

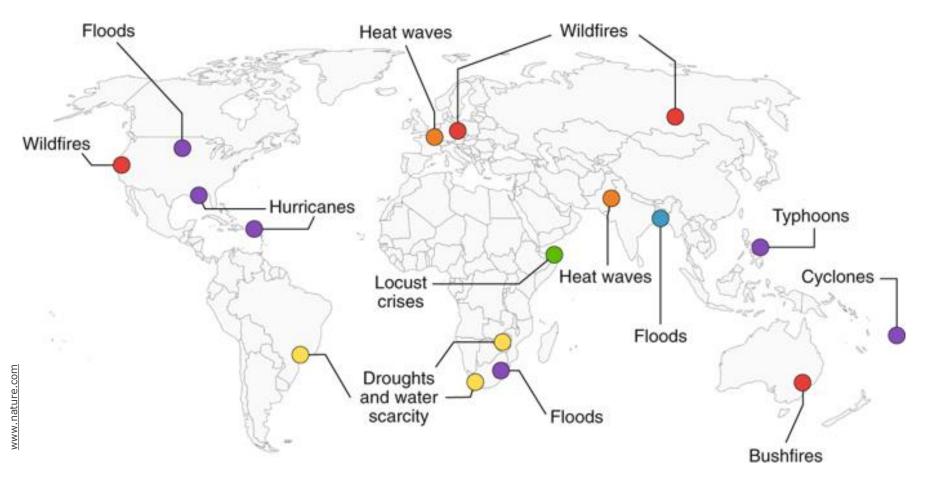
More Space for Global Cooperation on Climate Action A glimpse at the ESA partnership with Intl. Financial Institutions (IFIs)

Christoph Aubrecht European Space Agency (ESA) Directorate of Earth Observation Programmes Program Coordinator, Global Development Assistance

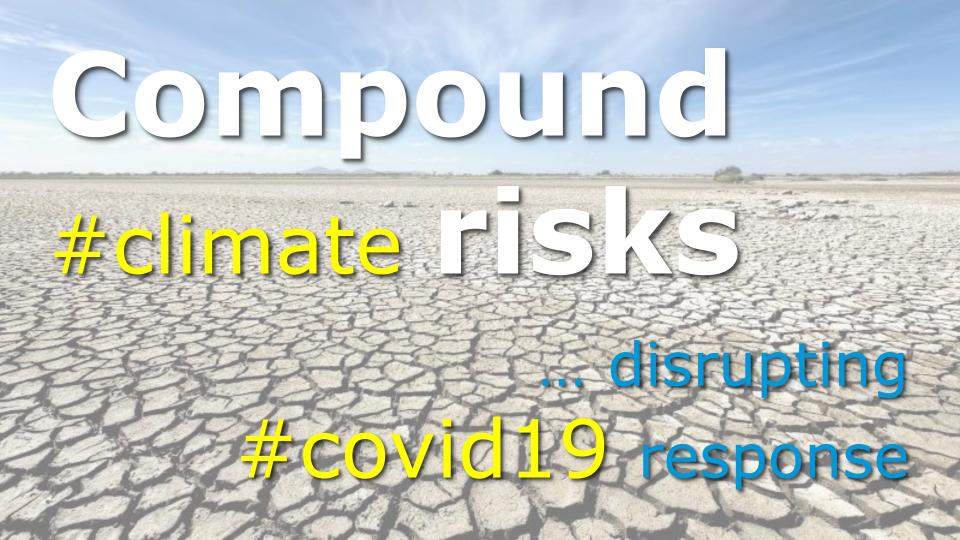
UN/Austria Symposium 2020 – Space Applications for SDG 13 | 3 Sep 2020 International cooperation and best practices for Climate Action

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European Space Agency



Phillips et al. (2020) Nature Climate Change, 10, 586-588.



" Collecting rich data on the world's problems is the first step toward fixing them."

- Seth Stephens-Davidowitz, former Google Data Scientist -



Make Change visible and actionable

countries .. continents .. the clobe

fields to

Make Change visible and actionable

countries .. continents .. the clobe

fields to

social indicators

Mironmente Indicators

EO for People & the Planet

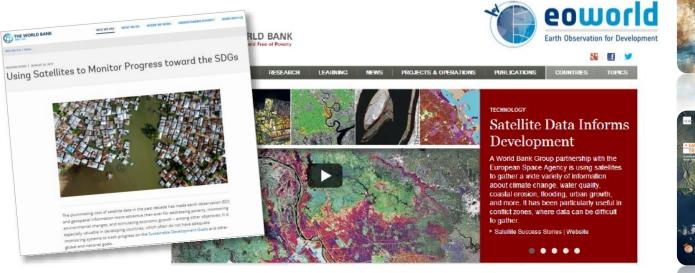
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EO for Sustainable Development

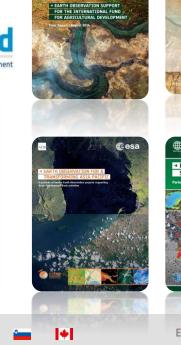


Promoting geo-data literacy and use in international development

- 65+ small-scale demonstrations of EO services in support of IFI projects during 2008-2016
- World Bank, ADB, IADB, IFAD, IFC, EIB, EBRD



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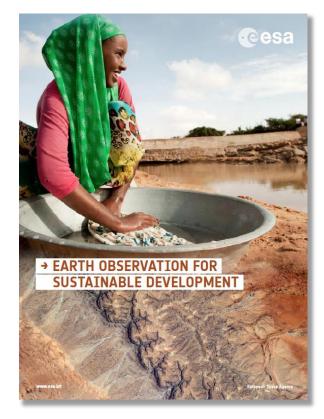




European Space Agency

EO for Sustainable Development

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Phase 1 (3 years | 2016-2020 | 25 m€): Consolidate Requirements, engage stakeholders (IFIs & Client States) via regional demonstrations of EO

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- Phase 2 (5 years | 2020-2024 | ~100 m€):
 Mainstream & transfer EO into operational working processes & financing of ODA/development aid as `best-practice' source of geo-information (M&E, safeguards, etc.)
- Thematic priority areas & strategic agreements: Urban Development, Agriculture/Rural, Water Resources, Disaster Risk Reduction, Climate Resilience, Fragility, Marine/Coastal, Forests



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EO fostering climate resilience



- EO information plays a crucial role in sustainable development and climate resilience
- Proven its value across many sectors of society (e.g. agriculture, forestry, urban planning)

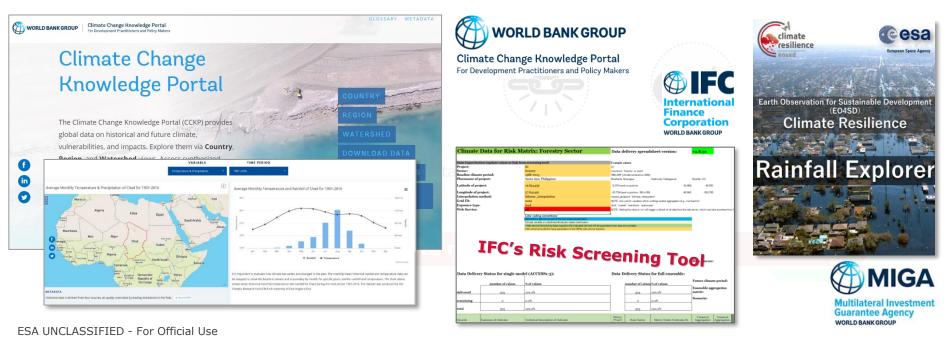


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EO fostering climate resilience

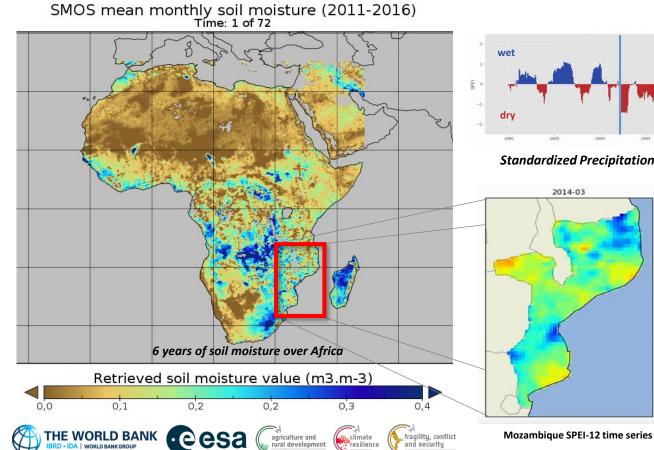


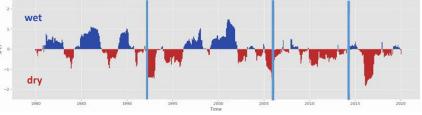
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EO and Food Security







Standardized Precipitation Evapotranspiration Index (1980-2020)

 $^{-1}$

-2

From satellite & other geospatial data to drought indicators and spatiallyspei o explicit **impact** indexes that

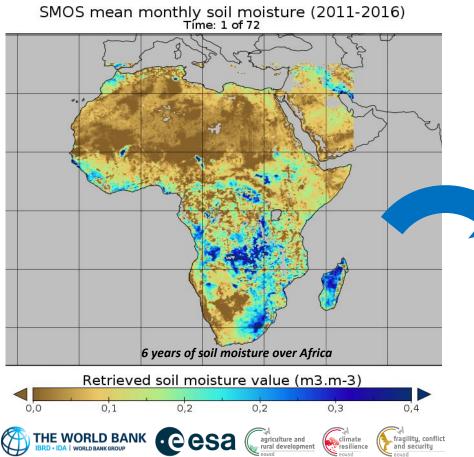
inform **policy** making

AGRHYMET

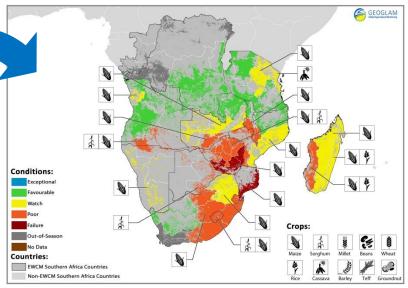


EO and Food Security



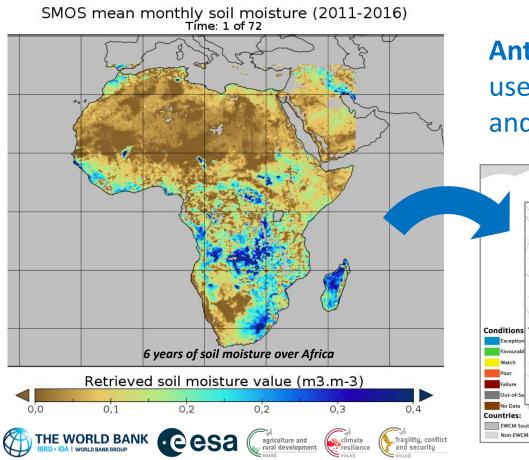


Anticipated crop failure can be used to assess food security and predict & prevent famine

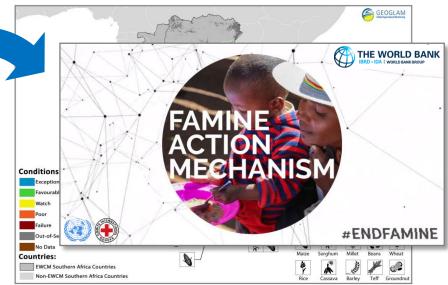


EO and Food Security





Anticipated crop failure can be used to assess food security and predict & prevent famine



Promoting geo-data literacy and use in Intl. Dev.





Since the start of the ESA collaboration with IFIs we worked with more than 100 service providers from more than 20 different countries

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From Piloting to Mainstreaming





STORY HIGHLIGHTS

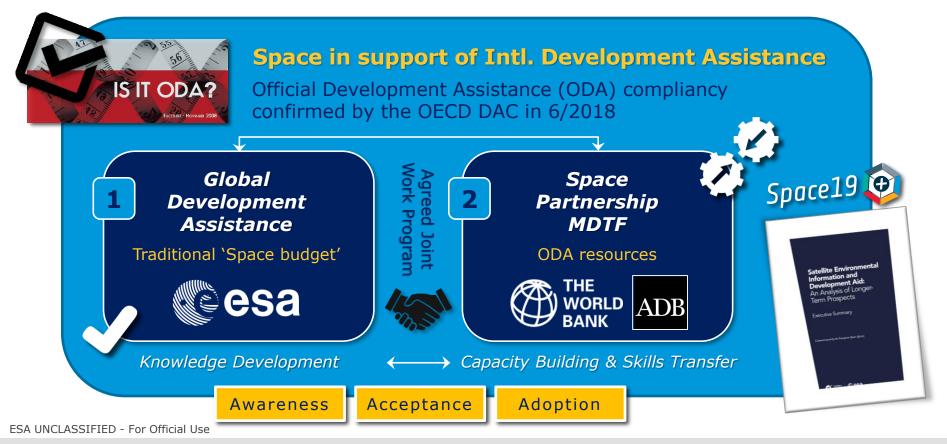
- In fiscal year 2020, the World Bank Group allocated nearly \$21.4 billion to climaterelated investments, surpassing its climate-finance target for the third year in a row.
 - Bank Group climate finance exceeded \$83 billion over the 5 years that the first Climate Change Action Plan (2016-2020) was in effect.



1998

EO in Intl. Dev. - From Piloting to Mainstreaming





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" All of us have always been

fascinated by the **potential**

that this technology gives us

in the development space.

Now it has gone **beyond**

the fascination. Now we

are entering a stage where

we can actually turn the

[geospatial data] into real

[policy] decisions."

Thank you

for your attention