

The Global Earth Observation System of Systems (GEOSS)

India 2014 Geospatial Forum

Barbara J. Ryan Director, GEO Secretariat

Hyderabad, India 5 February 2014







A Global, Coordinated, Comprehensive and Sustained System of Observing Systems







Created in 2005, to develop a coordinated and sustained Global Earth Observation System of Systems (GEOSS) to enhance decision making in nine Societal Benefit Areas (SBAs)

GEO today:

90 Members

77 Participating Organizations







77 Participating Organizations





















































DIVERSITAS

























































EUMETNET

EUROPIAN METEOROGICAL SERVICES NETWORK





EUMETSAT

















A broad Commercial Sector spans the entire information value chain

Data providers











Value-Added providers







Downstream users











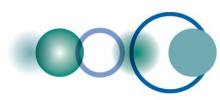


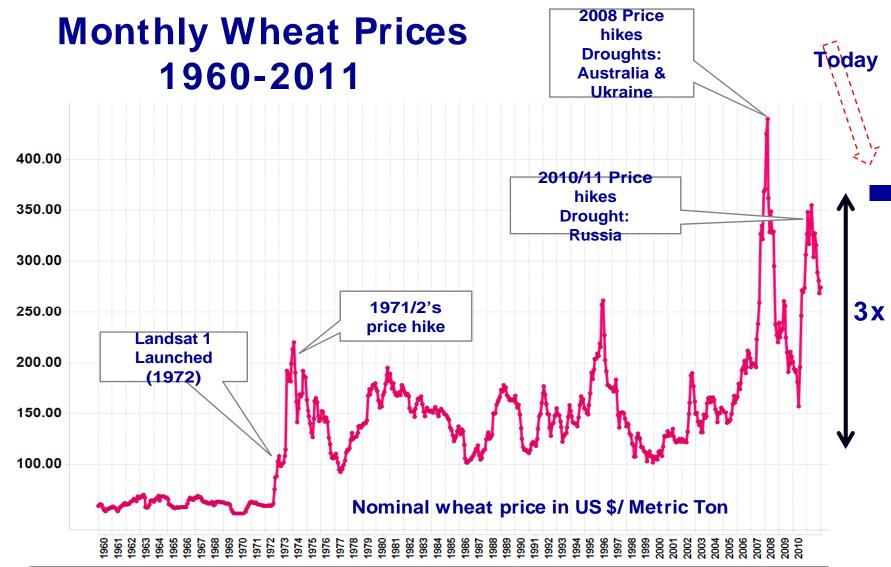


GEO Objectives

- Improve and Coordinate Observation Systems
- Advance Broad Open Data Policies/Practices
- Foster Increased Use of EO Data and Information
- Build Capacity







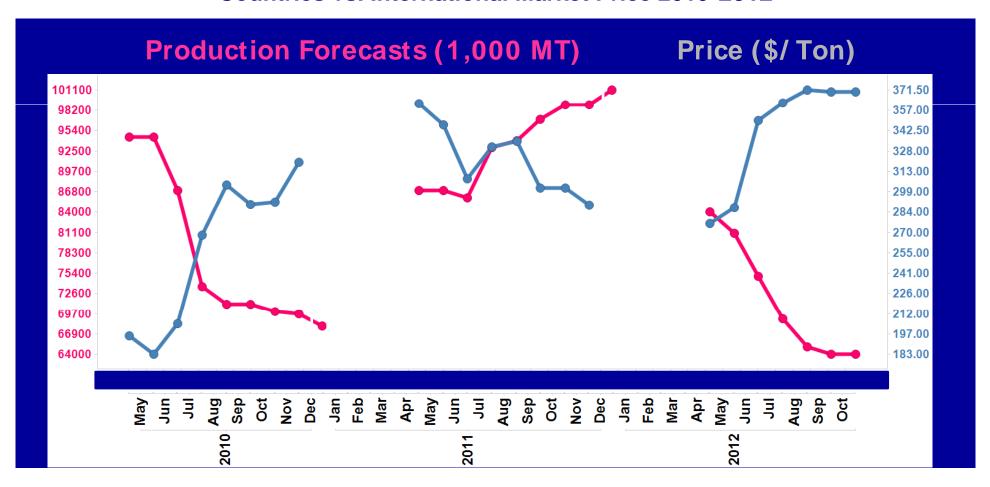
Source: World Bank





Making the case for improved crop forecasts

Aggregation of Wheat Production Forecasts from Main Wheat Export Countries vs. International Market Price 2010-2012







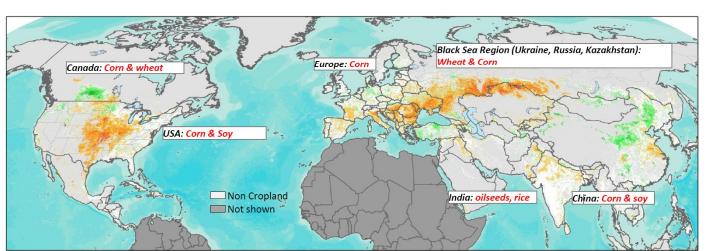


Crop Information for Decision-Making (Canada, China, EC, France, Japan, Kazakhstan, India, Mexico, Russia, USA, CEOS, FAO)





Northern Hemisphere NDVI Crop Anomaly, August 13th, 2012



Crop NDVI Anomaly

-0.4 0 0.4

Worse than normal Better than normal

- Observed highlights:
- Drought conditions persist in US, south eastern Ukraine, Russia, and Kazakhstan, with slight improvement in some areas in northern Kazakhstan
- Rains in India mitigate dry conditions

* GEOGLAM part of G20 Action Plan on Food Price Volatility

GEOGLAM

- * New crop outlook
- * Rice crop monitoring
- * Draft space strategy









Market Monitor













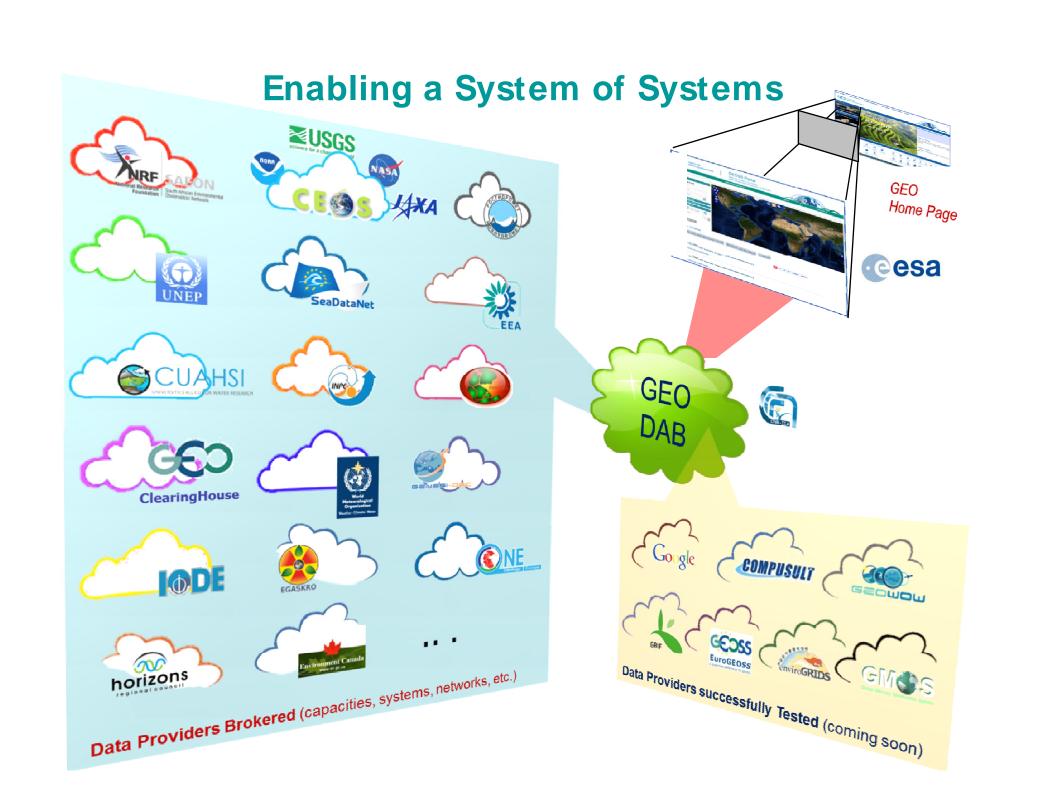














Current Assets





About 20 brokered data providers – capacities, systems, Communities









More than 7 Million (1.2 Million GEOSS Data Core) Discoverable and potentially Accessible resources (mix of data collections, datasets and individual images)



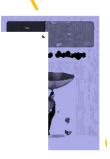


Contain [source: data providers]



More than 65 Million (50 Million GEOSS Data Core) Discoverable and potentially Accessible granules (e.g. satellite scene, raingauge record)



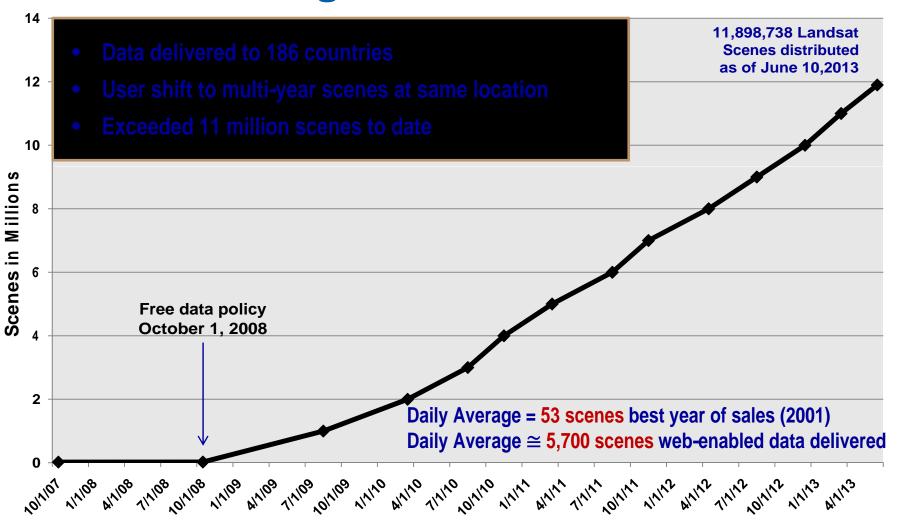


Resources





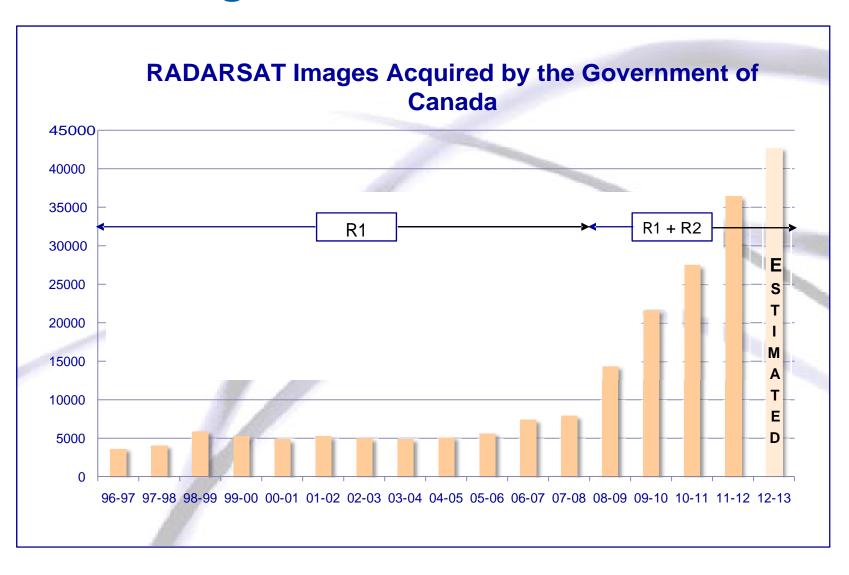
Increasing Demand for Landsat Data





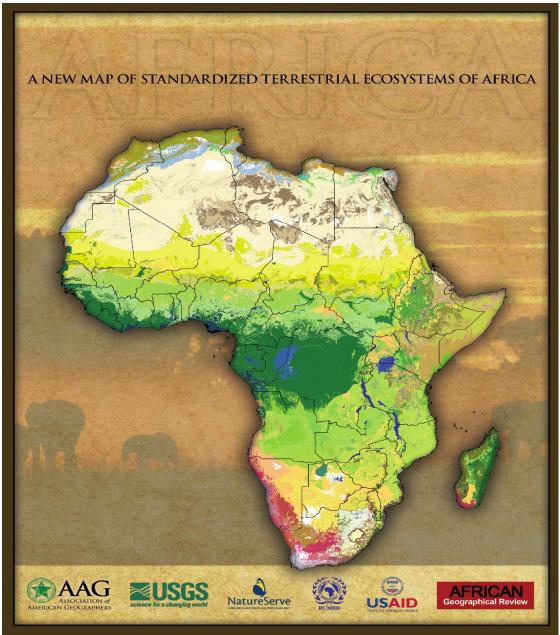


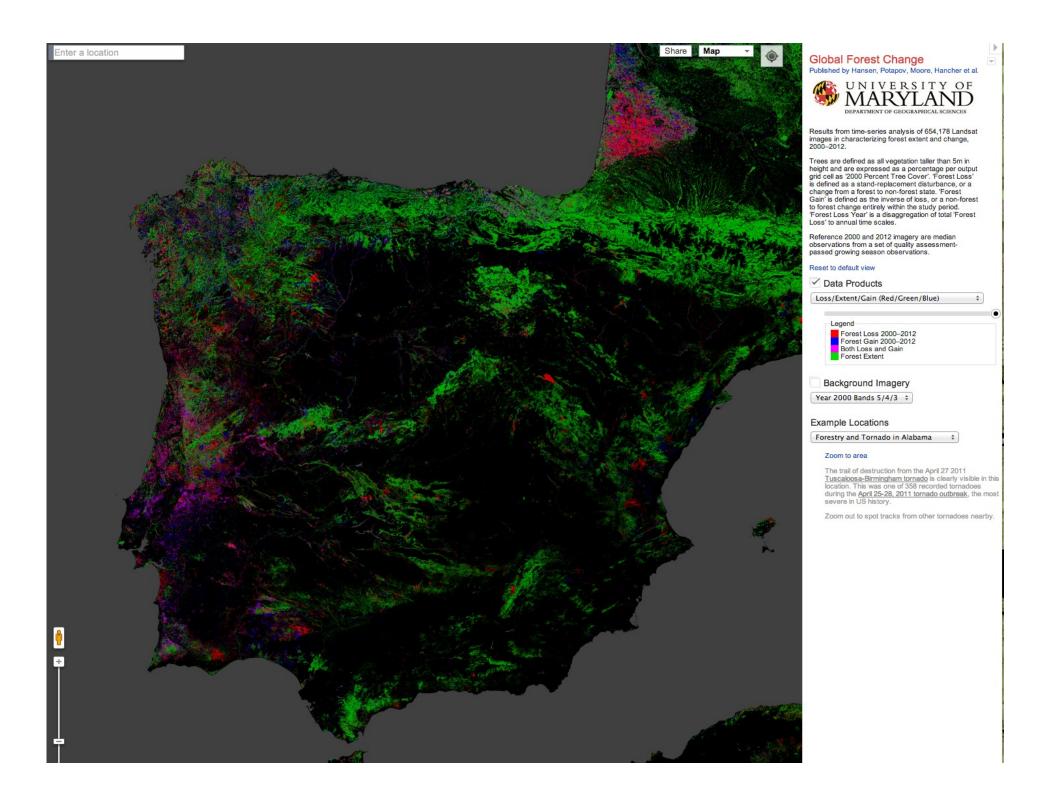
Increasing Demand for RADARSAT Data















Summary

- Broad open data policies/practices essential for publically funded collections
- Economic value in downstream elements value-added products and services
- Broader stakeholder engagement needed particularly from the private sector for development of products and services
- National, Regional and International collaboration is essential







Geneva, Switzerland 5-9 May 2014

Pre-Conference Workshop – Monday, May 5th

Geospatial Industry Forging Ties with GEOSS: A Value Proposition Dialogue Forum



Barbara J. Ryan bryan@geosec.org

