Improving marine data accessibility and use in the Western Indian Ocean

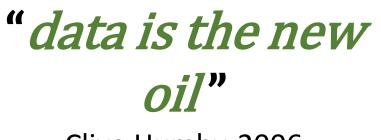
James Mbugua,

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Norwegian Agency for Development Cooperation



Clive Humby-2006

 If "crude" data can be extracted, refined, and piped to where it can impact policies in real time, it's value will soar.

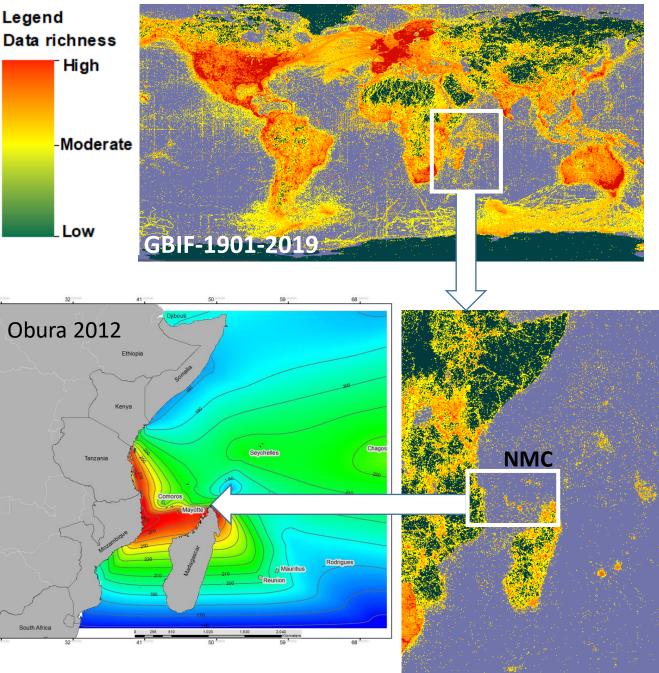


• If data can properly be shared across an entire ecosystem, and made accessible in the places where analytics are most useful, then it will become a real game changer, altering the way we make our management decision.

Data is useless if left unrefined & shared: it only creates value once it's "mined", analysed, and "piped" to the right channel.

The Problem

- Biodiversity data from the WIO is not being actively curated and made available in open platforms
- Data & info is therefore inaccessible to decision-makers, managers, nor scientists and assessment processes
- Consequently, WIO has been relatively ignored and underemphasized in global biogeographic analyses
- Data gaps have **masked** the true level of biodiversity of this region.



*GBIF- Global Biodiversity Information facility *WIO Western Indian Ocean

Tanzania

Somalia

Q



Marine Spatial Atlas for the Western Indian Ocean

An open access geospatial data repository for the Western Indian Ocean

MASPAWIO provides access to marine spatial datasets, providing layers useful for marine spatial planning, management and research, from multiple primary and secondary sources, and contributing compiled information into other regional and global repositories.

Comoros

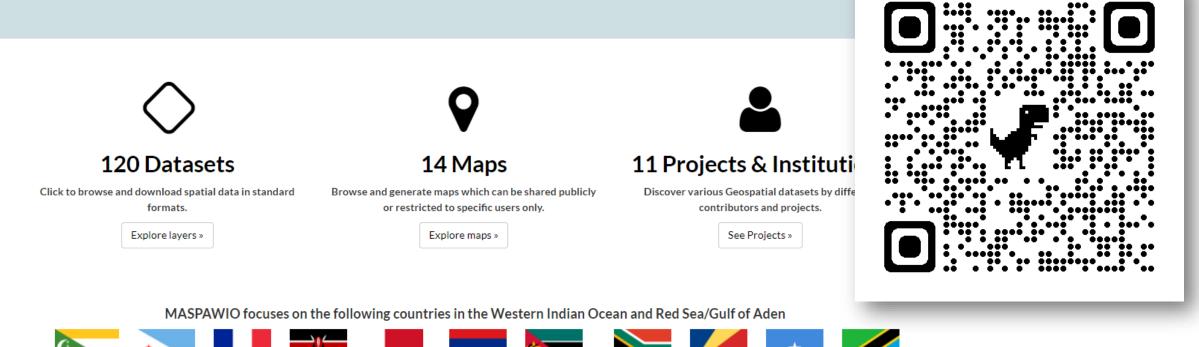
Djibouti

France

Kenya

Madagascar

Mauritius



Mozambique

S.Africa

Seychelles

About



http://maspawio.net

Marine Spatial Atlas for the Western Indian Ocean

- Open access web portal-host marine related dataset (ecological & physical data)
- Runs on GeoNode Open source Spatial Data Infrastructure
- Hosted Amazon Cloud Service (approx. USD 45/month)
- MASPAWIO started in 2015 and 2016 as a demonstrator tool for Marine Spatial Planning (MSP) in the countries of the Western Indian Ocean
- 2016-2017- WIOMSA –<u>Mozalink</u>-project, and the Inter-Governmental Authority on Development (IGAD)-<u>Mobilising Marine biodiversity project</u>
- 2018-2023 Funding has been provided by the Norwegian Agency for Development Cooperation(Norad) through the <u>Innovating and sharing knowledge for coastal resilience in</u> <u>Eastern Africa</u> Project



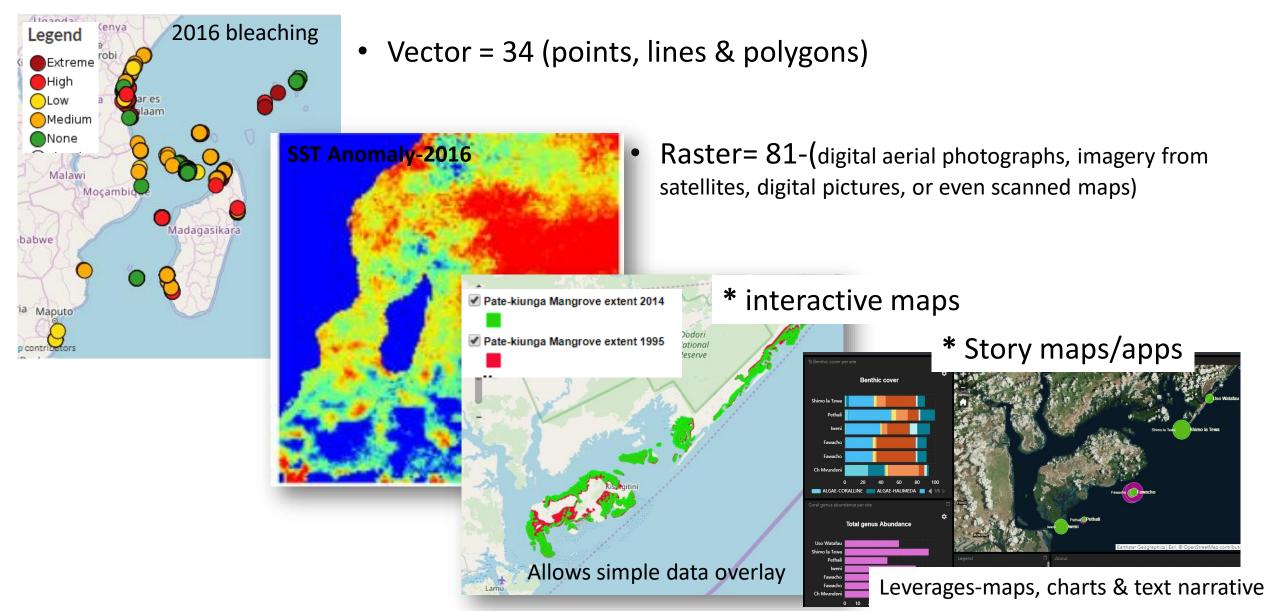


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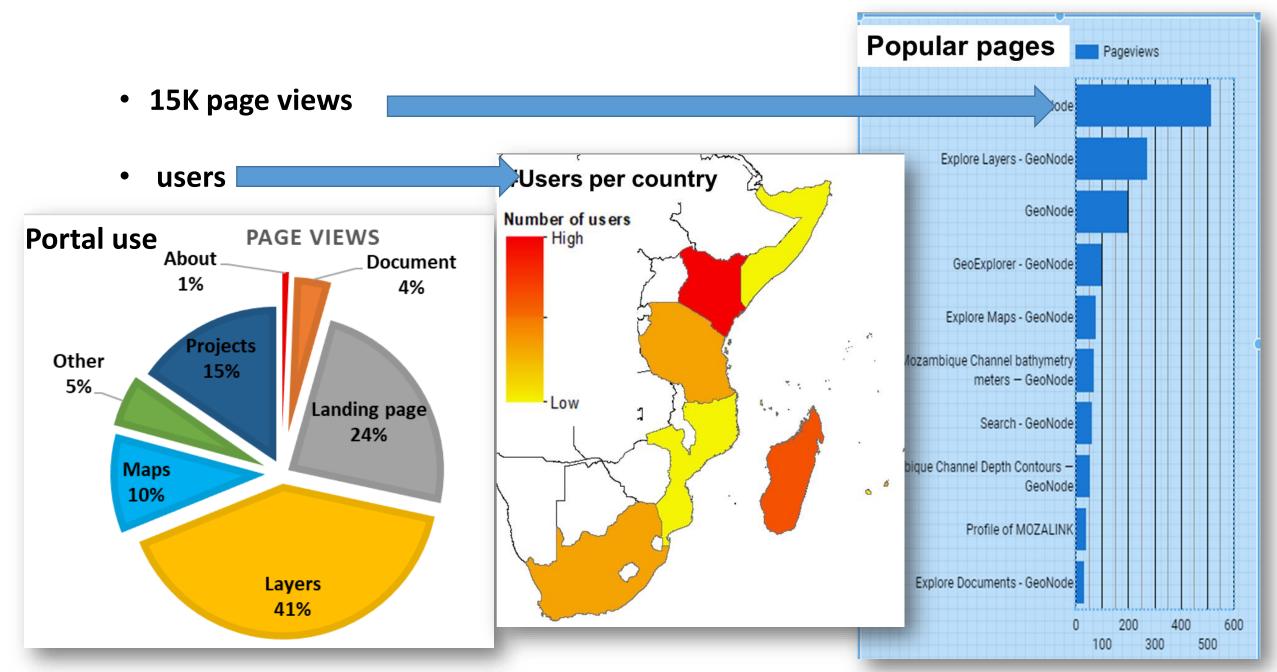
Portal status

http://maspawio.net

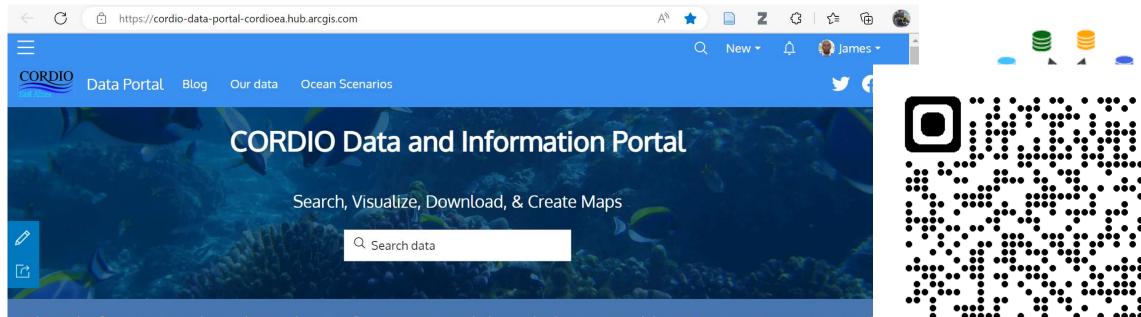
• MASPAWIO currently hosts a total **120** static layers



Portal analytics and use



Ctd

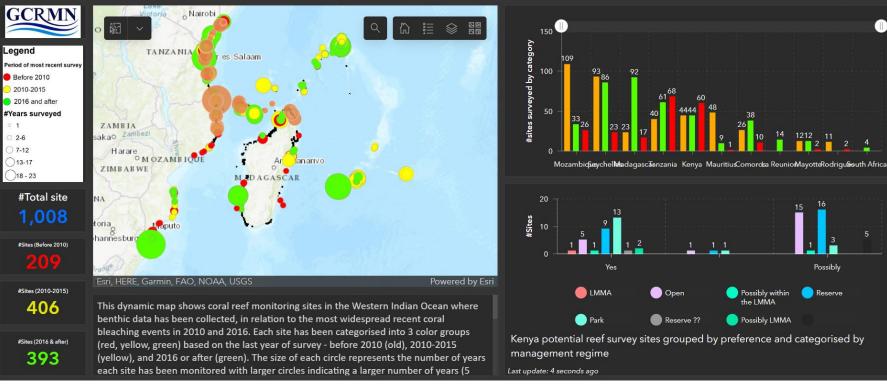


This platform is used to share data, information, and, knowledge to enable active participation in the management and conservation of marine ecosystems and resources. Users can explore, visualise, prinand download data to solve important marine related issues. Let's achieve our goals together!

Explore our data and information by category

Ctd







CORDI

Possibly

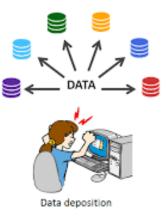
https://cordioea.maps.arcgis.com/apps/dashboards/a0b59a38 8e6847f2ae4c4f0d340f9fb2

Challenges

- Data sharing bureaucracies
- Data hoarding

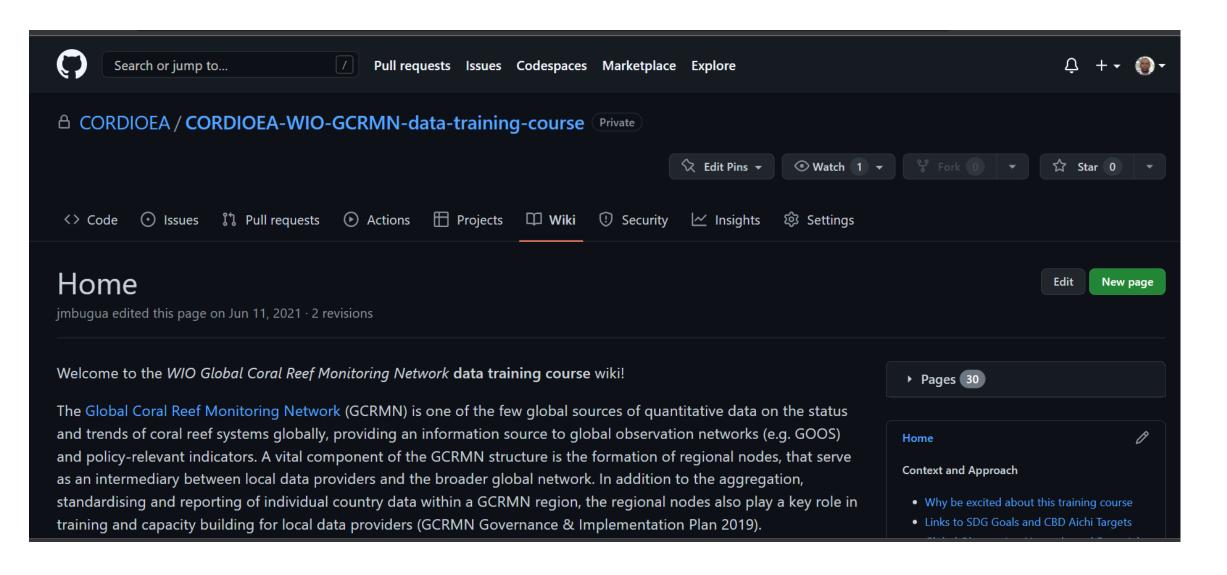
Ongoing developments

- Improve on the content and utility i.e. generate targeted indicators and make them available through the portal
- Channel MASPAWIO data to more formal regional and global repositories such as the i.e. Nairobi Convention Clearing House Mechanisms and Ocean Biogeographic Information System (OBIS) etc.
- Integrate the portal with an Integrated Publishing Toolkit instance that allows for data publication into the Global Biodiversity Information Facility (GBIF),generation of citable metadata





Solutions



Sharing is Caring

Thank you!

Comments/suggestions/questions



