



Policies and Programmes

GeoBuiz Summit
Bethesda, Maryland
11 August 2015

Barbara Ryan
Director, GEO Secretariat





GEO Vision

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



GEO Objectives

- **Improve and coordinate observation systems globally**
- **Provide access to data & information**
- **Advance broad open data policies/practices**
- **Build capacity**



A Global System of Systems





GEO Member States

GEO Member Map for the year 2015

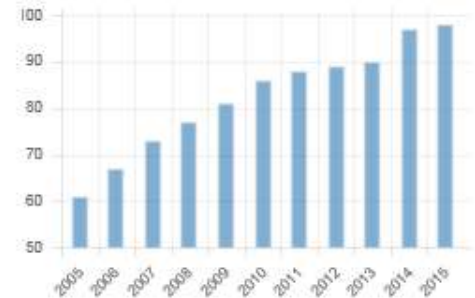


Number of Members (2015)

| | |
|---------------|----|
| Africa: | 25 |
| Americas: | 15 |
| Asia/Oceania: | 17 |
| C.I.S.: | 7 |
| Europe: | 34 |

| | |
|---------------|-----------|
| Total: | 98 |
|---------------|-----------|

Number of Members by year



2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015



87 Participating Organizations



Commercial Sector Spans information Value Chain

Data providers



Value-Added providers



Downstream users





A Broad Stakeholder Community

- Members & Participating Organizations

- UN Agencies/Treaties/Conventions

The image displays a diverse array of stakeholders. Key organizations highlighted include the **World Bank**, **Asian Development Bank (ADB)**, **EARS** (European Association of Remote Sensing Companies), **African Development Bank**, and **IGES** (Institute for Global Environmental Strategies). A large grid of smaller logos represents numerous other participating organizations and international agencies.



**“Uncertainty is the enemy of investment;
shared information is the antidote to
uncertainty.”**

Dylan Ratigan
Co-Founder, Helical Outposts



GEOSS Implementation Requires: *Data Sharing Principles*

- **Full and Open Exchange of Data**
- **Data and Products at Minimum Time Delay and at Minimum Cost**
- **Free of Charge or Cost of Reproduction**

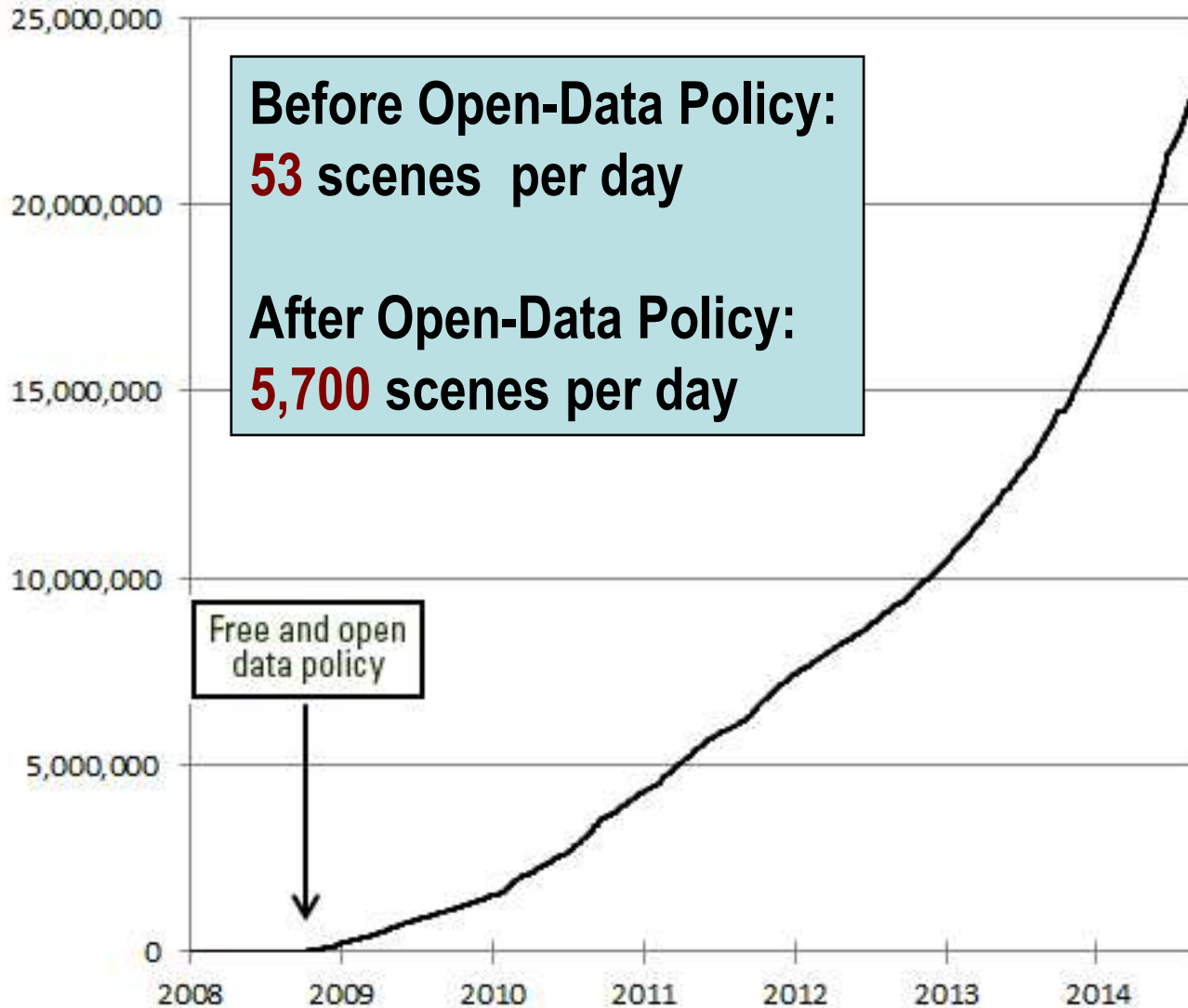




GEOSS Information System

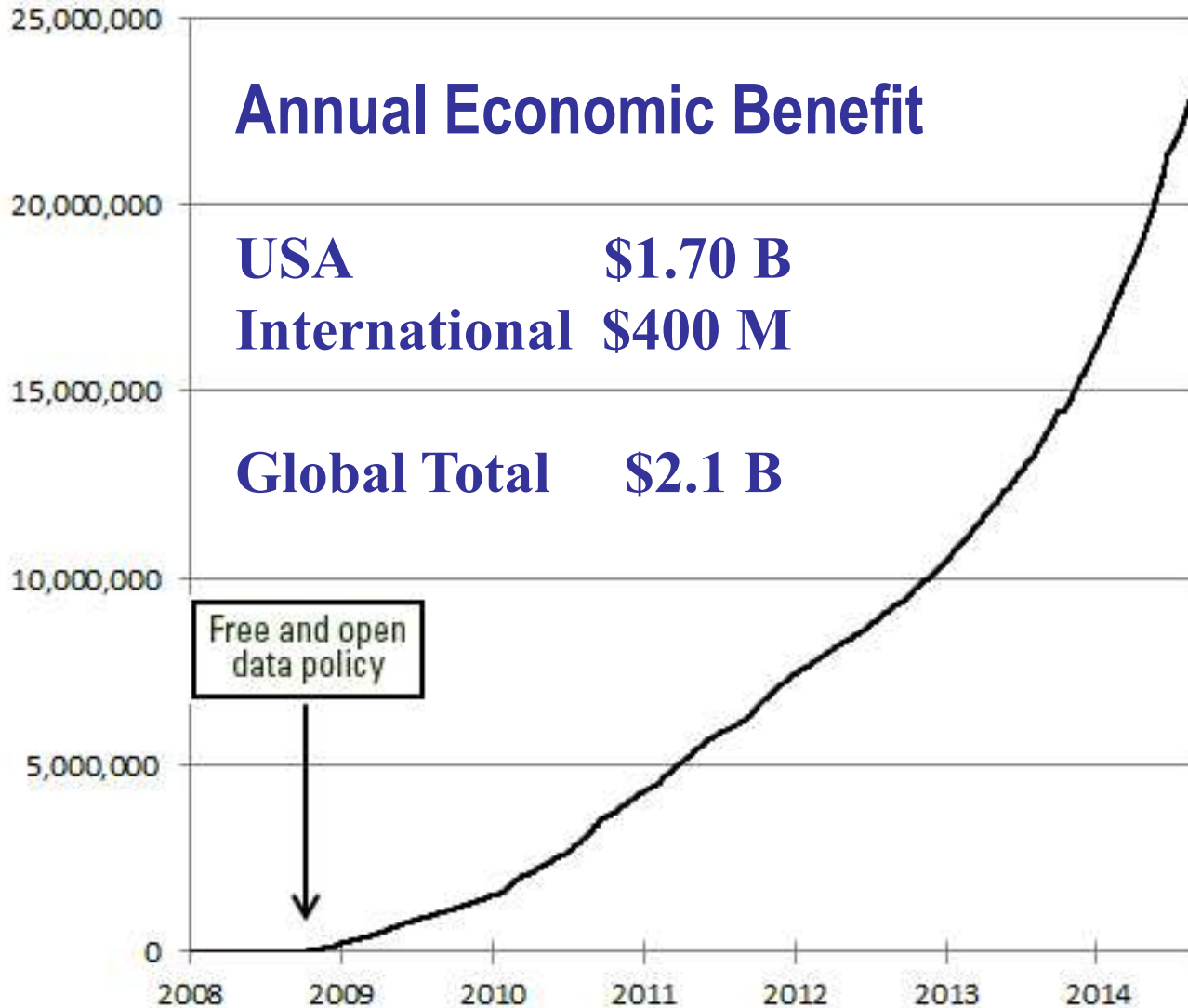


Landsat Scenes Downloaded from USGS EROS Center (Cumulative)





Landsat Scenes Downloaded from USGS EROS Center (Cumulative)



Annual Economic Benefit

USA \$1.70 B

International \$400 M

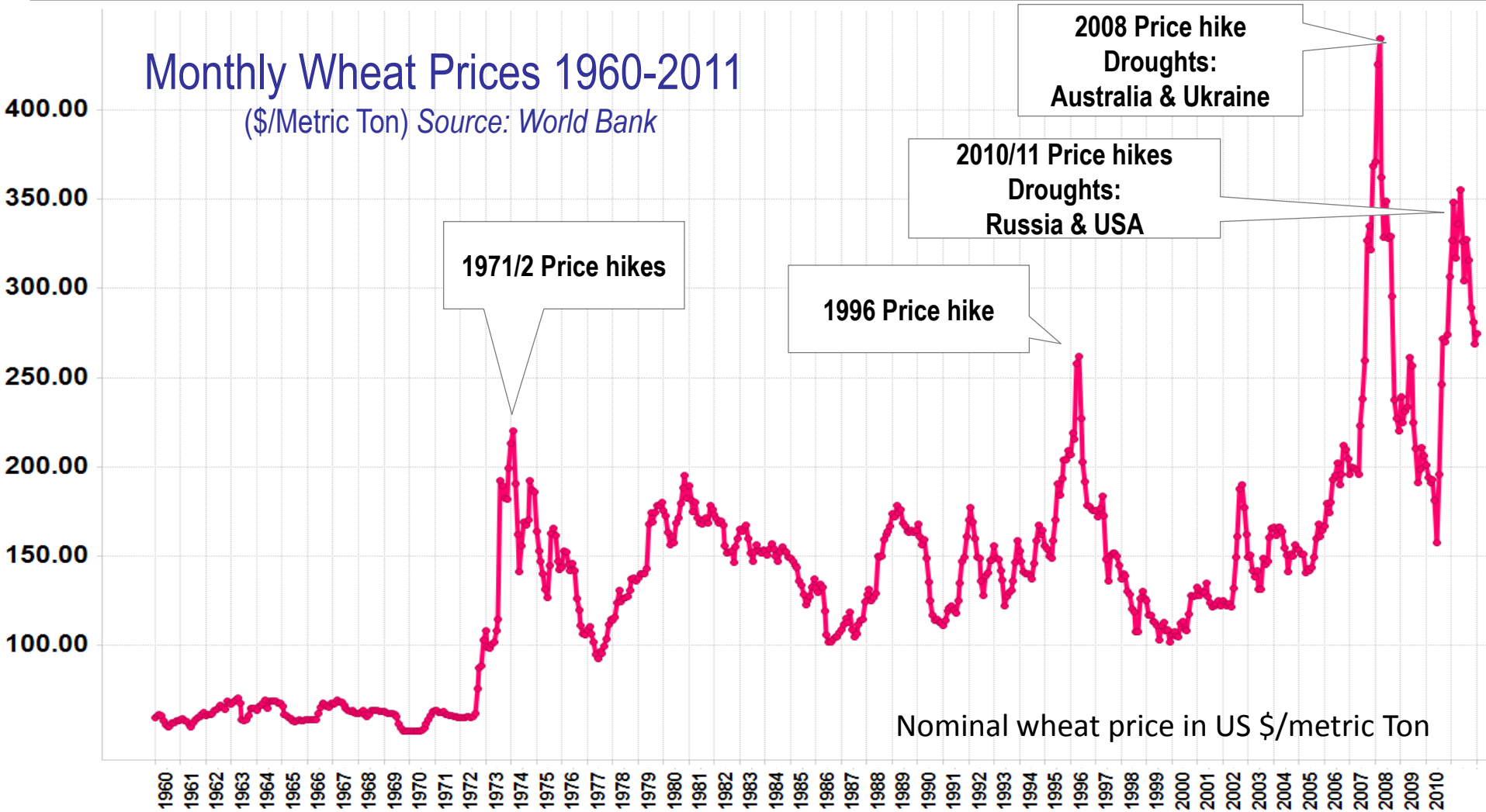
Global Total \$2.1 B



Leveraging Earth Observations for Reducing Price Volatility

Monthly Wheat Prices 1960-2011

(\$/Metric Ton) Source: World Bank

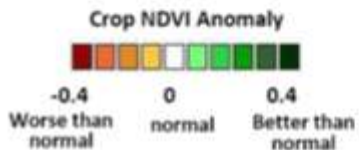
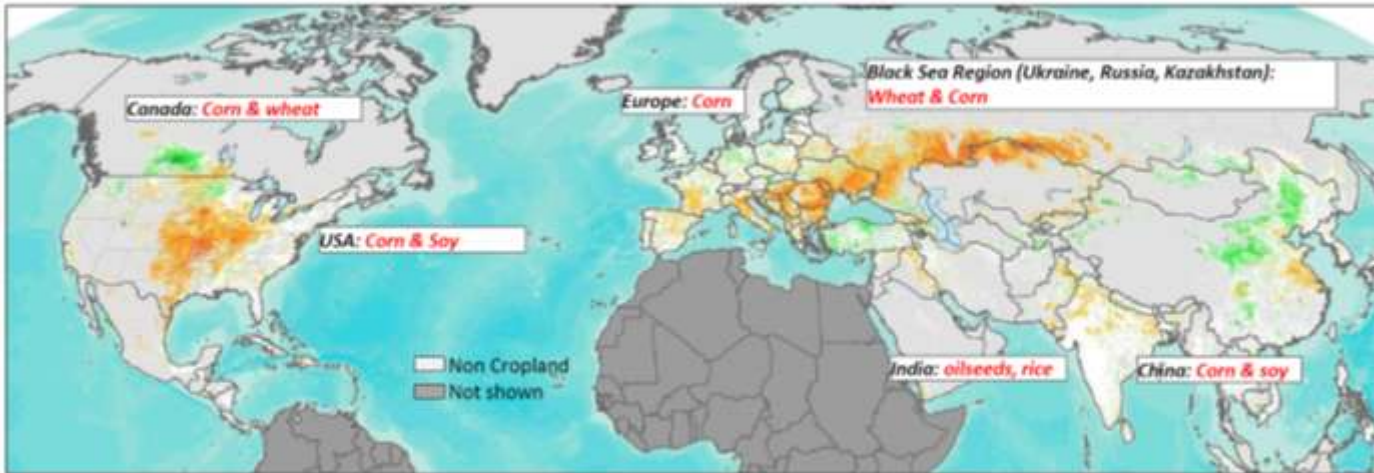




Crop Information for Decision-Making

(Canada, China, EC, France, Japan, Kazakhstan, India, Mexico, Russia, USA, CEOS, FAO, WMO)

Northern Hemisphere NDVI Crop Anomaly, August 13th, 2012



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

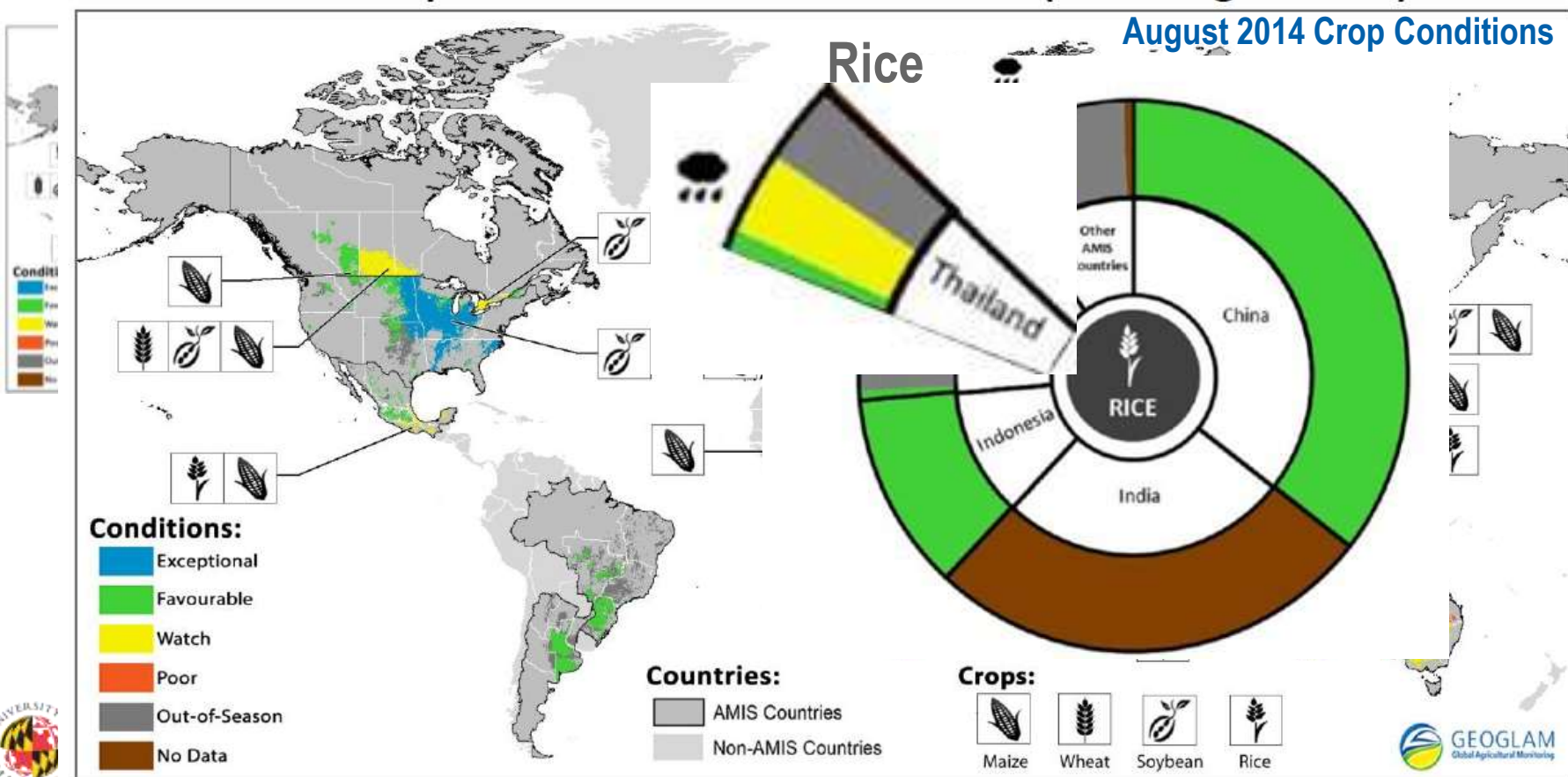
- * GEOGLAM part of G20 Action Plan on Food Price Volatility
- * New crop outlook
- * Rice crop monitoring





GEOGLAM Crop Monitor for AMIS

- Operational since September 2013
- 36 institutions, 22 countries + 7 international organizations
- Global map for the 4 AMIS crops (Maize, Wheat, Soybean, Rice)



Mexico City Ministerial Summit and GEO-XII

GEO Week
9-13 November 2015
Mexico City

www.earthobservations.org



