





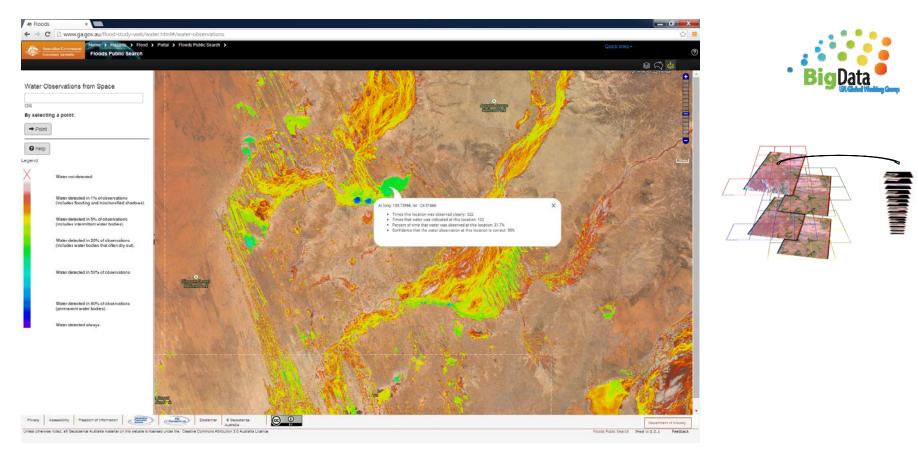








Land cover over time. Copernicus sentinel data 2015, ESA



Water observations over Australia based on the Australian Geoscience Data Cube



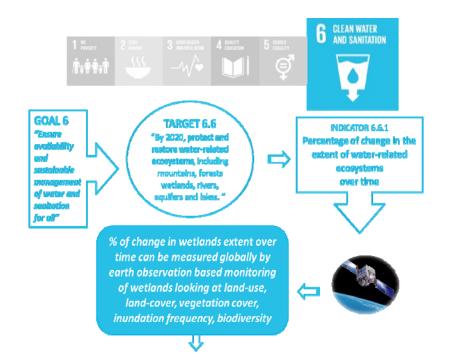


Land cover map for Colombia using 2011 \pm 2 years of MODIS NDVI and surface reflectance MOD13A1 data, filtered for low-quality observations and adding elevation (TS-F-C2-E)

http://www.mdpl.com/2072-4292/7/12/15833/htm



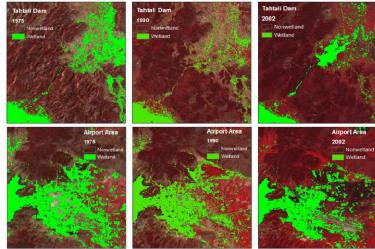




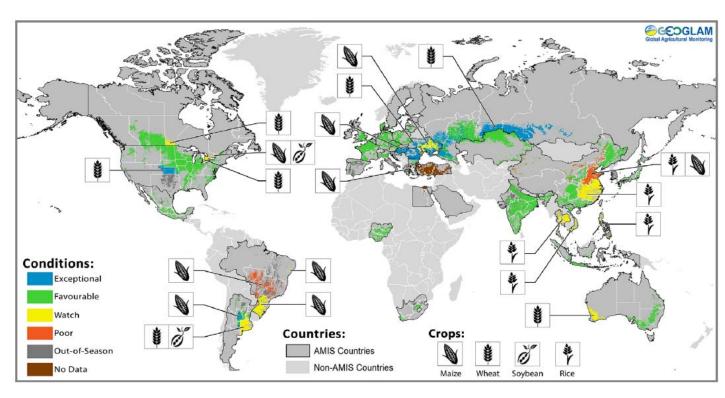


Multi-temporal Wetland Identification and Delineation products (Landsat 1975, 1990, and 2002) for exemplary sites between Izmir and Bodrum (upper part: region around Tahtali Dam; lower part: Bodrum airport area).

http://www.earthzine.org/wp-content/uploads/2011/12/Figure-3.jpg

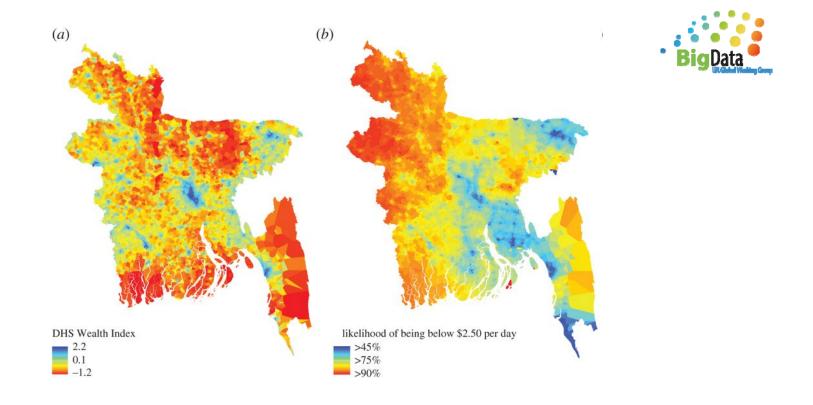






GeoGLAM Crop Monitoring.

EO in Service of the 2030 Agenda for Sustainable Development. Anderson et al. 2017



Combining EO and mobile phone data to obtain poverty estimates. Steele et al. 2017





Combining EO, Virtual Reality and drones





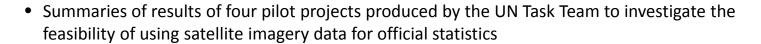
SDGs and EO data: satellite data used in a varied range of applications (GEO document)

UN Satellite Imagery and Geo-Spatial Task Team



Handbook

- Introduction to the use of earth observations data for official statistics
- Types of sources available
- Examples of using satellite imagery to measure the SDGs
- Methodologies for producing statistics from EO data



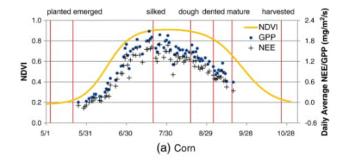
• Guidelines for National Statistical Offices when considering whether to implement EO data sources into their statistical production process

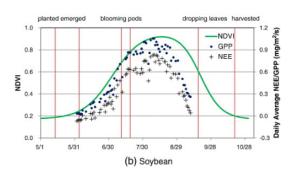


TT Handbook: Case Studies



- 1. Identify reliable and accurate statistical methods for estimating quantities of interest;
- 2. Suggest approaches for collecting representative training and validation data of sufficient quality;
- 3. Research, develop and implement assessment methods for the proposed models including measures of accuracy and goodness of fit;
- 4. Establish strategies to reuse and adapt algorithms across topics and to build implementations for large volumes of data.
 - Australia
 - Colombia
 - Canada
 - USA
 - South Korea
 - Others

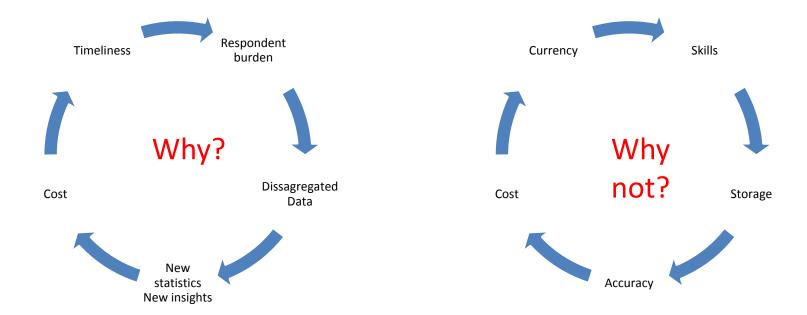




Gao et al. 2017

Value Proposition for Official Statistics



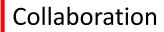


Addressing the "why not"



Takeup













































Academic & Research Community Support



Takeup

- How-to
- **Innovation**

Training

- Capability
- **Students**

THE GLOBAL GOALS For Sustainable Development



















Collaboration

- **Networks**
- **Secondments**



- Credibility
- Review

International Research Engagements





Australian Research Council Centre of Excellence
Mathematical & Statistical Frontiers:

Big Data, Big Models, New Insights

Advisory Committee





































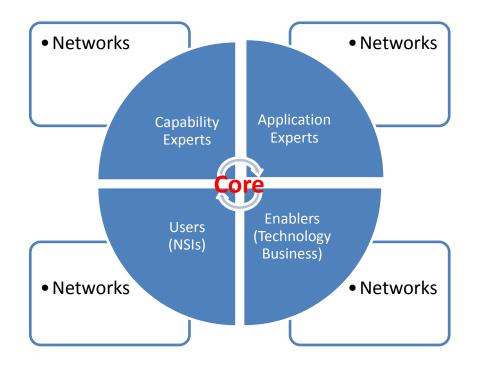




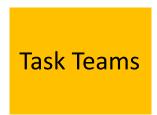
Applications

	EO	Phone	Scanner	Other
Providers				
Processors				
Analysts				
Users				

Advisory Committee







THE GLOBAL GOALS









