



Regional Centre for Mapping of Resources
for Development,
Nairobi, Kenya



Who is RCMRD?

The Regional Centre of Mapping of Resources for Development is an intergovernmental organization that was established in 1975 under the auspices of the UN Economic Commission for Africa and the then Organization of African Union now Africa Union.

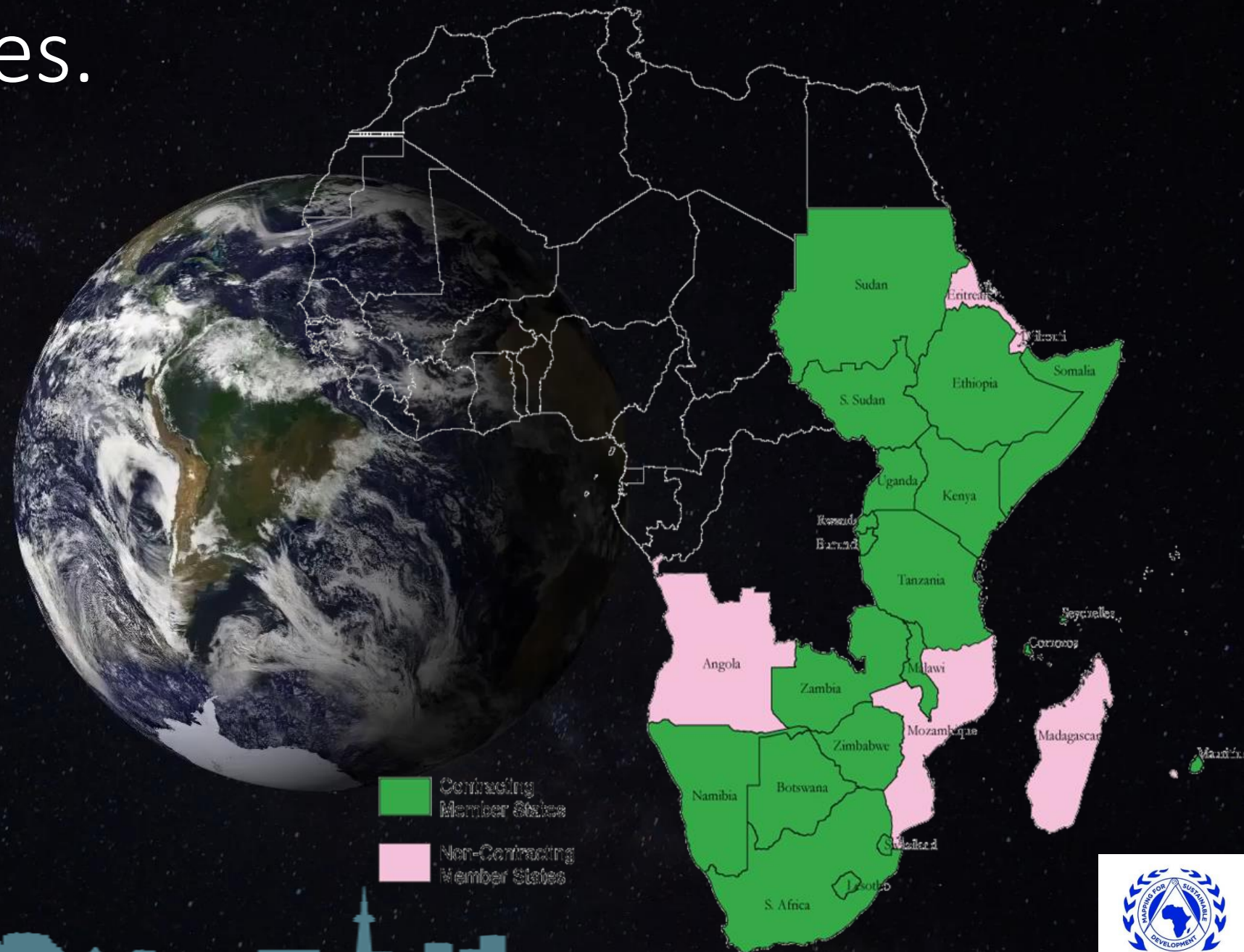
To be a Premier Centre of Excellence in the provision of geo-information and allied technologies for sustainable development in the member States and other stakeholders.

To strengthen the member States and our stakeholders' capacity through Generation, Application and Dissemination of Geo-information and Allied Technologies for sustainable development.



Member States.

Botswana, Burundi, Comoros, Eswatini, Ethiopia, Lesotho, Kenya, Malawi, Mauritius, Namibia, Rwanda, Seychelles, Somalia, South Africa, South Sudan, Sudan, Tanzania, Uganda, Zambia, and Zimbabwe



Core Mandate

Capacity Development



Advisory Services



Data and Information
Dissemination



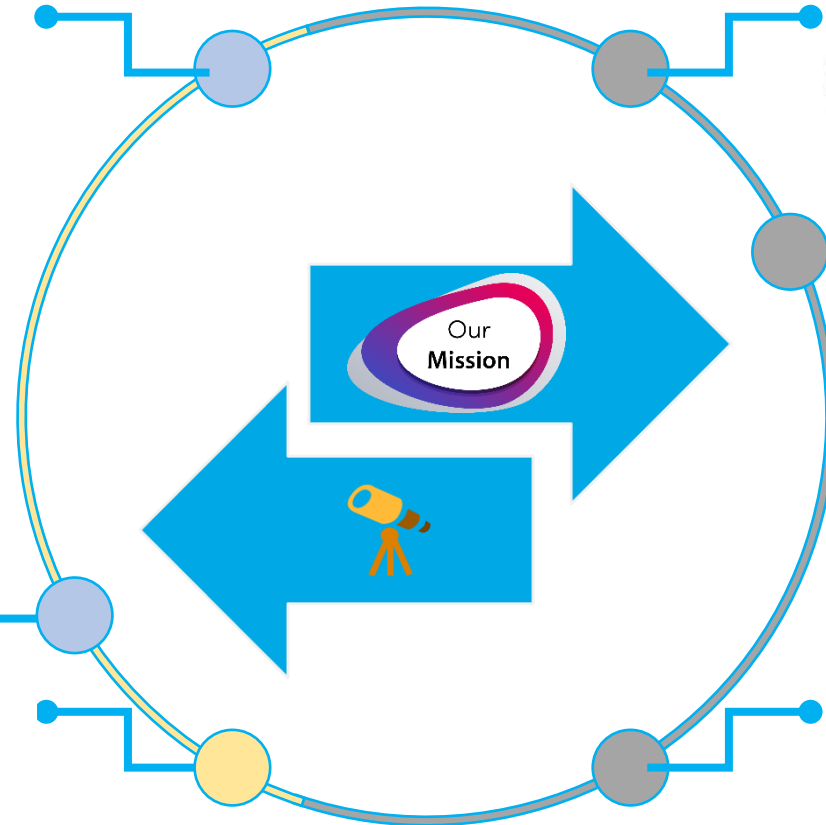
Project Implementation



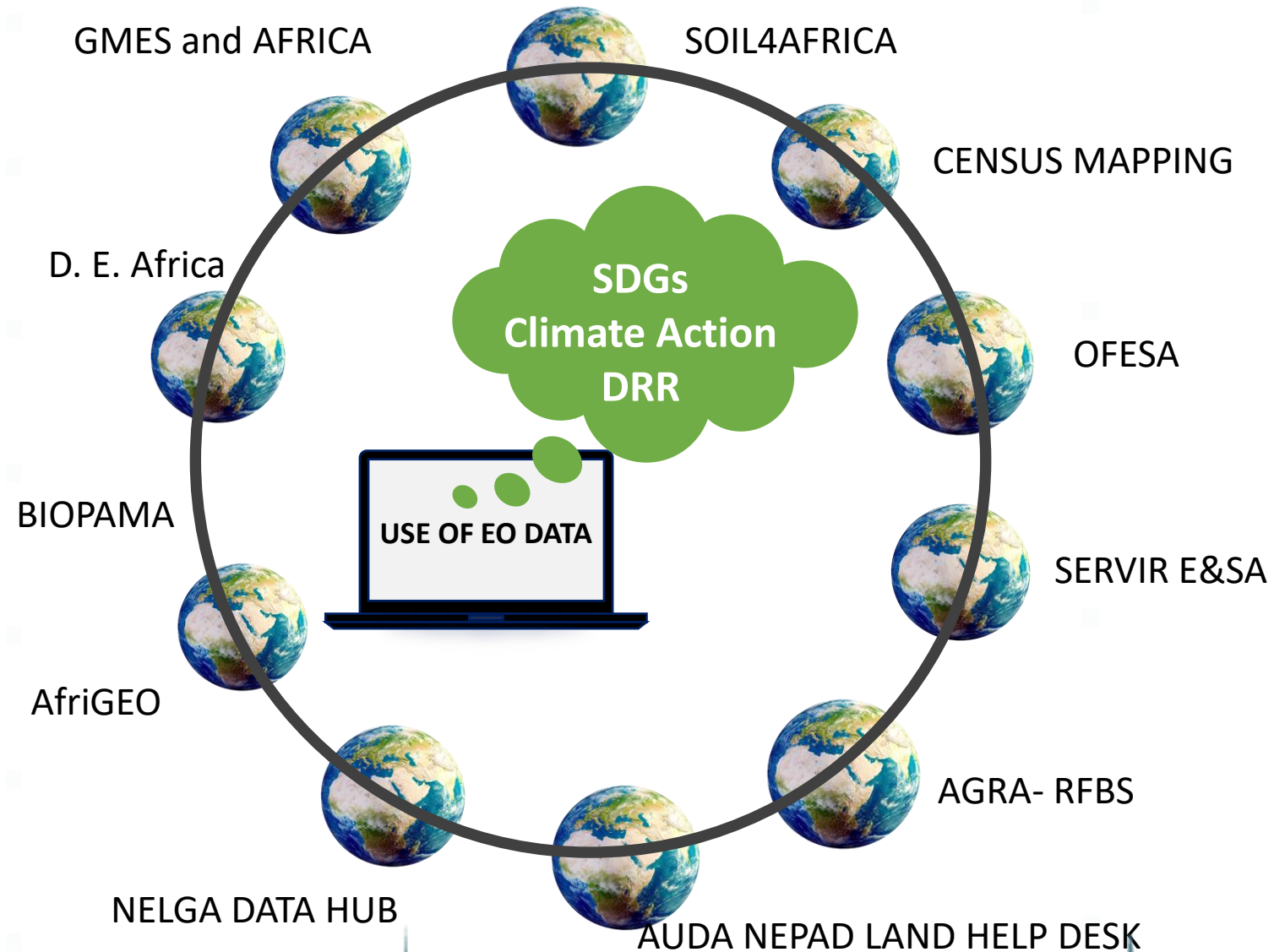
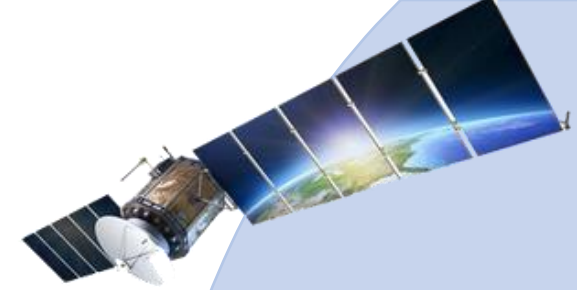
Servicing and Calibration
of Mapping Equipment



Research and Development



Projects at RCMRD.



About AfriGEO

AfriGEO is an initiative of the African community in GEO aimed at providing a coordination framework and platform for Africa's participation in GEO. In addition, it is a:

Pan African initiative to raise awareness and develop capacity on EO for governments, research organizations and the commercial sector;

Framework for strengthening partnerships and collaborations within Africa;

Gateway into Africa for international partners;

Support mechanism for the implementation of GEO objectives and programmes in Africa.

Membership

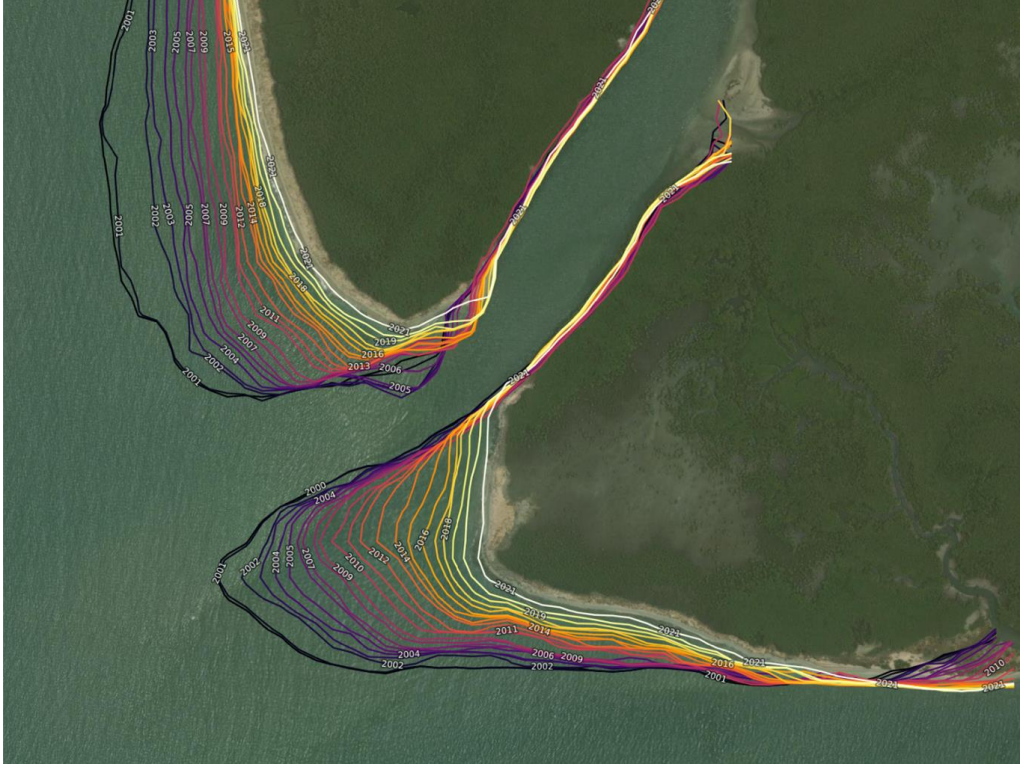
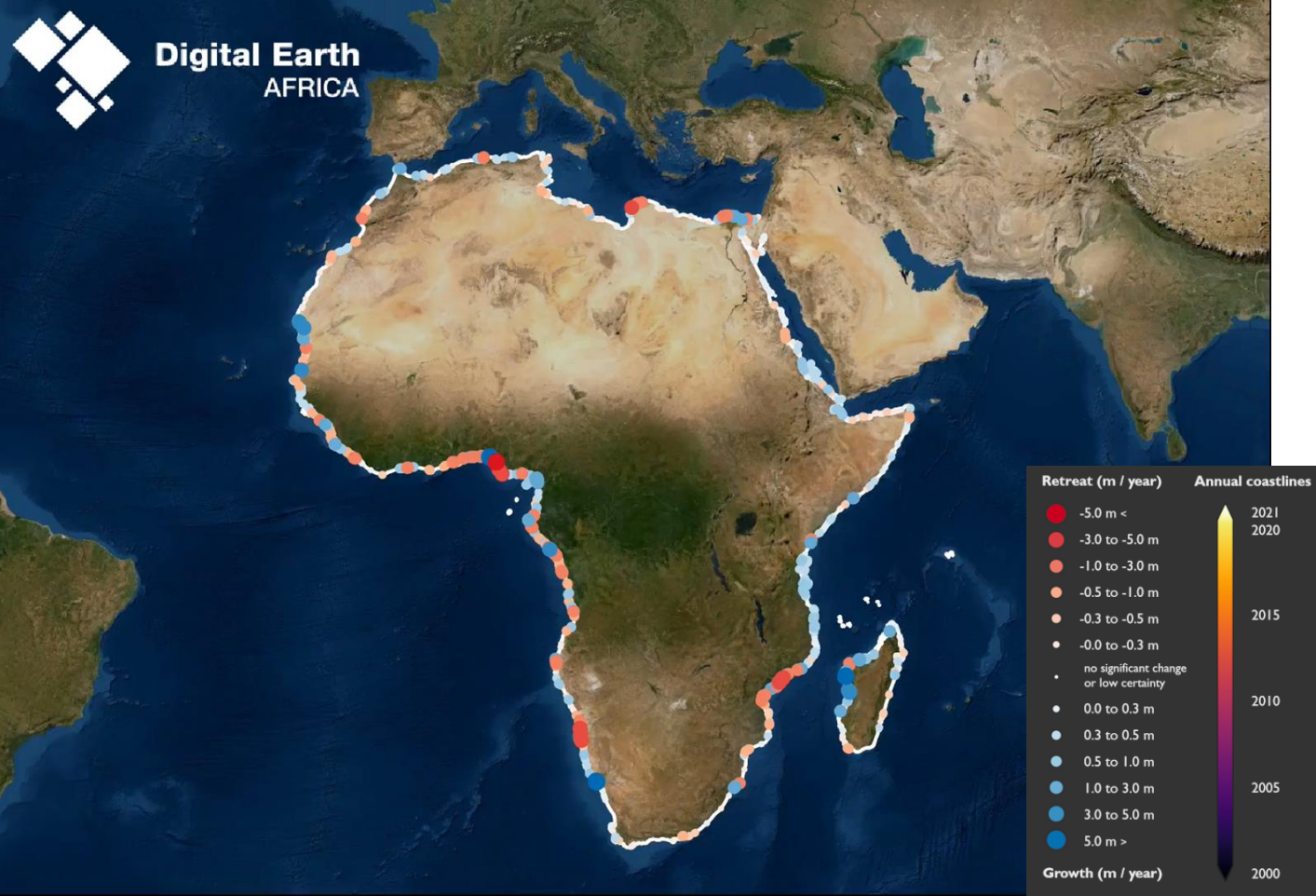


Participating Organizations

1. AARSE The African Association of Remote Sensing of the Environment
2. African Climate Change research Centre
3. ACMAD *African Centre of Meteorological Applications for Development*
4. RCMRD Reginal Centre for Mapping of Resources for Development
5. UNECA United Nations Economics Commission for Africa
6. AFRIGIST African Regional Institute for Geospatial Information Science and Technology
7. AGHRHYMET
8. ARCSSTE-E African Regional Centre for Space Science and Technology Education
9. CEDEAO/ECOWAS Communauté économique des États de l'Afrique de l'Ouest
10. OSS Observatoire du Sahara et du Sahel

1. Algeria	9. Gabon	17. Morocco	26. Sudan
2. Burkina Faso	10. Ghana	18. Niger	27. Tunisia
3. Cameroon	11. Guinea	19. Nigeria	28. Uganda
4. Central African Republic	12. Guinea-Bissau	20. Rwanda	29. Zimbabwe
5. Republic of the Congo	13. Kenya	21. Senegal	30. Namibia
6. Cote d'Ivoire	14. Madagascar	22. Republic of Seychelles	31. Togo
7. Egypt	15. Mali	23. Sierra Leone	32. Democratic Republic of Congo
8. Ethiopia	16. Mauritius	24. Somalia	
		25. South Africa	

Digital Earth Africa Coastline Monitoring Service



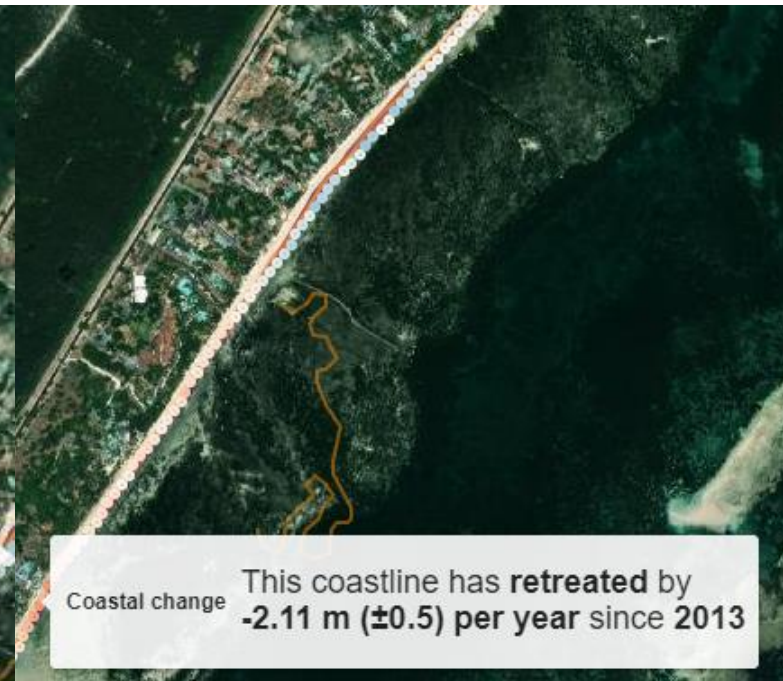
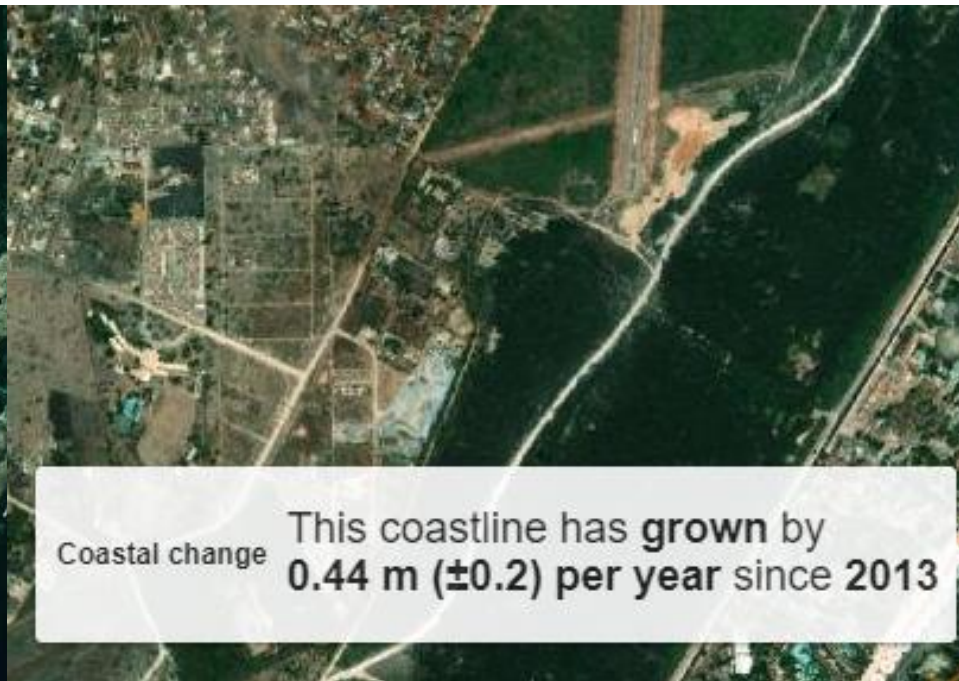
Digital Earth Africa Coastlines

- **Improved version** of the Australian Coastlines
- **Co-developed and validated** with implementing partners in Africa
- **First Africa-wide** Coastlines monitoring service
- Tracks continental changes **from 2000 to present**
- Monitor more than **60,000 km of coast**
- Provides **free interactive access** to
 - Hotspots
 - Rates of changes
 - Average yearly shorelines



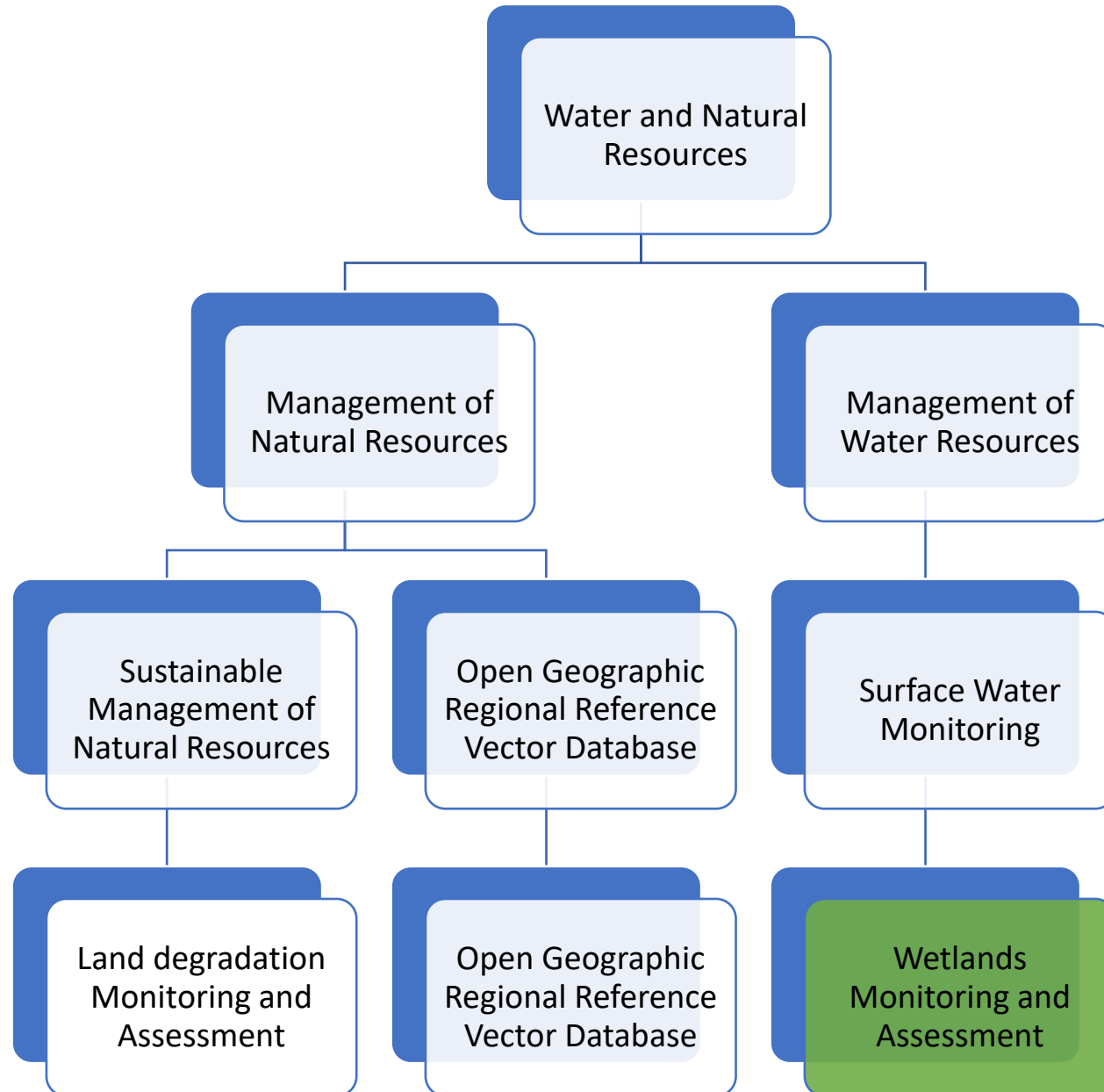
Coastal Erosion Mapping

- Kenya – No change, Growth and Retreat coastline





WETLAND MONITORING AND ASSESSMENT SERVICE



OUTLOOK OF WETLANDS IN THE EAST AFRICA REGION



Over exploitation of wetland resources

- Shrinking of some wetlands
- Expansion of others
- Pollution
- Increase in salinity



Over grazing in wetlands



Expansion and Encroachment



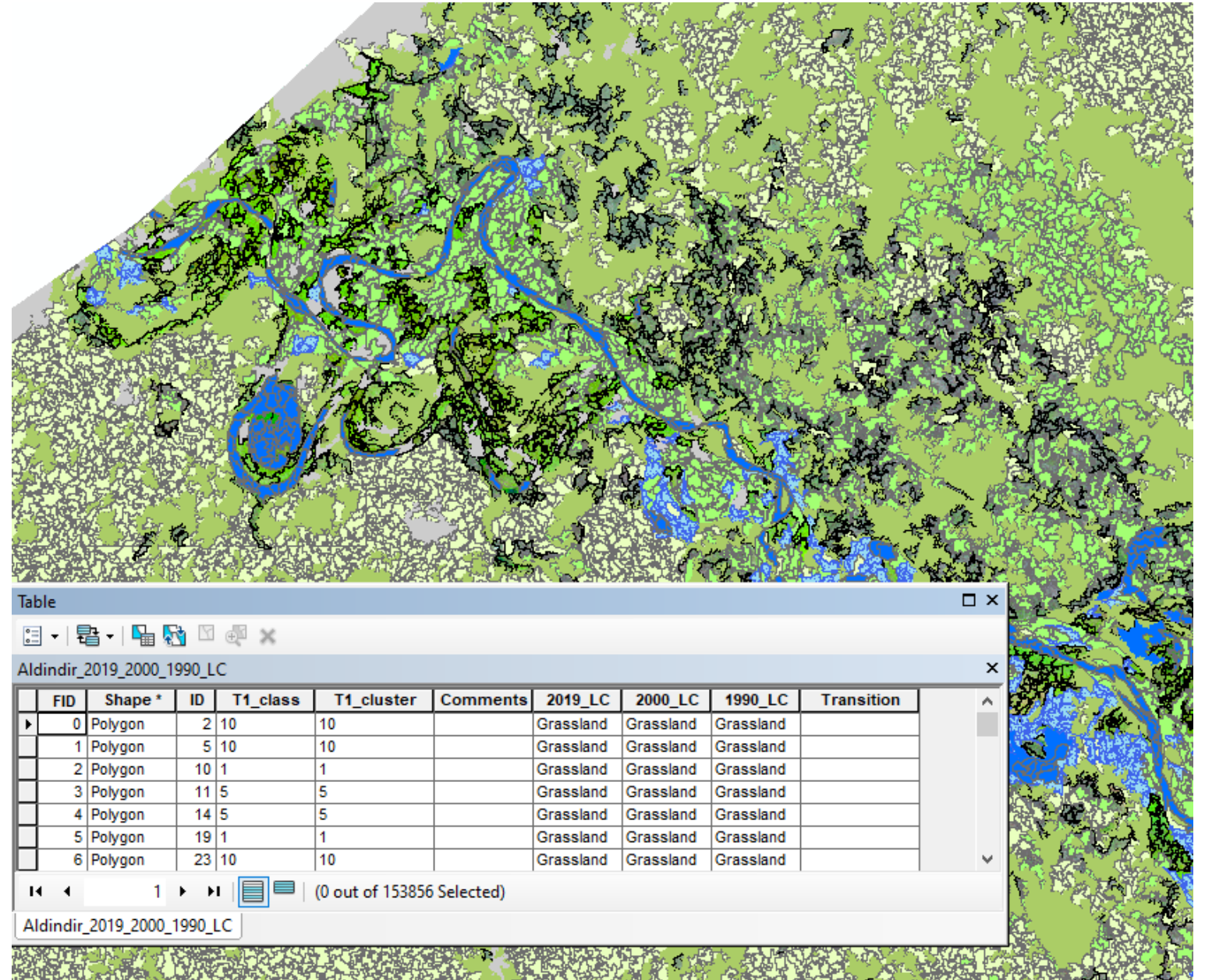
Adverse effect of climate change



Transition to other land use

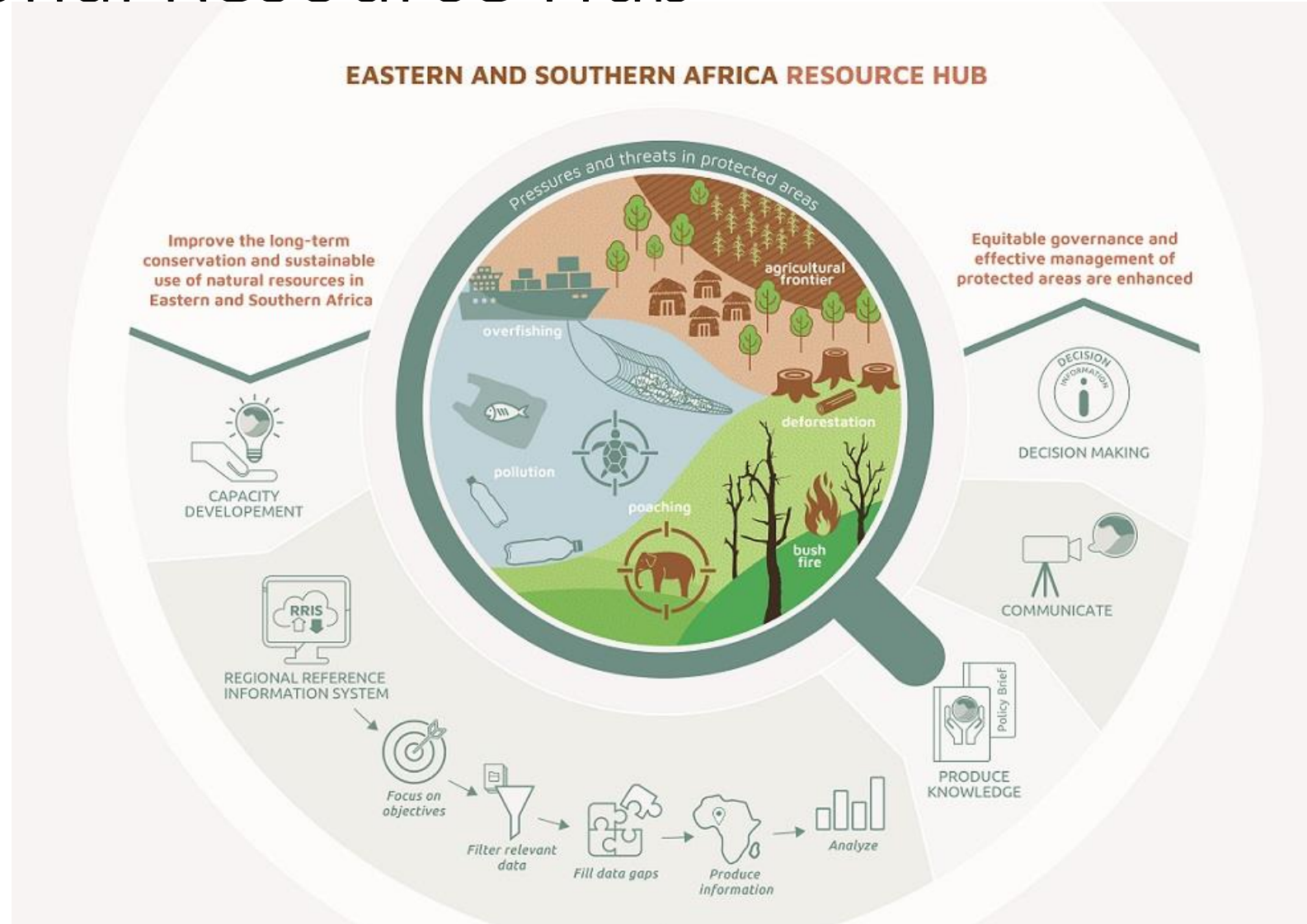
Products

- Status Maps
- Change Maps
- Transitions
- Change Statistics
- Reports
- Methodologies
- Modelling Tools



BIOPAMA- Regional Resource Hub

- The Regional Resource Hub offers information management systems and tools, capacity building, knowledge sharing products and communication activities aiming to reinforce the management effectiveness and governance of protected areas and surrounding communities in eastern and southern Africa region.
- The Regional Resource Hub (RRH) is a knowledge hub for the Eastern and Southern African region that supports better decision making for fair and effective management and governance of protected and conserved areas.
- The Hub compiles and analyzes relevant data and provides information to support field interventions, policy dialogues and decision-making processes at local, national and regional levels.



BIOPAMA- Regional Resource Hub

Protected Area Dashboard

ACP Protected Area Dashboard
The Protected Area (PA) Dashboard of the BIOPAMA Reference Information System (RIS) provides easy access to the protection level statistics and additional information on protected area systems in the African, Caribbean and Pacific (ACP) regions and related countries.

Protection level statistics as of Jun 2023
The protected area coverage at the country (GAUL) and region levels is calculated every month using open-source software (QGIS) and scripts (Python) following the procedure available at Protected Planet.
The code is available at: [Github - Protection Analyst](#)

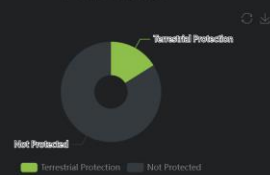
APIs:
If you want to reuse our data please visit the [API for protection level](#)

Citation:
EC-JRC (2023). BIOPAMA RIS [On-line]. Protection level statistics as of Jun 2023. Available at: ris.biopama.org

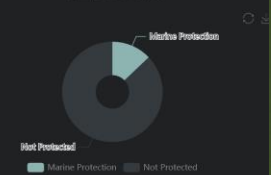
ACP Total Coverage

4066.95 4138.74 8205.69
Terrestrial Protected Areas Marine Protected Areas Total Area Protected
(1000km²) (1000km²) (1000km²)

16.09%



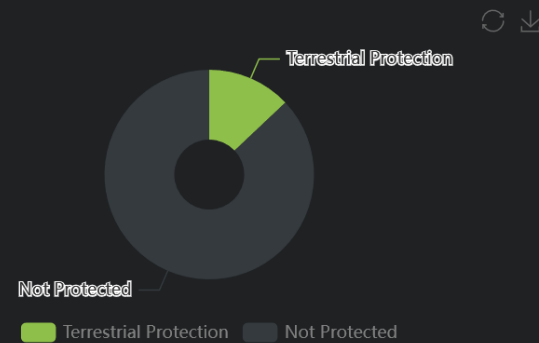
12.90%



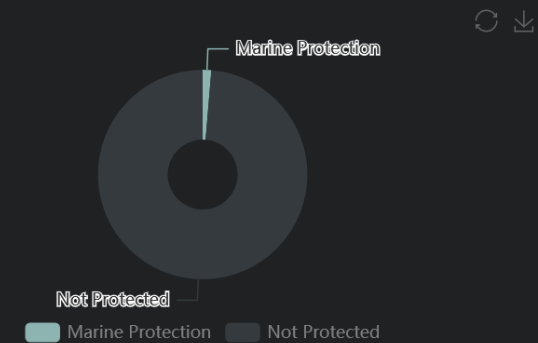
Eastern Africa coverage

800.17 18.09 818.26
Terrestrial Protected Areas Marine Protected Areas Total Area Protected
(1000km²) (1000km²) (1000km²)

12.95%

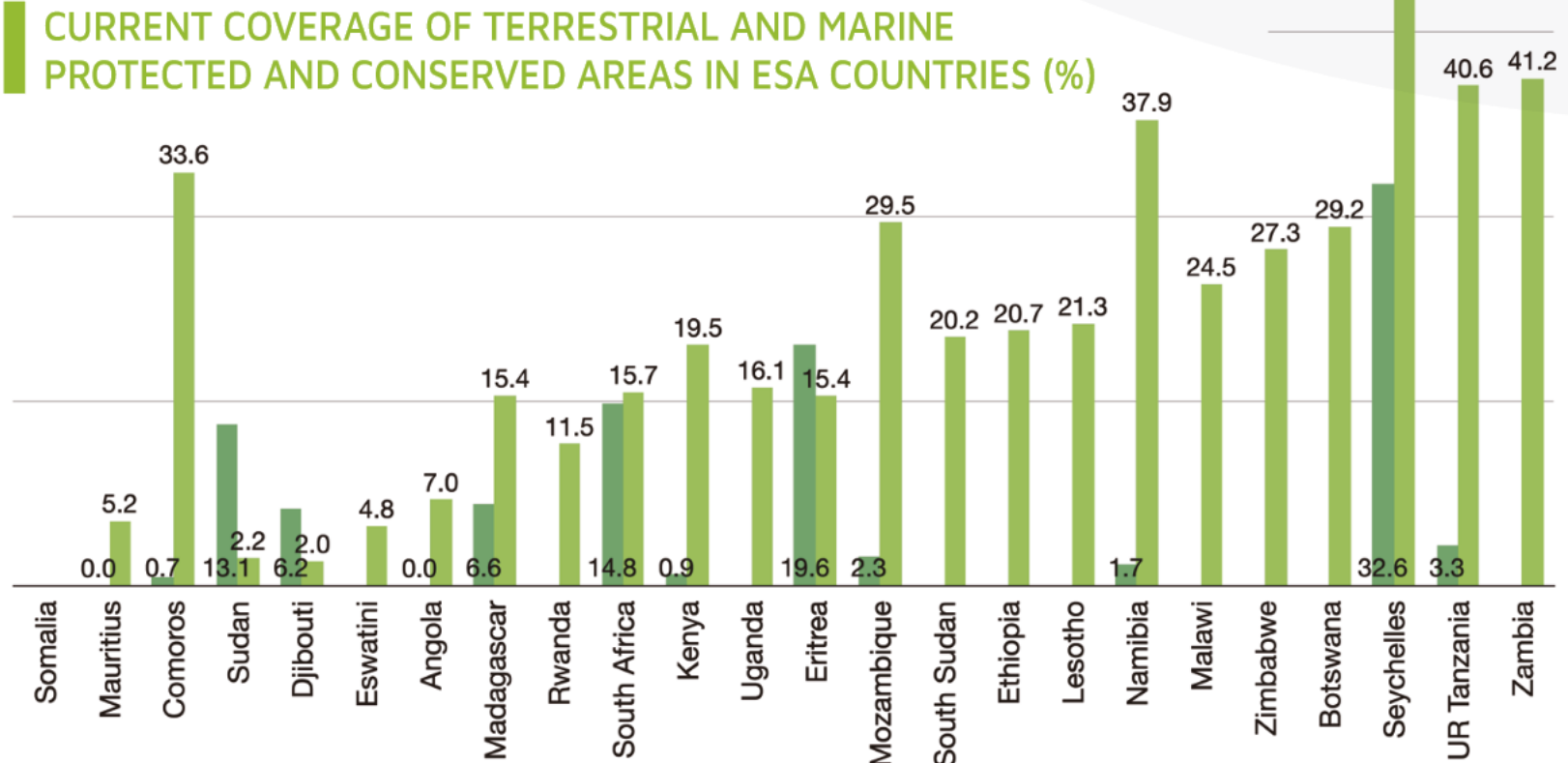


1.33%



BIOPAMA- Regional Resource Hub

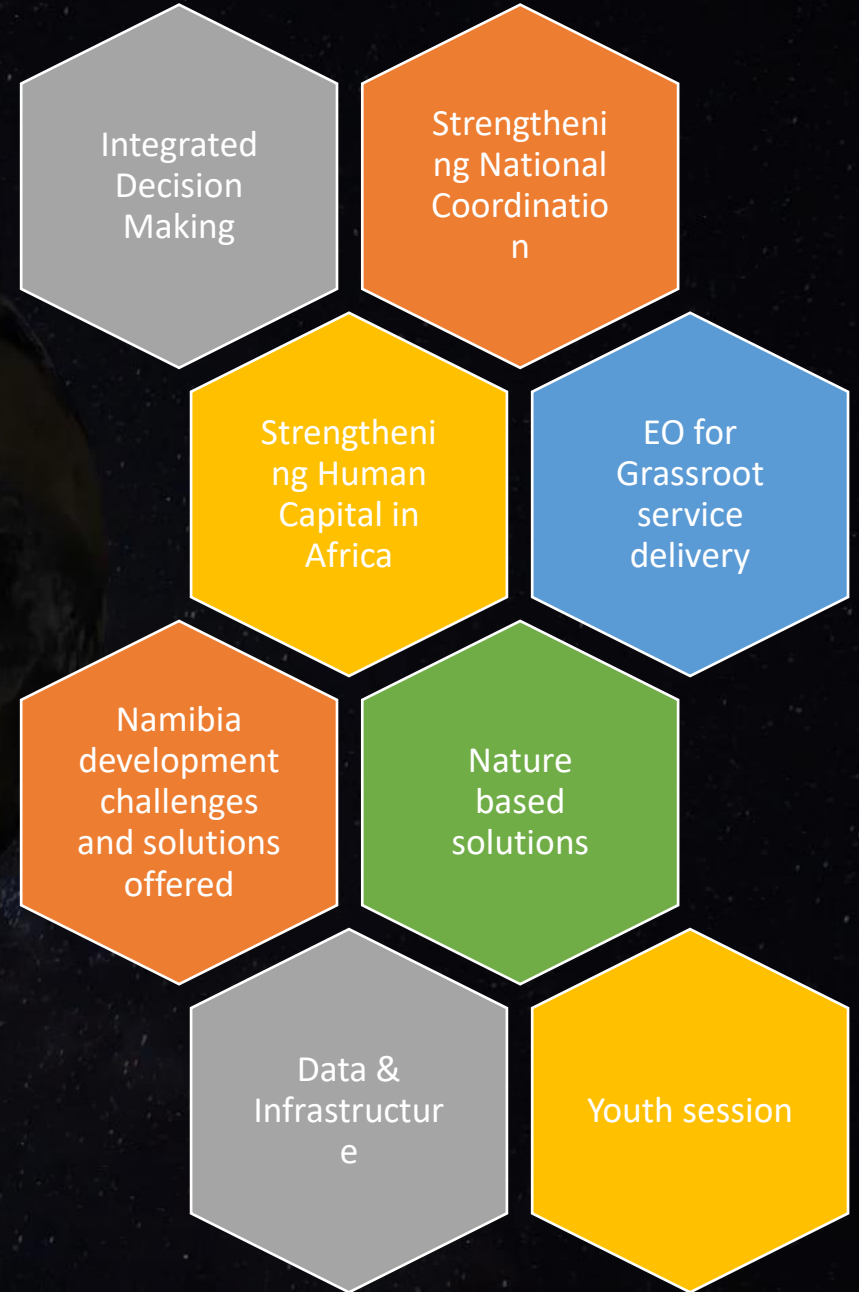
Examples of information and knowledge available through the Regional Resource Hub



7th AfriGEO Symposium, 18-23 Sep 2023

Swakopmund, Namibia

Theme: EO for Africa's Prosperity



Thank You!

Phoebe Oduor/ 06 June, 2023
poduor@rcmrd.org