



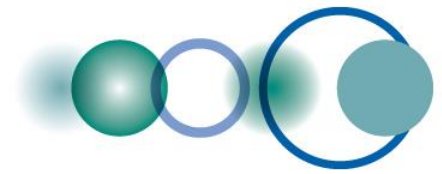
International Collaboration and Hyper-Partnering for Disaster Risk Reduction (DRR)

Joint ICA-GEO Workshop
Washington, D.C. USA

Barbara J. Ryan
Director, GEO Secretariat

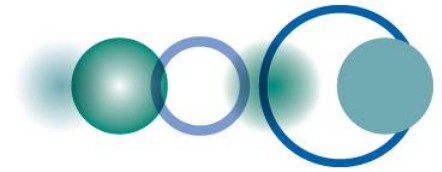
03 July 2017



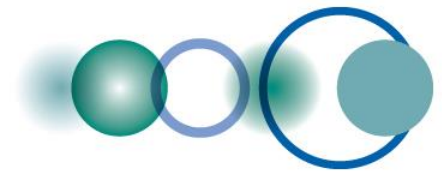


Key Messages

- **Collaboration at national, regional and international levels is essential – hyper-partnering, radical sharing -- e.g. creating interdependencies similar to interdependencies in healthy biological ecosystems;**
- **Broad, open data policies must be advanced to leverage existing and planned national, regional and global investments in Earth observations and geospatial data; and**
- **Advancements in technologies for terrestrial applications will aid efforts along the entire DRR spectrum.**

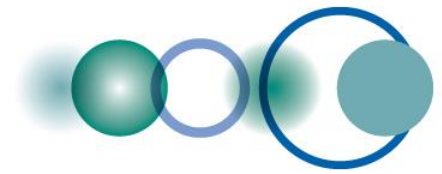


**GEO – an Intergovernmental
organisation focusing on open
Earth observations – insights for
decision making.**



GEO Vision

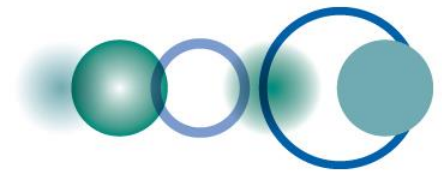
**To realize a future
wherein decisions and actions,
for the benefit of humankind,
are informed by
coordinated, comprehensive & sustained
Earth observations & information.**



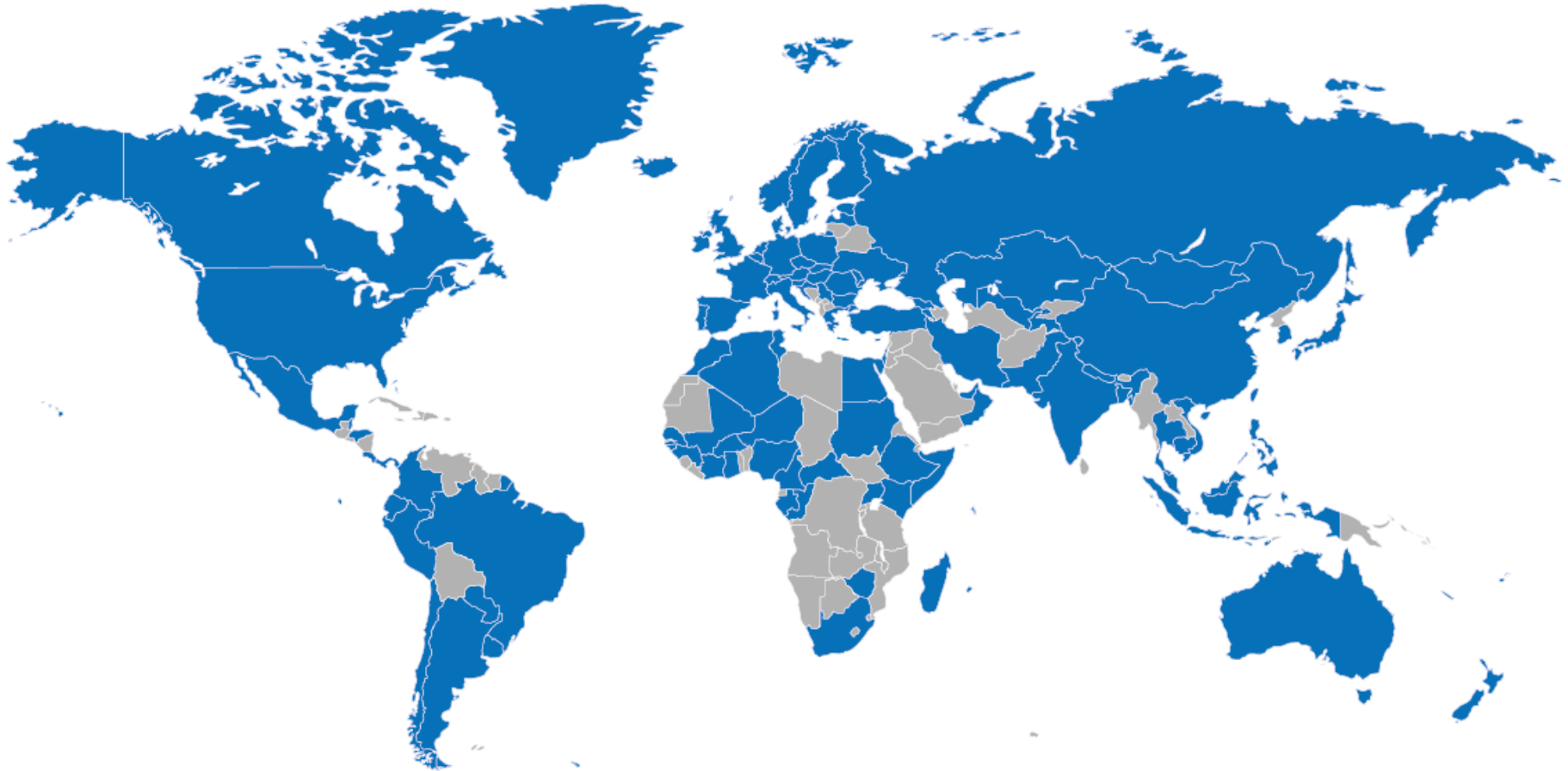
Integrating Earth Observations across Many Platforms and Domains to Benefit Society



Climate (and DRR) cuts across all Societal Benefit Areas (SBAs)

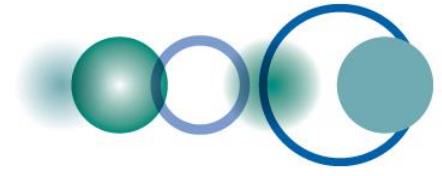


105 GEO Members

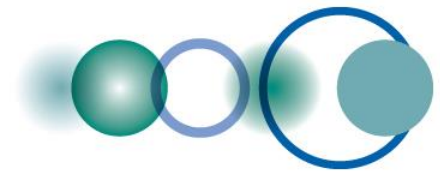


Africa: **27** - Asia/Oceania - **21**, Europe: **34** - C.I.S: **7** - Americas: **16**

Total: 105



109 Participating Organizations

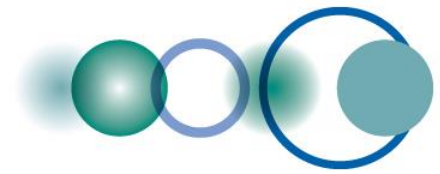


High level commitment to use EO for policy



Ministerial Declaration , GEO Plenary XII, Mexico City, 2015

*“Affirm that GEO and its Earth observations and information will support the implementation of, inter alia, the 2030 Global Goals for Sustainable Development, **the Sendai Framework for Disaster Risk Reduction 2015-2030**, the United Nations System of Environmental and Economic Accounts, and the United Nations Framework Convention on Climate Change.”*



GEO Engagement Priorities 2017-2019



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21·CMP11

Climate Change
Greenhouse Gas Monitoring

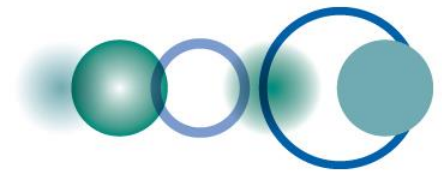


UN World Conference on
Disaster Risk Reduction
2015 Sendai Japan

Disaster Risk Reduction



2030 Agenda for Sustainable Development

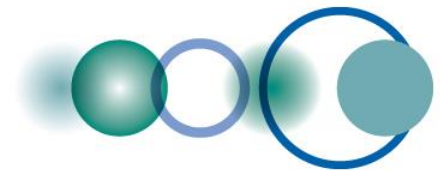


The Sendai Framework

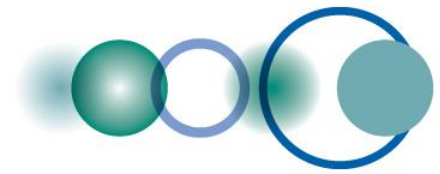


UN World Conference on
Disaster Risk Reduction
2015 Sendai Japan

GEO's Data Access for Risk Management (GEO DARMA) is building a Framework for the Integration of Earth Observation Technologies into Disaster Risk Reduction.

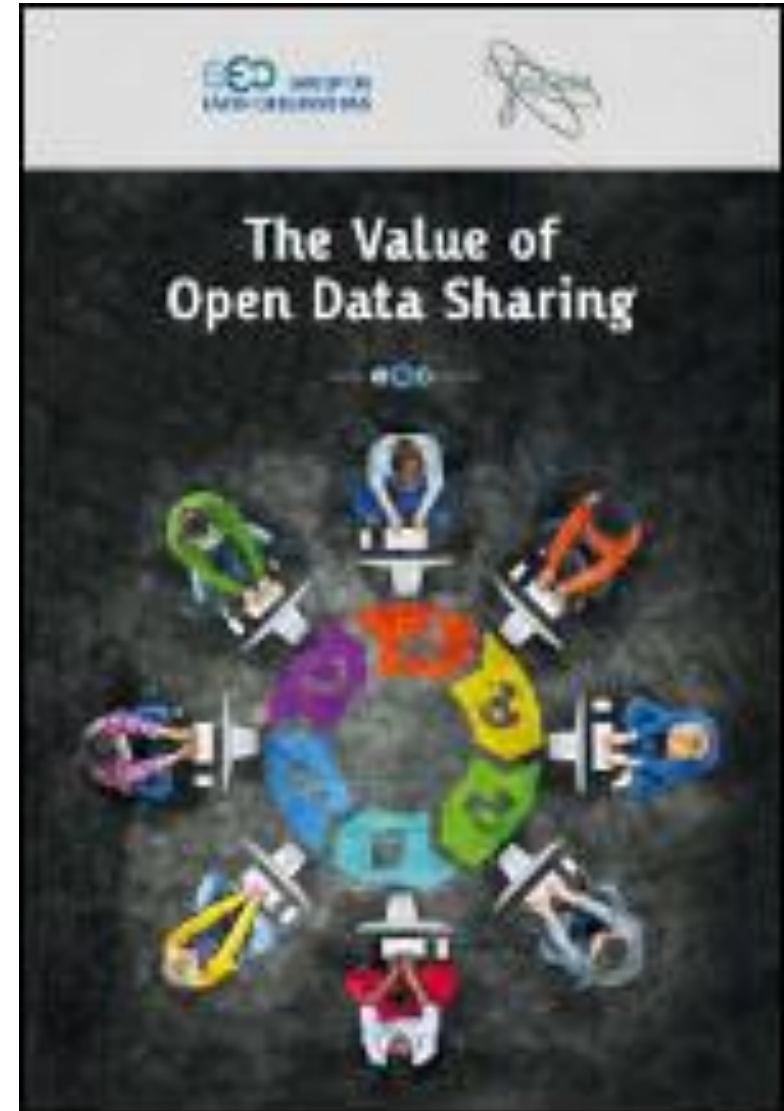


Usefulness of Earth observations increasingly recognized



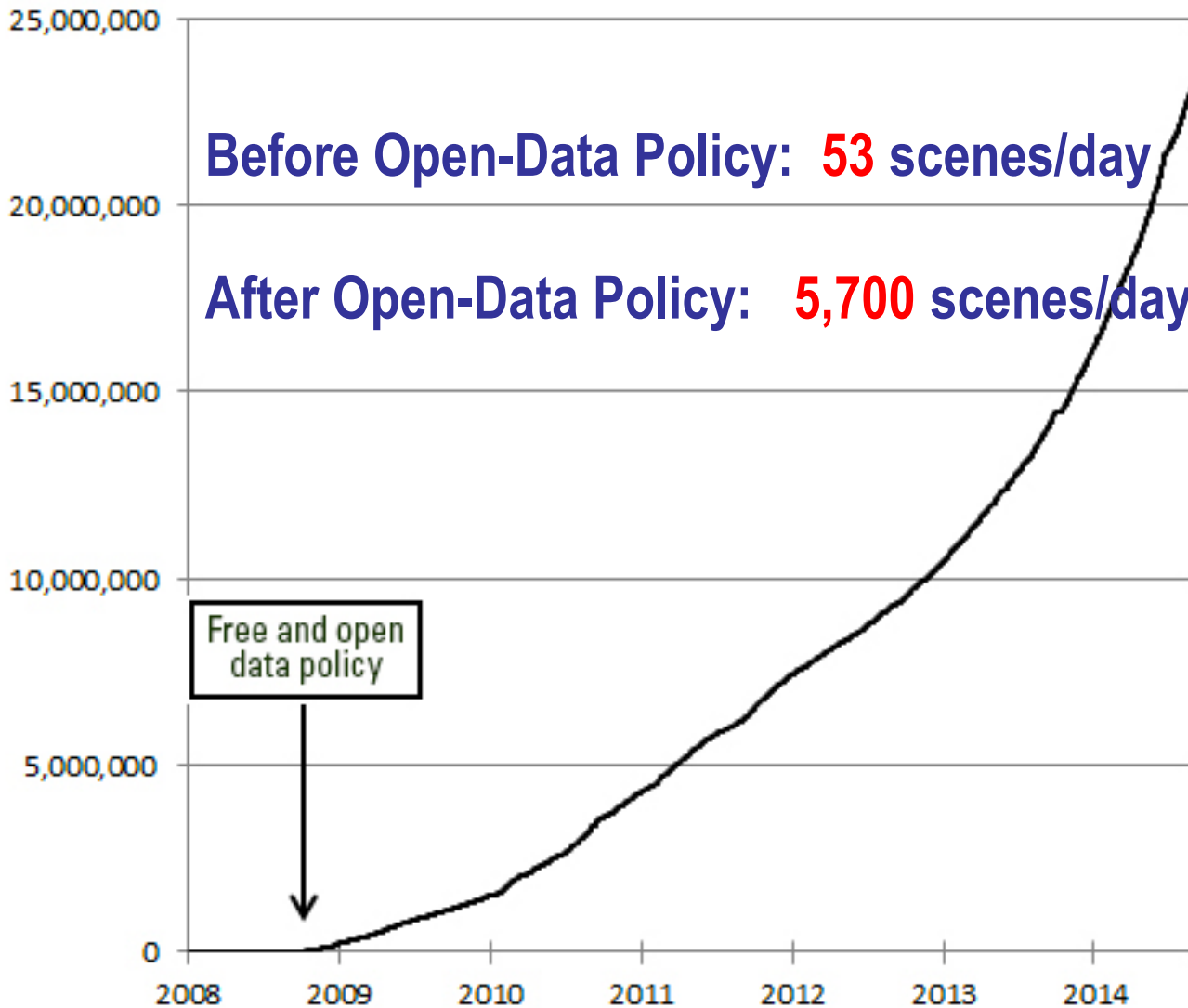
The Value of Open Data Sharing

- **Research & Innovation**
- **Education**
- **Capacity Development**
- **Effective Governance & Policy Making**
- **Social Welfare**
- **Economic Growth**



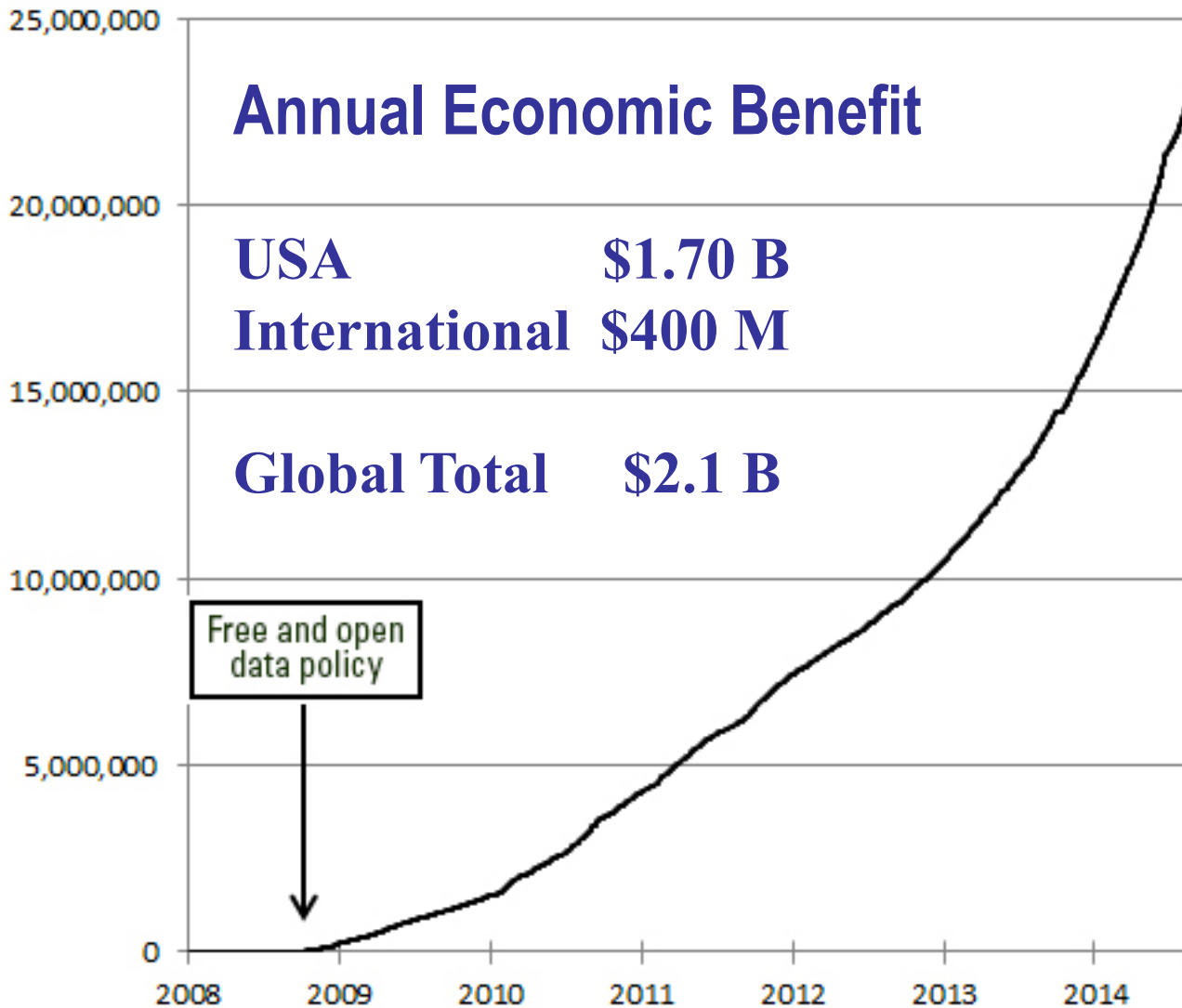


Landsat Scenes Downloaded from USGS EROS Center (Cumulative)





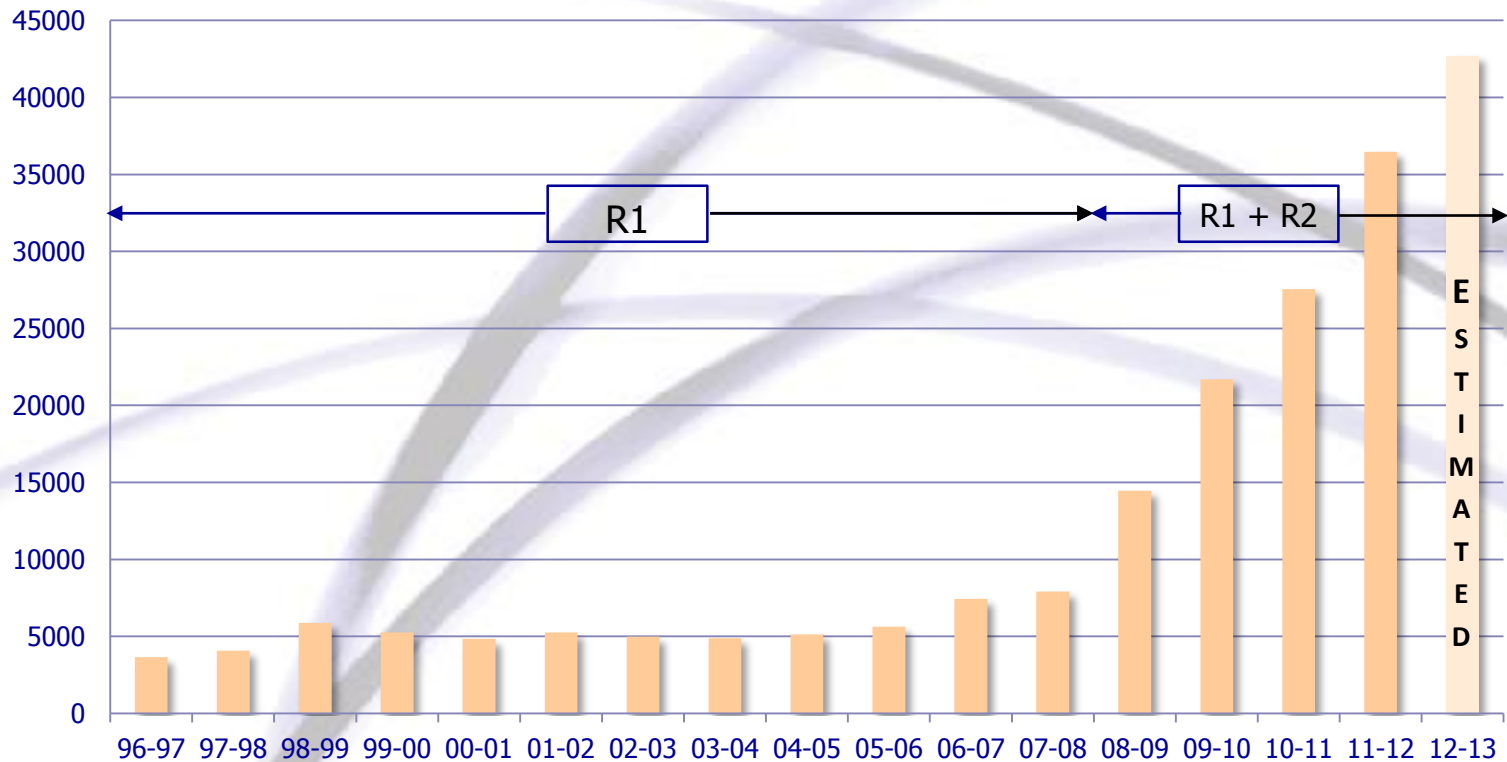
Landsat Scenes Downloaded from USGS EROS Center (Cumulative)





Canada's Experience

RADARSAT Images Acquired by the Government of Canada

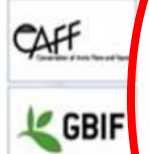


International Data Providers*

Environment



Biodiversity



Disasters



Energy



Food & Security



Satellites



Water



Health



Urban



Regional and National Providers*

Chile



China



France



Germany



Africa



Brazil



Canada



United Kingdom



India



Russia



South Africa



Spain



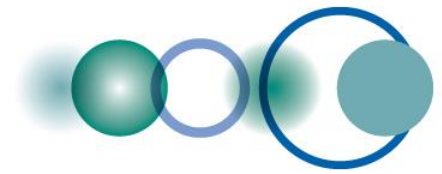
USA



Private Sector Providers

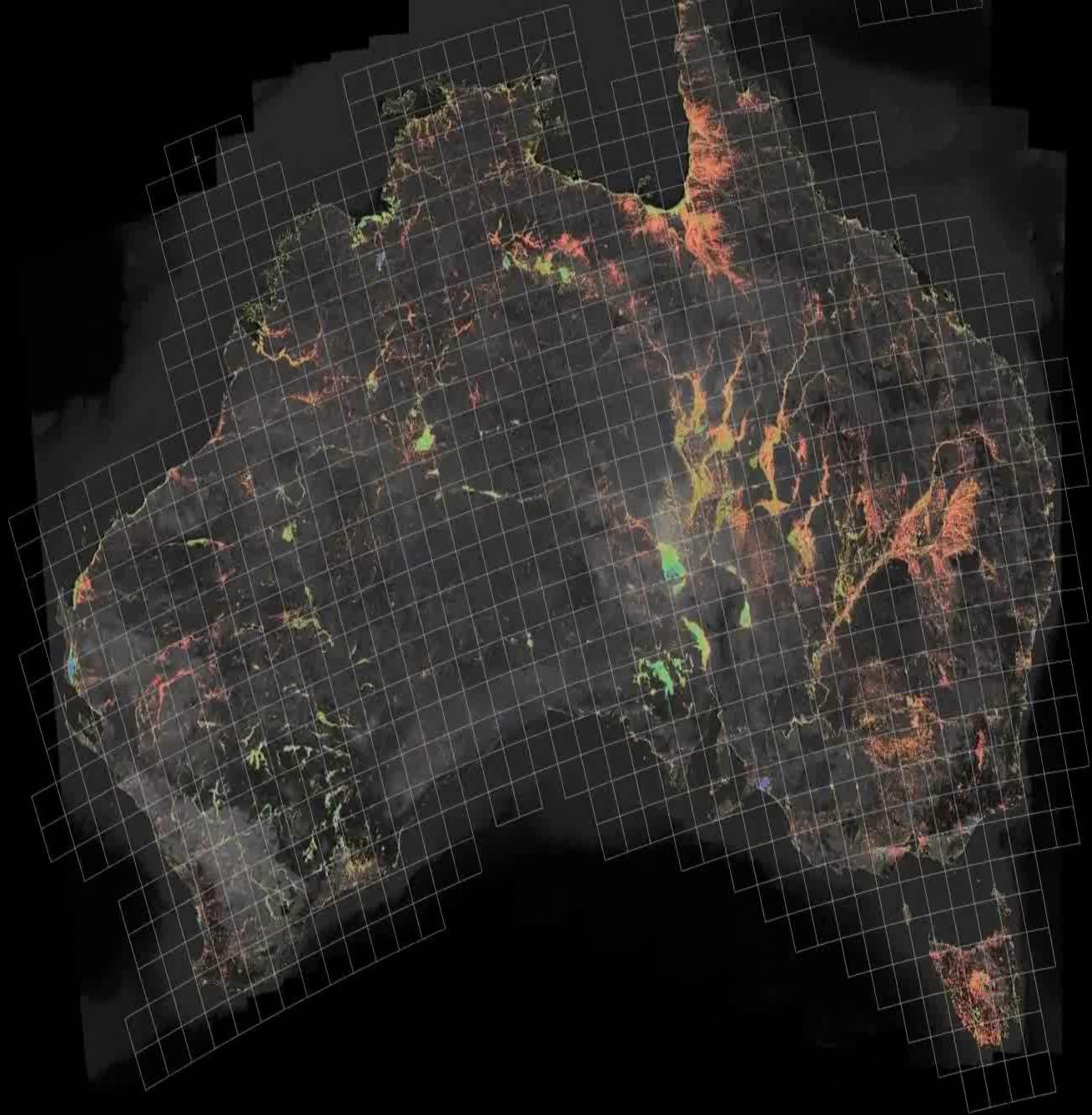


* more than a hundred in total



Brokering Organizations

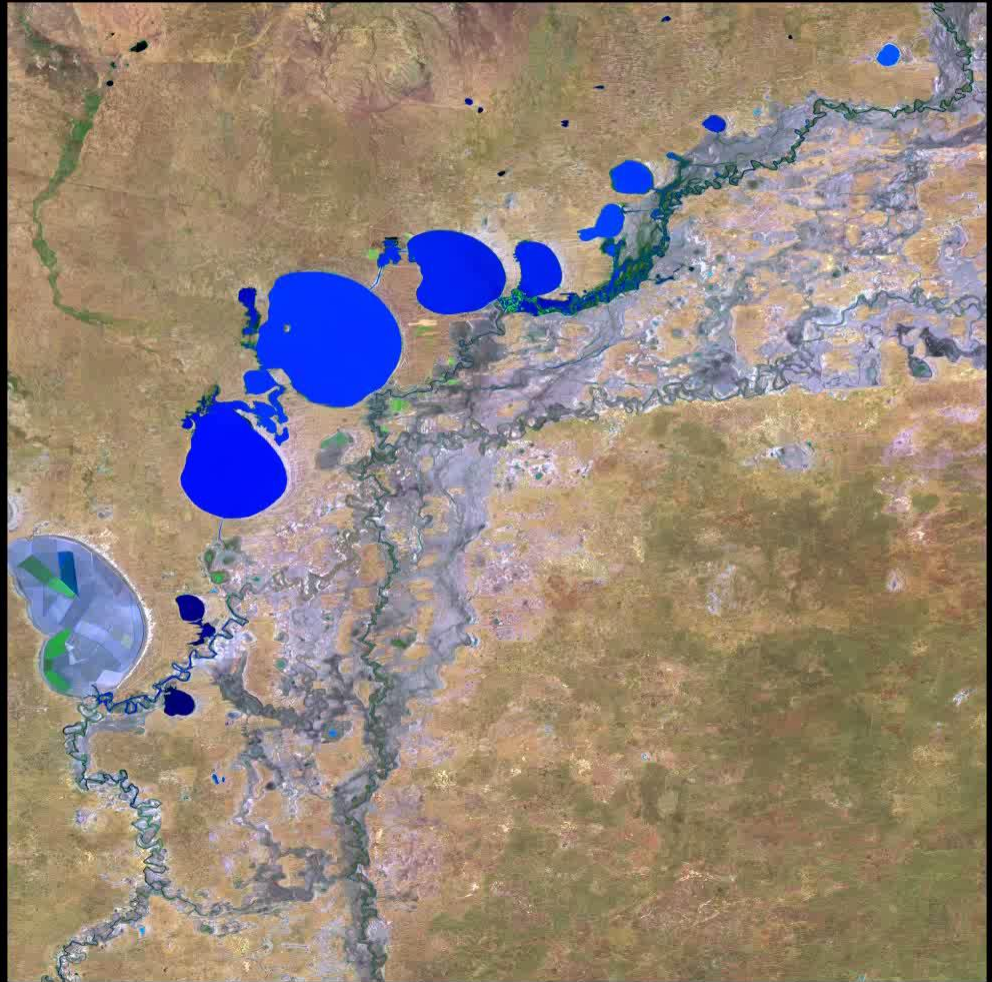




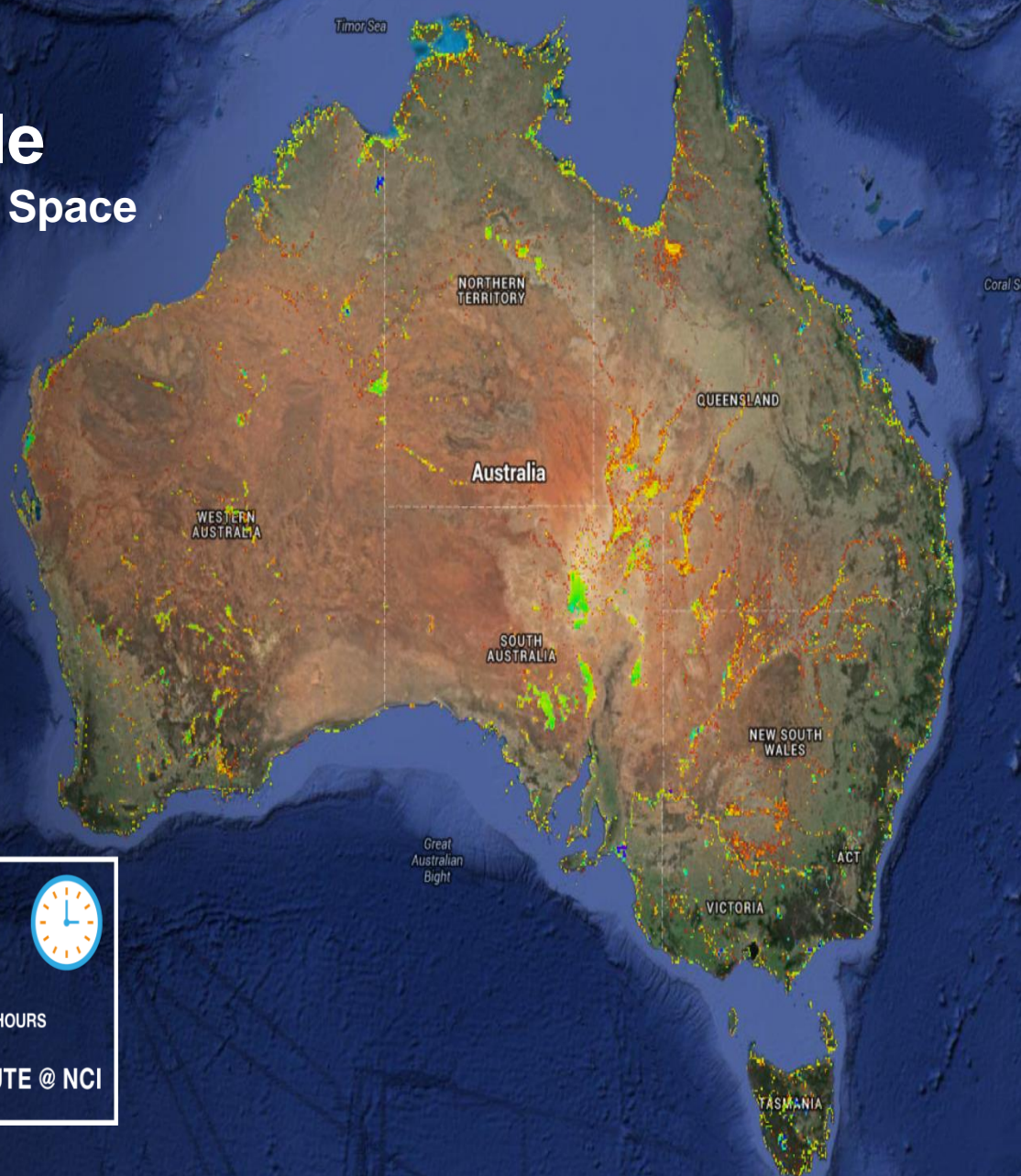
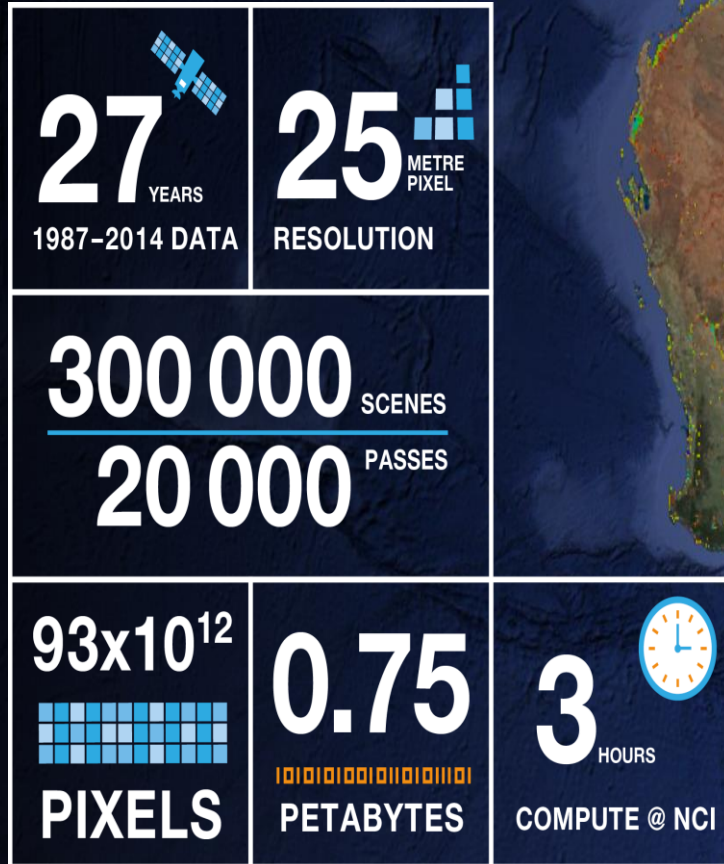
Surface Water Menindee lakes

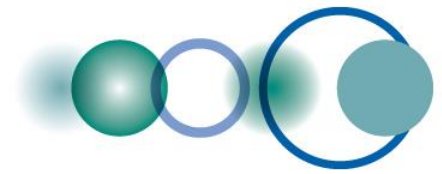
40 billion observations

15 minutes processing time



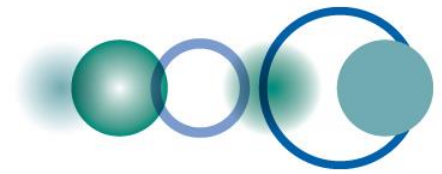
Continental Scale Water Observations from Space





Countries have borders; Earth observations don't.

**Barbara J. Ryan
Director, GEO Secretariat
Adapted from NY Times
September 2015**



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GEO-XIV Plenary

Washington, D.C.

23-26 October 2017

<http://www.earthobservations.org>



@GEOSEC2025



Group on Earth Observations



Group on Earth Observations

