



Digital Earth Africa

**Public Digital
Infrastructure Creating
Value for Africa**

October 2023



About
**Digital
Earth
Africa**



There is still incredible untapped potential of Earth observation data to solve information gaps and accelerate decisions across Africa.

Powered by partnerships, Digital Earth Africa provides a public infrastructure and accessible analytics to **unlock the value of Earth observations.**



Our **MISSION**

DE Africa will process openly accessible and freely available data to produce **decision-ready products**. Working closely with the AfriGEO community, DE Africa 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 Earth observations to address key challenges across the continent.

Our **VISION**

DE Africa will provide a routine, reliable and operational service, using Earth observations 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.

Digital Earth Africa | Estimated Economic and Social Potential

\$2.84BN

The impact of Earth Observation (EO) could be higher than \$2 billion USD per year by 2024



\$500M in EO industry accelerated growth



\$900M in agricultural productivity boost



\$900M in unregulated mining detection and prevention



Marine Observation
\$212 million



Renewable Energies
\$27 million



Disaster Risk Reduction
\$74 million



Oil and Gas
\$15 million



Public Health
\$113 million



Security and Civil Protection
\$96 million

\$580M

By mitigating coastal erosion risks in 3 key sectors, DE Africa could support \$580 million per year into Africa's economy and change the lives of **270 million people**



\$90M of asset value (land and building) saved per year



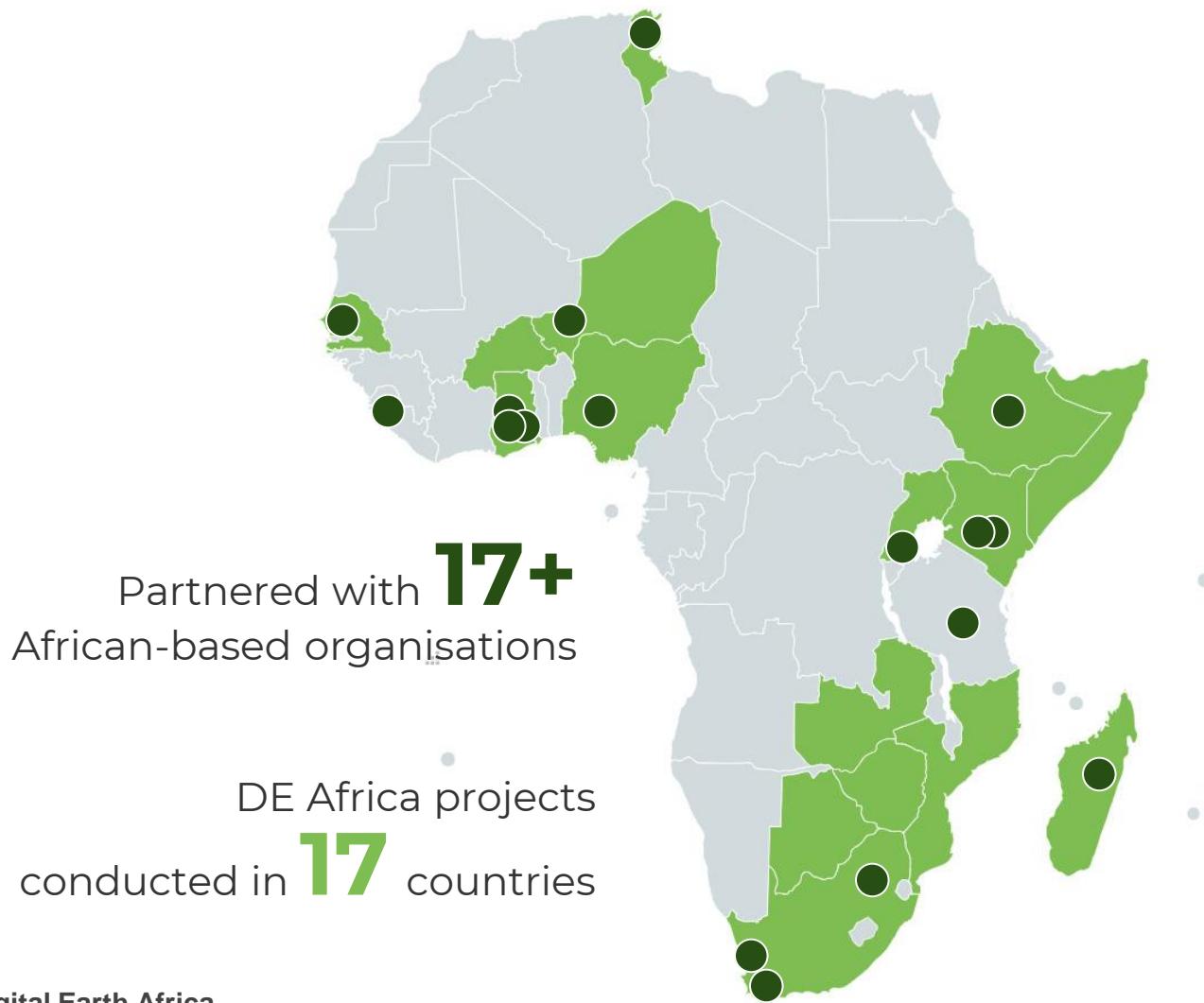
\$275M in potential benefits per year by alleviating loss of fish catches



\$215M per year in additional profits & jobs for the insurance industry

Track Record | 2019 - 2023

100+ analysis tools
as of April 2023



7 SDGs addressed





2023 - 2026 **Vision**

DE Africa will be on-track to become a **self-sustaining public data infrastructure** for **all African countries**, with key African stakeholders invested to achieve this end-point.

Our data and information will be consistently used by a wide cross-section of stakeholders - governments, academia, researchers, communities, private sector and individuals, to drive environmental, social and economic impacts.

2023 - 2026 | Strategic Priorities

Enhance **Country Engagement**



Enable **Climate Action**

Digital Earth Africa

We and our Implementing Partners will embed DE Africa products and services to **enhance and scale regional activities across Africa.**

Our team will create a roadmap for country engagements that will ensure consistent support for countries.



Ensure our **Sustainability**

We are committed to delivering on funding partners' strategic goals, and strengthening Technical Advisory Committee and Governing Board roles to **ensure sustainable governance.** We will operate efficiently, diversify income sources and **deepen key partnerships** for long-term sustainability.



Engage the **Community**

We will address user needs, provide excellent support, increase platform use, continue to capture user impact, and increase visibility of platform champions. We will serve an **audience that meets our diversity and inclusion strategy**, and explore bridging science and community action.

We will empower climate action by **developing in-country knowledge and skills.** We will ensure decision-ready products are well placed to enable policymakers, scientists, the private sector and civil society to better address climate adaptation, mitigation and reporting.

2023 - 2026 | Program Priorities



2023 - 2026 | **Long-Term** Priorities



Development effectiveness. DE Africa will support enhanced understanding of development challenges and solutions, and in so doing, strengthen collective impact and ability to assess progress towards national priorities, Agenda 2063 and the SDGs.



Livelihood strengthening. EO data will support more informed decision making at government, sectoral and other levels, contributing to direct and indirect benefits for individuals and communities.



Digital transformation. Through access to data for commercial products and services development, DE Africa will support new business development and employment opportunities.



Economic development and job creation are increased through access to data for commercial products and services development.

Phase III and Beyond **Scaling Together**

impact evaluations

We can perform multi-scale climate impact assessments to analyse impacts of our changing climate on coastal systems, agriculture, water resources, and urbanisation.

>> Decision-makers better understand trends and anomalies, predict and plan

agriculture & food security

Let's increase country-level use of our cropland area maps and spatial footprint of agricultural production

>> Improved sustainable agriculture and food security

climate action

We can inform country-level climate action and land use policy by measuring and monitoring land degradation, coastal erosion, and changes to the natural environment

>> Greater country capacity and resilience to the changing climate

water management

Help us promote uptake and usage of our products to inform water resource management, environmental monitoring, flood mapping, and planned water releases

>> Strengthened knowledge of water availability in Africa

institutional strengthening & capacity development

Together, we can enable countries to co-design and apply actionable data products and infrastructure to influence the course of EO policy and practice

>> Countries strengthen National Adaptation Plans, environmental, social and economic solutions



Acknowledgements



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GLOBAL PARTNERSHIP
FOR SUSTAINABLE DEVELOPMENT DATA



GHANA
STATISTICAL
SERVICE



BILL &
MELINDA
GATES
foundation



Committee on
Earth Observation Satellites



IWMI
International
Water Management
Institute



FRONTIER S>I



OPEN SOURCE GEOSPATIAL SOLUTIONS

Radiant Earth
Foundation
EARTH IMAGERY FOR IMPACT

UENR | University of Energy
& Natural Resources

riis
enabling innovation

How can you learn more about DE Africa?

- Website <https://www.digitalearthafrica.org>
- Map information: maps.digitalearth.africa
- To request training and support contact us on: contact@digitalearthafrica.org
- Online learning <https://learn.digitalearthafrica.org>

Thank you.

**Let's unlock the promise
of tomorrow together.**

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