INTRODUCTION TO UN BIODIVERSITY LAB

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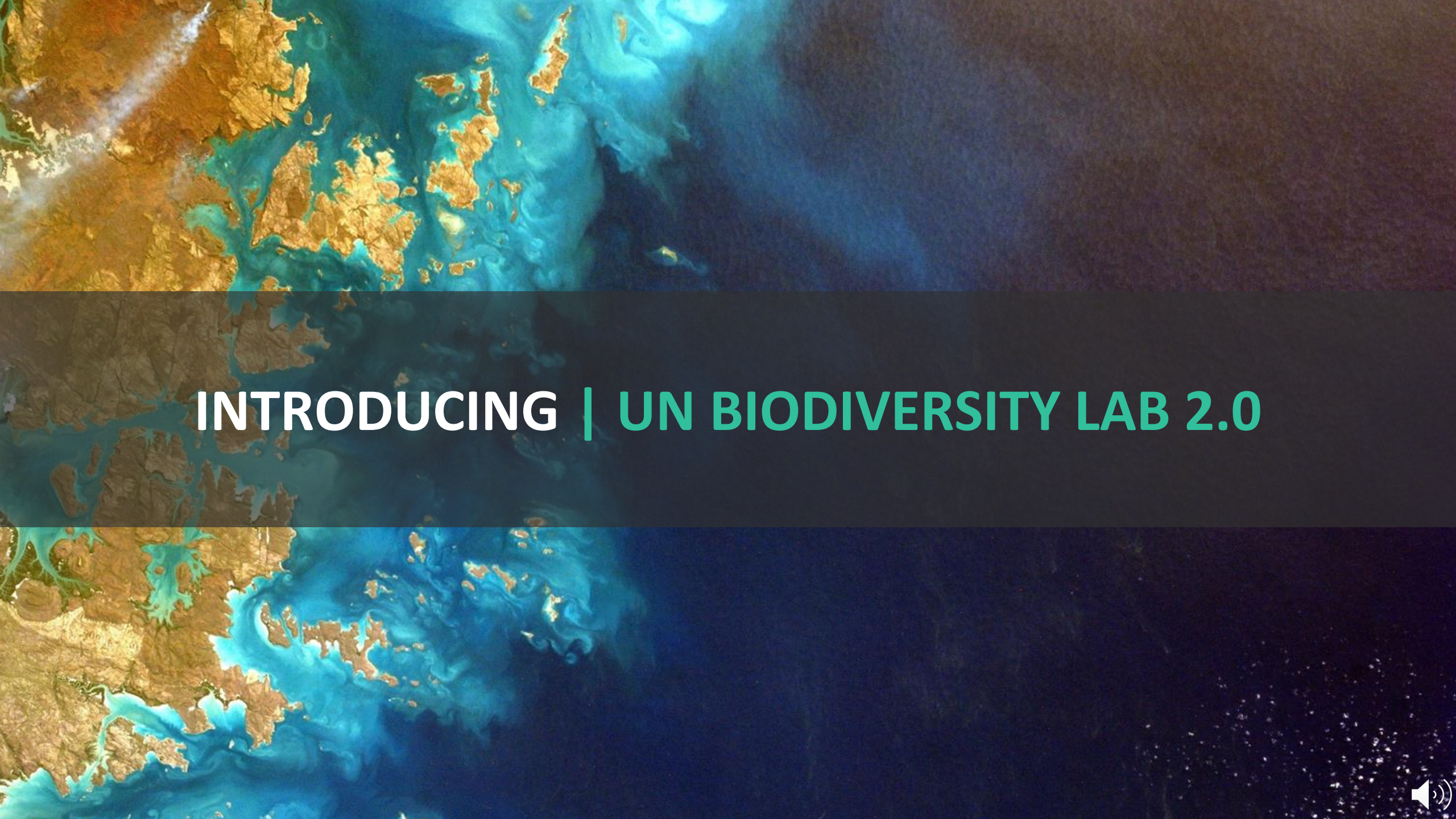
WHAT IS UN BIODIVERSITY LAB?

- FREE, open-source platform (www.unbiodiversitylab.org)
- Provides stakeholders with access to high-quality global spatial data layers & analytic tools
- Does NOT require GIS expertise
- Created as part of UNDP & UNEP's joint work to support Parties in their commitments to the Convention on Biological Diversity

WHO USES UN BIODIVERSITY LAB?

1. 313 policymakers from 61 countries
2. Official decision support system for NASA Forest Integrity & Life on Land Projects
3. >55,000 views of the public site
4. How can we support your needs?


INTRODUCING | UN BIODIVERSITY LAB 2.0

Select country/region

Explore 18 biodiversity status maps created for your country.

Apply Aichi Biodiversity Targets:

- Aichi Biodiversity Target 5
- Aichi Biodiversity Target 11
- Aichi Biodiversity Target 12
- Aichi Biodiversity Target 14
- Aichi Biodiversity Target 15

Apply Projects:

- Forest Integrity Project

UNBiodiversityLab - World | English

Filter views ...

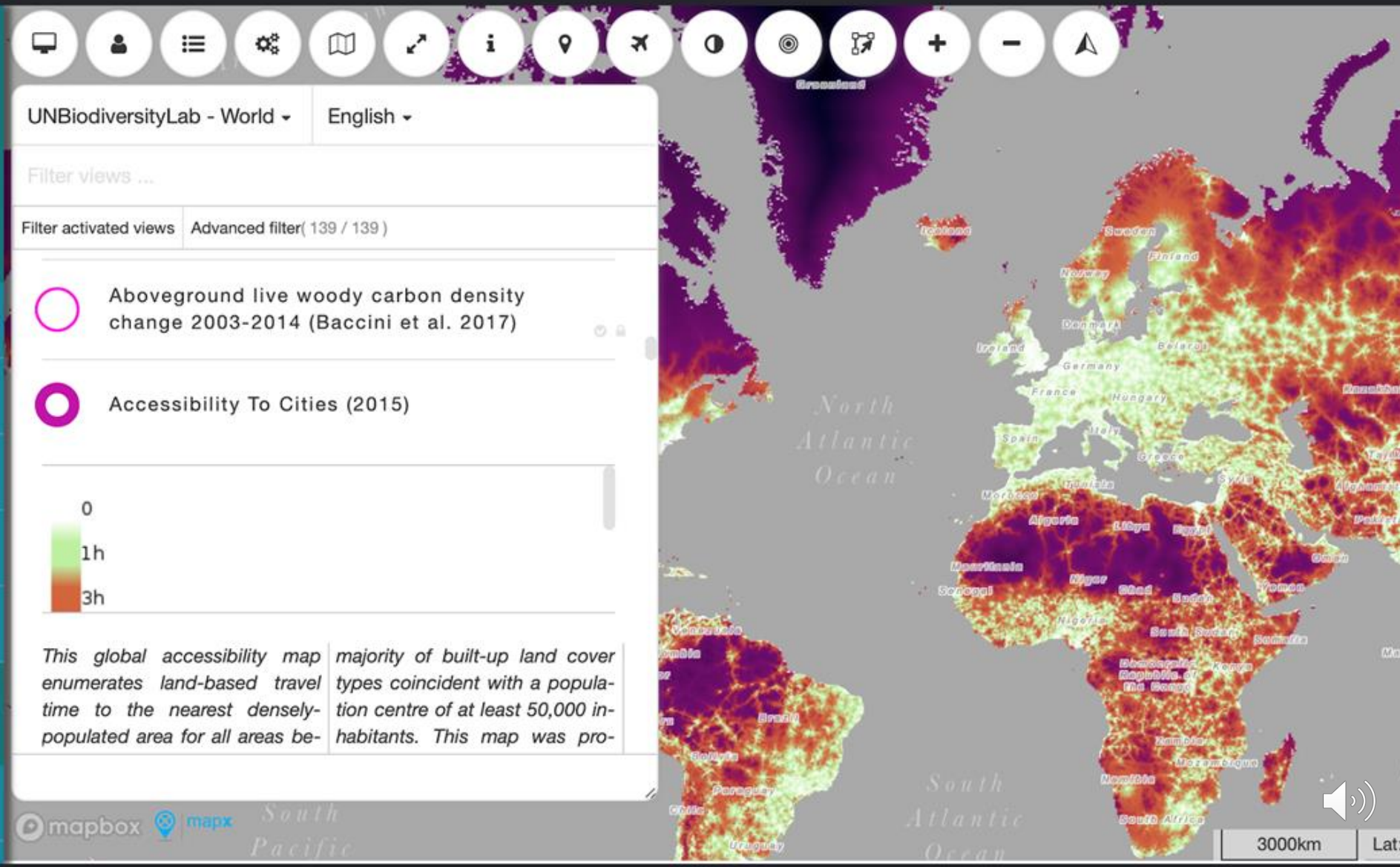
Filter activated views | Advanced filter(139 / 139)

Aboveground live woody carbon density change 2003-2014 (Baccini et al. 2017)

Accessibility To Cities (2015)

0
1h
3h

This global accessibility map enumerates land-based travel time to the nearest densely-populated area for all areas be- majority of built-up land cover types coincident with a population centre of at least 50,000 inhabitants. This map was pro-



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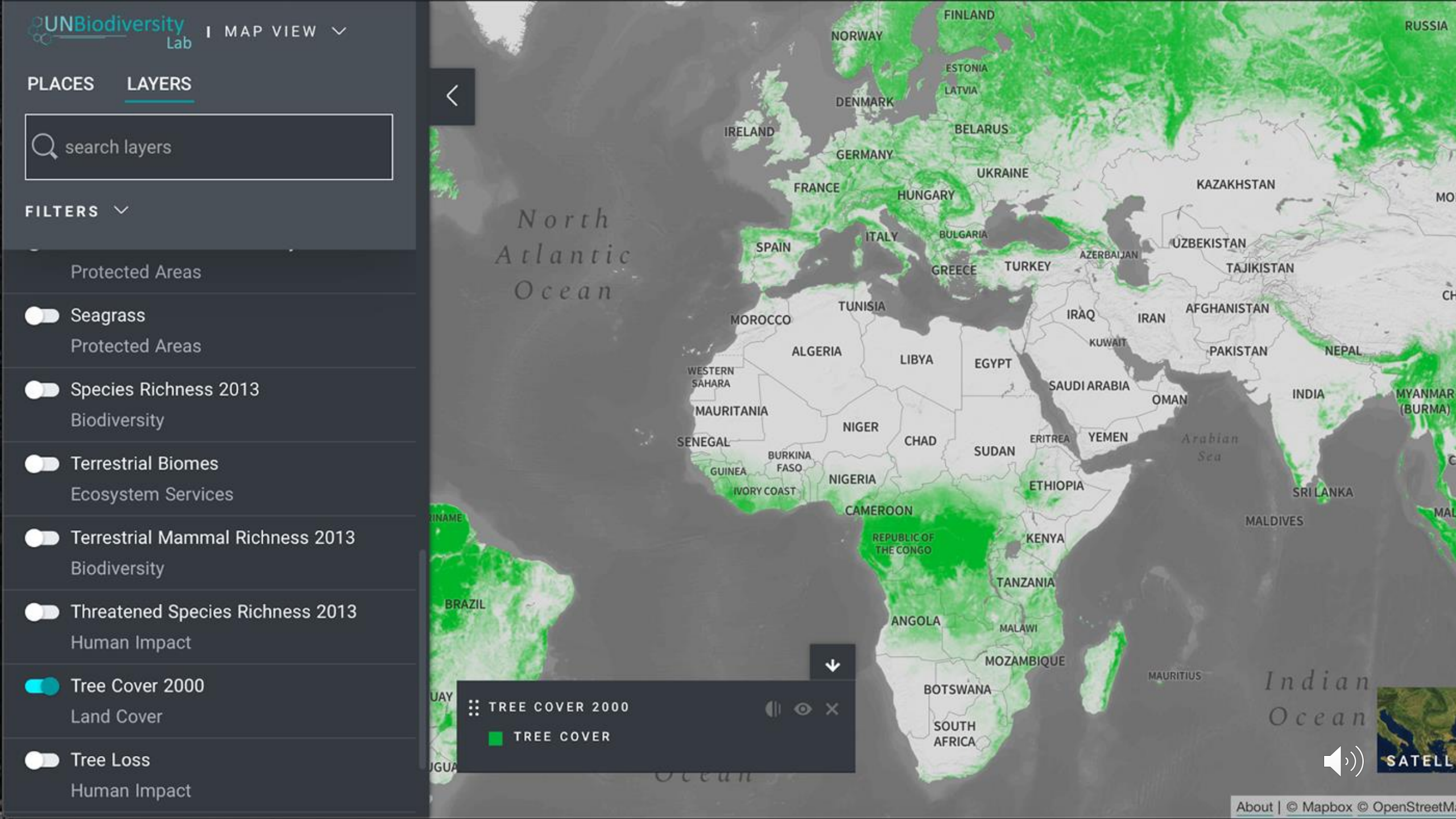
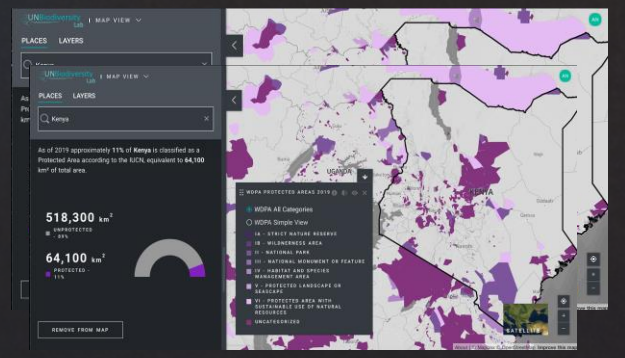
Convention on Biological Diversity | gef | UN environment | mapx


UNBiodiversity Lab
MAP VIEW
PLACES
LAYERS
search layers
FILTERS
Protected Areas
Seagrass
Protected Areas
Species Richness 2013
Biodiversity
Terrestrial Biomes
Ecosystem Services
Terrestrial Mammal Richness 2013
Biodiversity
Threatened Species Richness 2013
Human Impact
Tree Cover 2000
Land Cover
Tree Loss
Human Impact
TREE COVER 2000
TREE COVER
North Atlantic Ocean
Indian Ocean
Arabian Sea
FINLAND
NORWAY
RUSSIA
ESTONIA
LATVIA
DENMARK
IRELAND
BELARUS
GERMANY
UKRAINE
KAZAKHSTAN
FRANCE
HUNGARY
SPAIN
ITALY
BULGARIA
AZERBAIJAN
UZBEKISTAN
GREECE
TURKEY
TAJIKISTAN
TUNISIA
IRAQ
IRAN
AFGHANISTAN
MOROCCO
KUWAIT
ALGERIA
LIBYA
EGYPT
PAKISTAN
NEPAL
WESTERN SAHARA
SAUDI ARABIA
OMAN
INDIA
MYANMAR (BURMA)
MAURITANIA
NIGER
CHAD
ERITREA
YEMEN
SENEGAL
SUDAN
BURKINA FASO
GUINEA
NIGERIA
ETHIOPIA
IVORY COAST
SRI LANKA
CAMEROON
MALDIVES
REPUBLIC OF THE CONGO
KENYA
TANZANIA
BRAZIL
ANGOLA
MALAWI
MOZAMBIQUE
MAURITIUS
BOTSWANA
SOUTH AFRICA
About | © Mapbox © OpenStreetMap

UN BIODIVERSITY LAB | FIVE KEY FEATURES

1. Access >130 global spatial data layers

2. Priority access to NASA project data



3. View customizable widgets & dashboards

3. Create private workspaces

5. Conduct analyses & create maps

ELSA SOUTH AFRICA| UN BIODIVERSITY LAB

METRICS AVAILABLE FOR YOUR COUNTRY

1. Tree cover loss (2001-2018)
2. Biodiversity intactness index (2015)
3. Enhanced vegetation index (2000-2019)
4. Global land cover (2015)
5. Monthly fire activity(2018)
6. Protected areas (2019)
7. Terrestrial carbon density (2010)
8. Terrestrial human footprint (1993 & 2009)

PROTECTED AREA COVERAGE | SOUTH AFRICA

1. What: Sq km of Protected Areas within South Africa
2. Data used: World Database on Protected Areas (WDPA) (2019)
3. Monitoring use:
    a. Track changes in PA coverage of the country
    b. Monitor activity in and around PAs

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MAP VIEW

PLACES | LAYERS

South Africa

Protected Areas (WDPA) • UNBL

As of 2021 approximately **9%** of **South Africa** is classified as a Protected Area according to the IUCN, equivalent to **109,800** km² of total area.

1,110,000 km²
UNPROTECTED - 91%

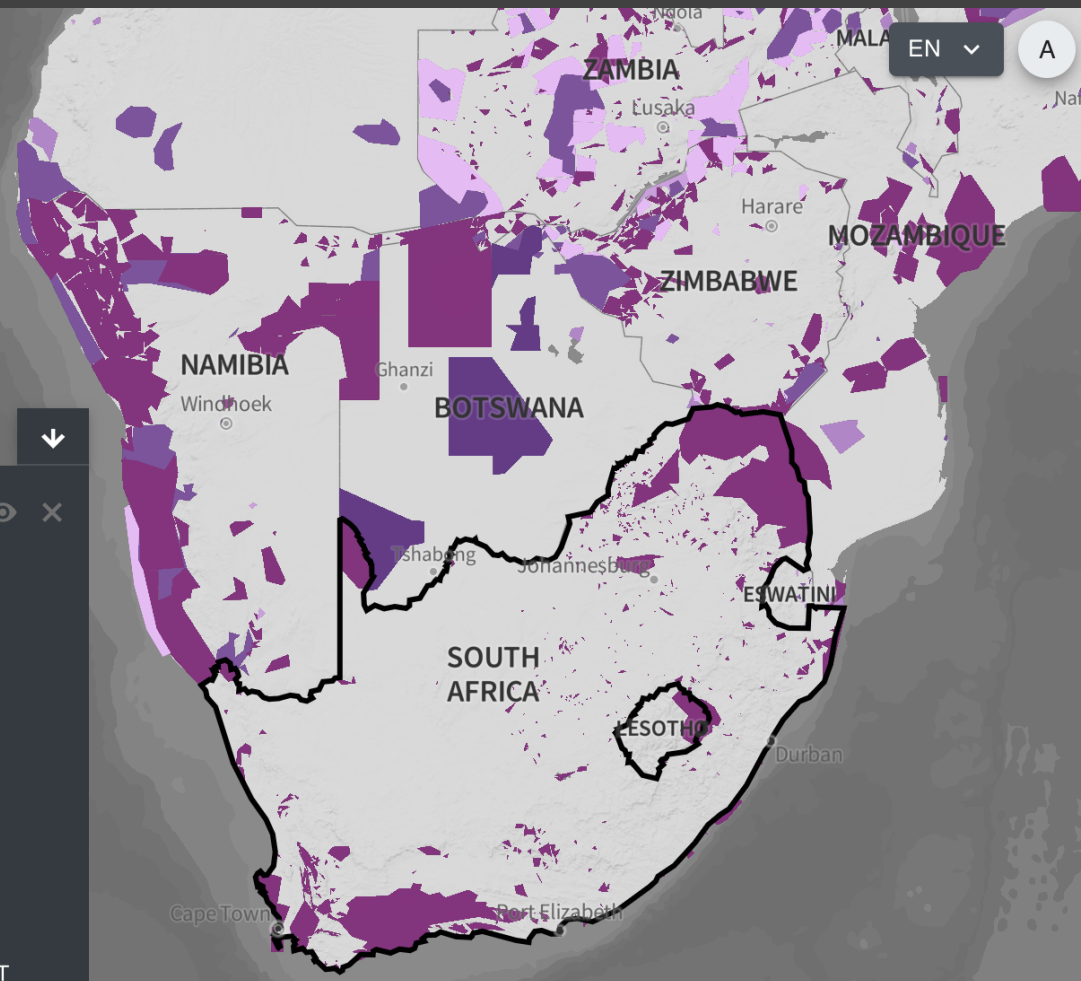
109,800 km²
PROTECTED - 9%

REMOVE FROM MAP

WDPA Protected Areas

- WDPA All Categories
- WDPA Simple View
- WDPA Simple Outlines

- IA - STRICT NATURE RESERVE
- IB - WILDNERNESS AREA
- II - NATIONAL PARK
- III - NATIONAL MONUMENT OR FEATURE
- IV - HABITAT AND SPECIES MANAGEMENT AREA
- V - PROTECTED LANDSCAPE OR SEASCAPE
- VI - PROTECTED AREA WITH SUSTAINABLE USE OF NATURAL RESOURCES
- UNCATEGORIZED



EN

MAP CONTROLS

mapbox

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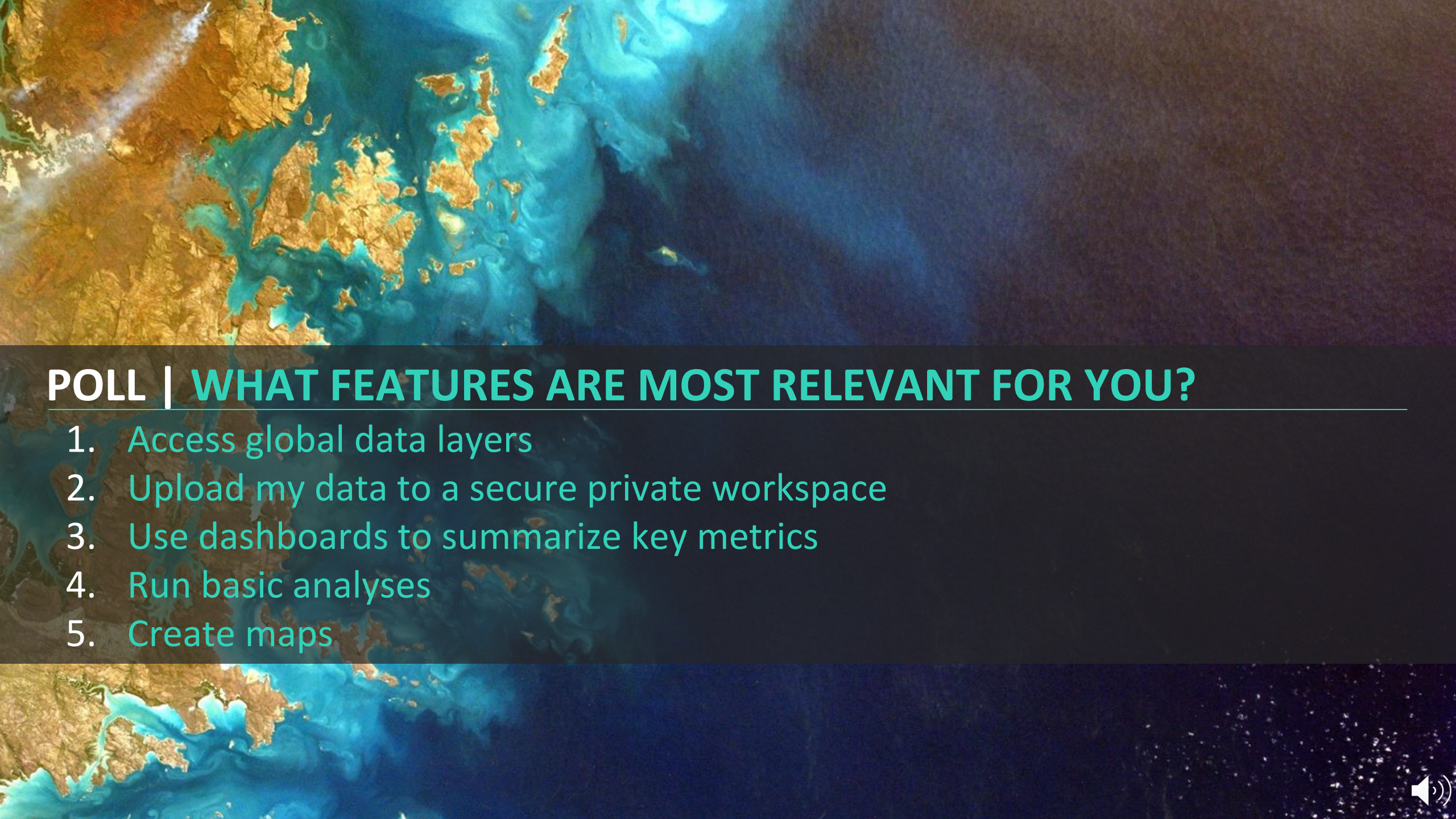
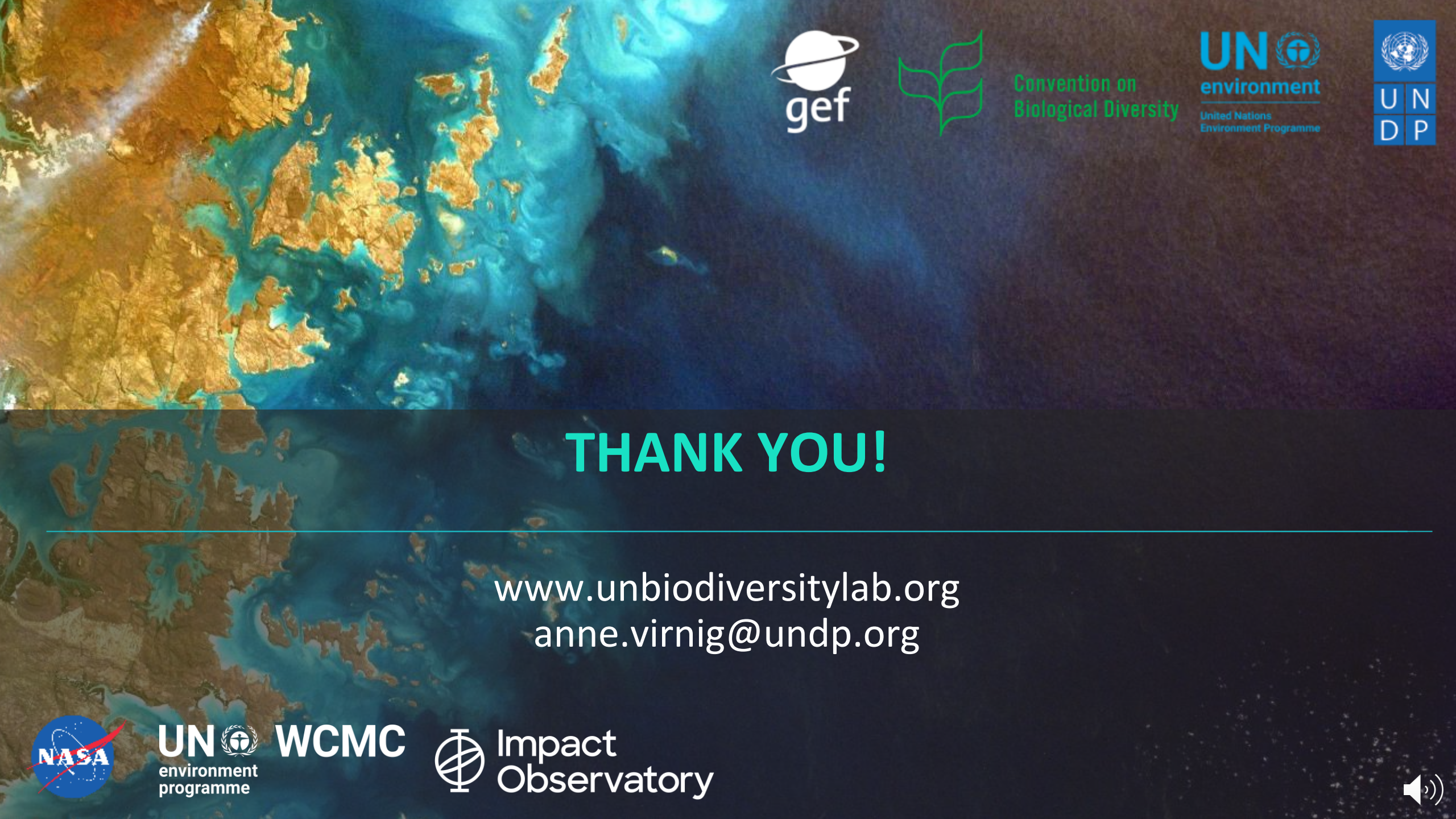
300 km



POLL | WHAT FEATURES ARE MOST RELEVANT FOR YOU?

1. Access global data layers
2. Upload my data to a secure private workspace
3. Use dashboards to summarize key metrics
4. Run basic analyses
5. Create maps


gef
Convention on Biological Diversity
UN environment
United Nations Environment Programme
UNDP
THANK YOU!
www.unbiodiversitylab.org
anne.virnig@undp.org
NASA
UN environment programme
WCMC
Impact Observatory

CHALLENGES FACED

1. Need for seamless communication with other platforms

1. Need to conduct analyses & downloads for all data types

1. Need to summarize key metrics for decisionmakers

1. Need for user-friendly design and functionality

1. Need for multilingual functionality

HOW THEY ARE ADDRESSED

1. API to pull/push data

1. Raster analytics and downloads

1. Widget & dashboards

1. Re-envisioned design & functionality

1. Google translate interface

UN BIODIVERSITY LAB | WHAT SETS US APART?

1. Political mandate & relevancy
2. UNDP & UN Environment provide key government engagement
3. Equator Initiative provides engagement of indigenous peoples & local comm
4. Private workspaces for contextual conservation action