



**Earth Observations
for Africa**

Advancing Earth Observation for Climate
Research: AfriGEO's Vision for Strengthening
Data Sharing and Regional Collaboration





Outline



01

Africa-People, Space Sector Investments

02

About AfriGEO:

03

The Value.

04

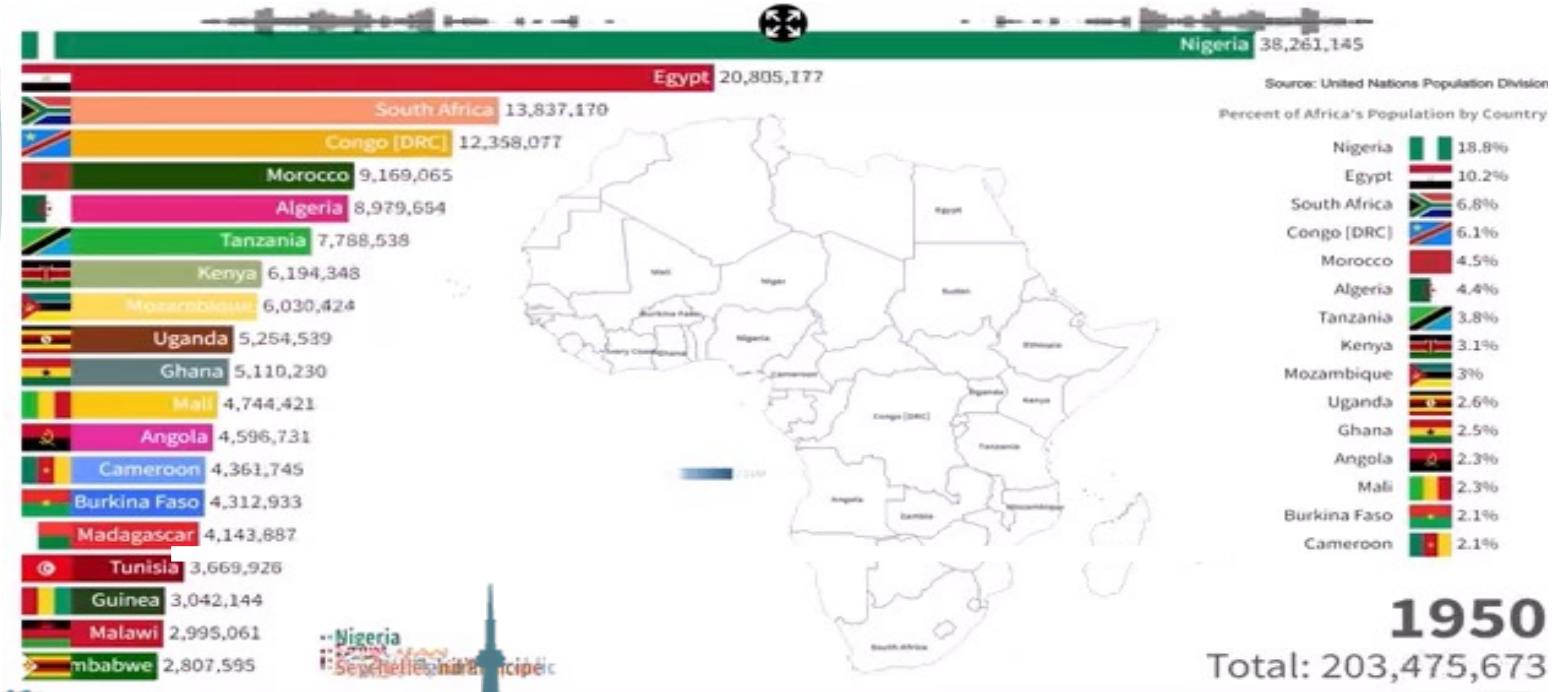
Earth Intelligence for Africa:
Strengthening Data.



African Community



Year	Population	Median Age	Fertility Rate	Density (P/Km ²)	Urban Population	World Population	Rank in Pop
2024	1,515,140,849	19.2	4.02	51	674,871,188	8,161,972,572	2
1990	643,775,030	16.5	5.91	22	200,111,296	5,327,803,110	3





AfriGEO consists of Africa-based GEO member states (32) and participating regional institutions together known as the African Caucus.

The goal of AfriGEO is to be a:

- Pan African initiative to raise awareness and develop capacity on EO.
- Framework for strengthening partnerships and collaborations within Africa.
- Gateway into Africa for international partners; and
- Support mechanism for the implementation of GEO objectives and programs in Africa.

ALIGN NATIONAL
PRIORITIES WITH
GLOBAL EFFORTS

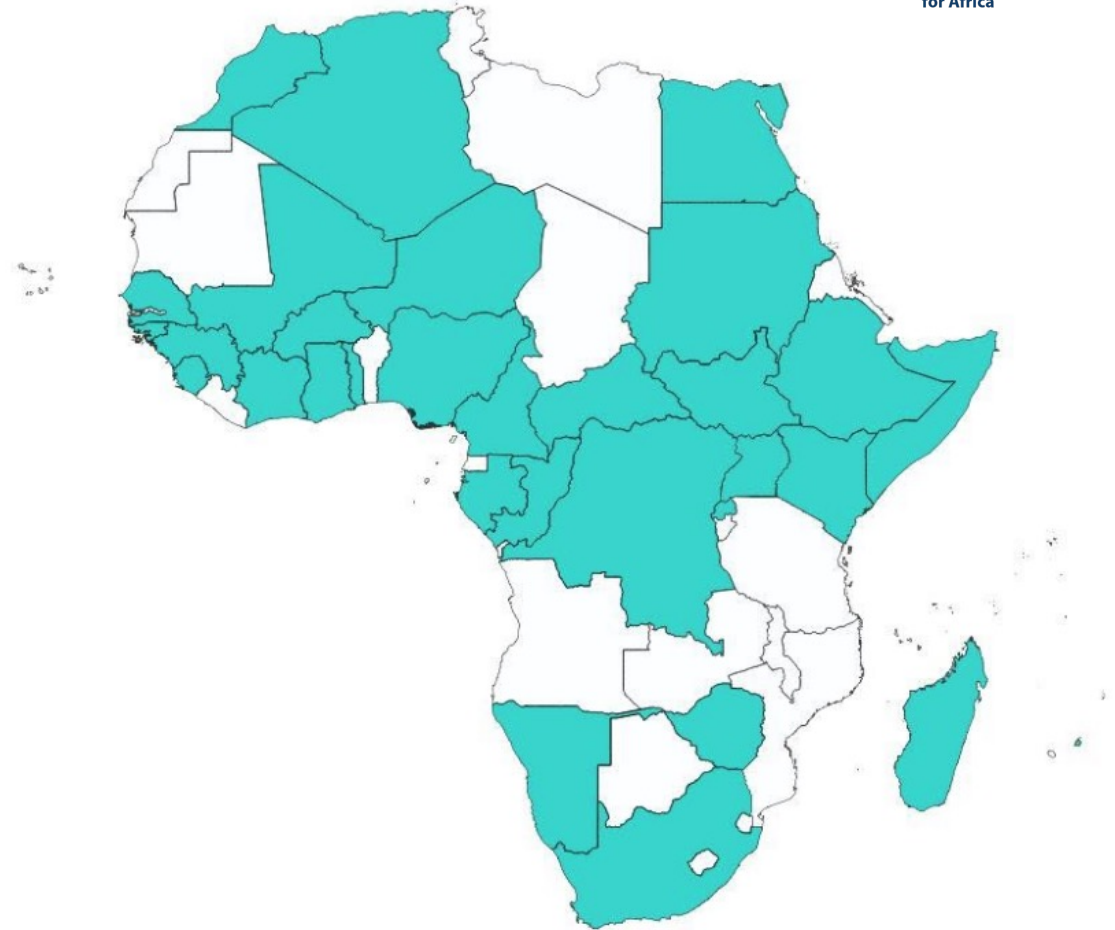
INFLUENCE
STANDARDS
AND POLICY
DECISIONS



BENEFIT FROM
A COMMUNITY
OF EXPERTS

ADDRESS
SUSTAINABILITY
CHALLENGES

DRIVE INNOVATION



The Value



The Value, Thematic Areas

- Agriculture and Food Security.
- Land Management and Administration
- Disaster Risk Reduction
- Biodiversity and Blue Economy.
- Data and Innovation.

Agriculture and Food Security.

GEO-GLAM: Regional Cropland
Assessment and Monitoring Service:
Yield Estimation.

Pest and Disease Control



Land Management and Administration.

GEO-LDN

Land Use Land Cover and Change
Mapping Service.

AUDA NEPAD Land Help Desk

GEO-Night Light

Ecological Modeling



Disaster Risk Reduction (DRR)

Early Warning System: CBFEWS

Hazard Atlas Mapping Service

PASSAGE :Strengthening
Pastoral livelihoods in the
African Greater horn through
Effective anticipatory action

Satellite- Based Water Quality
Monitoring Service

Strengthening the Africa Network of
Centres of Excellence
for Disaster Risk Reduction (NoE)



Biodiversity and Blue Economy

Regional Centre of Excellence in
Biodiversity, Forestry and Seascape
Ecosystem management (RCoE)

Wetlands Monitoring and
Assessment Service

GEO-BON



Data and Innovation

Regional Resource Hub (RRH)

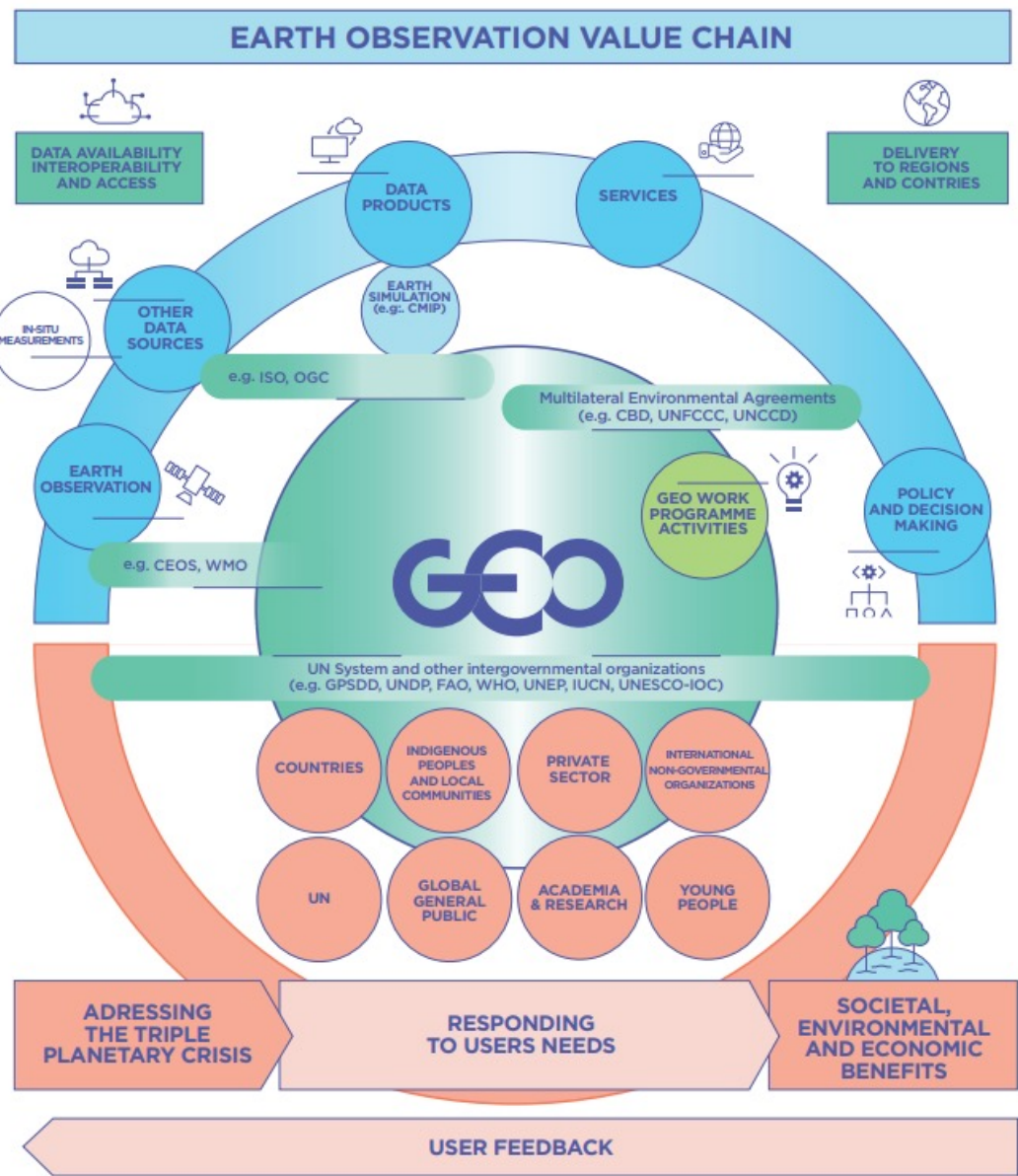
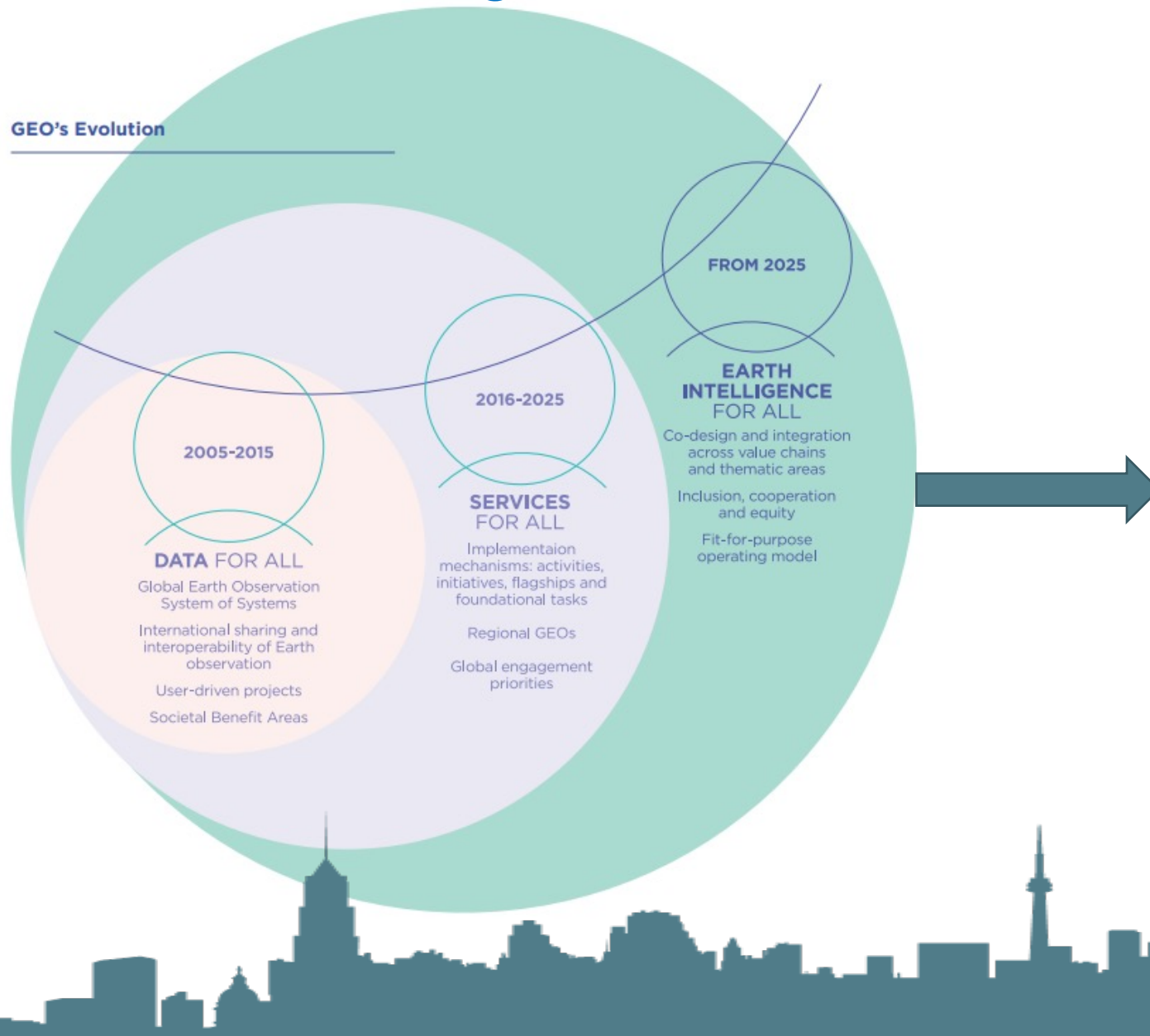
Open Geographical Regional
Reference Vector Database for
water and Agro-ecological Zoning

SOIL4AFRICA Information System

NELGA Land Data Hub



Earth Intelligence for Africa: Strengthening Data sharing



Earth Intelligence for Africa.

Data infrastructure, Enhance disaster preparedness and response capabilities in Africa by integrating early warning systems and data from space technologies.



Digital Data Transformation

Data Utilization in mitigation and adaptation, Strengthen Africa's capacity to monitor and respond to environmental, socio-economic, and security challenges.



Capacity Development and Youth mentorship



Collaboration, Learning and Adaptation



SDG, AU agenda 2063 support

EOMI, Integration, foster collaboration and technology transfer between African and EU space agencies, research institutions, and businesses



Earth Observations for Africa

Space based applications, Insights , Information generation for various application useful for resource management and monitoring.





**Earth Observations
for Africa**

A large, detailed image of the Earth from space, showing the continents of Europe, Africa, and Asia. The African continent is highlighted in a dark teal color, matching the logo. The globe is positioned on the right side of the image, with a city skyline visible in the background.

Thank You

