# GEO WEEK & MINISTERIAL SUMMIT 2023

Flash Talk: Driving Diversity and Inclusion through Technical Challenges across Africa

6 November 2023 11am

#TheEarthTalks

# Kenneth Mubea, PhD

Capacity Development Lead
Digital Earth Africa
kenneth.mubea@digitalearthafrica.org











# **Driving Diversity and Inclusion through Technical Challenges across Africa**

6 November 2023 11am GMT +2

Kenneth Mubea, PhD

Capacity Development Lead, Digital Earth Africa kenneth.mubea@digitalearthafrica.org



Kenneth Mubea













# Digital Earth Africa

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

Empowering countries across Africa with Earth observation data to enable climate adaptation and mitigation, greater food security and more sustainable development.



# Kenneth Mubea, PhD

Capacity Development Lead
Digital Earth Africa
kenneth.mubea@digitalearthafrica.org



#### **GEO WEEK & Ministerial Summit 2023**





delivery partnerships

















**OPEN DATA CUBE** 





# Technical challenge







# **Challenge**

- Lack of access to data
- More inclusion of women and youth in earth observation
- Improve learning curriculum
- Connect mentors and mentees

## Solution

- Partnership with YouthMappers and African Women in GIS in Technical challenge
- Free virtual sessions on how to use DE Africa platform
- Inclusion of women and youth in DE Africa learning
- Technical support in their use cases: Malawi, Nigeria, Sierra Leone, South Africa, Uganda, and Tanzania.
- Close the digital divide

# **Impact**

- Local: the youth and women lead research grounded in local issues and develop solutions benefitting their communities.
- Regional: this collaboration acts as a bridge, connecting untapped potential with access to advanced technology, thereby promoting inclusivity.
- Global:, this initiative serves as a compelling example of the transformative impact of youth and women in driving innovation and effecting positive change.





# Diversity and inclusion





# **TO THE WINNERS**





DIGITAL EARTH AFRICA

& YOUTHMAPPERS

TECHNICAL CHALLENGE 2022

INCOMESSIVERS TECHNICAL UNIVERSITY EAST

EASTERN TECHNICAL UNIVERSITY OF RESIDANCIAL



DIGITAL EARTH AFRICA

& YOUTHMAPPERS

**TECHNICAL CHALLENGE 2022** 







. . . . . . . .







**AFRICA** 

...

Effects of the Migrant Crisis on the African Continent











**2022 TECHNICAL CHALLENGE** 









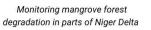


















# Africa Women in GIS Mentorship Program











## #TheEarthTalks

## **GEO WEEK & Ministerial Summit 2023**



# Digital Earth AFRICA









#### **2022 TECHNICAL CHALLENGE**









# @DEarthAfrica and @youthmappers Technical Challenge 2022. #YouthMappers

- GeoYouthMappers at Makerere University in Uganda will use the Digital Earth Africa Jupyter Sandbox to acquire and process high quality and timeless satellite imagery over the Budongo Central Forest Reserve to detect and map regions of deforestation.
- #YouthMappers Technical University East at Eastern Technical University of Sierra Leone will map rural water resources and will create geospatial data reflecting the needs of rural communities in Kenema, Sierra Leone that lack clean and safe water.
- YouthMappers at Jordan University College in Tanzania are using the
  Digital Earth Africa platform to select suitable sites for the construction of
  wastewater treatment ponds. Urban wastewater management is a major
  local environmental issue and the study area includes popular areas where
  residents deposit wastewater that leaks into groundwater.
- MUST YouthMappers at Malawi University of Science and Technology are mapping deforestation, climate change impact, and food insecurity in the Dzalanyama forest.







# #The Earth Talks GEO WEEK & Ministerial Summit 2023



University of Johannesburg, South Africa







Makerere University, Uganda





Engagement with universities as part of Capacity Development Strategy: support curriculum, training, projects (YouthMappers, Africa Women in GIS),







# Digital Earth Africa Industrial Training Programme at the State **University of Zanzibar, Tanzania**



The DE Africa SUZA Industrial Training Programme has officially launched at @StateSuza, will be coordinated by SUZA staff under the guidance of the DE Africa team, with 20 students from across various programmes

participating. #Zanzibar #Tanzania #Africa

@DEarthAfrica @StateSuza joint internship #Zanzibar, #Tanzania students learning #DEAfrica products & services to solve real world challenges in #Zanzibar including restoration of #mangroves #ClimateActionNow #SDGs #LeaveNoOneBehind @SUZAYouthMapper @SUZA DEAfrica @awscloud















# #The Earth Talks GEO WEEK & Ministerial Summit 2023

# NextGen Space Challenge Calling all young and aspiring space innovators in South Africa! Apply today by clicking here











Opportunity to join Innovate UK, the South African National Space Agency, and Digital Earth Africa on a sponsored tour of the UK space industry.

Upon your return, you'll also receive mentorship and training from Digital Earth Africa, to help take your idea to the next level.







# Partners and Affiliations























































# Thank you Merci obrigada

#TheEarthTalks





6-10 NOVEMBER

CAPE TOWN, SOUTH AFRICA

Kenneth Mubea, PhD
Capacity Development Lead
Digital Earth Africa
kenneth.mubea@digitalearthafrica.org

Connect:

Website: <a href="https://www.digitalearthafrica.org">https://www.digitalearthafrica.org</a>

Twitter: @DEarthAfrica

LinkedIn: <u>digitalearthafrica/</u> YouTube: <u>digitalearthafrica</u>



