



**United Nations Environment Programme
World Conservation Monitoring Centre**

BIODIVERSITY COLLECTION, MANAGEMENT & ANALYSIS AT THE EUROPEAN & GLOBAL LEVEL: WHAT QUESTIONS ARE WE TRYING TO ASK?

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To answer national, regional or global questions and track progress towards relevant biodiversity targets we need data. Not only do we need data we need to understand process of collecting, managing, analysis and discussing the data. We need to agree on common language and processes so that we spend our time discussing the question rather than any technical issues.



**Answering any questions depends
on the following**

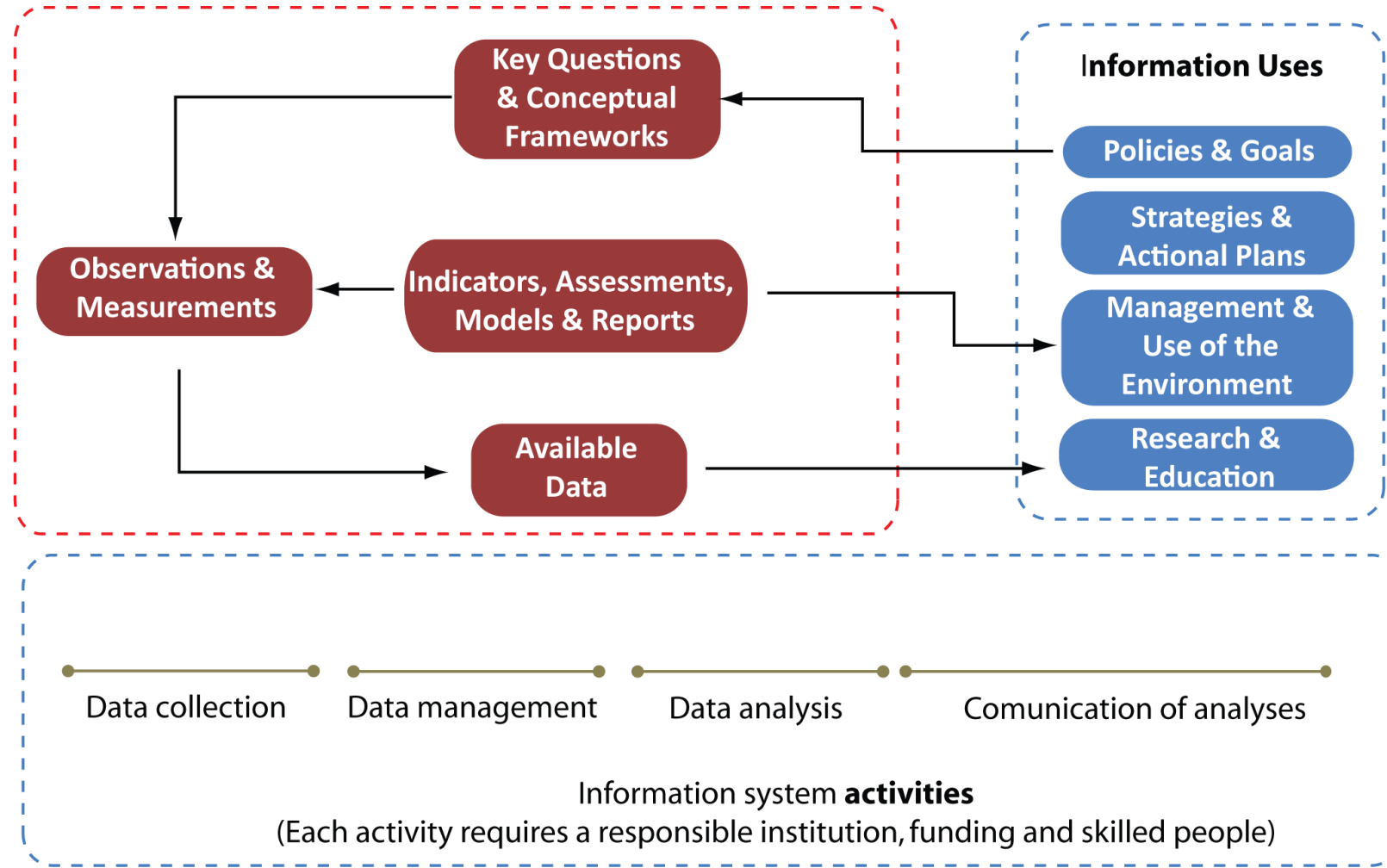
Data Collection

Data Management

Analysis

Communication

The Data Landscape



Responsibility of:



Park manager



Data Management Unit



GIS Unit/
Thematic expert



Head of National Agency

Global targets; Aichi Biodiversity Target 11, the UN Sustainable Development Goals, ++



Convention on Biological Diversity

The Convention | Cartagena Protocol | Nagoya Protocol | Programmes | Information | Secretariat

Strategic Plan for Biodiversity 2011-2020

Key Elements

- Aichi Biodiversity Targets
- Technical Rationale (and Quick Guides)
- Implementation
- Indicators
- Actions
- Quick Guides for the Aichi Biodiversity Targets
- Aichi Biodiversity Targets Icons

> Convention > Strategic Plan 2011-2020 > Aichi-Targets

Aichi Biodiversity Targets

- Strategic Goal A: Address the underlying causes of biodiversity loss by mainstreaming biodiversity across government and society
- Strategic Goal B: Reduce the direct pressures on biodiversity and promote sustainable use
- Strategic Goal C: To improve the status of biodiversity by safeguarding ecosystems, species and genetic diversity
- Strategic Goal D: Enhance the benefits to all from biodiversity and ecosystem services
- Strategic Goal E: Enhance implementation through participatory planning, knowledge management and capacity building

National Targets

- Click here to find national targets, including national targets linked to the Aichi Biodiversity Targets by countries.



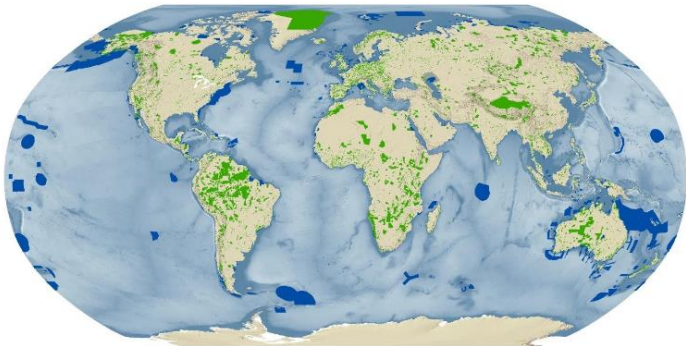
What helps?

Clear Data Standards lead to enhanced quality

Table 2.1 Summarised description and allowed values for the WDPA attributes (Version 1.4). For detailed descriptions see [Appendix 1](#).

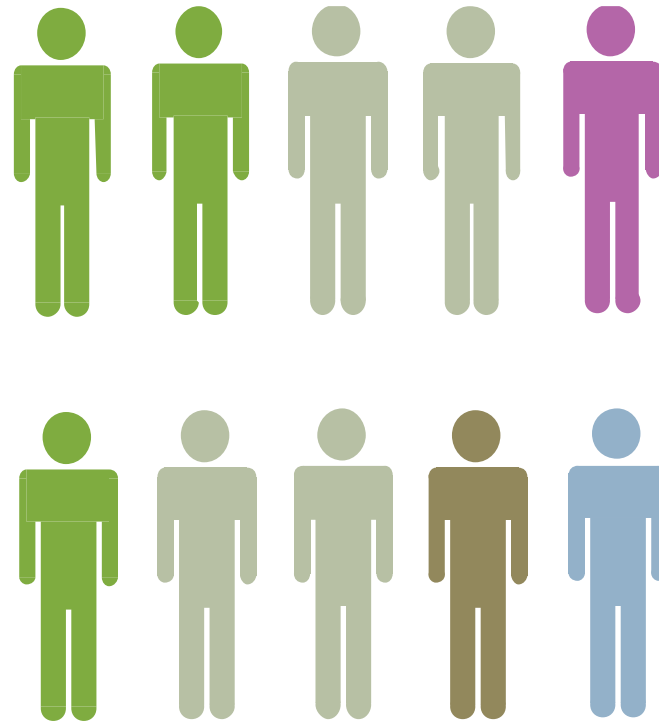
No	Requirement	Provided by	Field Name	Type	Length	Accepted values
1	Minimum	UNEP-WCMC	WDPAID	Number (Double)	N/A	Assigned by UNEP-WCMC. Unique identifier for a protected Area.
2	Minimum	UNEP-WCMC	WDPA_PID	Text (String)	52	Assigned by UNEP-WCMC. Unique identifier for parcels or zones within a protected area.
3	Minimum	Data provider	PA_DEF	Text (String)	20	Allowed values: 1 (meets IUCN and/or CBD PA definition); 0 (does not meet IUCN and/or CBD PA definition (currently stored outside WDPA)).
4	Minimum	Data provider	NAME	Text (String)	254	Name of the protected area (PA) as provided by the data provider.
5	Minimum	Data provider	ORIG_NAME	Text (String)	254	Name of the protected area in original language.
6	Minimum	Data provider	DESIG	Text (String)	254	Name of designation.
7	Complete	Data provider	DESIG_ENG	Text (String)	254	Designation in English. Allowed values for international-level designations: Ramsar Site, Wetland of International Importance; UNESCO-MAB Biosphere Reserve; World Heritage Site. Allowed values for regional-level designations: Baltic Sea Protected Area (HELCOM); Specially Protected Area (Cartagena Convention); Marine Protected Area (CCAMLR); Marine Protected Area (OSPAR); Site of Community Importance (Habitats Directive); Special Protection Area (Birds Directive); Specially Protected Areas of Mediterranean Importance (Barcelona Convention). No fixed values for protected areas designated at a national level.
8	Minimum	Data provider	DESIG_TYPE	Text (String)	20	Allowed values: National, Regional, International, Not Applicable
9	Complete	Data provider	IUCN_CAT	Text (String)	20	Allowed values: Ia, Ib, II, III, IV, V, VI, Not Applicable, Not Assigned, Not Reported
10	Minimum	UNEP-WCMC	INT_CRIT	Text (String)	100	Assigned by UNEP-WCMC. For World Heritage and Ramsar sites only.
11	Minimum	Data provider	MARINE	Text (String)	20	Allowed values: 0 (100% Terrestrial PA), 1 (Coastal: marine and terrestrial PA), and 2 (100 % marine PA).

World Database on Protected Areas
User Manual 1.4







Stable core team, with required technical and linguistic skills









Work with relevant actors to ensure there are mandates asking for this data e.g. CBD, EU, EEA


The following is a list of the decisions by the Conference of Parties (COP) of the Convention on Biological Diversity (CBD) relevant to the WDPA.

COP VI/28, 2004   "Invites the World Conservation Monitoring Centre of the United Nations Environment Programme, working with international organizations, to further develop the World Database on Protected Areas in order to assist the monitoring towards the overall objective of the decision on protected areas, and urges Parties, other Governments and relevant organizations to provide up-to-date information for the database." [This is further elaborated in the annexed Programme of Work on Protected Areas].


COP VIII/24, 2006  "Notes the importance of the World Database on Protected Areas as a tool to assist the monitoring of progress towards achieving the targets of the Programme of Work on Protected Areas, and invites the World Conservation Monitoring Centre of the United Nations Environment Programme, the World Commission on Protected Areas of the International Union for Conservation of Nature, and their collaborators to further develop access to the database and information management including tools for data sharing and exchange."

COP IX/18, 2008   "Encourages Parties to develop national or regional data networks in order to facilitate the exchange of, and access to information..., including providing information to the WDPA"

COP X/31, 2010  "Encourages Parties to share and update relevant information on their protected areas system with the World Database on Protected Areas"

COP X/31, 2010  "The COP... invites Parties, taking into account the target for goal 1.4 of the programme of work, which calls for all protected areas to have effective management in existence by 2012 using participatory and science-based site planning processes with full and effective participation of stakeholders, and noting that to assess the effectiveness of the management, specific indicators may also be needed to: (a) Continue to expand and institutionalize management effectiveness assessments to work towards assessing 60 per cent of the total area of protected areas by 2015 using various national and regional tools and report the results into the global database on management effectiveness maintained by the World Conservation Monitoring Centre of the United Nations Environment Programme (UNEP WCMC)"

COP XI/24, 2012  "Invites the UNEP World Conservation Monitoring Centre and its partners, including the World Commission on Protected Areas of the International Union for Conservation of Nature (IUCN), to continue to report progress towards achieving Aichi Biodiversity Target 11 and related targets through the Protected Planet Report".

COP XIII/2, 2016  "Invites the International Union for Conservation of Nature and the World Conservation Monitoring Centre to work with Parties and other Governments to update the World Database on Protected Areas and also to contribute to the assessment of progress in the implementation of Aichi Biodiversity Target 11".





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Show the value of the data: Protected Planet Reports

Protected Planet Report 2016

How protected areas contribute to achieving global targets for biodiversity



Asia Protected Planet Report 2014

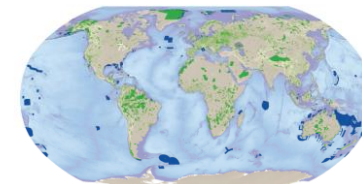
Tracking progress towards targets for protected areas in Asia



Protected Planet National Technical Series: Republic of Korea



2014 United Nations List of Protected Areas





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Work with partners
to help them, show it
is a real partnership.

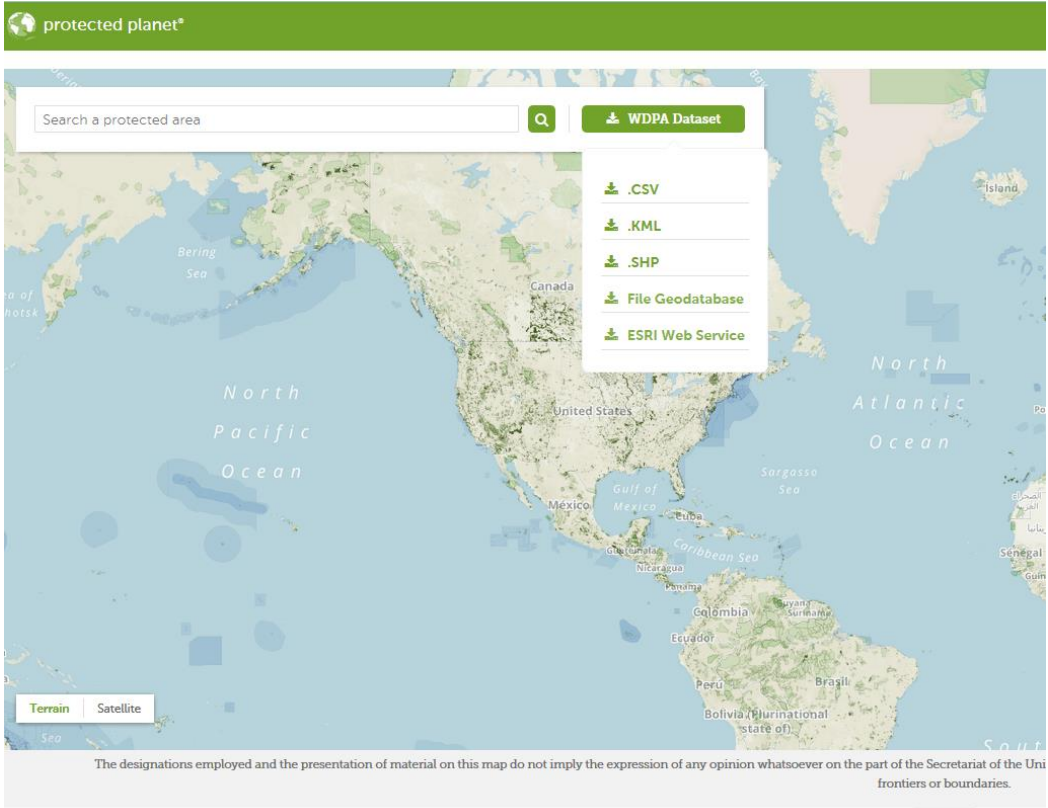


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Great meeting on #ProtectedAreas with 7 countries from the Horn Of Africa, lots of exchange of ideas!
#DataManagement #WorkingTogether pic.twitter.com/UCYK7YfhWI



Share and showcase the data



Discover our Thematic Areas



WDPA

The World Database on Protected Areas (WDPA) is the most comprehensive global database on terrestrial and marine protected areas.

[Learn more →](#)



PARCC

The PARCC project's main objective was to assess the vulnerability of West African protected areas to climate change and help design more resilient protected area networks.

[Learn more →](#)



ICCAs

The ICCA Registry is an online platform for indigenous peoples' and community conserved territories and areas, where communities themselves provide data, case studies, maps, photos and stories.

[Learn more →](#)



PAME

PAME is a global database, comprising many thousands of assessments of how well a protected area is being managed – primarily the extent to which it is protecting values and achieving goals and objectives.

[Learn more →](#)



Connectivity Conservation

Connectivity Conservation aims to strengthen the protection of biodiversity, enhance the provision of ecosystem services, and increase resilience to climate change.

[Learn more →](#)



Green List

The IUCN Green List is a new global standard for protected areas. The list recognizes success in achieving conservation outcomes and measures progress in effective management of protected areas.

[Learn more →](#)

Share and showcase the data

Protected area coverage per country/territory by UN Environment Regions

This page provides access to national statistics for every country and territory classified under the UN Environment Regions. The regions listed below are based upon UN Environment's Global Environment Outlook (GEO) process. For a detailed discussion on the use of regions for reporting and the links between the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) regional/subregional assessments please refer to the paper "Analysing biodiversity and conservation knowledge products to support regional environmental assessments" by Brooks et al published in Nature's Scientific Data in February 2016.

Download complete country codes list as a .CSV

Africa		+
Asia & Pacific		+
Europe		-
Country name	ISO alpha-3	
Åland Islands	ALA	
Albania	ALB	
Andorra	AND	
Armenia	ARM	
Austria	AUT	



Number of Protected areas

11,432

Polygons/Points ratio

100%

Polygons

0%

Points

Number of sources

For International designations	5
For National designations	2
For Regional designations	2
TOTAL	9

IUCN Management categories

Management categories	Count	%
Ia	17	0.15
II	24	0.21

Protected areas coverage

Area terrestrial



Area marine



Warning: These statistics might differ from those reported officially by countries due to difference in methodologies and datasets used to assess protected area coverage and differences in the base maps used to measure terrestrial and marine area of a country or territory.
[Learn how we calculate protected area coverage statistics](#)

Governance types

Name	Governance type	Count	%
Federal or national ministry or agency		10228	89.47
Not Reported		161	1.41



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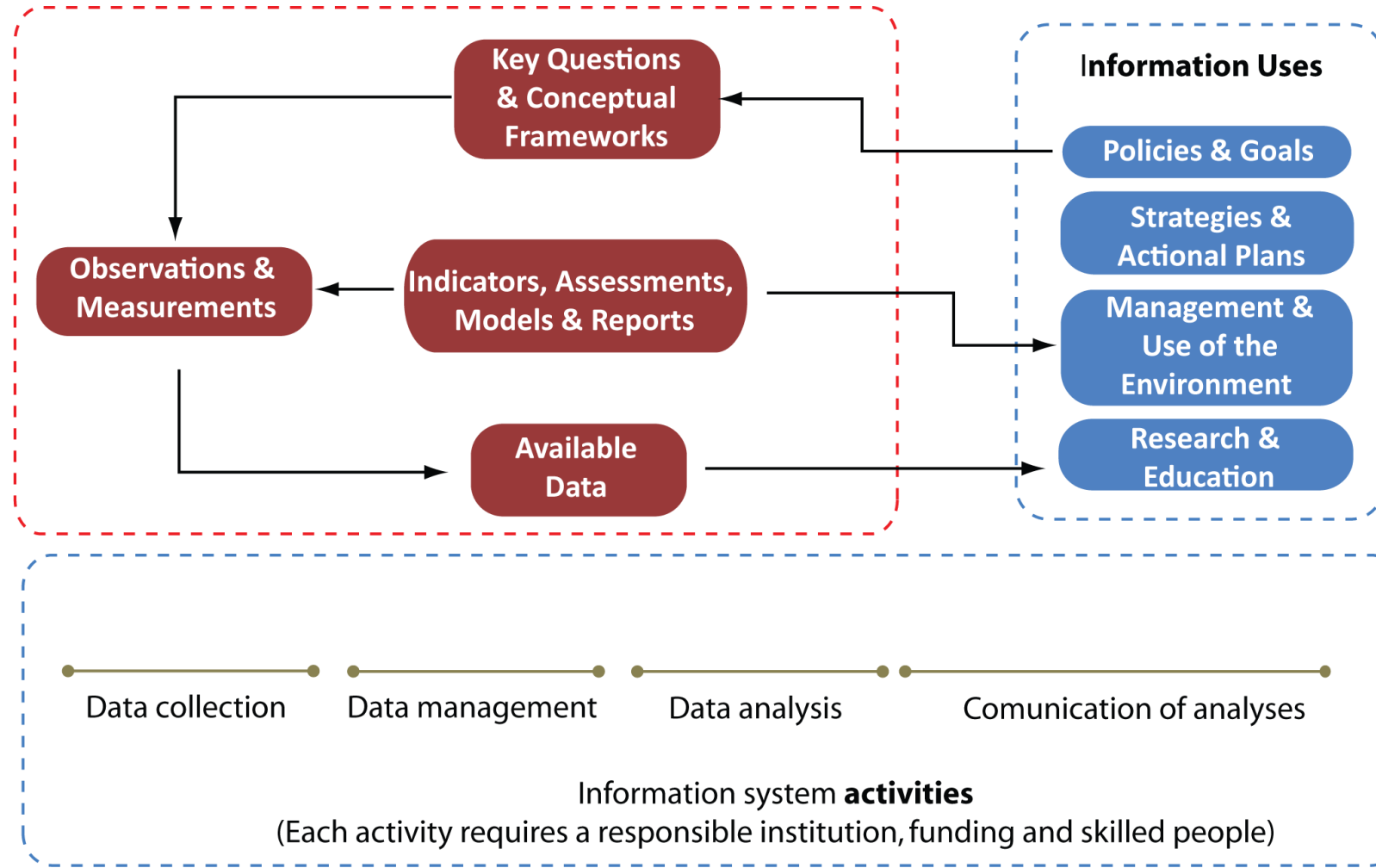
Though most importantly....a clear question and a clear way of answering it.



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At a **European** level some of the high level questions are:
How is biodiversity doing? We use Articles 12 & 17 of the Nature Directives,
Where are the protected areas and how much is covered? We use Natura 2000, CDDA



Responsibility of:



Park manager



Data Management Unit



GIS Unit/
Thematic expert



Head of National Agency



At a **Global** level some of the high level questions are the same: How is biodiversity doing? Many datasets, lots of modelling and interpretation, no consistent data to answer this.

Where are the protected areas and how much is covered? WDPA.
We can use this to tell us quantitative

**How much of the world is covered
by Protected Areas?**





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Who wants to know?

National governments, EU, UN, CBD, NGOs, Academics,
Industry, the public, etc....

Why?

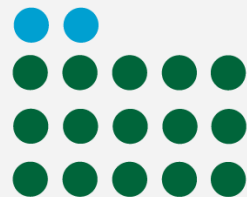
Global Biodiversity Targets,



Conserving areas for global biodiversity conservation

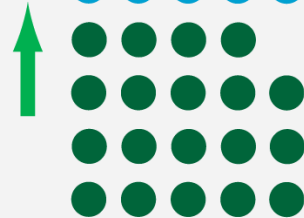
Progress to date in coverage of protected areas

● 1 million km²



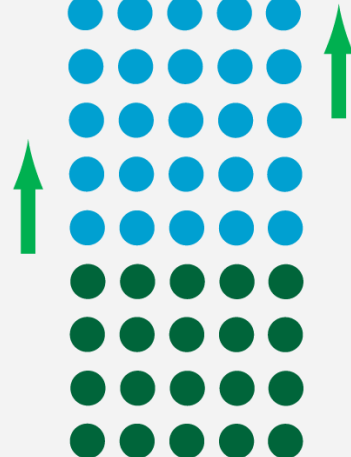
17 million km²

2000



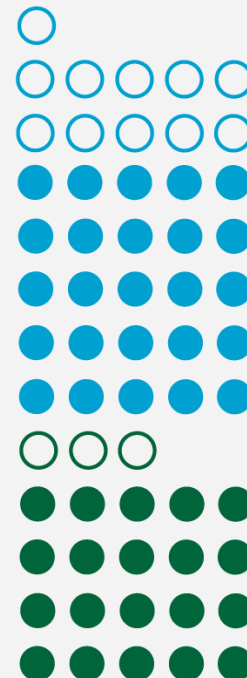
27 million km²

2010



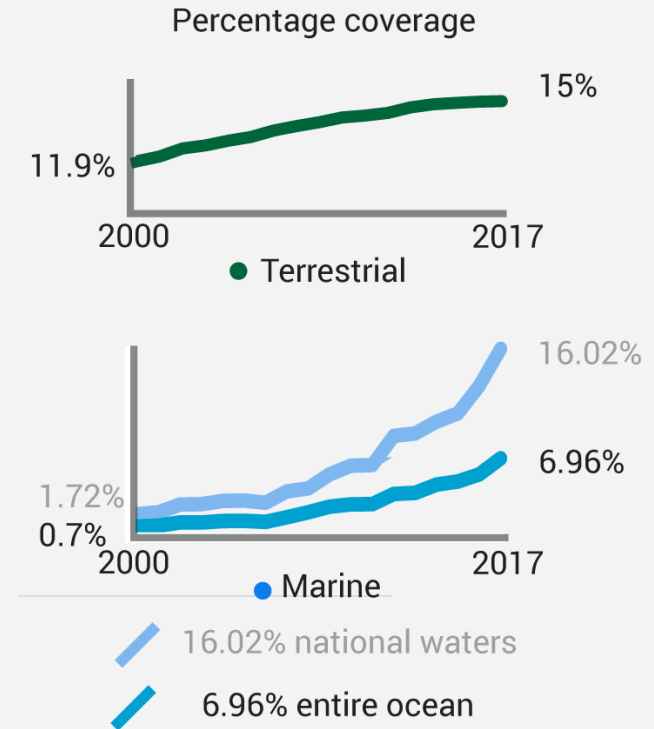
45 million km²

2017



59 million km²

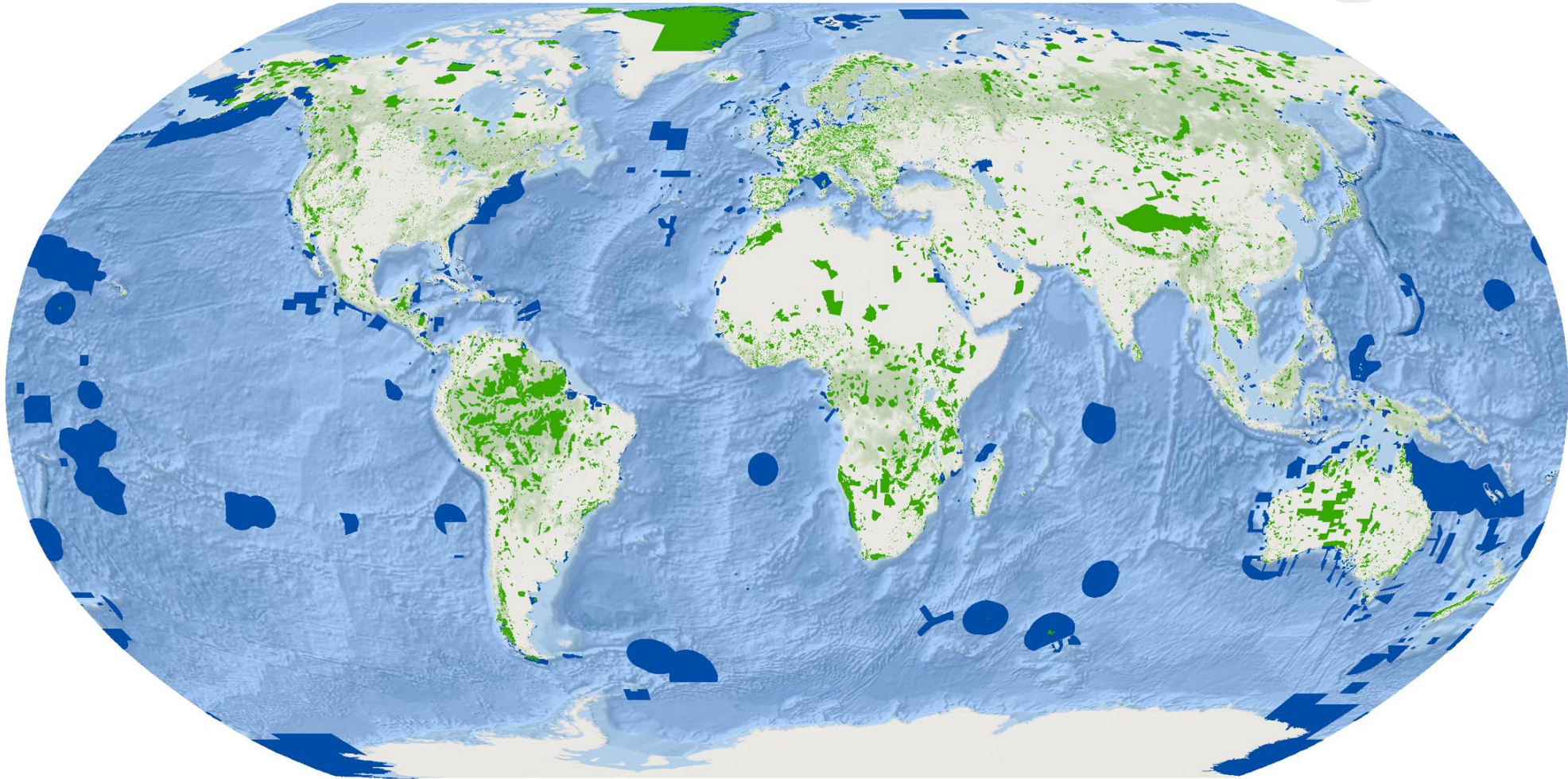
Aim by 2020



Source: UNEP-WCMC, December 2017

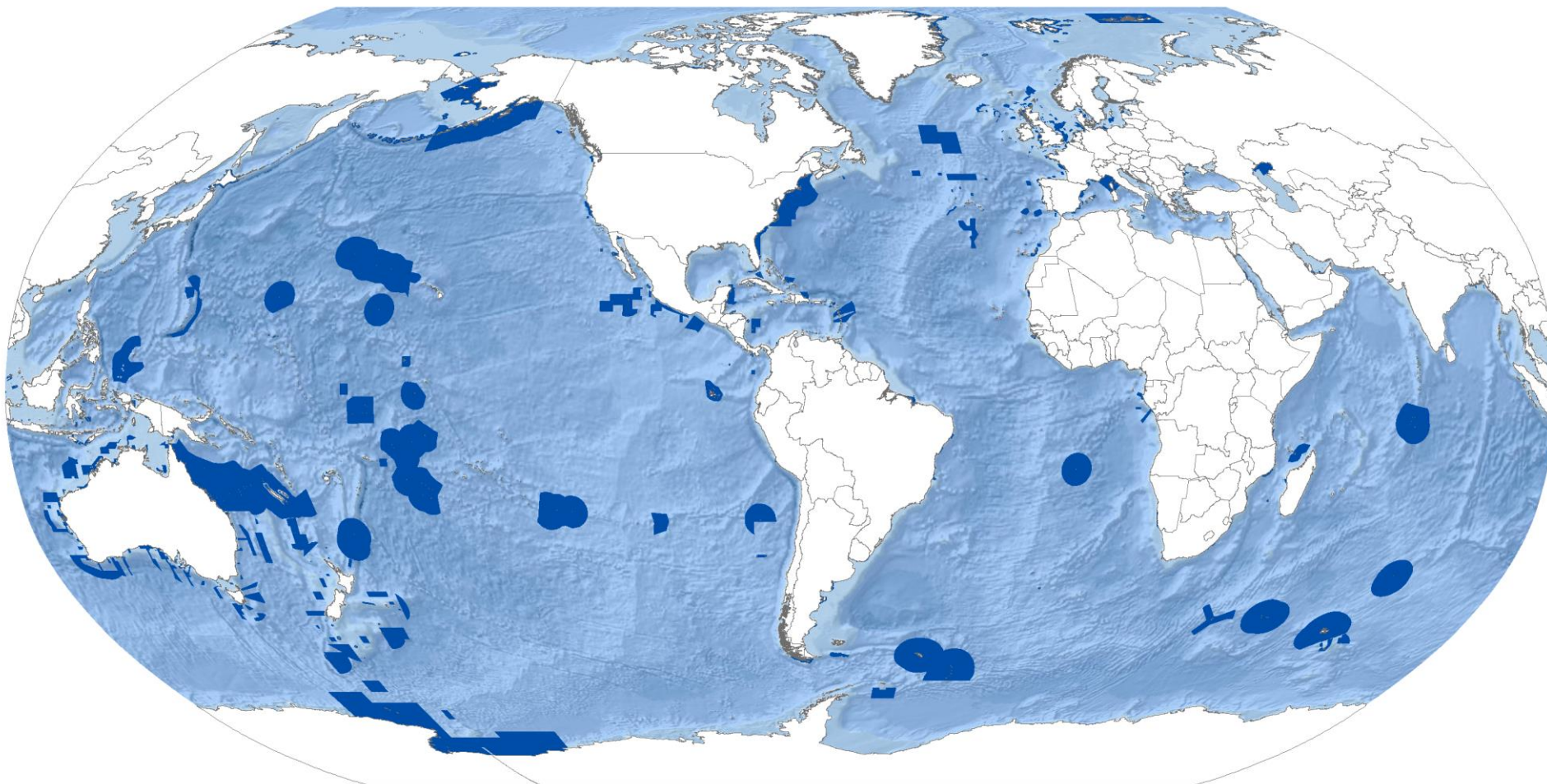
20 million km² of land covered and 25 million km² of oceans covered.

Protected Areas of the world



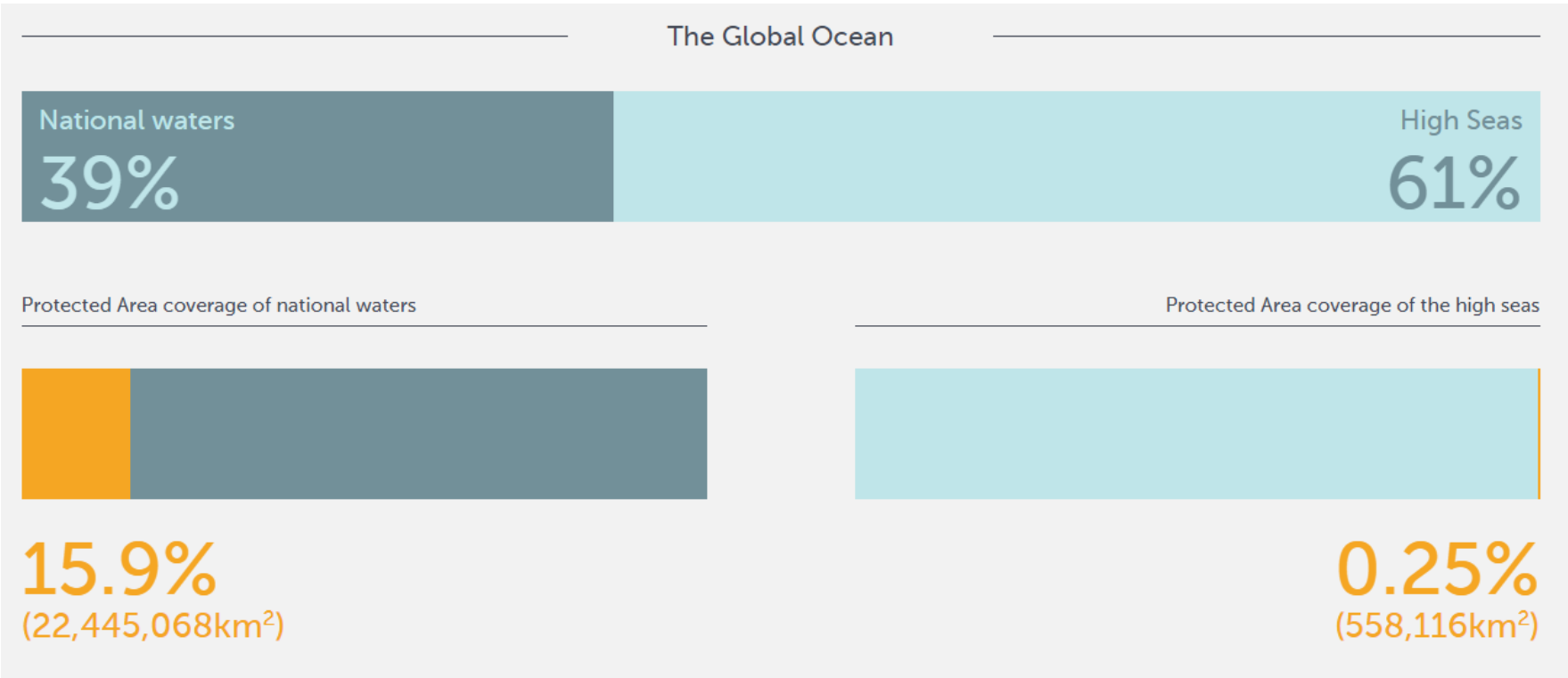
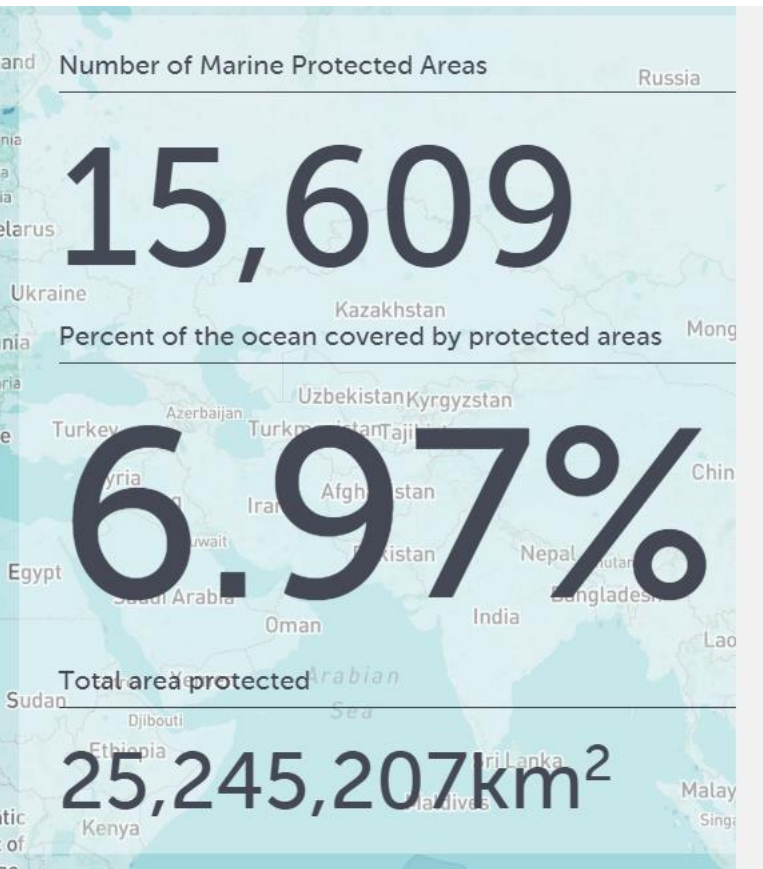
Source: UNEP-WCMC AND IUCN (2018). Protected Planet: The World Database on Protected Areas (WDPA) [On-line], January 2018, Cambridge, UK: UNEP-WCMC. Available at www.protectedplanet.net

Official MPA Map

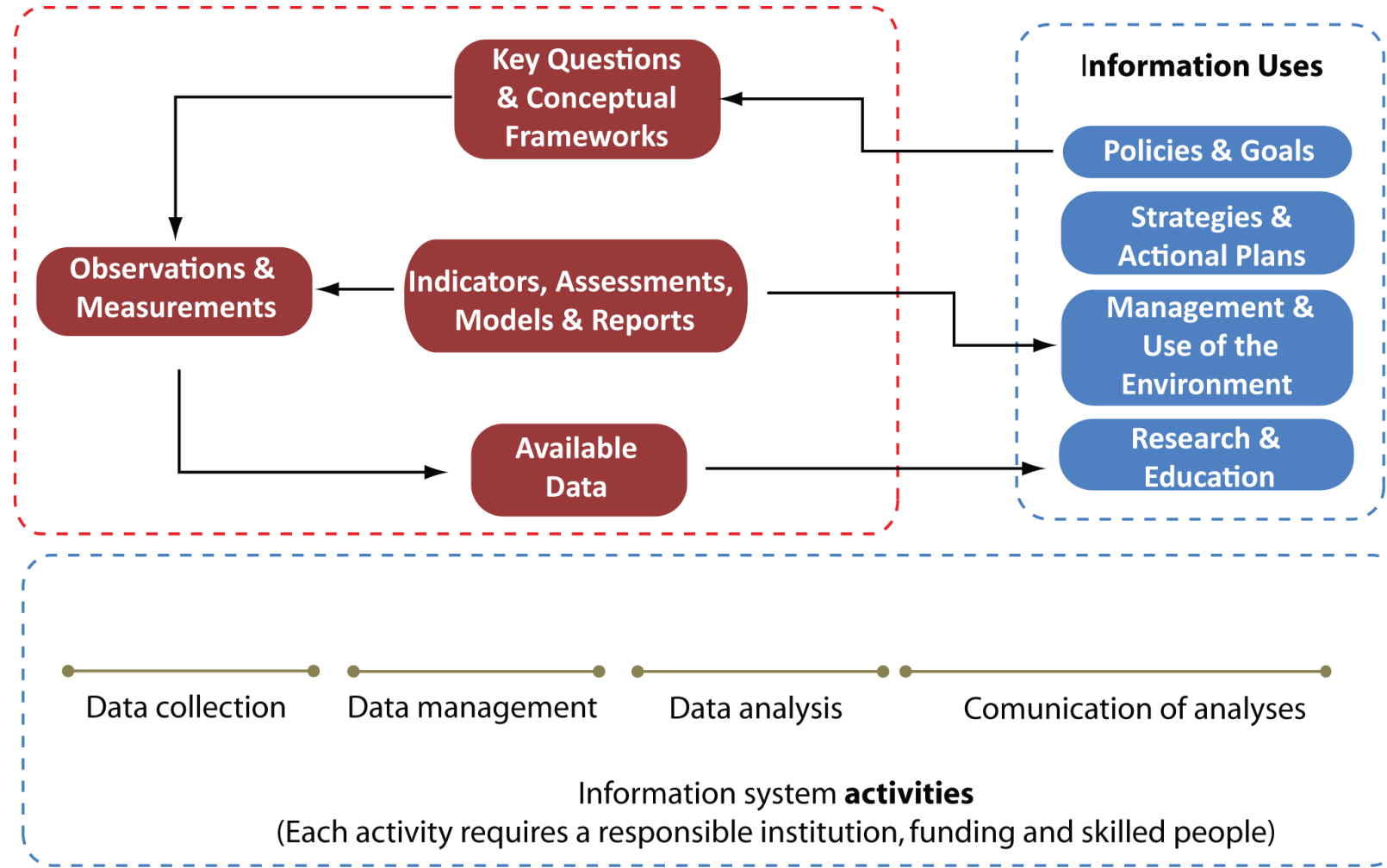


Source: UNEP-WCMC AND IUCN (2018). Protected Planet: The World Database on Protected Areas (WDPA) [On-line], January, 2018, Cambridge, UK: UNEP-WCMC. Available at www.protectedplanet.net

**6.97% of the Global Ocean covered by protected areas
2.25% exclusively no-take.**



marine.protectedplanet.net



Responsibility of:



Park manager



Data Management Unit



GIS Unit/
Thematic expert



Head of National Agency

Thank you!

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#Data
#ProtectedAreas
#Biodiversity