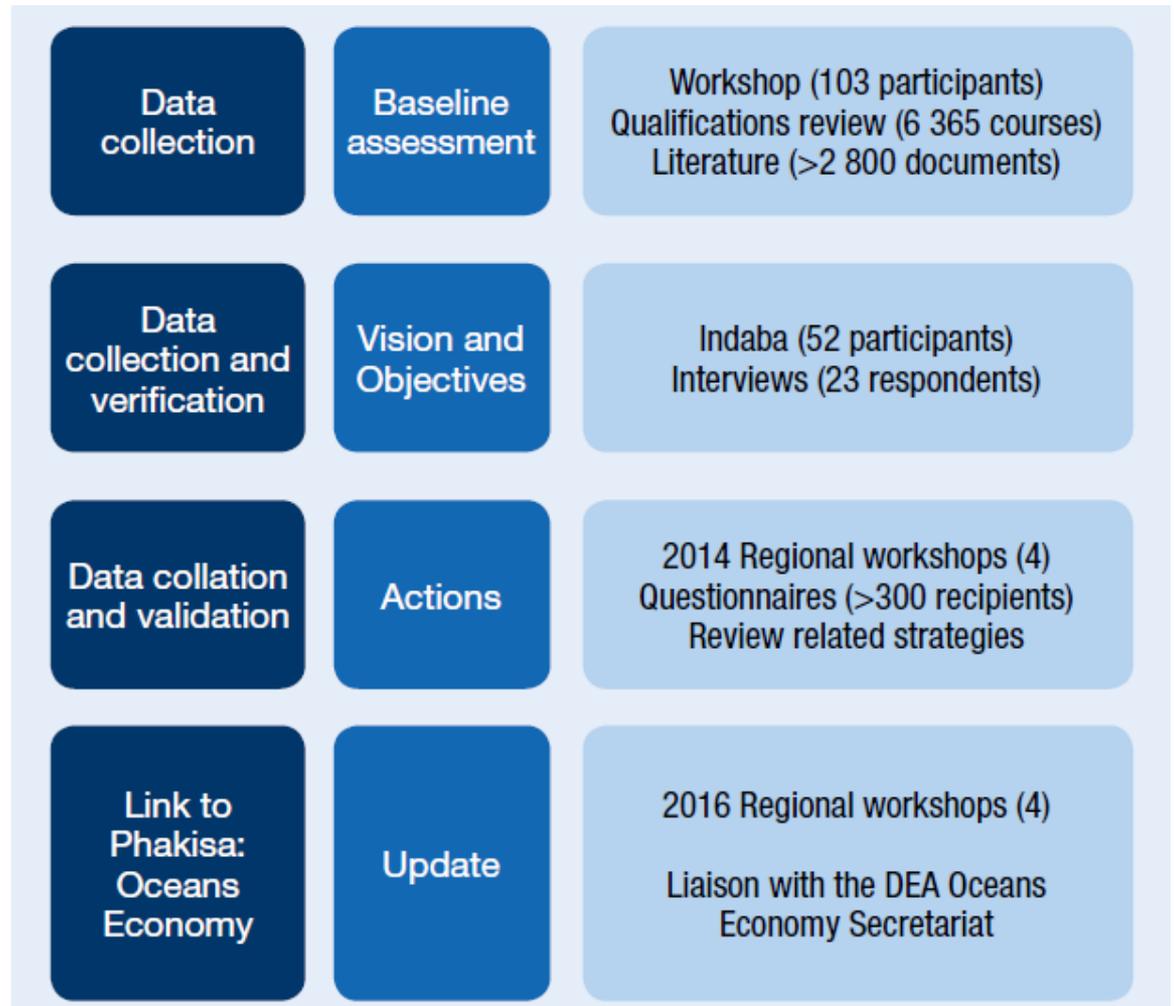
PURPOSE

- SA has 3 924 km of coastline
- SA has a “sea-land” area that is three times bigger than its land size
- SA is positioned on a major shipping route
- SA has eight commercial ports and 44 non-commercial harbours

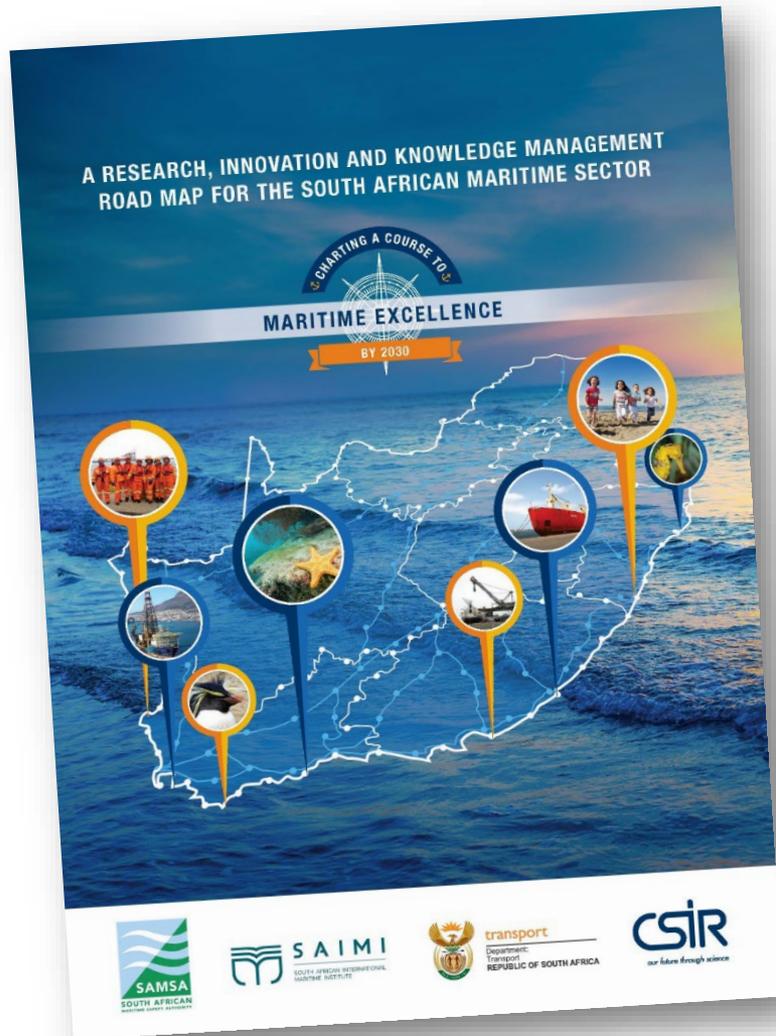
“South Africans generally do not recognise their country as a maritime nation”



Process



The Maritime Road Map



The specific mission supported by this Road Map is:

“Unlocking South Africa’s maritime potential through research, development and innovation”

The mission supports the following overarching vision:

“By 2030 South Africa is globally recognised as a maritime nation”

MISSION & VISION

The specific mission supported by this Road Map is:

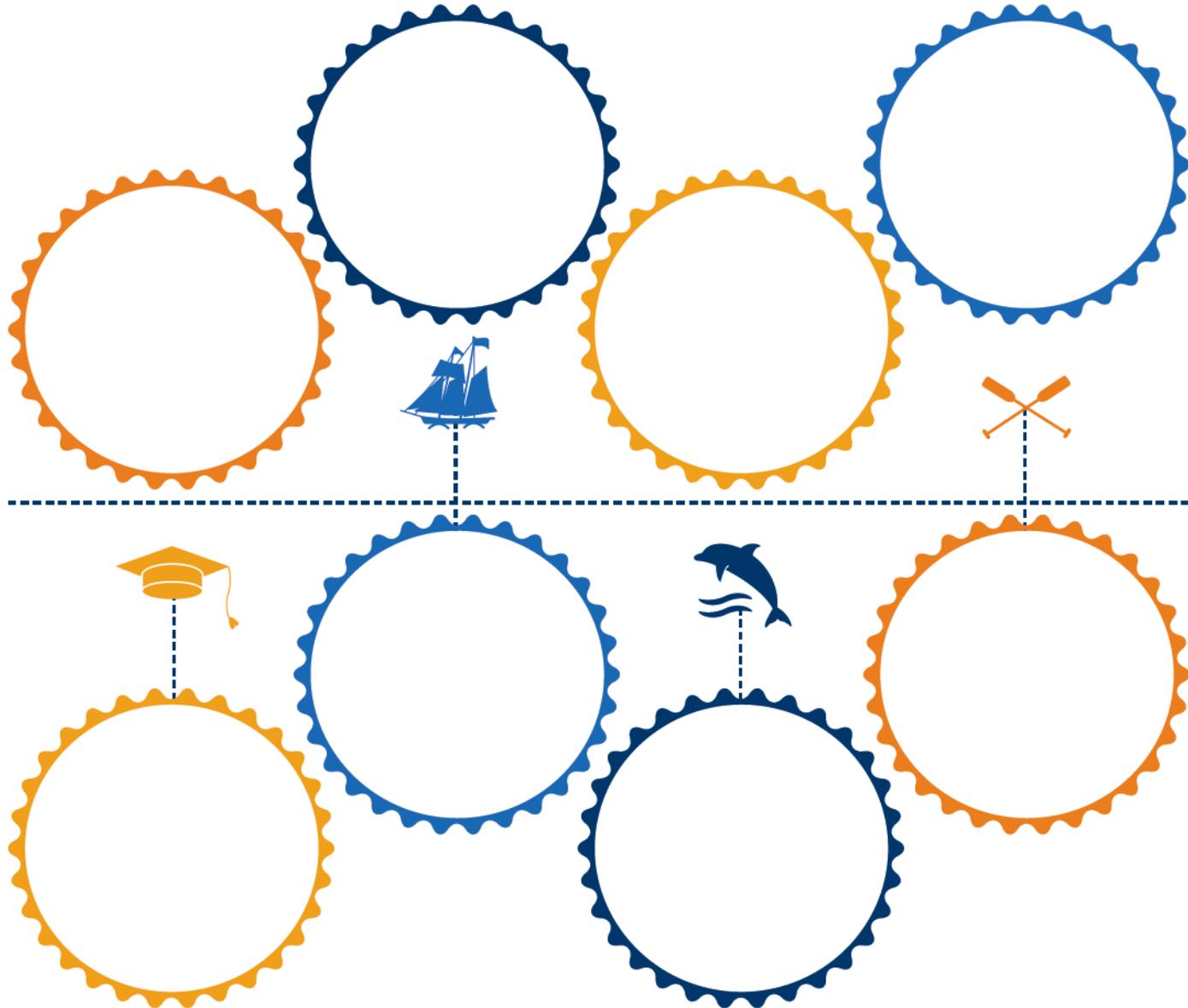
“Unlocking South Africa’s maritime potential through research, development and innovation”

The mission supports the following overarching vision:

“By 2030 South Africa is globally recognised as a maritime nation”



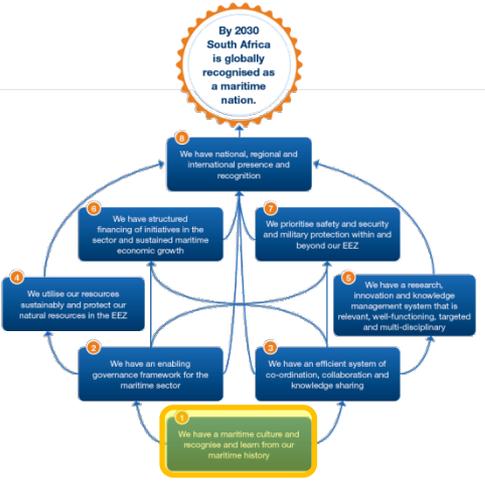
A MARITIME NATION



VISION & OBJECTIVES



OBJECTIVES & ACTIONS



1

We have a maritime culture and recognise and learn from our maritime history

3

Foster national maritime pride

2

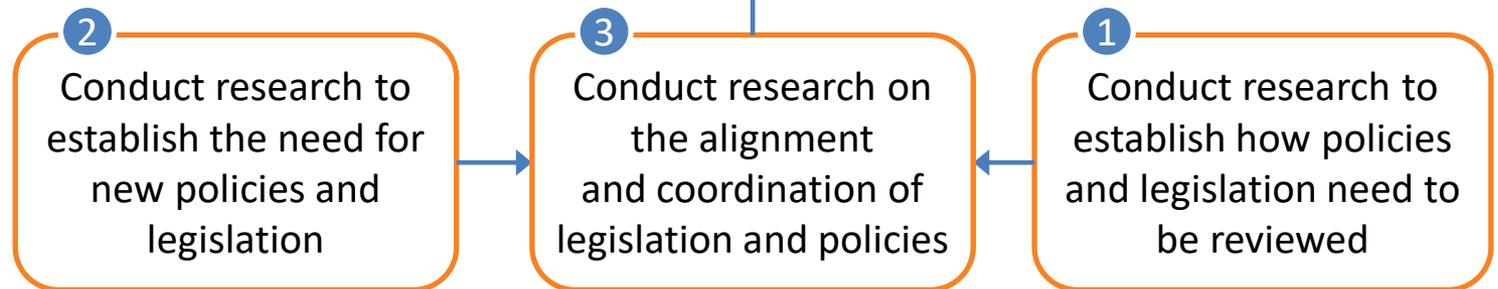
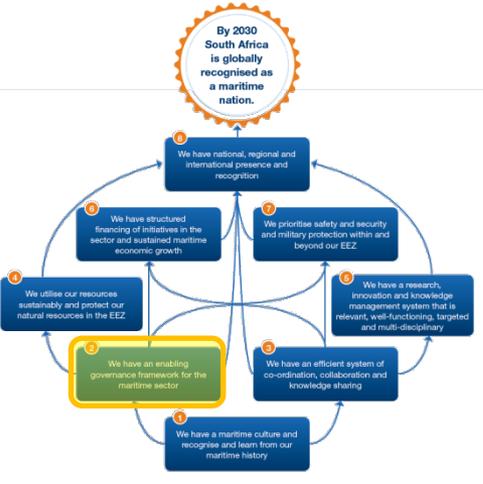
Develop and communicate a co-authored discourse on South Africa's maritime history

1

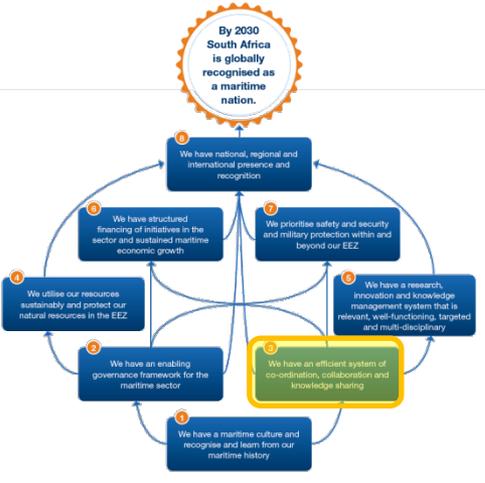
Support maritime historical and archaeological research, training and facilities



OBJECTIVES & ACTIONS



OBJECTIVES & ACTIONS



3 We have an efficient system of coordination, collaboration and knowledge sharing

2 Reduce "Red tape"

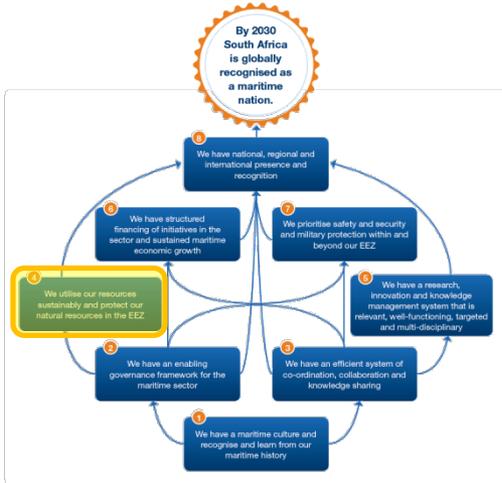
4 Strengthen networks between schools, HEIs and industry

1 Create a co-ordinating body

3 Promote collaboration in the maritime sector with a focus on education and training

5 Create funding mechanisms to foster collaboration and knowledge-sharing

OBJECTIVES & ACTIONS



4

We utilise our resources sustainably and protect our natural resources in the EEZ

1

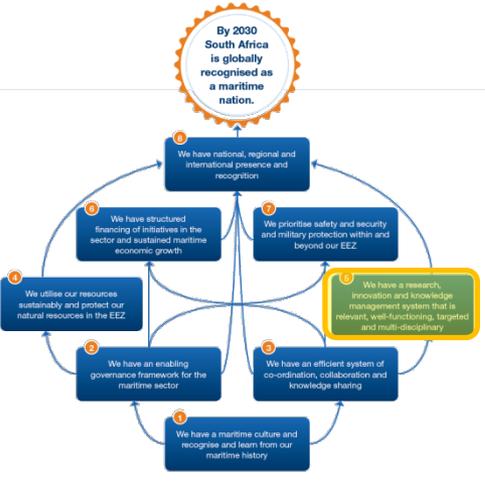
Reduce levels of pollution at sea

2

Conduct research to conserve marine resources



OBJECTIVES & ACTIONS



5 We have a research, innovation and knowledge management system that is relevant, well-functioning, targeted and multi-disciplinary

7 Support and develop maritime-focused technology and innovation

4 Fund, promote and develop maritime-focused R&D

2 Build and retain skills in the maritime sector

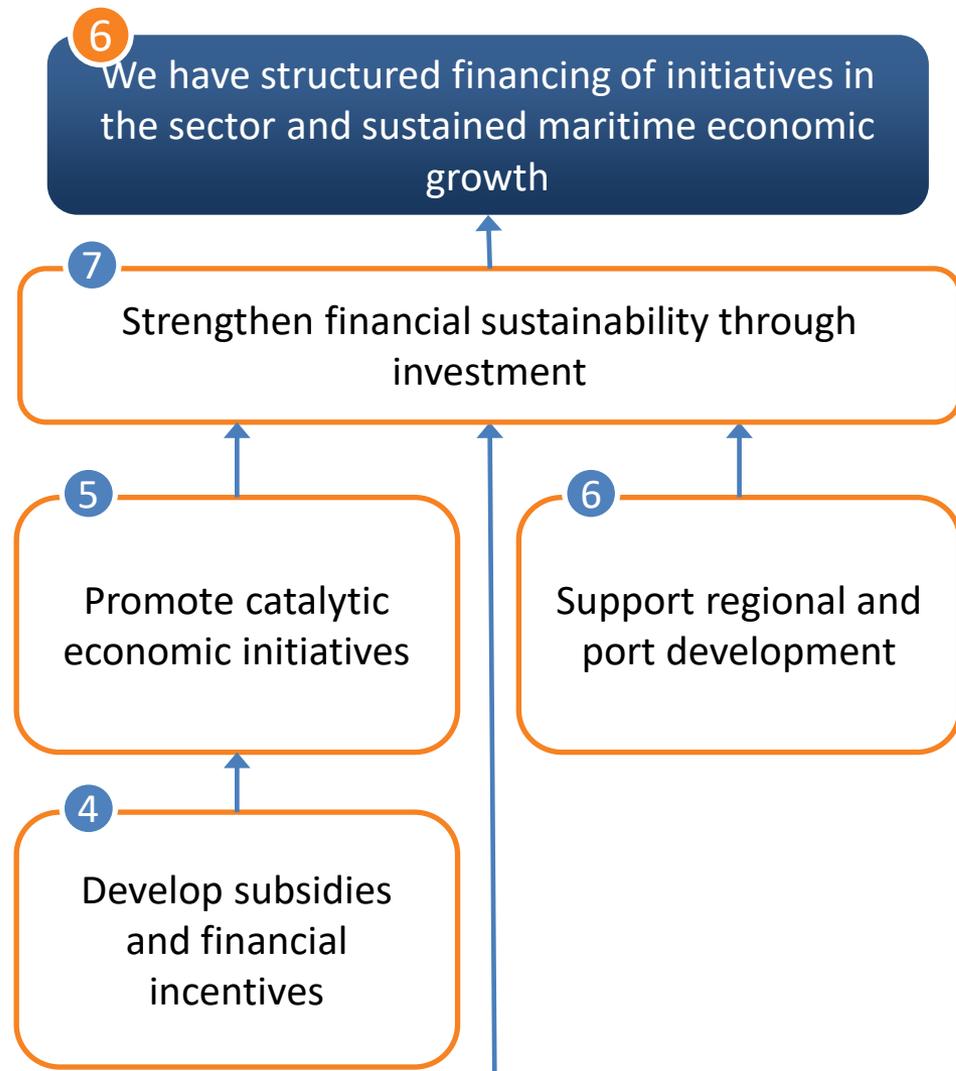
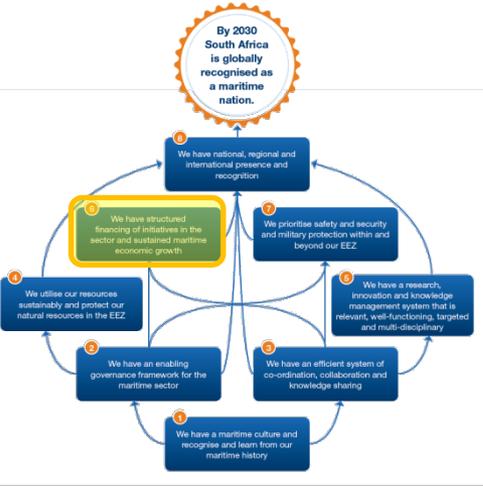
6 Develop world-class education and training facilities

3 Conduct humanities and social science research on pertinent issues

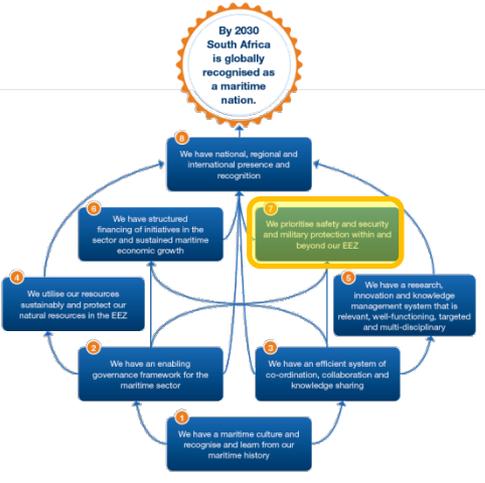
1 Maintain a balance between academic qualifications and practical experience

5 Create knowledge management and research institutions

OBJECTIVES & ACTIONS



OBJECTIVES & ACTIONS



7

We prioritise safety and security and military protection within and beyond our EEZ

4

Capitalise on innovative opportunities for collaboration with other African countries

3

Maintain safety and security standards

2

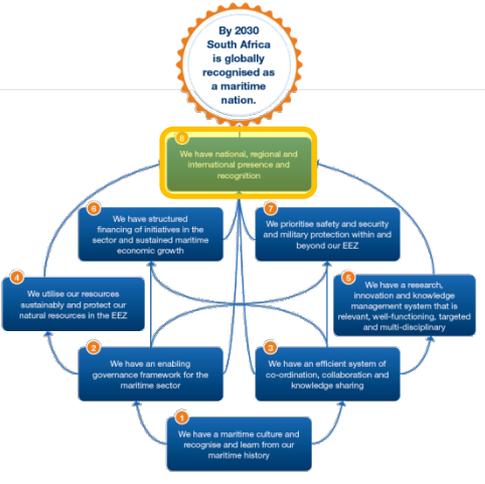
Invest in training in safety and security

1

Enhance technologies and conduct research to promote safety and security



OBJECTIVES & ACTIONS



8

We have national, regional and international presence and recognition

3

Improve SA's international presence and recognition as a maritime nation

2

Improve SA's regional presence and recognition as a maritime nation

1

Improve SA's national presence and recognition as a maritime nation





Linking the Maritime Road Map to the development of a Roadmap towards an Integrated Maritime Security Strategy

- Elaborate on Objective 7 of the Maritime Road Map through an additional Road Map development process
- Revisit Desired State and Future State for Objective 7
- Interrogate actions to achieve the Desired State listed in the Maritime Road Map
- Take inspiration from sector and stakeholder engagement process of Maritime Road Map



Thank you for your attention!

- Maritime Roadmap can be accessed at: http://www.waternet.co.za/aquarius/docs/CSIR_SA_Maritime_Road_Map_DevV3_final.pdf

or

- email me for a copy: nfunke@csir.co.za