Digital Earth
AFRICA

DE Africa Quarterly Program Report

April –June 2025

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About Digital Earth Africa

Digital Earth AFRICA

Our vision

Digital Earth Africa (DE Africa) provides reliable Earth observation services, offering decision-ready products to help address social, environmental, and economic challenges while promoting innovation across sectors.

Our mission

DE Africa processes open data to create decision-ready products, addressing Africa's challenges by working with the AfriGEO community and building on existing capacity to use Earth observations effectively.

Livelihood strengthening

Enhance informed decision-making across government and sectors, delivering both direct and indirect benefits to individuals and communities.

Digital transformation is advanced

Drive the evolution of Africa's digital economy by promoting industry uptake and fostering innovations.

Economic development and job creation

Facilitate new business development and employment opportunities by providing access to data for commercial products and services.

Development activities are more effective

Enhance understanding of development challenges and solutions to strengthen collective impact and assess progress toward national priorities, the African Union's Agenda 2063, and the UN SDGs.

Enhance and scale regional activities across Africa.

Empower climate action by developing in-country knowledge and skills.

Serve an audience that meets our diversity and inclusion strategy.

Ensure sustainable governance and deepen key partnerships.

Program Outcomes

Digital Earth AFRICA

OUTCOME 1: Sustainment

DE Africa is on-track to be sustained in Africa (technically, operationally and financially), with key African stakeholders invested to achieve this end-point

Strengthening Governance & Program delivery

Stakeholders maintain confidence in DE Africa's governance, operations, and transparency

Enabling Partnerships

African governments and regional institutions support DE Africa's shift toward financial sustainability, recognizing its value and operational impact

Sustainment and Business Model Development

Developing a cross-sector business model to diversify revenue, sustain operations, and secure funding beyond Phase III

Science and Technology

DE Africa's science and technical platform remains a robust, world-leading capability, responsive to Africa's needs

OUTCOME 2: Uptake and Impact

DE Africa information is consistently used by key stakeholders - governments, communities, private sector and individuals, to drive environmental, social and economic impacts

User needs/in-country engagement

Customizing DE Africa services for in-country needs like food security, connecting with end-users via partners and communities

Capacity Development

Development of tailored training materials to support diverse users, from decision-makers to in-country specialists, in utilizing DE Africa's products

User Engagement/Uptake

Rapid growth in uptake of DE Africa services including the Map and the Sandbox, and direct use of DE Africa services

Demonstrating impact

DE Africa services empower community decision-making, improve lives, and support African governments in using data for policy and action

Cross-Cutting

Diversity and Inclusion | **Communications and PR** | **Monitoring, Evaluation and Learning** | **Benefits Realisation** | **Risk Management**

Executive Summary

The first quarter of 2025 marked a period of focused implementation and steady delivery for Digital Earth Africa. Guided by the 2025/26 Annual Work Plan, the program advanced across all strategic areas.

A technical review of the DE Africa Sandbox began in April. Existing users of the Sandbox are not able to access the DE Africa Sandbox environment while the review takes place. The DE Africa Sandbox is also unavailable for new Sandbox registrations at this time. During the review period we continued to provide responsive user support, handling **32 helpdesk queries** over the quarter.

From a governance perspective, the second Interim Advisory Board (IAB) meeting was held in June. This was complemented by the appointment of new Co-Chairs for both the IAB and Technical Advisory Committee (TAC). The MEL tracker was actively maintained, and a baseline assessment was completed and validated.

Partnerships were strengthened through continued engagement with GEO and ESRI, and new collaborations were explored through in-country engagement with **14 activities** across Rwanda, Kenya, Ghana, Niger, and South Africa.

On the technical front, DE Africa enhanced its platform with an EKS upgrade and made new datasets available including the Copernicus Lake Water Quality products along with associated notebook and user documentation.

Capacity development remained a core focus, with **119 live session attendees** and **220 online course registrations**, leading to **55 certificates of completion**. Engagements spanned from training university students and government agencies to supporting hackathons on disaster risk reduction. User engagement saw 274 new sandbox registrations and over 6,000 new website users.

Demonstrating impact, DE Africa published **14 articles**, secured **3 media interviews**, and achieved a **total media reach of 6.5 million**.

Highlights for the Quarter

Digital Earth AFRICA

Digital Earth
AFRICA

Key Updates

OUTCOME 1: Sustainment

DE Africa is on-track to be sustained in Africa (technically, operationally and financially), with key African stakeholders invested to achieve this end-point

Program Delivery

Interim Advisory Board (IAB)
An out-of-session IAB meeting was held in April to welcome the new co-chair and discuss the Sandbox review process. The second IAB meeting was held in June to provide oversight on program governance and strategic alignment.

Technical Advisory Committee (TAC)
The 2 new TAC co-chairs were onboarded in April, and the second TAC meeting was held in May.

Annual Reporting and Planning
The 2024 Annual Report was published in May while the 2025 Workplan implementation kicked off in April.

Monitoring, Evaluation, and Learning (MEL)
The baseline MEL report was drafted and a validation session with workstream leads is scheduled for July. The MEL tracker was updated with relevant data sources and dependencies.

Operational Enhancements
- A new administrative Officer (Ms Suwilanji Newa) was onboarded in April while a new Communications Lead (Ms Caroline Sang) joined the team in June.
- The annual leads workshop was successfully held in South Africa in May, focusing on strengthening collective ownership and ensuring effective implementation of the 2025 Annual Workplan.

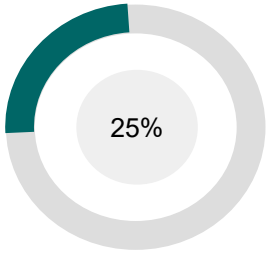
Diversity and Inclusion (D&I)
- Diversity and Inclusion (D&I) efforts included a Q1 D&I session held on 17 June, chaired by AfriGIST, focusing on “Unconscious Bias in the Workplace.”
- Contracting was also finalised for the AWGIS Tech Challenge in collaboration with TechTribe Accelerator. However, delays in the Sandbox review process have impacted the final stages of the challenge, which will be completed in the next quarter.

MEL Quarterly Results

Digital Earth AFRICA

Diversity (gender, age, country, language), operational Interim Advisory Board and Technical Advisory Committee, with meetings occurring regularly

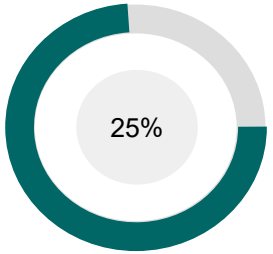
Target
Number of women IAB and TAC members



Q1 Status: Limited progress

IAB - 3 (33%); TAC - 2 (12%)

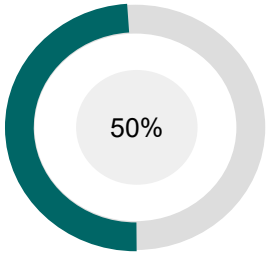
Target
Number of African countries represented at IAB and TAC



Q1 Status: On track

IAB - 6; TAC - 11

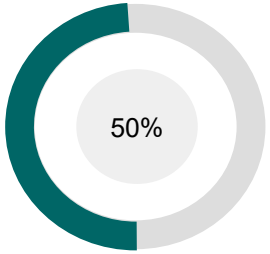
Target
Number of languages of IAB and TAC members



Q1 Status: On track

IAB - 4; TAC - 2

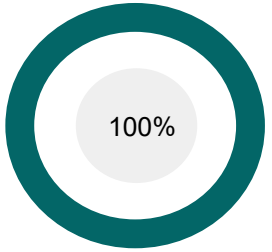
Target
Age range of IAB and TAC members



Q1 Status: Progress

Youth are underrepresented on IAB and TAC

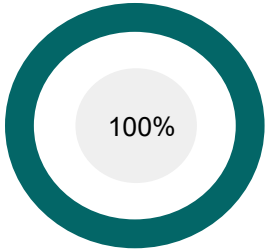
Target = 4
Number of IAB meetings hosted annually



Q1 Status: On track

1 IAB meeting held in June

Target = 4
Number of TAC meetings hosted annually

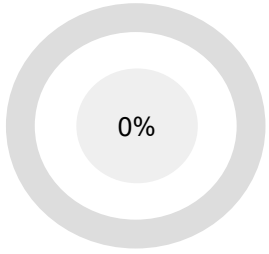


Q1 Status: On track

1 TAC meeting held in May

PMO leading the effective implementation of DE Africa, including robust planning, reporting, financial management, and administration

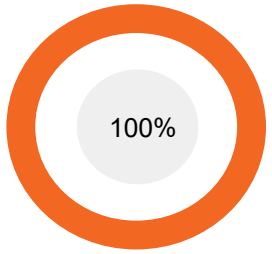
Target = 1 every 5 years
Long-term strategy implemented



Q1 Status: Limited progress

Long term strategy under development

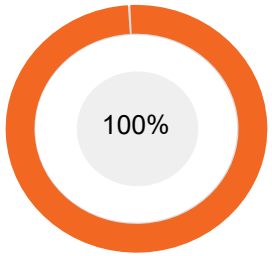
Target = 1
Approved annual workplan



Q1 Status: Complete

2025/26 workplan approved

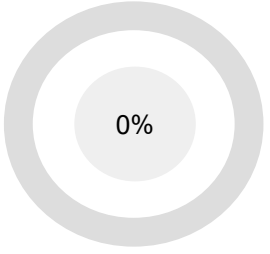
Target = 1
Number of quarterly reports developed



Q1 Status: On track

Q1 report in review

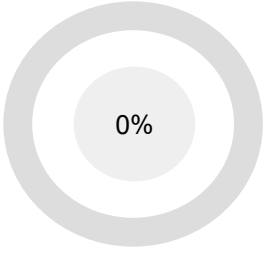
Target = 1
Annual report developed



Q1 Status: On track

2024/25 under development

Target = 1
Accurate, timely financial statements developed

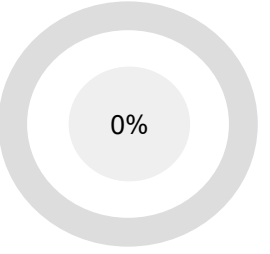


Q1 Status: On track

2024/25 under development

Cross sector business model implemented

Target = 1
Cross sector business model implemented



Q1 Status: Off track

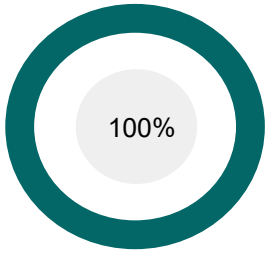
No implementation

MEL Quarterly Results

Digital Earth AFRICA

Development of new products as per Technical Roadmap

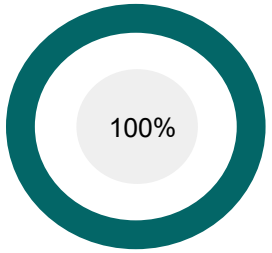
Target = 2
Number of external datasets made available



Q1 Status: On track

2 new datasets made available

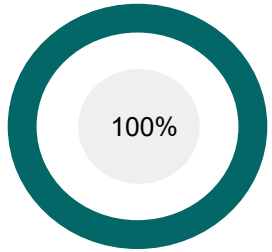
Target = 5
new notebooks developed



Q1 Status: On track

11 new notebooks developed

Target
use cases supported

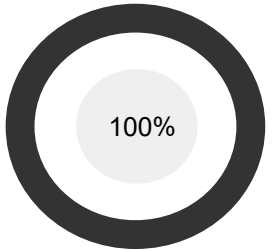


Q1 Status: On track

11 use cases supported

Platform is performing efficiently and meeting program and user needs.

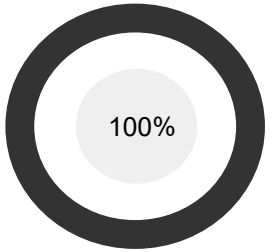
Target = 99%
up-time for platform



Q1 Status: On track

99% reported throughout quarter

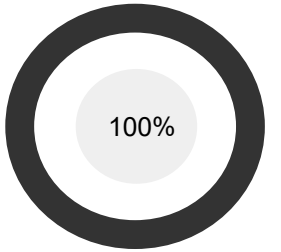
Target = all updated
Monthly continental services



Q1 Status: On track

All monthly continental services updated

Target = all updated
Annual continents services

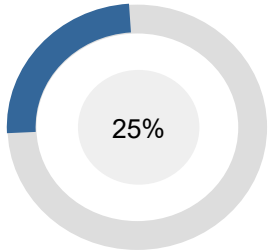


Q1 Status: On track

All annual continental services updated

African governments and institutions are utilising DE Africa services and systems to inform policy, plans and/or actions

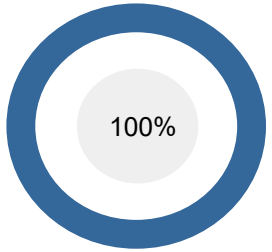
Target
Number of governmental organisations accessing DE Africa data and services on a monthly basis



Q1 Status: Limited progress

7 governmental organisations accessing DE Africa data and services on a monthly basis

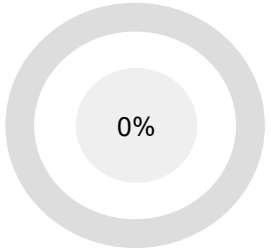
Target
Number of use cases supported from African governments and institutions



Q1 Status: On Track

15 use cases supported

Target
Number of training courses conducted

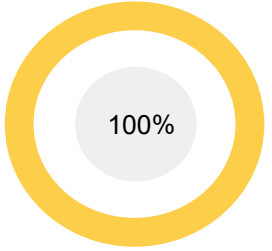


Q1 Status: Off track

11 conducted during quarter - low number due to sandbox offline

Platform is performing efficiently and meeting program and user needs.

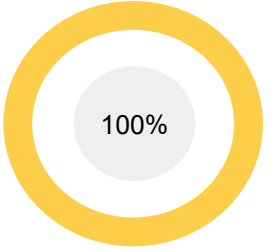
Target = 8
Number of use-cases developed and published



Q1 Status: Ontrack

10 use cases and user profiles published in Q1

Target
Number of events attended



Q1 Status: On track

28 EO and space related events attended in Q1

Partnerships

During this quarter, DE Africa continued to strengthen and expand its regional and technical partnerships. Engagements advanced with regional organisations, private sector entities, and international partners. These included:

- **Group on Earth Observations (GEO)**: Continued participation in the Geo Knowledge Hub series of webinars featuring DE Africa services including agriculture, urbanisation, coastal and marine, water resources, as well as cross-cutting applications. DE Africa also participated in the GEO Global Forum in Rome alongside the other Digital Earth programs (Pacific, Australia, Brazil).
- **ESRI**: Engagement continued with the development of Esri learn lessons using DE Africa coastline service (examples of Egypt, Ghana, Mozambique). A meeting was held in June to kick off lesson learning on DE Africa coastline

Key engagements

- **Ghana**: DE Africa provided a technical presentation to the Environmental Protection Agency (EPA) on surface mining, leading to a request for further use case development.
- **Kenya**: DE Africa participated in the Kenya Space Sector Ecosystem Community of Practice (CoP) validation workshop facilitated by RIIS, and DE Africa will continue to play a key role in the CoP.
- **Rwanda**: Meeting was held with UGAMA-Farmers Cooperatives Support Organization to formalize collaboration and develop a use case for geospatial technologies in agriculture.
- **South Africa**: an awareness raising session was held with AfriGIS in June, a private sector end-user interested in water resource management, water quality, and urban applications. A draft MoU was shared. DE Africa also engaged with the Technology Innovation Agency (TIA) regarding the G20 Hackathon on Disaster Risk Reduction.
- **Uganda**: Meeting held with the Association for Strengthening Agricultural Research in Eastern and Central Africa (ASARECA) in June to discuss extending the Information for Agriculture, Food and Water Security (IAFWS) project and potential co-fundraising.
- **Niger**: DE Africa engaged with HYGEO and Agence Universitaire de la Francophonie (AUF) in June, training 20 young women on DE Africa command-based platforms as part of an artificial intelligence week.

We continue to strengthen these collaborations, with six (6) Memoranda of Understanding (MoUs) currently at Stage 5 – under review by partners – and expected to be signed in the upcoming quarter. These include MoUs with: NEMA-Uganda, HYGEO, Kenyatta University (Kenya), Kyambogo University (Uganda), UGAMA (Rwanda), and GSSTI (Ghana).

Implementing Partner Activities

African Regional Institute for Geospatial Information Science and Technology (AFRIGIST)

- Held a Diversity and Inclusion event on International Women's day (10 - 14 March).
- Provided training to 17 participants from the Ministry of Water in Benin on water resources and flood risk assessment using DE Africa.

AFRIGIST training in Benin

Agriculture, Hydrology, Meteorology Regional Centre (AGRHYMET)

- Held a training workshop for 25 participants from Niger (22) and Burkina Faso (3) on crop type mapping.

DE Africa Crop type training at AGRHYMET

Centre de Suivi Ecologique (CSE)

- Held a dissemination webinar on coastline service and wetland workflow.

The Sahara and Sahel Observatory (OSS)

- Provided training to 56 participants from various ministries, departments, agencies, and universities on DE Africa platform and land degradation examples.
- Held a virtual workshop that highlighted relevant tools and datasets for analyzing land degradation indicators to 40 participants.

OSS training workshop in Tunisia

Regional Centre For Mapping Of Resources For Development (RCMRD)

- Training on coastal erosion in Comoros and Djibouti.

Science and Technology

Key Highlights

- Continental Services: Attributes for lakes were developed for the Waterbodies Monitoring Service; prototyping continues for a new Water Quality Monitoring Service
- Ongoing Workflow Development: Continuous updates to the Wetlands workflow to improve efficiency, including faster multi-scale terrain indices computation and feature exploration outputs. Complete workflow runs for Uganda, Senegal, and South Africa (pilot area) with validation report prepared.

New Data and Data Pipelines

- Work is ongoing on indexing Sentinel 3.
- Copernicus Global Land Service - Lake Water Quality 2002-2012 datasets now hosted by DE Africa.

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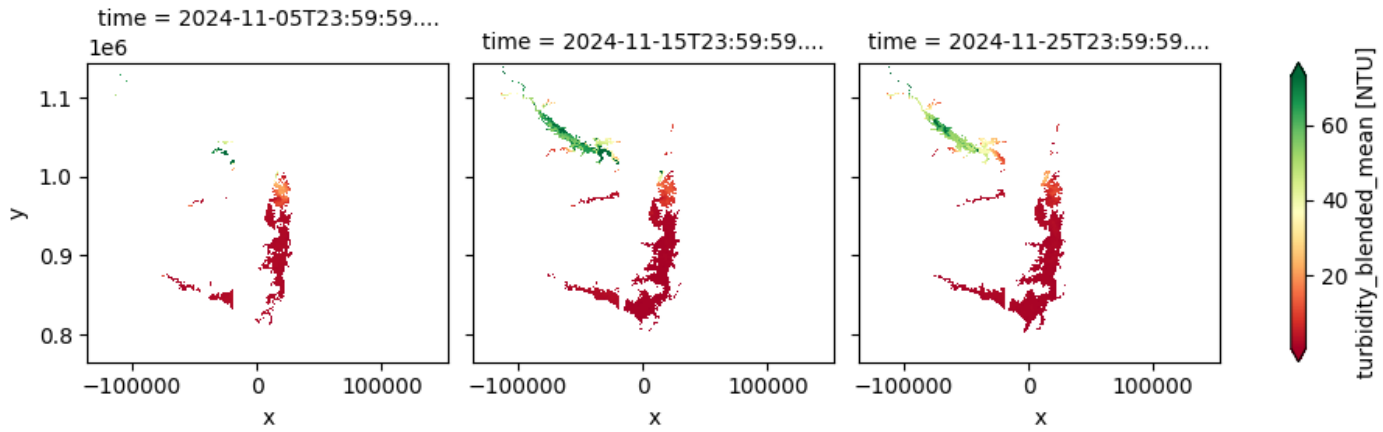
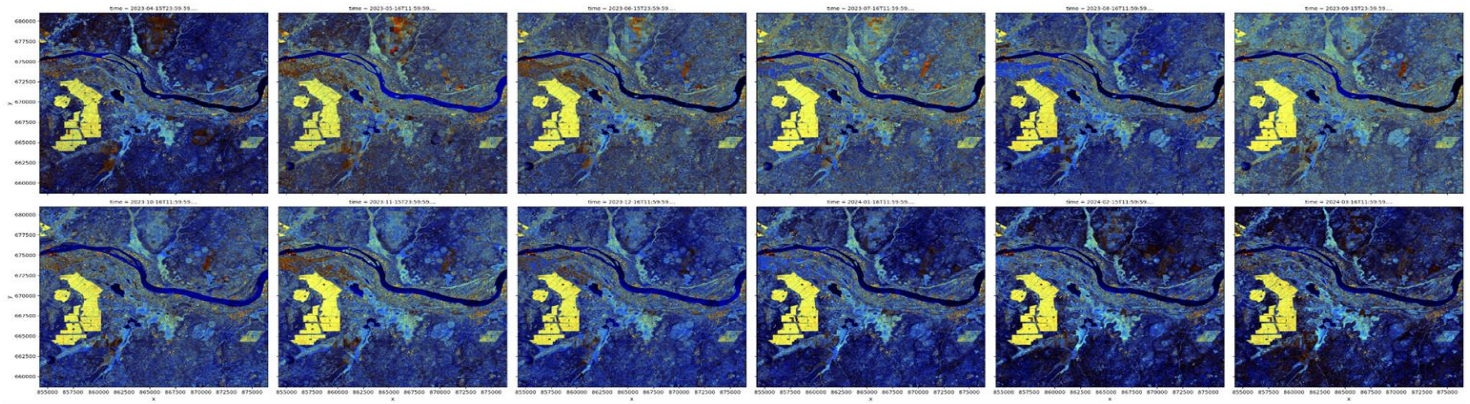


Lake Water Quality: Turbidity, Lake Volta, Ghana, 5th, 11th, 25th November 2024

Science and Technology

New Notebooks Released

1. Sentinel-1 Monthly Mosaic dataset loading
2. Limpopo Basin Dam Volume Calculation Use Case collection
3. Copernicus Water Quality dataset loading
4. Direct access notebooks developed for African Mountain Research Foundation in-situ weather data, ALOS PALSAR datasets, analyzing urban extent, DIWASA rainfall, evapotranspiration, and soil moisture assessments.



Sentinel-1 monthly mosaic over the period January 2023 - January 2024 for a section of the Volta river north of Accra, Ghana

Science and Technology

Technical Documentation

- Sentinel 2 collection 1 documentation updated
- User guide in English and French released describing technical specifications and data access of Copernicus Land Monitoring Service datasets.

Use Case Development and Technical Support

- Monitoring soil erosion (DRC)
- Identification of mining sites (Ghana)
- AGRHYMET crop type mapping workshop in Niger
- Land use/land cover in Kampala
- Land use/land cover analysis (Ghana)

International Science Engagements

- Participation in the GEO Global Forum with panel discussions and presentations on Land degradation and Digital Earth systems, cementing the role of DE Africa as Convener in the GEO post 2025 work program.
- Participation in a GEOGLAM workshop with input into the definition of Essential Agricultural Variables.
- Presentation of DE Africa wetlands workflow and technical exchanges with DE Australia wetlands team.
- Presentation on the Role of Technology in Biodiversity Conservation to the South Africa Local Govt Association.
- Presentation to KNUST on surface mining monitoring using DE Africa Services.

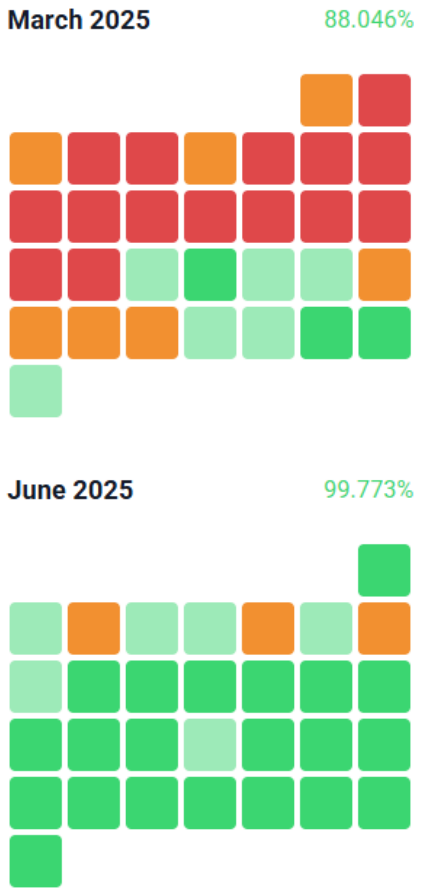
Science and Technology

Platform Technologies

- Deactivated Sandbox user access in April.
- Significantly improved the Explorer service availability.
- Introduced web service analytics providing visibility for Explorer and OWS requests.
- Completed EKS 1.31 across all environments; AWS EKS support extended to November 2025.

Data

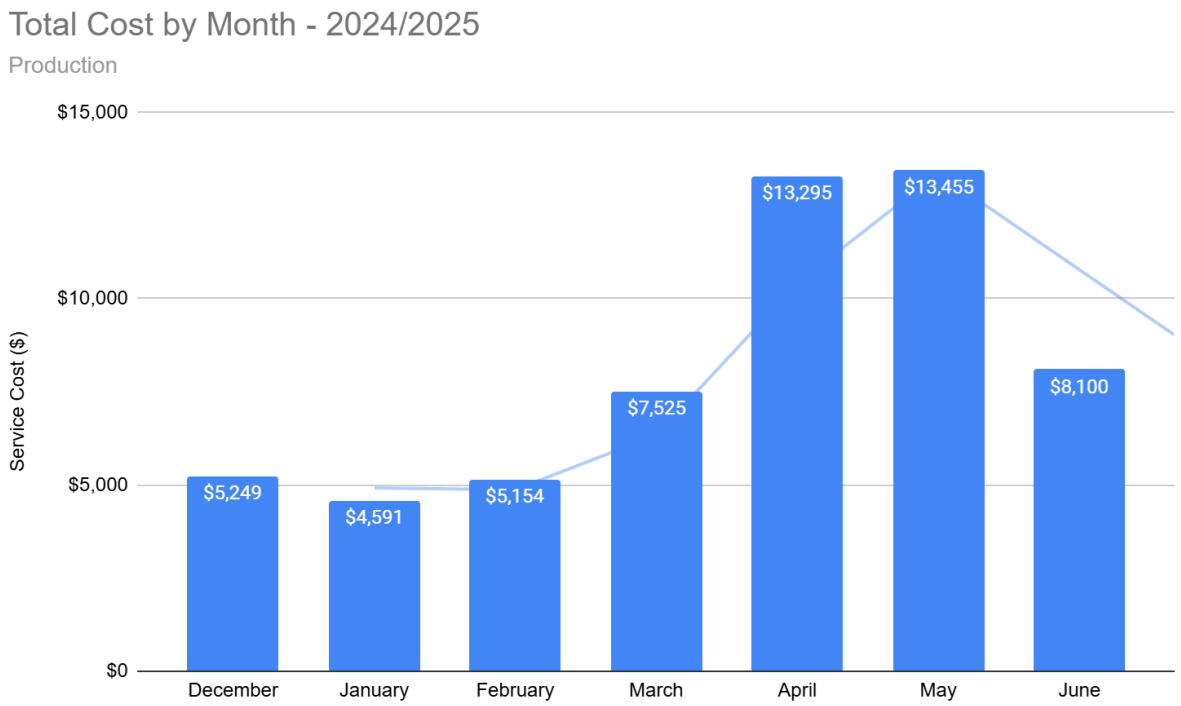
- Completed Sentinel-2 Collection 1 indexing.
- Resolved Sentinel-1 Monthly Mosaic filter issue.
- Updated all DE Africa Continental Services.
- New products available on production:
  - Monthly Incremental Evapotranspiration (iwmi_blue_et_monthly)
  - Monthly Rainfall Evapotranspiration (iwmi_green_et_monthly)
  - Various ESA WorldCereal products



ODC Explorer Uptime Comparison: March 2025 (88.05%) vs. June 2025 (99.73%) – Q1 2025 Improvement

Science and Technology

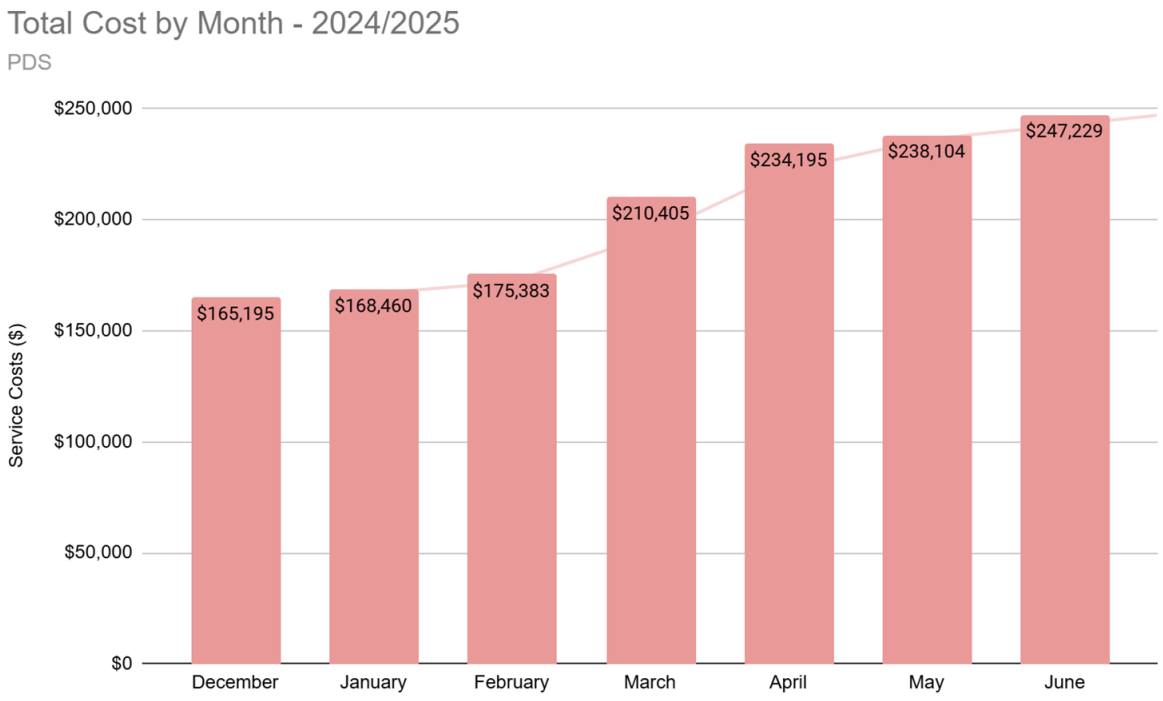
Production Costs: The production service costs showed an increasing trend from March to May, due to continental service updates.



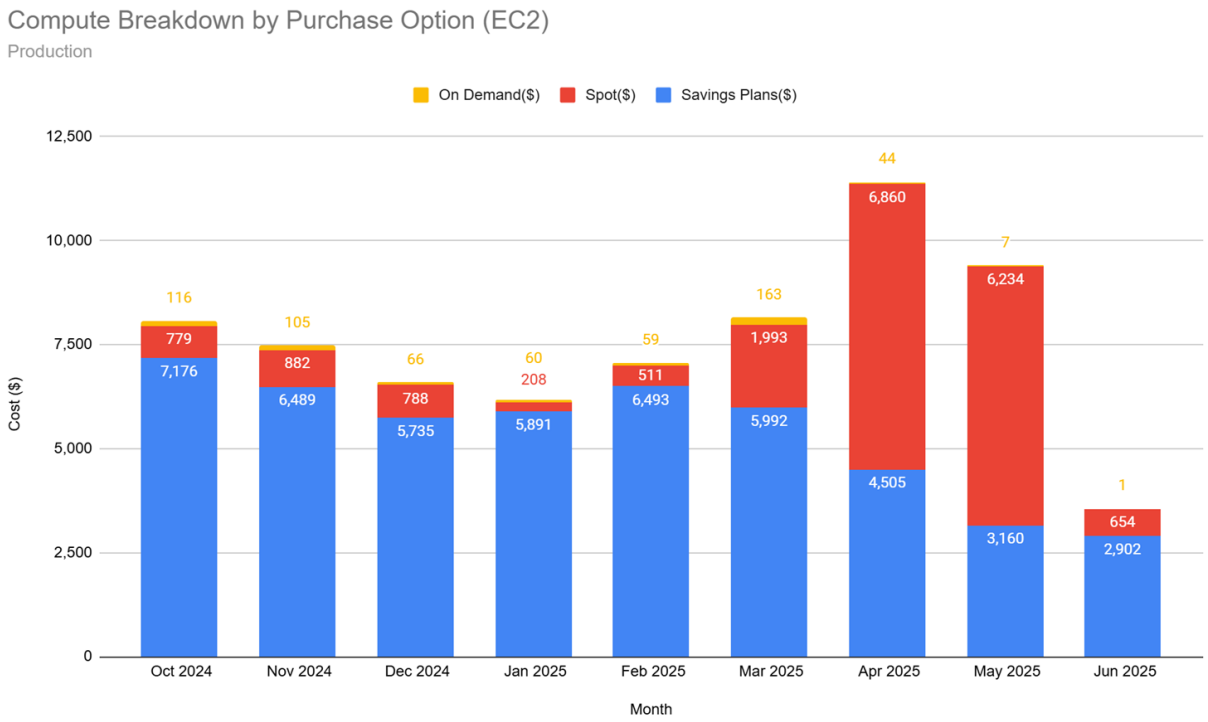
Development Costs: Development service costs remained relatively stable.

Science and Technology

PDS Costs: PDS costs showed a steady increase throughout the quarter.



EC2 Production Costs: EC2 production costs varied, with a notable increase in April and a decrease in May.



OUTCOME 2: Uptake and Impact

DE Africa is consistently used by key stakeholders - governments, communities, private sector and individuals, to drive environmental, social and economic impacts

In-Country Engagement

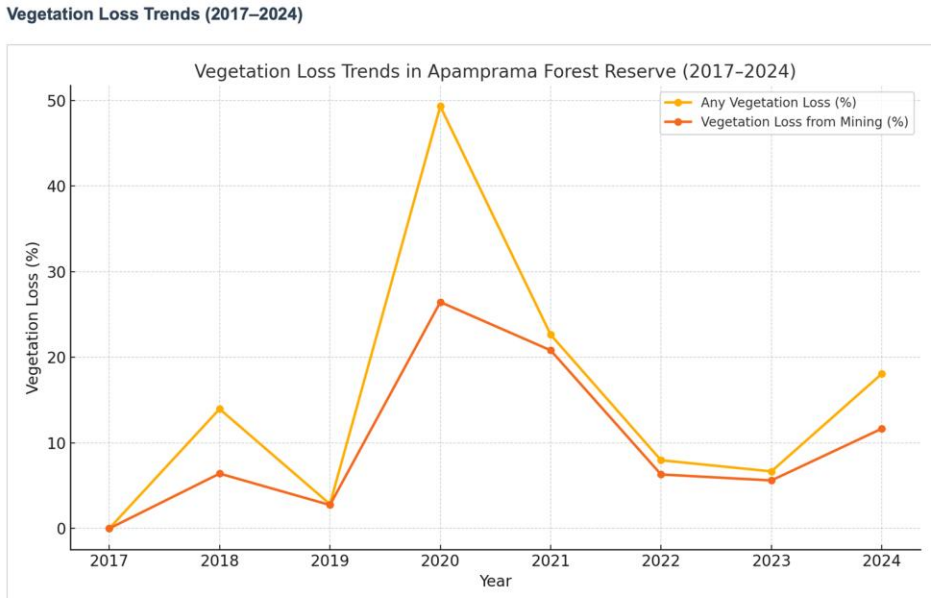
DE Africa continued to support country-level uptake and contextualisation of services through direct engagement with national and regional institutions. Nine in-country engagements were conducted during the quarter. These included:

- Technical exchanges with AFRIGIS (South Africa) and UGAMA (Rwanda) on agricultural applications.
- Capacity assessments and scoping with ASARECA (Uganda).
- Participation in RCMRD's 50th anniversary and regional exhibition (Kenya).
- Collaboration with the TIA (South Africa) in support of the G20 Hackathon for disaster risk reduction.
- Youth-focused workshops in Niger in partnership with HYGEO and AUF.
- Strategic discussions with Ghana's Environmental Protection Agency and Tunisia's water monitoring stakeholders.

These engagements reflect the program's continued emphasis on tailoring products and services to local priorities, particularly in agriculture, water security, climate resilience, and capacity development.

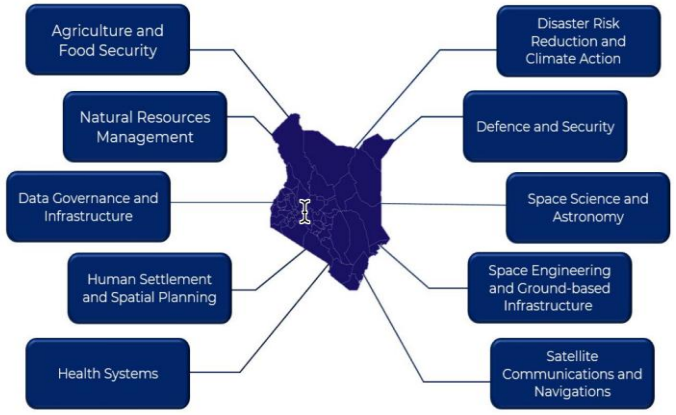
In-Country Engagement

- **Ghana Environmental Planning Agency (EPA):** DE Africa provided a technical presentation on surface mining, showcasing an example of Apamprama Forest, which led to a request for a dashboard showing mining impact.
- **Kenya Space Sector Ecosystem CoP Validation Workshop:** DE Africa participated in this virtual workshop, focused on laying the foundation for the first CoP, and was included in its development.
- **GEO Global Forum:** DE Africa participated in the session "EO for Land: The Power of Collaboration for Country Impact" and presented "Bridging Global Principles and Local Actions: Operationalizing the Digital Earth Approaches CoP."
- **UGAMA-Farmers Cooperatives in Rwanda:** DE Africa engaged with UGAMA, who are keen to use geospatial technologies for agricultural practices. A use case is under development.



Engagement with EPA on surface mining showcasing an example of Aparamama Forest reserve

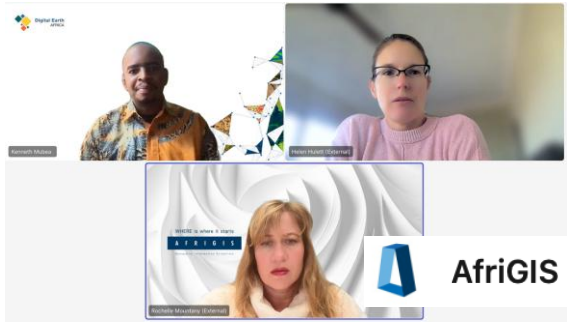
Meeting with Marachie Habanabashaka-National Coordinator/UGAMA-Farmers Cooperatives Support Organization



Communities of Practice (CoPs in Kenya's Space Sector validation workshop)

In-Country Engagement

- **AFRIGIS (South Africa):** DE Africa held an awareness session with AfriGIS, a private sector end-user interested in water resource management, water quality, and urban applications. A draft MoU was shared.
- **ASARECA (Uganda):** DE Africa met with ASARECA to discuss extending the Information for Agriculture, Food and Water Security (IAFWS) Project.
- **RCMRD 50 years celebration (Kenya):** DE Africa had an exhibition and engaged with various stakeholders. RCMRD launched its Regional Centre of Excellence (RCoE) map book, highlighting DE Africa coastline for coastal erosion hotspots.
- **Hackathon on Disaster Risk Reduction with G20 member countries:** DE Africa participated in the online stakeholder engagement, discussing how DE Africa datasets can support the hackathon's themes of Change Detection, Forecast Expansion, and Risk Classification for informal settlements and flood risk.
- **Technology Innovation Agency (TIA) (South Africa):** TIA aims will include DE Africa as part of the G20 hackathon, enabling innovation in Africa.
- **HYGEO and Agence Universitaire de la Francophonie (AUF) (Niger):** DE Africa engaged with these organizations, training 20 young women on DE Africa command-based platforms.



Rochelle Mountany - CEO of AfriGIS and Helen Hulett - water expert, Annelize Ludick - Business Manager attended an awareness session with Dr Kenneth Mubea, DE Africa's Capacity Development lead.

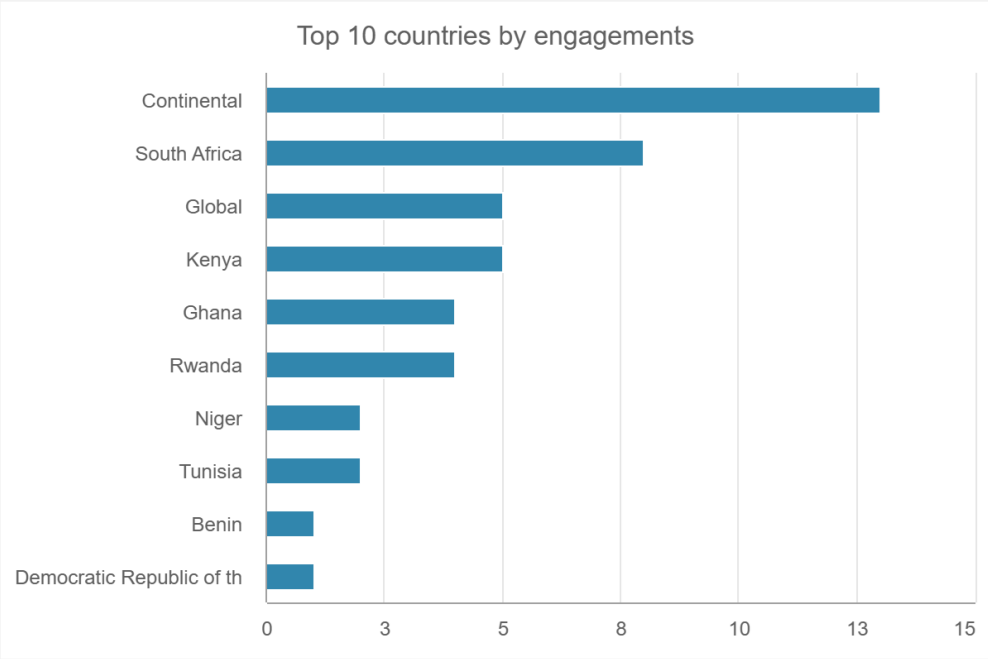
Joshua Okonya- Program Officer at ASARECA with DE Africa's User Engagement Manager Joseph Tuyishimire

DE Africa at RCMRD 50 years celebration represented by Dr Kenneth Mubea, DE Africa's Capacity Development Lead.

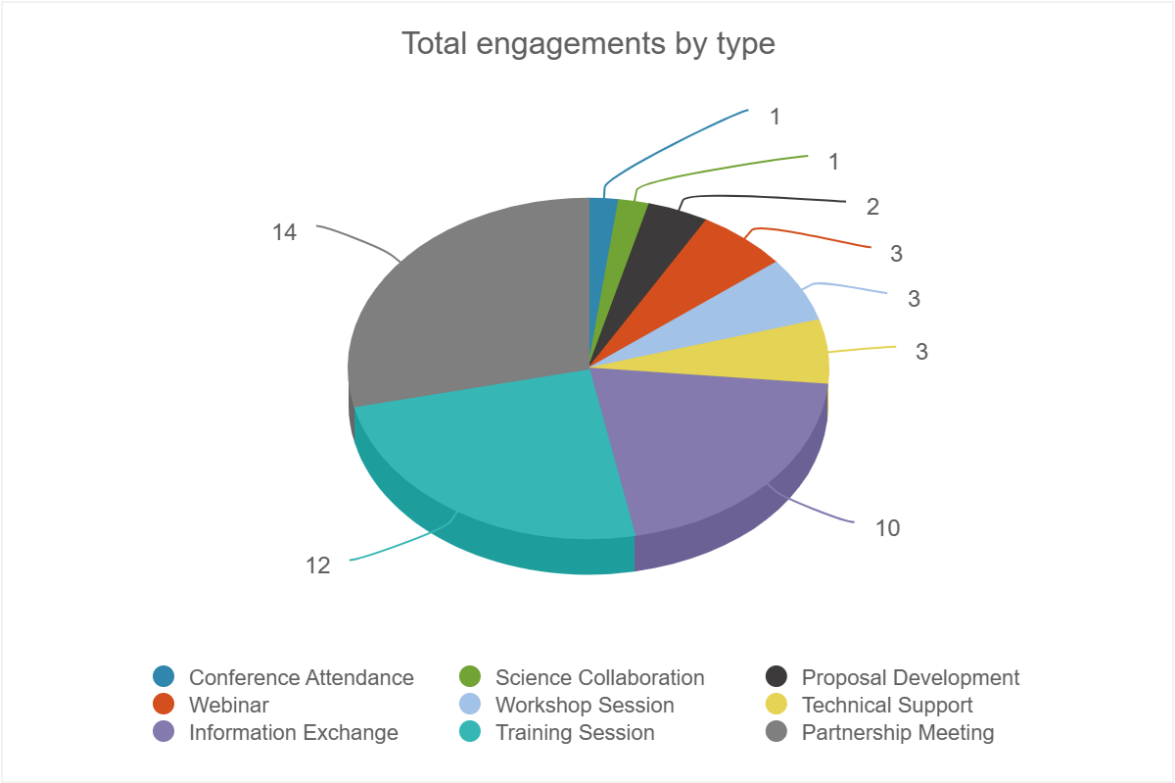
G20 SOUTH AFRICA 2025

DE Africa engaged with HYGEO and Agence Universitaire de la Francophonie (AUF)

Engagements by Numbers



Top countries by number of engagements (April - June 2025)



Awareness sessions

3

awareness sessions

Training sessions

19

training sessions provided

Information sharing

10

information exchanges

14 Partnerships

6 MoU initiated

Capacity Development

Capacity development remained a core activity in Q2, with 19 training sessions delivered to institutions and stakeholders across multiple countries. These included virtual and in-person training in Kenya, Ghana, South Africa, Tunisia, Niger, and Rwanda.

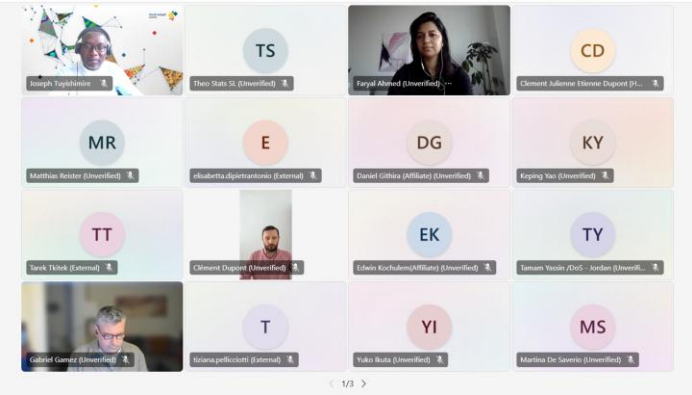
- **Kenyatta University (Kenya):** DE Africa provided face-to-face training on urban management applications to 24 students (year 1 and 2), with 14 completing the course and receiving certificates.
- **City of Jo'burg (South Africa):** DE Africa provided online training on urban management and green spaces to 16 participants from different departments. The training was organised by Mrs. Reabetswe Masombuka, Senior specialist: Open Space Planning, Environment and Infrastructure Services Department, City of Joburg.
- **University of Ghana GMES MarCNoWA:** Two webinars (English with 58 participants, French with 35 participants) focused on empowering climate action through DE Africa's continental coastal service.
- **GEO Knowledge Hub Webinars:** DE Africa and the GEO Knowledge Hub delivered a six-part thematic webinar series between March and June, engaging participants from across the continent. The sessions covered agriculture, urban planning, coastal monitoring, and cross-cutting applications of Earth observation.

Students from Kenyatta University with Dr Kenneth Mubea, DE Africa's Capacity Development lead

Dr Kenneth Mubea, DE Africa's Capacity Development lead and Joseph Tuyishimire, User Engagement Manager participated in the GEO Knowledge webinars

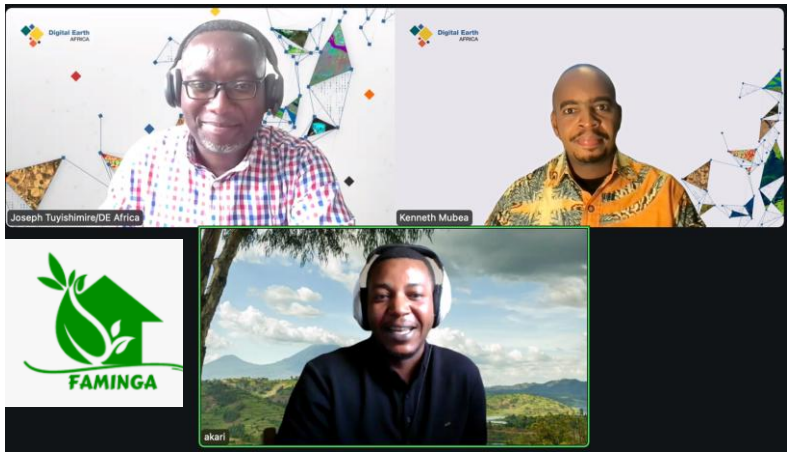
Capacity Development

- **Data for Now Project Evaluation Debrief Workshop**: The project was able to link different platform/data/technology owners including DE Africa and governments, which were able to achieve some of the targets at the lowest cost through replicable methodologies.
- **Online training to Faminga, Rwanda**: DE Africa provided online training to Faminga, which provided an overview of its platform, continental services and applications in agriculture.
- **University of Cape Coast, Ghana**: DE Africa provided an overview of its platform and applications in a public lecture to students.
- **University of Energy and Natural Resources, Ghana**: DE Africa provided an overview of its platform and applications in a public lecture to students.
- **DE Africa and OSS - Land Use Land Cover (LULC) mapping**: Virtual workshop trained 20 participants from Tunisian national institutions on LULC change mapping.



Data for Now Project Evaluation Debrief Workshop led by DE Africa's User Engagement Manager, Joseph Tuyishimire

University of Ghana (UoG) in collaboration with Digital Earth Africa (DE Africa) organised a webinar on Earth Observation for Marine and Coast in french and english with a focus on empowering climate action through DE Africa coastline service.



DE Africa held a follow up engagement on how DE Africa can support Faminga in monitoring crop productivity with Mr. Jean Claude, Faminga's CEO led by DE Africa's User Engagement Manager, Joseph Tuyishimire and Dr Kenneth Mubea

Capacity Development

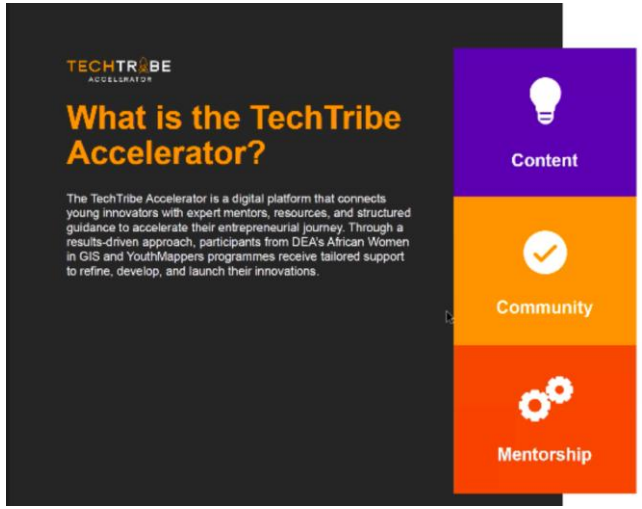
Online Trainings:

- April 7th: DE Africa and CSE provided online training on wetlands to stakeholders from West Africa Coastal Area (WACA) countries.
- April 8th: DE Africa and CSE provided online training on coastal management to stakeholders from WACA countries.

AWIGIS Technical Challenge: DE Africa invited Tech Tribe to provide an overview of the award, prioritizing 21 mentees and assigning four mentors.

EU SDGs Eyes: DE Africa participated in discussions on tracking climate security impacts in the Sahel Region under the theme “Tracking Climate Security Impacts in the Sahel Region: Advancing on SDGs Indicators Monitoring, Reporting and Accounting”.

Digital Earth Africa and CSE Webinars 7&8 April 2025 with DE Africa’s User Engagement Manager Joseph Tuyishimire and CSE focal points Amadou Sall and Ndeye Fatou Sene



DE Africa at EU SDGs Eyes represented by Joseph Tuyishimire, User Engagement manager

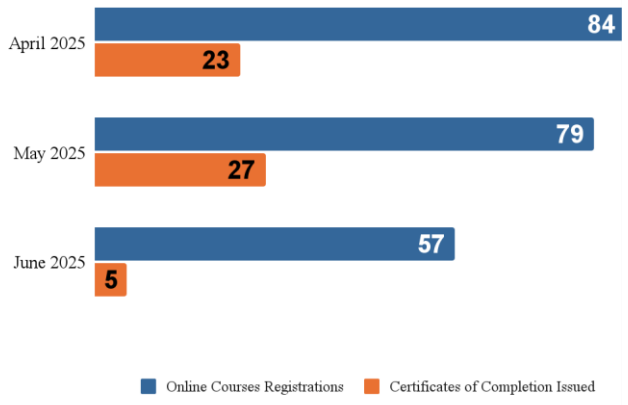
Q1 User engagement in Numbers

Digital Earth AFRICA

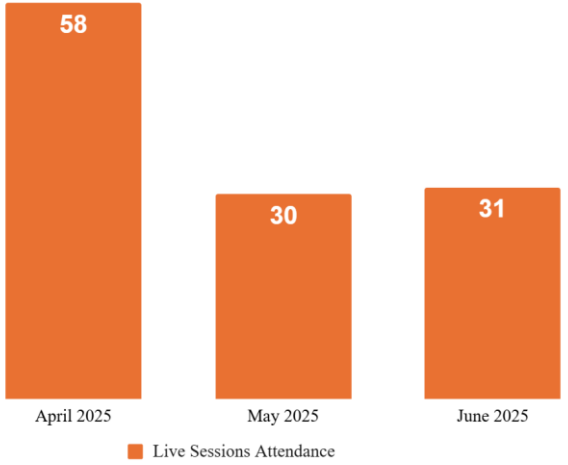
Q1 2025 vs All time user totals

Online Course Registrations	Certificates of Completion Issued	Live Sessions Held	Live Sessions Attendees	Sandbox Registrations	Helpdesk Requests	Maps Users
220 +4%	55 +3%	12 +5%	119 +7%	274 +3%	46 +17%	2,542 +7%

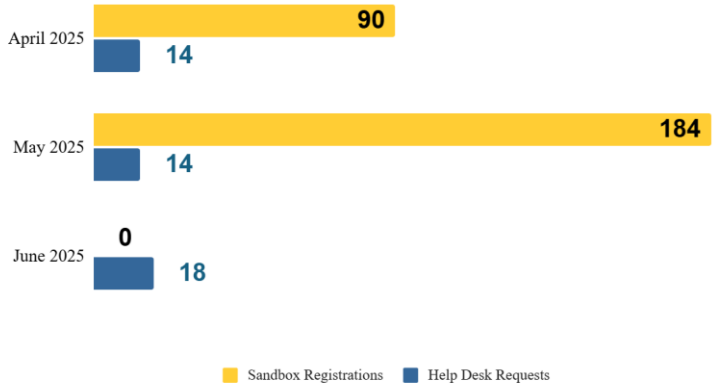
Online Courses



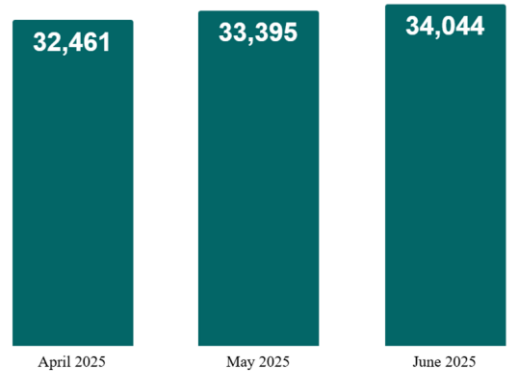
Live Sessions



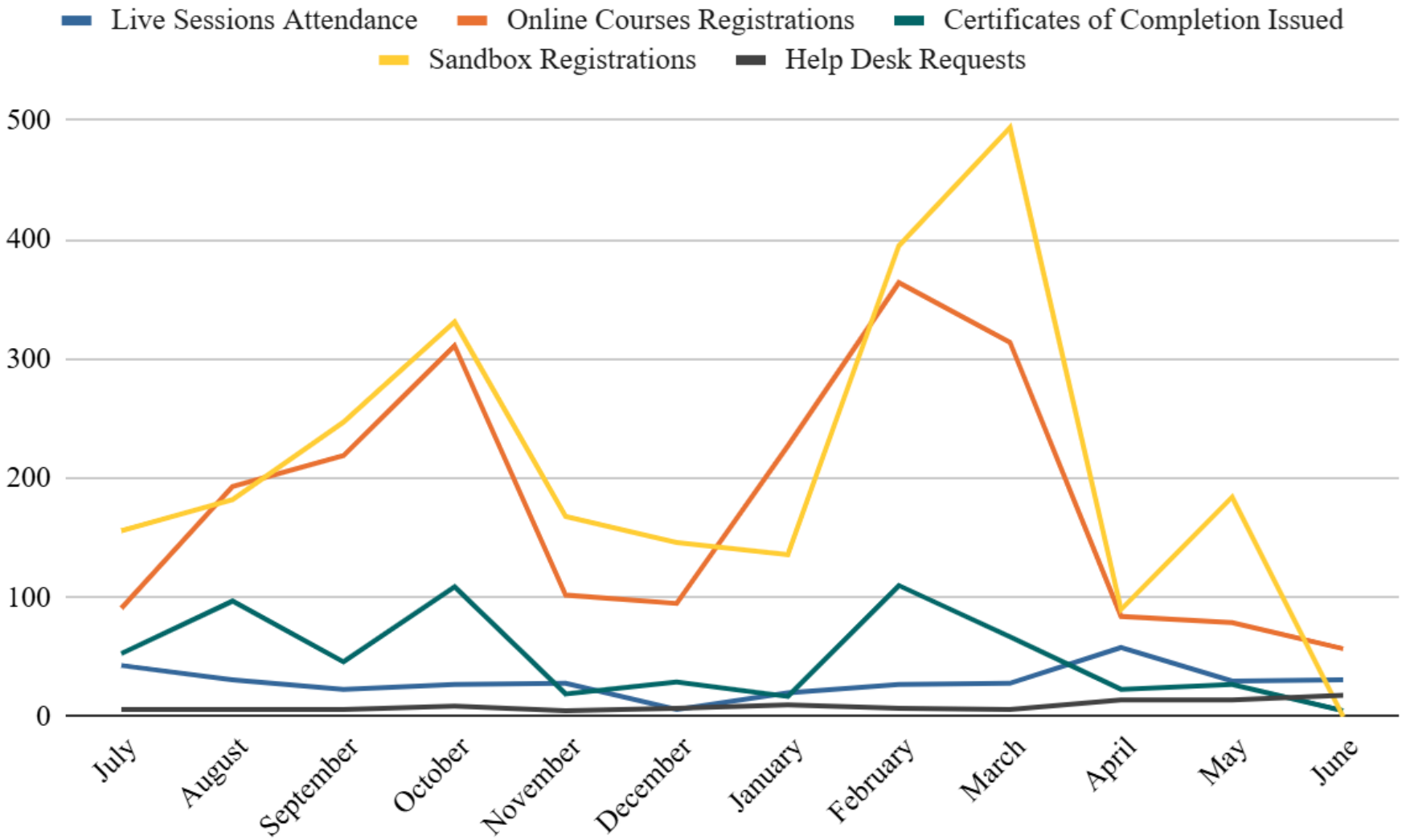
Sandbox and Helpdesk



Cumulative Map Users



July 2024 to June 2025 User Engagement Trends



All time User Community

34,044 +2,542	Unique DE Africa map users
5,928 +220	Online Course Registrations
1,589 +55	Certificates of Completion Issued
8,107 +274	Sandbox Registrations
269 +46	Helpdesk Requests

Demonstrating Impact

Major Achievements

- In April, 5 Tech Alerts were sent regarding the Sandbox technical review process.
- In June, DE Africa secured three media interviews, resulting in an estimated USD 3,278.22 in earned media value and a reach of over 6.5 million people.
- 4th edition of DE Africa newsletter distributed on 25 June 2025.

Social Media Posts

The impact of DE Africa's tools and data was effectively communicated through various channels, with:

- 44 tweets on X, top-performing posts included new appointments, training announcements, and team highlights.
- LinkedIn followers increased to over 10,000 by the end of June.
- Twelve articles published on the website, enhancing visibility and engagement with audiences.

Published articles

1. Digital Earth Africa secures additional funding from The Leona M. and Harry B. Helmsley Charitable Trust to deepen real-world impact
2. Mapping Seagrass in Senegal: A New Step Toward Sustainable Marine Ecosystems
3. Preserving Africa's Heritage from Space: A Conversation with Dr Pamela Ochungo

Greetings from Digital Earth Africa

Our fourth edition of the DE Africa newsletter is once again full of enlightening information about the organisations, partners and people who are actively using DE Africa to sustain our incredible continent, while sensitively balancing environmental concerns with human-centred priorities.

Our hope is that these updates continue to inspire you. We are always eager to hear about your own personal and organisational stories - particularly impact that has emerged through using DE Africa. To this end we invite you to share this information with us so that we, in turn, can showcase this with our wide community of users. You can find contact details at the end of the newsletter. We look forward to hearing from you.

We are pleased to share that our DE Africa website has been given a refresh. We encourage you to take a look here, where you are able to access our services and training platform, read more our (and your!) stories of impact, and keep abreast of our governance and regular program reporting. Since our inception, DE Africa has remained committed to transparency and accessibility. We hope that our refreshed website continues to be an extension of that commitment.

Feature **article**

EGYPT LEVERAGES DE AFRICA TO IDENTIFY CRITICAL COASTAL INDICATORS

In a pioneering move to strengthen national water security, Egypt's Ministry of Water Resources and Irrigation (MWRI) has begun harnessing the capabilities of DE Africa to monitor and manage its coastal zones. This initiative, led by His Excellency Professor Hani Sewilam, Minister of Water Resources and Irrigation, forms a central component of Egypt's 2050 Water Resources Strategy, specifically under the Irrigation System 2.0 plan.

The Irrigation System 2.0 plan marks a strategic shift beyond traditional water management, integrating advanced digital tools and platforms under its "smart management" pillar. According to Eng. Walid Hakiki, Head of the Planning Sector at MWRI, the ministry is actively developing mobile applications and web-based systems using cutting-edge technologies such as remote sensing, geographic information systems (GIS), and numerical modelling. DE Africa is being actively used by the Ministry of Water Resources and Irrigation as part of this strategy.

"Our goal is to equip ministry agencies with the latest tools for efficient planning and monitoring," Hakiki explained. "We're building systems that are not only data-driven but also user-friendly and scalable."

Read more here >>

Scientific **innovation**

Demonstrating Impact

4. Mapping the Coast to Save the Past: Satellite Data Supports Cultural Heritage in Africa
5. Digital Earth Africa collaboration with Kenyatta University in Kenya
6. Egypt leverages Digital Earth Africa to identify critical coastal indicators
7. Joel Rhine's Breakthrough Solution for National-Scale Flood Analysis with Sentinel-1 Data
8. A geospatial engineering student's take on urban expansion
9. Reframing poverty and risk through satellite data
10. Closing data gaps in Africa's mountainous regions with Digital Earth Africa and the African Mountain Research Foundation
11. Accessible from anywhere: How Digital Earth Africa is changing the way we use satellite data
12. A geospatial engineering student's take on urban expansion

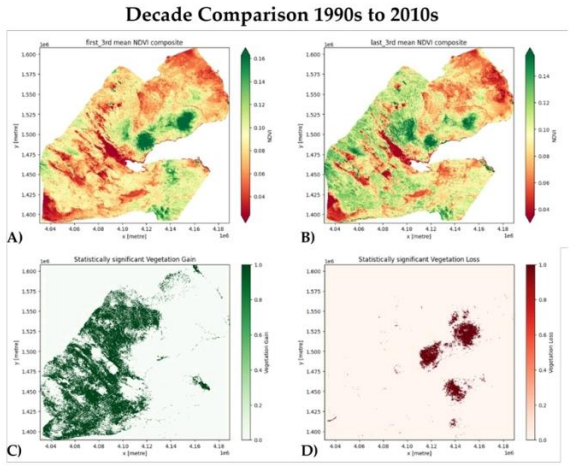
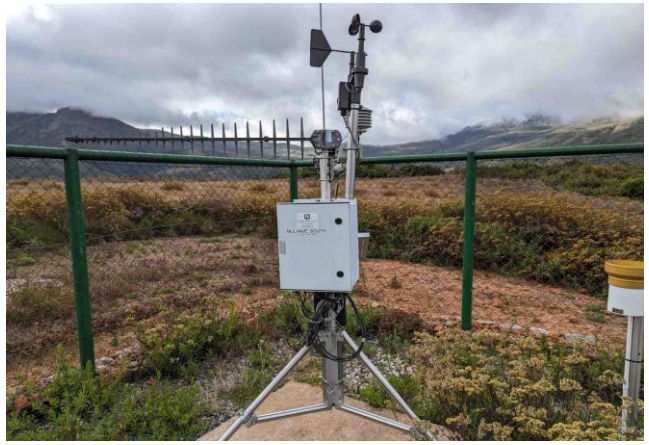


Figure 31. Decade results at 120m resolution - NDVI 1990-1999 decade composite (A) and NDVI 2010-2020 decade composite (B); Welch's T-Test results showing statistically significant vegetative gain (C) and statistically significant vegetative loss (D).

DE Africa's Fractional Cover datasets, which provide detailed insights into the ground cover: photosynthetic vegetation, non-photosynthetic vegetation, and bare soil used by Julee Wardle for her research focused on the arid landscapes of Djibouti, a small but strategically located country in the Horn of Africa.



DE Africa worked with the African Mountain Research Foundation (AMRF) to explore how open-access Earth observation data can be integrated with local, in-situ datasets to enhance understanding of these sensitive environments.

Egypt's Ministry of Water Resources and Irrigation (MWRI) has begun harnessing the capabilities of Digital Earth Africa to monitor and manage its coastal zones, led by His Excellency Professor Hani Sewilam, Minister of Water Resources and Irrigation.

Social Media Engagement

Digital Earth AFRICA

X (Twitter)

Metric	April 2025	May 2025	June 2025
Total followers	7,352	7,373	7,407
Mentions by others	11	15	13
Retweets	21	10	28
New followers	17	11	32
Engagement rate	8,03%	5,31%	6.91%
Total tweets	15	11	12

LinkedIn

Metric	April 2025	May 2025	June 2025
Total followers	10,098	10,368	10,843
New followers	876	1212	475
Post shares	129	33	121
Engagement rate	18,75%	8,23%	10,84%
Total post reactions	628	637	678
Total posts	15	15	14

Website

Metric	April 2025	May 2025	June 2025
Total users	3,8k	3k	2.9K
New users	3,3k	2,7k	2.9K
Returning users	994	809	697
Average engagement time	2m 31s	1m43s	1m 29s
Views	19k	38k	28K

Newsletters

Delivered to 9,900 recipients

33.3% open rate

2.1% click rate

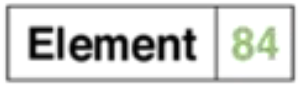
Blog articles

12

articles published

Acknowledgements

Digital Earth AFRICA



Digital Earth
AFRICA

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- **Maps**: https://maps.digitalearth.africa
- **Learning Platform:** https://learn.digitalearthafrica.org
- **User guide:** https://docs.digitalearthafrica.org

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- YouTube: @digitalearthafrica