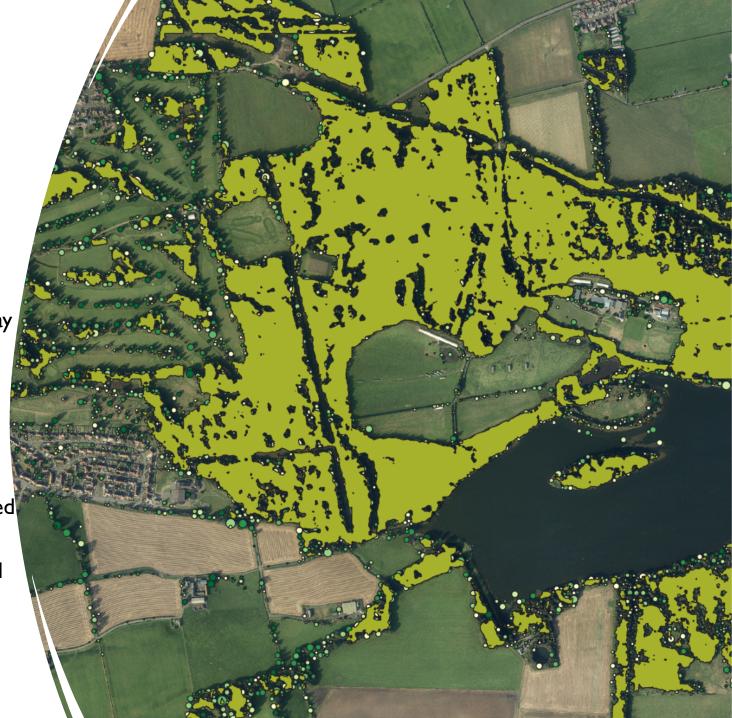
5th Big Data Africa School

Project Goals and Python Notebooks

Projects 4: Monitoring Forests peatland/ Mangroves in Africa

- Well-functioning forests, peatland and Mangroves play a vital role in keeping our planet healthy.
 - √ Forest, vital for climate control
 - ✓ Peatland vital carbon (CO₂) capture
 - √ Mangroves for coastal protecting.
- These land cover types are not adequately monitored in Africa
- Aim is to use high resolution optical satellite or arial images and object detection or segmentation approached to identify these land cover types.



Projects 4: Monitoring Forests peatland/ Mangroves in Africa

Notebooks

- Documentation datasets: https://

 docs.digitalearthafrica.org/en/latest/data_specs/
 index.html
- Introduces users to Scalable machine Learning:
 https://github.com/digitalearthafrica/deafrica-sandbox-notebooks/tree/main/
 Real_world_examples/Scalable_machine_learning
- Landsat imagery https://github.com/digitalearthafrica/deafrica-sandbox-notebooks/blob/main/Datasets/
 Landsat Surface Reflectance.ipynb
- Sentinel-2 https://github.com/digitalearthafrica/deafrica-sandbox-notebooks/blob/main/Datasets/Sentinel_2.ipynb
- GeoMADs https://github.com/digitalearthafrica/deafrica-sandbox-notebooks/blob/main/Datasets/GeoMAD.ipynb