



Digital Earth
AFRICA

Transforming our understanding of Africa using Earth observation



Challenge

Achieving Africa's development priorities connects directly to how well we understand its natural resources. EO data from satellite images tells a story over time offering insights and knowledge of the changing landscape. While satellites have continually captured Africa's land surface and coastlines for decades, it has proven difficult to translate the petabytes of data into usable information.



Solution

Digital Earth Africa (DE Africa) is unlocking this satellite data and making it available for anyone to use. Through what is known as an open data cube, DE Africa translates the raw data into a format that is easier to visualize and analyze changes across land and water. As a result, an operational service providing decision-ready products will be available to governments, private sector and civil society.



Impact

Access to this data will transform our understanding of Africa, providing vital information for informed strategic and inclusive decision-making. It will drive growth for the African economy by enabling small businesses and industry to innovate and create new products. This will increase business profitability and productivity in sectors such as land and city planning, agriculture and mineral exploration.

Satellite imagery specific to Africa

DE Africa is taking Earth observation (EO) satellite imagery specific to Africa's land and seas, and translating it into easy to consume information for anyone to use.

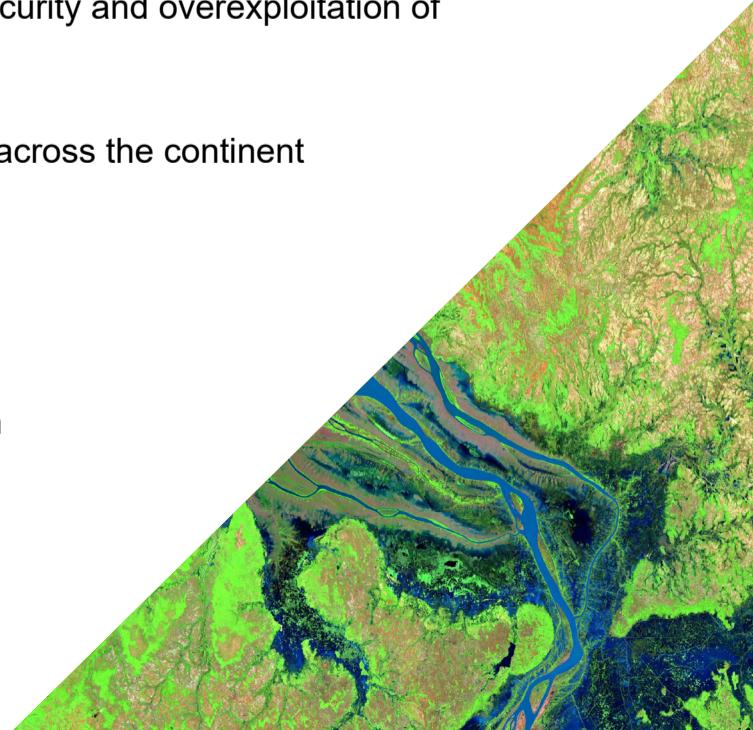
Africa is a large continent with a rich and diverse environment where countries and communities face many challenges such as ready access to drinking water, rapid urban development, active deforestation, food insecurity and overexploitation of natural resources.

Using DE Africa's freely available information, African nations will be able to track changes across the continent in unprecedented detail to understand how Africa changes over time.

A sustained capability for Africa

DE Africa will be an operational and analytic capability for the entire continent of Africa, with African governance and in-country expertise in data analysis, use and management.

DE Africa is currently in establishment phase.





Our vision

DE Africa will provide a routine, reliable and operational service, using Earth observations (EO) to deliver decision-ready products enabling policy makers, scientists, the private sector and civil society to address social, environmental and economic changes on the continent and develop an ecosystem for innovation across sectors.

Our mission

DE Africa will process openly accessible and freely available data to produce decision-ready products. Working closely with the AfriGEO community, it will be responsive to the information needs, challenges and priorities of the African continent. DE Africa will leverage and build on existing capacity to enable the use of EO to address key challenges across the continent.

Built on partnerships



To deliver



To amplify



To sustain

DE Africa is working with the African and international community of space agencies and governments to ensure that vital EO continues, and the data is analysis ready, rapidly available and readily accessible. These partnerships are centred on:

- Mandate
- Funding
- Data providers
- Geographic reach
- Training
- Monitoring and evaluation
- Applications
- Industry uptake
- Science
- Technology partners

Guided by governing principles

Open and free data

Interoperable

Privacy and integrity

An operational service

Continental-scale
Sustainable
Domain expertise

Accountable and transparent

Responsive to
African priorities

Agile, nimble and
action oriented

Diverse and inclusive

Multi-sector perspectives
Span data communities
Foster collaborations

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