











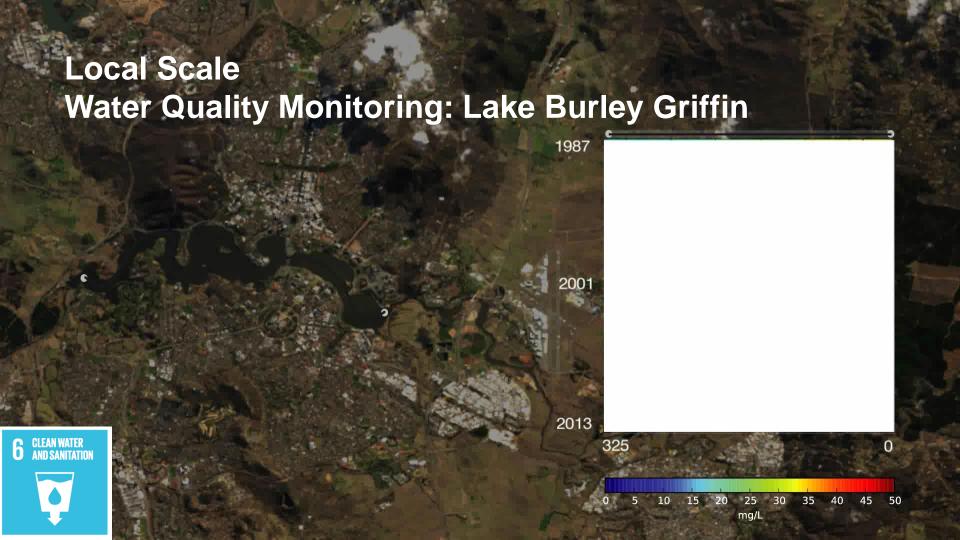
2000



green

dry

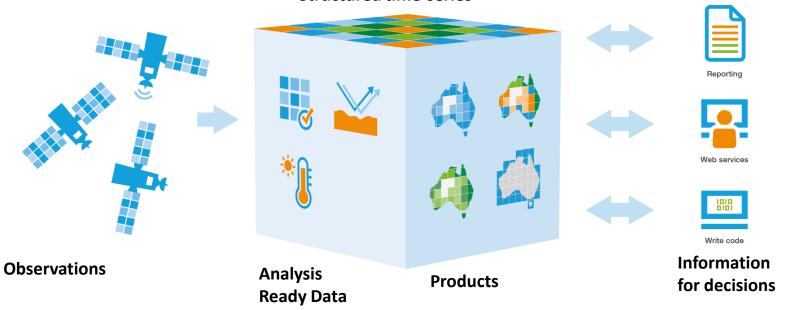
soil





## **Digital Earth Australia**

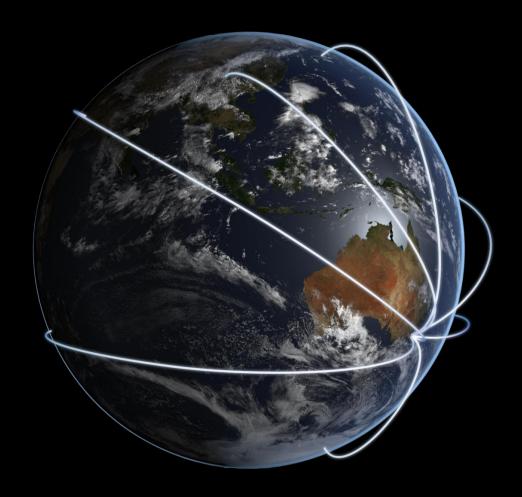
#### **Structured time-series**



# **Data Cubes for:**

Africa, Antarctica, China, India, Europe, North America, ...

Connecting the EO, Spatial and Statistical world to support global SDGs?











**Digital Earth Africa** will provide an operational data infrastructure deployable in the cloud or locally that gives the government control over its management. The project will support a multi-stakeholder and data ecosystem approach.







































#### **Countries**

- Tanzania
- Kenya
- Senegal
- Sierra Leone
- Ghana
- Uganda
- South Africa
- Rwanda
- Botswana
- Cote d'Ivoire
- Malawi
- Gabon
- Ethiopia

#### **Use Cases**

- Agriculture
- Land degradation
- Water quality and extent
- Disease/pests
- Deforestation
- Illegal mining
- Urban growth
- Flood risk
- Unplanned settlements
- Wildfires
- Mangroves
- Landslides
- SDG indicators

#### **Stakeholders**

- Geoscience Australia
- Group on Earth Observations (GEO)
- Committee on Earth Observations (CEOS)
- World Economic Forum
- South Africa National Space Agency (SANSA)
- Kenya Office of the Deputy President
- Global Partnership for Sustainable Development Data
- CGIAR
- UNFCA
- Africa Union
- AfDB
- RCMRD
- AGRHYMET



















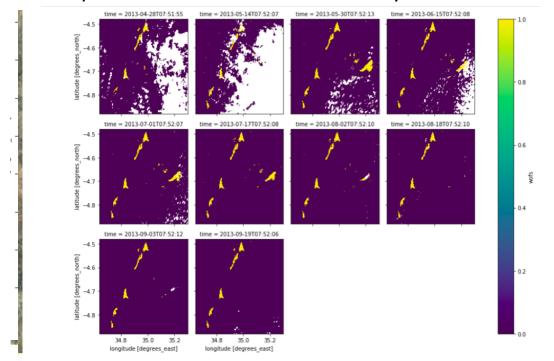


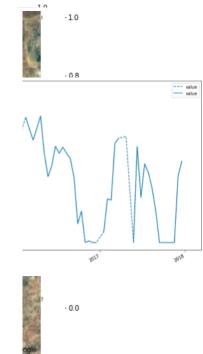
Phase 1 Steering Committee

## Drought resilience workflow- Tanzania



#### 































- Regular decision ready product / not research
- Automated, run for every pixel for entire continent
- Levering off other ODC developments
- New institutional home- (Host TBD)~30 staff
- Flexible cloud/HPC Infrastructure
- Funded for production of product and capacity building/App development
- Multilateral effort, not owned by one country
- Products free and open and available to every African













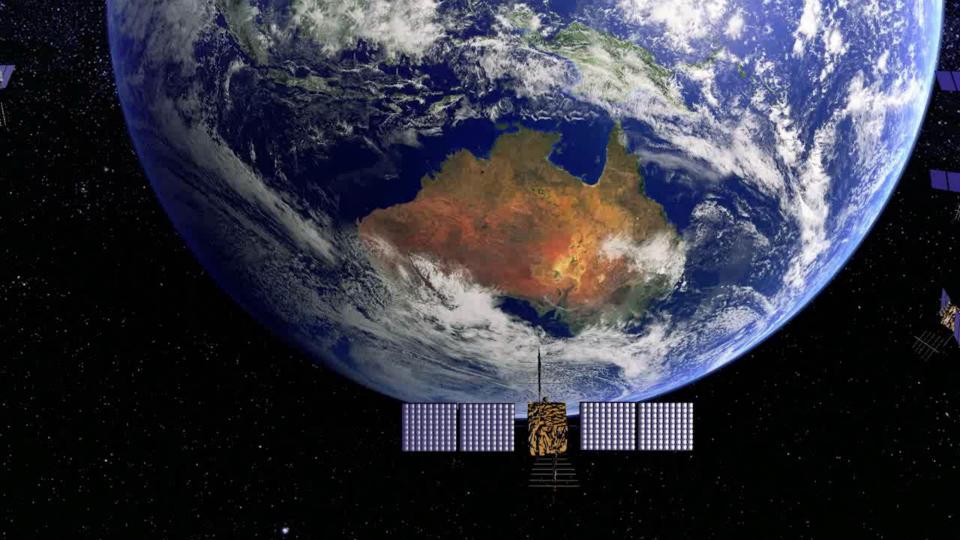


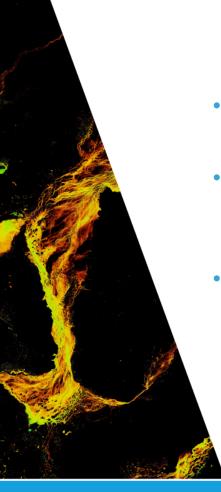












### How can we make this a global story?

- Through the Group on Earth Observations we have global free and open EO data (notably Landsat and Copernicus)
- Open Data Cube provides an open source tool to create data cubes and generate this geospatial value anywhere on the planet. Join the global ODC effort and contribute!
- By all means develop your own national data cube, but don't just stop there!....we must work together to bring operational data cubes to the world and deliver value to every region, country and citizen. Leaving no-one behind!

Australia, Africa.....where next?

