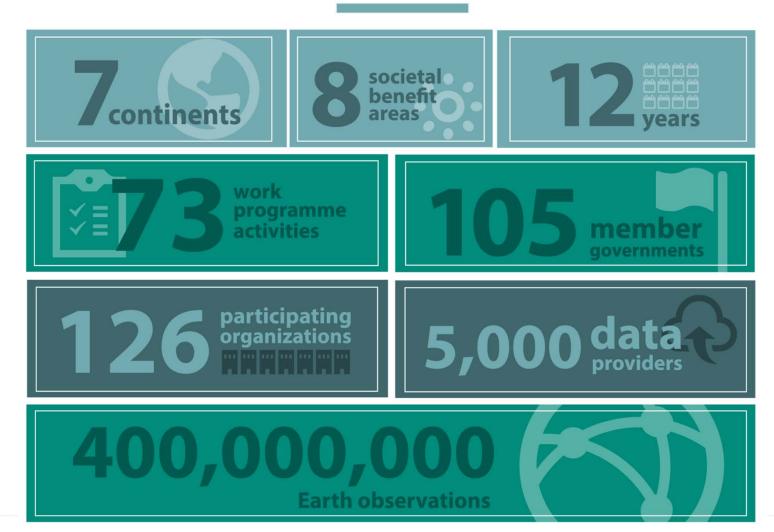


GEO & Disaster Risk Reduction

James Norris GEO Secretariat

GEO in numbers

Overview of GEO













UN World Conference on Disaster Risk Reduction 2015 Sendai Japan





Disaster Risk Reduction

A GEO Priority Engagement Area

GEO supports Disaster Risk Reduction by improving coordination of Earth observations to increase ability to disaster forecasting, preparation, mitigation, management and recovery.





Value of EO for DRR

Earth Observations for Disaster Risk

EO data and information can provide a broad overview of large disasteraffected areas quickly. Using EO data and technology, disaster risks can be identified and assessed, and risks can be prevented or mitigated.





What do we agree on?

Champion and support the development of policy objectives that add value, drive efficiencies, and promote the uptake of Earth observations.

Value of EO for DRR

Earth Observations for Disaster Risk

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Value of EO for DRR Earth Observations for Disaster Risk

1. Prevention

EO data can identify and assess risks, which can prevent risks from turning into disasters.



Value of EO for DRR

Earth Observations for Disaster Risk

2. Preparedness

Time series EO data with consistent quality enables understanding of natural hazard risks and contributes to early warning

GEO GROUP ON EARTH OBSERVATIONS WWW.earth observations.

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Value of EO for DRR

Earth Observations for Disaster Risk

3. Response

During emergencies, EO data can help with loss and damage assessment, and greatly assist rescue operations.

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Value of EO for DRR

Earth Observations for Disaster Risk

4. Recovery

Time series EO data can improve recovery efforts through monitoring, especially in developing countries which lack timely geospatial information

GEO GROUP ON EARTH OBSERVATIONS WWW.earthobservation:

Sendai Framework for Disaster Risk Reduction

2015 - 2030



Supporting Sendai

Coordinating EO for Disasters

GEO supports implementation of Sendai Framework targets E,F and G through engagement with UNISDR.

E: Substantially increase the number of countries with national and local disaster risk reduction strategies by 2020;

F: Substantially enhance international cooperation to developing countries through adequate and sustainable support to complement their national actions for implementation of the present framework by 2030;

G: Substantially increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to people by 2030.



What we do

Disaster Risk Reduction in the GEO Work Programme

GEO Engagement
Priorities

SDGs

Climate Change

Disaster Resilience

• Flagships

• Initiatives

• Foundational Tasks

• Community Activities

Earth observations contribute to disaster mapping, better mitigation and response, working with the Sendai Framework on Disaster Risk Reduction

Initiatives

- Climate Change Impact Observation on Africa's Coastal Zones (GEO-CCIOoACZ)
- Data Access for Risk Management (GEO-DARMA)
- •GEO Cold Regions Initiative (GEOCRI)
- GEO Geohazards Supersites and Natural Laboratories (GSNL)
- GEO Global Network for Observation and Information in Mountain Environments (GEO-GNOME)
- GEO Global Water Sustainability (GEOGLOWS)
- GEO Human Planet Initiative: Spatial Modeling of Impact, Exposure and Access to Resources
- •Global Urban Observation and Information
- •Global Wildfire Information System (GWIS)

Community Activities

- African Geochemical Baselines
- Chinese Tsunami Mitigation System
- Earth Observations for Disaster Risk Management
- · Earth Observations for Geohazards, Land Degradation and Environmental Monitoring
- Global Ecosystem and Environmental Observation Analysis Report Cooperation (GEOARC)
- Global Flood Awareness System (GloFAS)
- •Global Flood Risk Monitoring
- Land Cover and Land Cover Change
- TIGGE (Thorpex Interactive Grand Global Ensemble) evolution into a Global Interactive Forecast System (GIFS)

GEO Societal Benefit Areas

- Biodiversity and Ecosystem Sustainability
- Disaster Resilience
- Energy and Mineral Resource Management
- Food Security and Sustainable Agriculture
- Public Health Surveillance
- Transport
- Sustainable Urban Development
- Water Resources Management



GEOGLOWS

Global Water Sustainability

GEOGLOWS provides a coordination framework for all water-related initiatives, including drought and flood, under the GEO Work Programme.





GWIS

Global Wildfire Information System

GWIS brings together existing wildfire information sources at the regional and national level, in order to provide a globally-comprehensive view and evaluation of fire regimes and fire effects.





GEO Sendai Subgroup

Coordinating activities across GEO

Programme Board has set up the Sendai Subgroup to look at:

"How can GEO, through its Work Programme, support and inform the Global Assessment Report on Disaster Risk Reduction and the overarching Sendai Framework."

Subgroup Members:

Australia, China, Ghana, Italy, Norway, United Kingdom, CEOS, COSPAR, ESA, GODAN, IAG, IUGG, OGC, MRI



Sendai Subgroup Tasks

Summary of tasks and desired outcomes

- 1. Identify how the GEO Work Programme can support the Sendai Framework.
- 2. Discuss and identify appropriate ways to share information and successes.
- 3. Strengthen links with the International Charter Space and Major Disasters.

Each of these tasks has been allocated expected outcomes and volunteers to lead and participate in the work.



Sorry I couldn't be in Naples...

... I hope that you have a productive session!



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https://www.earthobservations.org
/area.php?a=dr



Thank You

Communicate and Collaborate with GEO:











