



INTPA-NEAR Environment & Climate Week

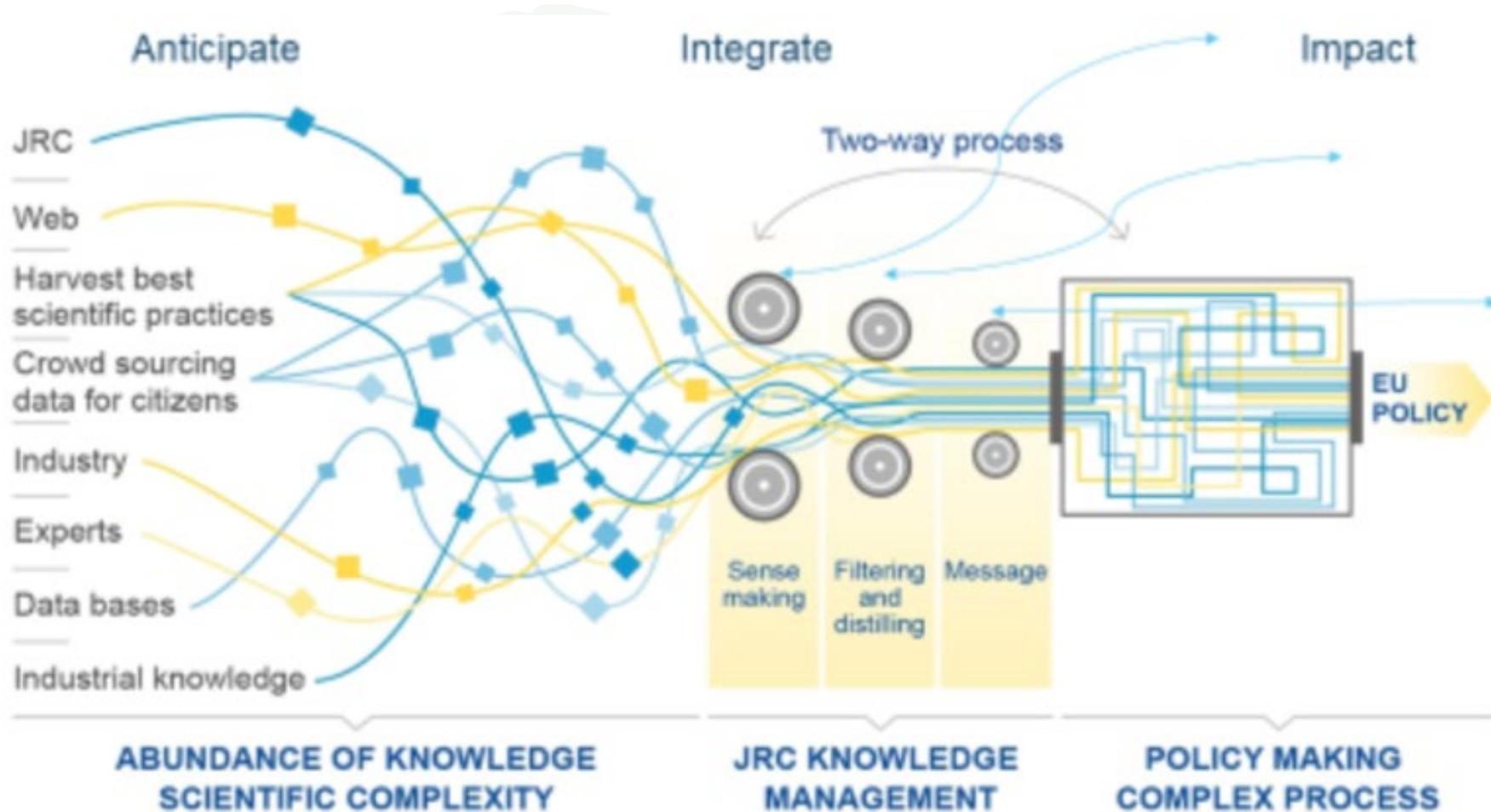
27-31 March 2023
Brussels, Belgium



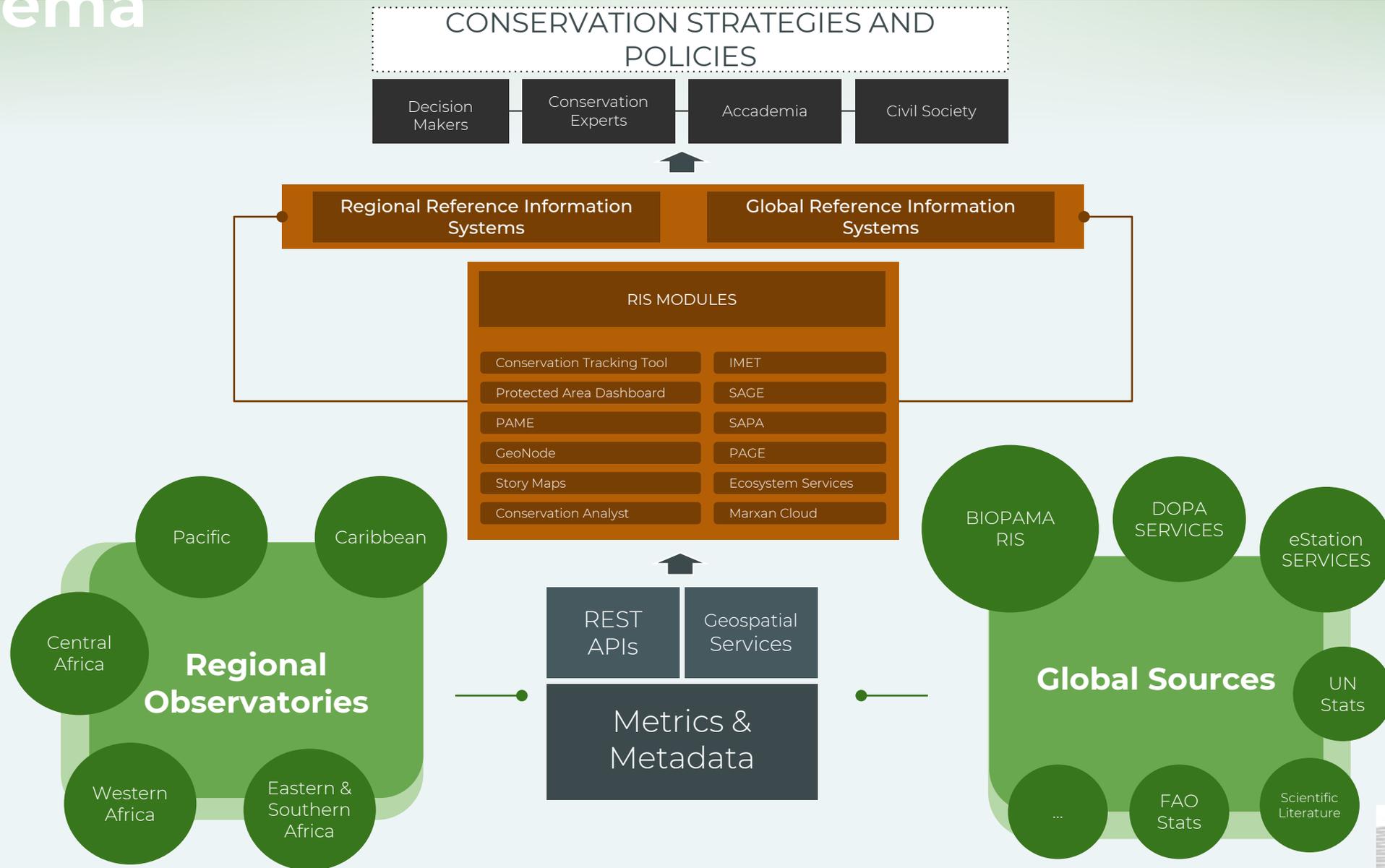
JRC Tools and Initiatives Supporting EU Delegations

- **BIOPAMA Reference Information System (RIS)**
- **Africa Knowledge Platform (AKP)**
- **The Knowledge Center for Biodiversity (KCBD)**
- **The Knowledge Center for Earth Observation (KCEO)**
- **The Knowledge Center for Global Food and Nutrition Security (KCGFNS)**

Working on science-policy interface



BIOPAMA Overview: Grand Schema



BIOPAMA Dark Theme Light Theme English Français Español

BIOPAMA RIS

From Data to Decision-making
Supporting conservation strategies, improving protected areas management.

The BIOPAMA (Biodiversity and Protected Areas Management) Reference Information System (RIS) is a free web-based, open-source information system for protected areas across the 79 countries of the African, Caribbean, Pacific (ACP) Group of States.

This version – the "RIS 3.0" – is a major re-design to the previous version. Explore the set of modules below to track progress towards conservation targets, analyse protected area performance, conservation scenarios, or simply browse facts, figures and story maps.

Protected Areas Governance and Equity

Protected Area Dashboard

Protected Area Management Effectiveness

Tracking Conservation Targets

Sharing Spatial Data on Protected Areas

BIOPAMA Analytics

Story Maps

Documents

WDPA Version Tracker

Average Conservation Score for Madagascar

Country overall: 1.99

Subsidiary Protected Areas: 1.76

Whole Protected Areas: 2.63

Conservation resources

Average value outside Protected Areas: 1.92

Average value inside Protected Areas: 2.66

Active and human-generated carbon: 0.08

Water resources: 0.06

Natural Areas: 0.04

Protected Forests: 0.04

Protected Wetlands: 0.03

Protected Freshwater Wetlands: 0.03

Protected Mangroves: 0.03

Protected Amphibians Wetlands: 0.02

Protected Wetlands: 0.02

Protected Freshwater Wetlands: 0.02

Protected Amphibians Wetlands: 0.02

Protected Wetlands: 0.02

Protected Freshwater Wetlands: 0.02

Protected Amphibians Wetlands: 0.02

Set your conservation priorities

The area to be prioritised according to your settings is equal to 38% of the country's total area, however, 10.26% of the area selected results already covered by protected and conserved areas. According to the current conservation priority settings, 18.14% of Madagascar's lands still need to be protected.

Area selected: Biodiversity Resources

What makes this area special?

Area selected: Country Protected area

Download scenario for the selected area

Download map

Conservation Score in Country: 0.07 1.08 2.29

BIOPAMA WDPA VERSION TRACKER

From Knowledge to Action for the Environment

2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050

BIOPAMA +211 +179 -4 -10

CHANGES: Assess(1%) Remove(0%) Data change(1%) Point to polygon(1) Data change(1) Data change(1) Data change(1) Data change(1)

Mapbox

BIOPAMA Dark Theme Light Theme English Français Español

Mangrove Forests Protection

Apply

Mangrove Forests Protection

Conservation

This dataset shows the Mangrove Forests Protection for the year 2018 and the country mangrove extent for years 1990 and 2018. The dataset is a subset of the global mangrove extent dataset generated.

Mangrove area in 2018 (color) Mangrove Area in 1990 (color)

Legend: Mangrove Forests Protection

Legend: Mangrove Forests Protection

ASSESSMENTS

Data Source: Global Database on Protected Area Management Effectiveness (GD-PAME, last updated on 22 December 2021)

Total number of assessments in ACP countries: **3406** (23.08%)

Total number of assessments in non-ACP countries: **24772** (167.91%)

Assessments by region

Western Africa, Southern Africa, Caribbean, Central Africa, Eastern Africa, Pacific

Assessments by country

Assessments by year

1992 1997 2000 2003 2006 2009 2012 2015 2018 2021

mapbox Double-click to pan and zoom the map.

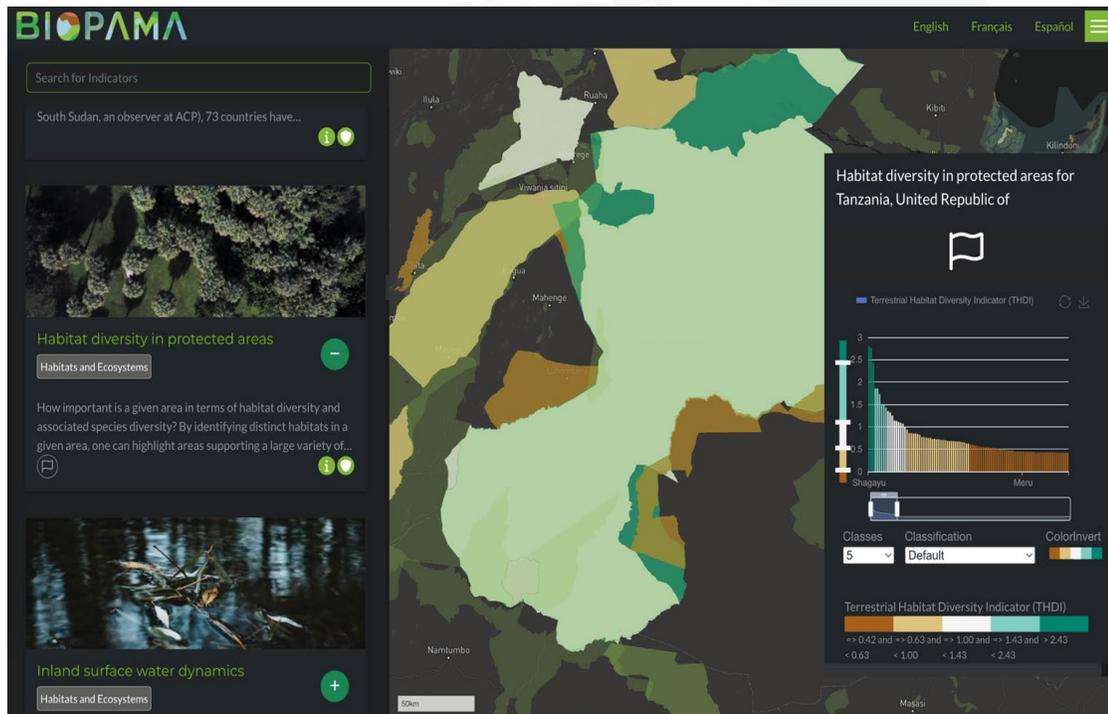
Print PDF XLSX

WDPA	REGION	SD3	COUNTRY	TYPE	PROTECTED AREA	DESIGNATION	METHODOLOGY	YEAR
24	Caribbean	BHS	Bahamas	Terrestrial	Inagua National Park	National Park	MET-APPAM	2018
180	Caribbean	DOM	Dominican	Marine	Cotubanama (Dai Este)	Private setting	MET	2015

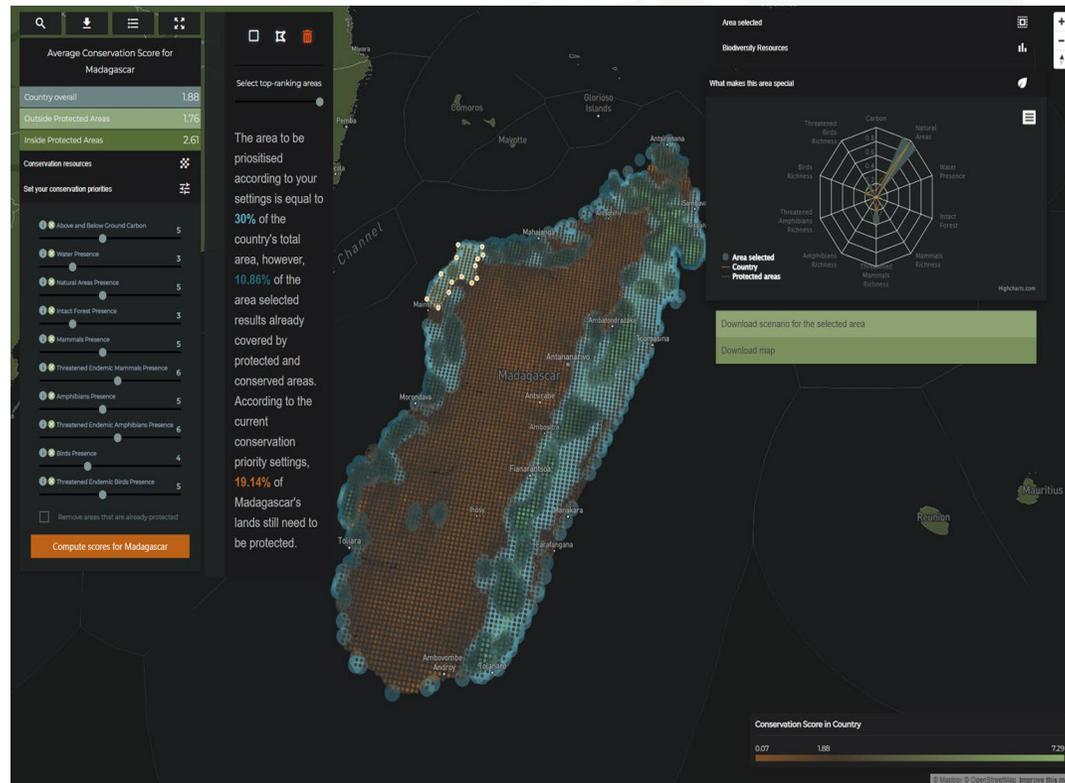
BIOPAMA Reference Information System: Tracking Conservation Targets

Linking policies, targets and indicators with Reference Information

One of the more advanced concepts of BIOPAMA RIS is to provide a comprehensive framework for measuring progress towards conservation targets. Policies and plans are often not systematically tracked, even though they are full of targets which can be measured. Instead of simply presenting data layers, in this module, data are explicitly linked to targets.

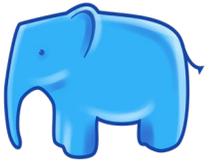


Conservation Analyst: Exploring priority conservation areas using web-based multicriteria settings



The objective is to provide a **web-based tool** allowing for the **identification and selection** of **unprotected land areas** presenting high values in terms of **biodiversity** and **key ecosystem services** such as species richness, carbon and water storage at global level.

INTEGRATED MANAGEMENT EFFECTIVENESS TOOL (IMET)



<https://rris.biopama.org/pame/tools>

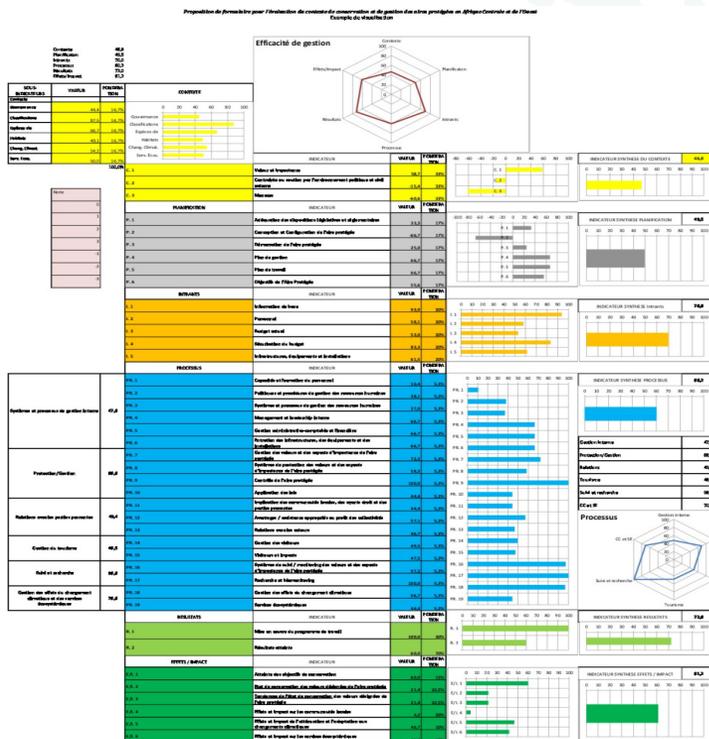
Data collection - Baseline setter –ME – Analysis – Planning – Capacity Building

Available in:
EN – FR – PT - ESP

• **IMET**
(Terrestrial & MPAs)

• **IMET Scaling-up**

• **IMET OECM**

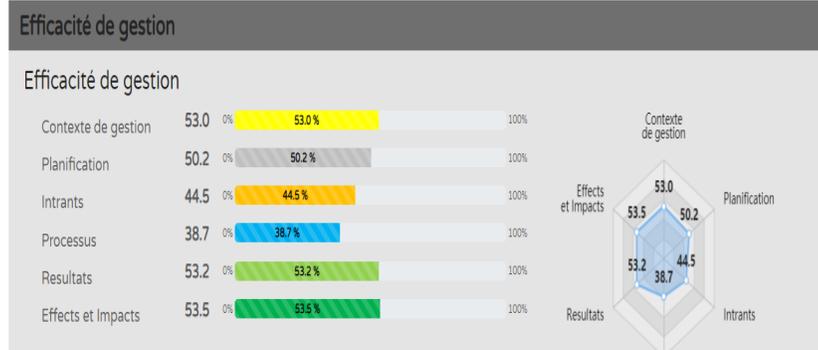


IMET: Outil intégré sur l'efficacité de gestion User Offline

IMET: Outil intégré sur l'efficacité de gestion

Évaluation de gestion

#4 Burundi





AFRICA KNOWLEDGE PLATFORM

A gateway to data and information on Africa's social, economic, territorial and environmental development, developed by the Joint Research Centre of the European Commission.



Browse our collection of
geospatial datasets

264



Discover our interactive
stories

18



Interact with our analytical
tools

13

The **Africa Knowledge Platform** is a digital hub that brings together **information and resources** on various topics related to Africa, such as environment, economic development, health, education, and governance. The platform is designed to be a **one-stop shop for information on Africa**, making it easy for researchers, policymakers, and the general public to access the information on the African dimension.



Countries' species richness



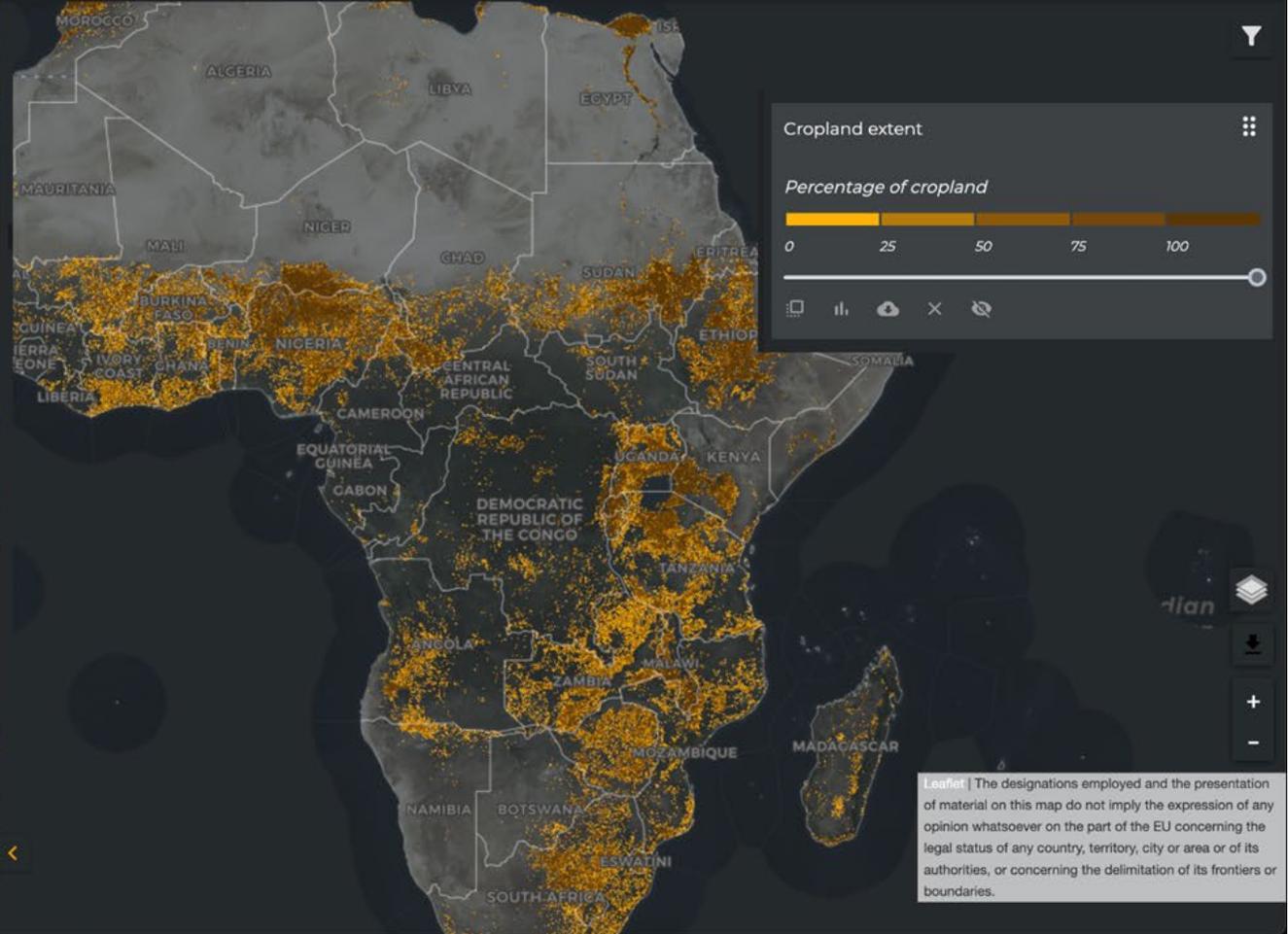
Countries' threatened mammals



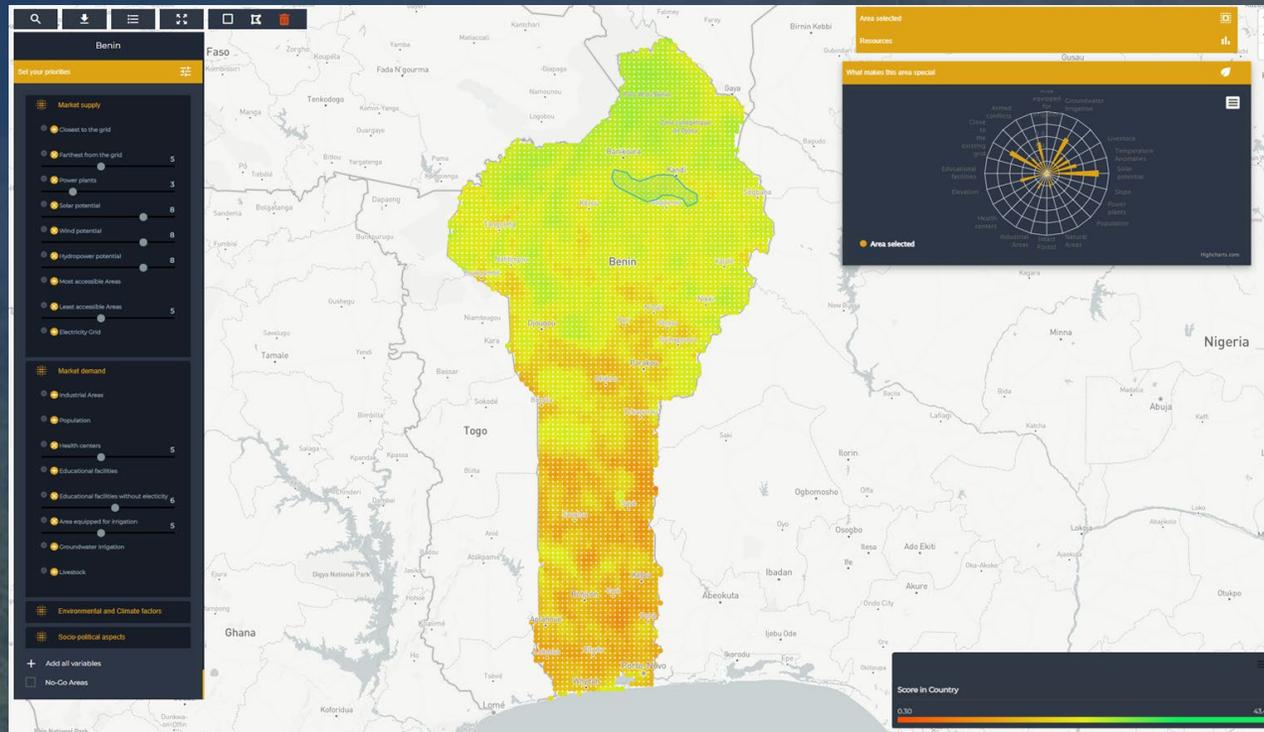
Covenant of Mayors signatures



Cropland extent



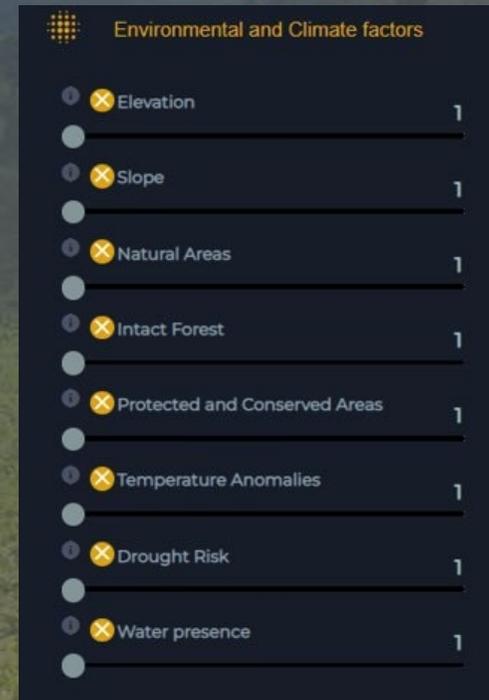
Clean Energy Access Prioritiser: Evaluating interlinkage between energy and specific national level conditions



- Porting layers from the AKP
- Tailored layers based on country specificities
- Transformation of information into normalized variables
- Flexibility through the use of weighting functions
- User-based spatial analysis
- Supporting spatial planning processes

Explore the

Multi-sectoral Approach: Four Pillars



Normalised variables with weighting functions

The Knowledge Centre for Biodiversity (KCBD)

https://knowledge4policy.ec.europa.eu/biodiversity_en

Supports the EU Biodiversity Strategy for 2030, its global dimension and the mainstreaming of biodiversity in all sectors.

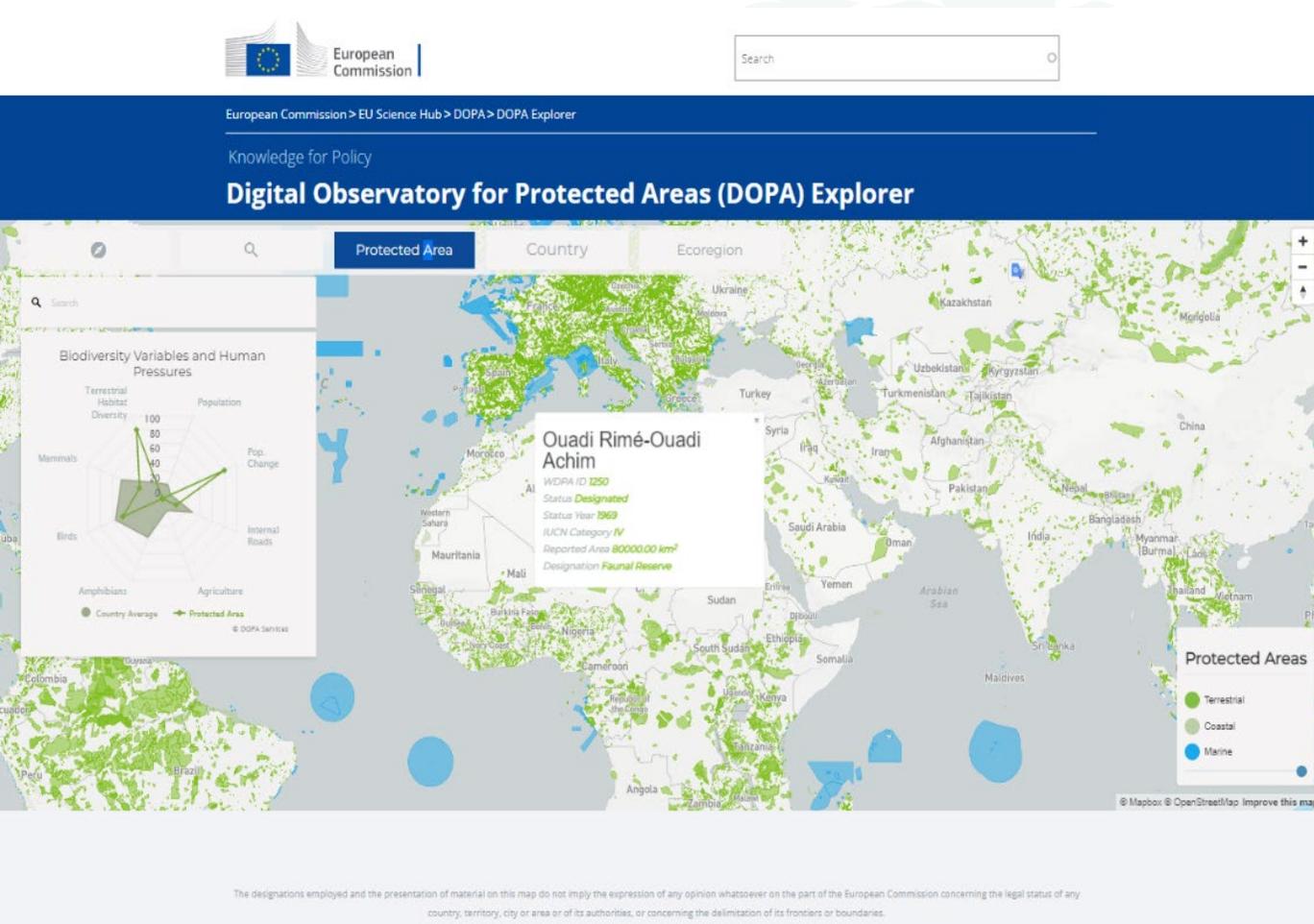
Contributes to the Commission efforts to fulfil EU commitments under the Kunming-Montreal global biodiversity framework.

Helps design the new Global Knowledge Support Service Biodiversity (<https://gkssb.chm-cbd.net/>) for CBD Parties.

Keeps supporting EU Delegations through *ad hoc* requests services offered by the Digital Observatory for Protected Areas (<https://dopa.jrc.ec.europa.eu/>).



KCBD and the global dimension

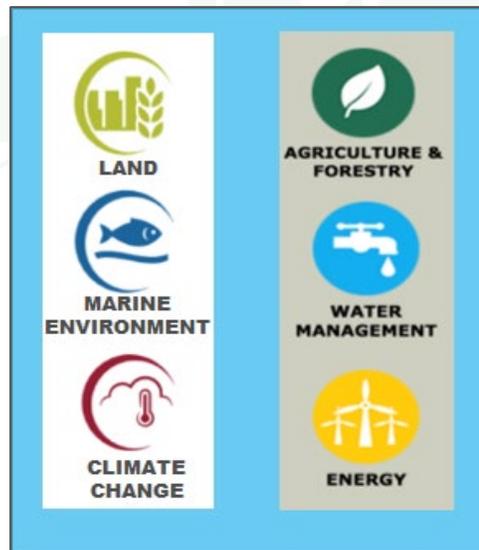


- The **Digital Observatory for Protected Areas (DOPA)**: a platform processing and distributing global indicators on the state of and pressures on biodiversity and ecosystem services, at country, ecoregion and protected area level.
- Public. Designed to support EU Delegations, Commission services, other platforms, as well as the CBD Secretariat.

Knowledge Centre on Earth Observation

https://knowledge4policy.ec.europa.eu/earthobservation_en

Pillar 1: Policy Uptake & Coherence



KCEO



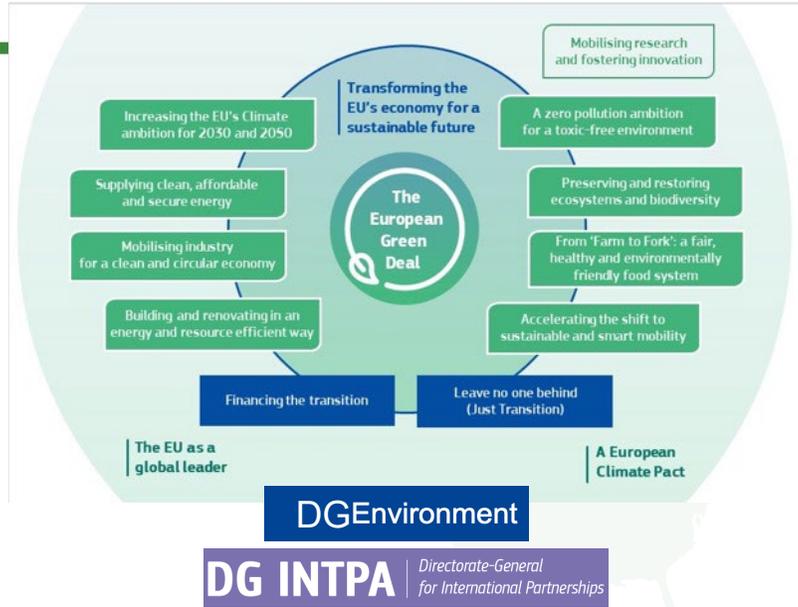
Focused entry point

Pillar 2: Mainstreaming R&I



- Inlusiveness & Transparency: Dialogue with external partners; international organisation; society.

Copernicus Land Monitoring Service – Global Activities



Providing global users with timely, on-demand, analysis-ready and advanced satellite EO products on global ecosystems (urban, agriculture, forest, lake, river, wetland, ice, managed and non-managed, etc),

as well as on the quantity and quality of their natural resources, such as biomass, biodiversity, water quality, soils and minerals, through bio-geophysical parameters and derivatives of them,

to identify how our planet's environment changes in response to anthropogenic and climatic pressures.

The Copernicus Land Service (CLMS) supports EU and global environment and climate change policies



The Knowledge Centre for Global Food and Nutrition Security

https://knowledge4policy.ec.europa.eu/global-food-nutrition-security_en

Supports the EU's commitment to eradicate hunger and malnutrition and to sustainable food systems worldwide

Knowledge organized across 9 topics and 100 developing countries

The screenshot shows the website's navigation menu with the following items: Overview, Topics (expanded), Countries (expanded), Resources, News, Events, and About. The 'Topics' dropdown includes: Sustainable Food Systems, Agroecology, COVID-19 and Food and Nutrition Security, and Food security and food crises. The 'Countries' dropdown includes: Nutrition, Research and Innovation, Climate extremes and food security, and Fisheries and aquaculture and food and nutrition security. Below the menu is a video player with a play button and the text 'supporting sustainable food systems'.

Overview	Topics	Countries	Resources	News	Events	About
		Afghanistan	Ecuador	Kiribati	Philippines	
		Algeria	Egypt	Lao People's Democratic Republic	Republic of the Congo	
		Angola	El Salvador	Lebanon	Rwanda	
		Bangladesh	Equatorial Guinea	Lesotho	Sao Tome and Principe	
		Belize	Eritrea	Liberia	Senegal	
		Benin	Eswatini	Libya	Seychelles	
		Bhutan	Ethiopia	Madagascar	Sierra Leone	
		Bolivia	Fiji	Malawi	Somalia	
		Botswana	Gabon	Malaysia	South Africa	
		Burkina Faso	Gambia	Mali	South Sudan	
		Burundi	Ghana	Mauritania	Sri Lanka	
		Cambodia	Guatemala	Morocco	Sudan	
		Cameroon	Guinea	Mozambique	Suriname	
		Cape Verde	Guinea-Bissau	Myanmar	Syria	
		Central African Republic	Guyana	Namibia	Tanzania	
		Chad	Haiti	Nepal	Togo	

The Knowledge Centre for Global Food and Nutrition Security

https://knowledge4policy.ec.europa.eu/global-food-nutrition-security_en

Knowledge products for policymakers and practitioners

The impact of Russia's war against Ukraine on global food security – February 2023.

This sixth knowledge review of [Knowledge Centre for Global Food and Nutrition Security](#) (KC-FNS) analyses, organises and synthesises the information from 57 papers published between 1st December and 31st January 2023. The previous reviews and additional information can be consulted in the [KC-FNS page](#) dedicated to the impact of Russia's war against Ukraine on global food security.

This knowledge review does not reflect an official position of the JRC or any other services of the European Commission.

KEY KNOWLEDGE

- Ukraine's grain production and exports are down approximately by 40% and 30% respectively in 2022 compared to 2021.
- Compared to 2022, Ukraine's grain production and exports are expected to decrease by 20% and 15% respectively.
- The Black Sea Grain initiative and EU solidarity lanes have allowed to export of 42 MT of agricultural products but both are confronted with difficulties.
- Overall, 2022 over 2021 world cereals production is projected to have decreased by 2%.
- 1% drop in global harvests raises food commodity prices

About the rapidly increasing impact of weather and climate extremes on food security and the need for accelerated adaptation and mitigation action

Headlines

- There is high confidence that increasing weather and climate extreme events have exposed millions of people

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Next events

Latest publications

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Knowledge Review: Sustainable Food Systems



Knowledge Review: Digital technology for agriculture: What's in it for smallholder farmers?



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Thank you



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