

GEOS



Working Group On Information
Systems and Services (WGISS)
WGISS-43 Meeting

AmeriGEOSS Regional Initiative

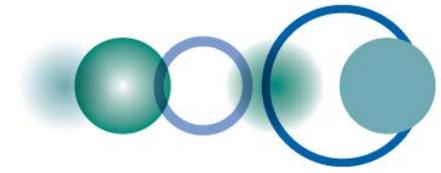
A framework that seeks to promote collaboration and coordination among the GEO Members of the American Continent

Angelica Gutierrez, Rich Frazier

April 5, 2017



AmeriGEOSS Initiative & Regional Coordination



Is a cooperative effort of the 16 GEO member countries in the Americas that:

Reflects local, national, and regional interests of the GEO country-members for short and long-term planning, development, and implementation aligned with GEO activities.

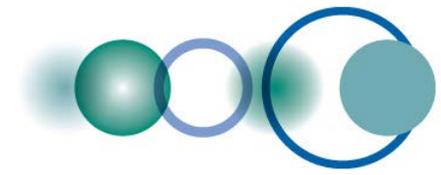
Is entrenched in the institutional and technical capabilities of its country members and in the resources of other global initiatives available for the benefit of the region.

Seeks to increase institutional and personal capacity and engage experts, stakeholders, and decision makers in the process of decision making.



16 Member Countries





Argentina

Dr Conrado Franco Varotto



Bahamas

Mr Trevor McNeil Basden



Belize

Mr Dennis Sylvestre Gonguez



Brazil

Mrs Maria Rita Fontes Faria



Canada

Mr David Ronald Grimes



Chile

Mr Luciano Francisco Parodi



Colombia

Mr Omar Franco Torres



Costa Rica

Mr Juan Carlos Fallas



Ecuador

Ms Maria Fernanda Espinosa



Honduras

Mrs Patricia Brocatto



Mexico

Mr Rolando Ocampo



Panama

Dr Ligia Castro De Doens



Paraguay

Mrs Maria Cristina Morales



Peru

Mayor General Carlos Elias Rodriguez Pajares



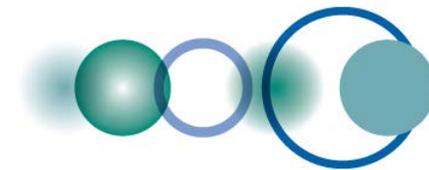
United States

Dr Steve Volz



Uruguay

Vacant



AmeriGEOSS Initiative is a framework that seeks to promote collaboration and coordination among the GEO Members of the American Continent



Agriculture

Agriculture, associated with climate variability, climate change, and food security.



Water

Water, associated with the management approach of water resources and data management.



Disasters

Disaster risk reduction, particularly for data exchange associated with early warnings and for the generation of regional products of early warnings



Biodiversity & Ecosystems

Biodiversity and Ecosystem Monitoring including biodiversity observation in coastal, marine, and continental habitats, in the context of capacity building for better monitoring, management, and maintenance of ecosystems and biodiversity they support; also to predict future changes.

The AmeriGEOSS initiative focuses its efforts in the four Societal Benefit Areas (SBA's) selected and prioritized by the

Americas Caucus country-members:





User-Driven Framework



Engage



Analyze



Develop



Deliver

Capacity Building

Building Partnerships

National

Regional

Global



Engaging Users

Needs Assessment and Gap Analysis

Data

Tools

Products

Services

Delivering Solutions

Mobilizing Resources

Data

Tools

Products

Services

- Share
- Curate
- Harmonize

- Visualize
- Mapping
- Modeling

- Publication
- Reports

- Acquisition
- Reports
- Training



Partner > Mobilize > Implement

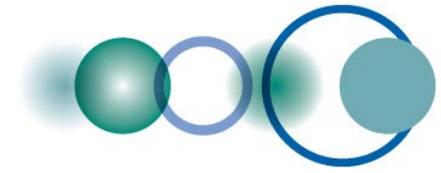


Community Platform



AmeriGOESS Capacity Building Efforts

- Outreach and Education Examples



Increasing and strengthening Partnerships through outreach and education:

Workshops



The 2016 AmeriGOESS week event was organized around **capacity building activities** directly related to the priority areas of the AmeriGOESS Initiative. **Training and informative presentations** were provided by public and private participants.

Webinars



The purpose of the webinars is to **share information** stressing the importance of open access to information and data for the benefit of the Latin and Caribbean American Region, to **find potential applications and collaborations among scientists and decision makers**, and to expand and strengthen the network of research and applications as it relates to the water cycle.

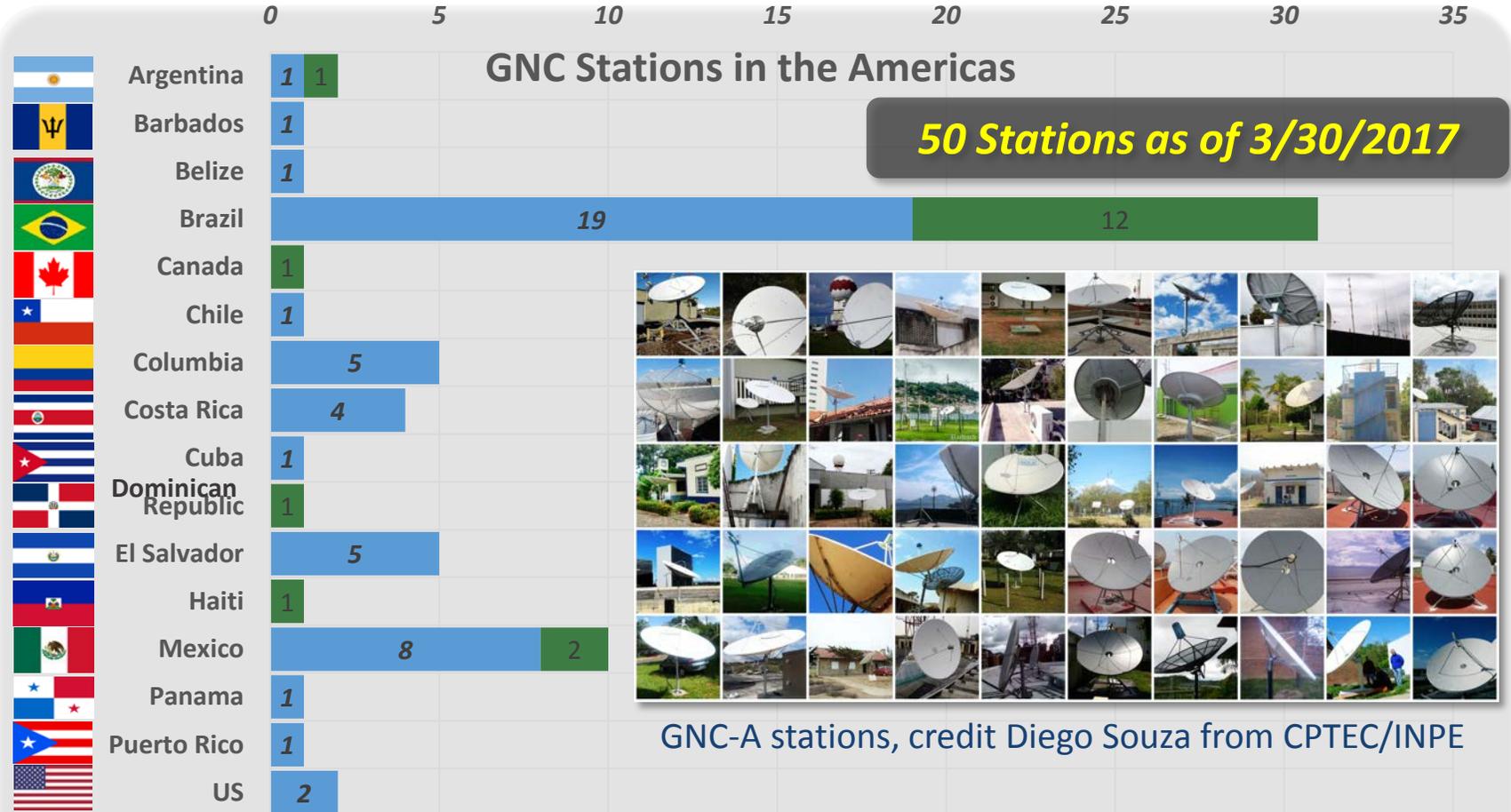
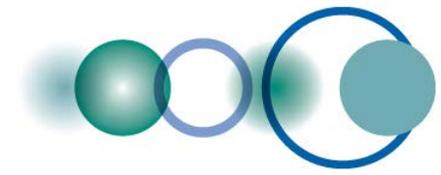
Communications

AmeriGOESS principles **meet regularly** to provide **information on activities, newsletters, and other communications** are provided to the community on **events, activities, and accomplishments**.



Connecting the Community to EO Resources

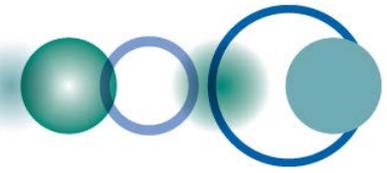
- AmeriGEOSS Capacity Building Example



The **near real-time**, global network of **satellite-based data dissemination systems** is designed to distribute **space-based, airborne and in situ data**, metadata, and products to diverse communities lacking in high speed internet access.

Connecting the Community to EO Resources

- AmeriGEOSS Capacity Building Example



GeoSUR



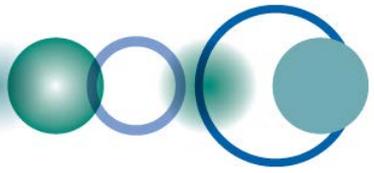
GEOPLATFORM.gov

GLOBAL Earth Observation System of Systems (GEOSS)

Increasing Discovery and Access to EO

AmeriGEOSS-GEOSur

2016 Partnership Success



The AmeriGEOSS Community Platform is bringing together Social, Economic and Environmental data to support understanding and decision-making.

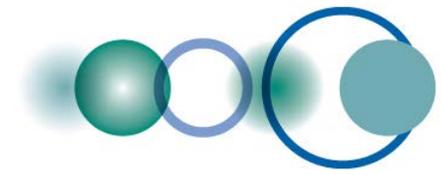
SUSTAINABLE DEVELOPMENT GOALS
17 GOALS TO TRANSFORM OUR WORLD

1 NO POVERTY	2 ZERO HUNGER	3 GOOD HEALTH AND WELL-BEING	4 QUALITY EDUCATION	5 GENDER EQUALITY	6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY	8 DECENT WORK AND ECONOMIC GROWTH	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	10 REDUCED INEQUALITIES	11 SUSTAINABLE CITIES AND COMMUNITIES	12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION	14 LIFE BELOW WATER	15 LIFE ON LAND	16 PEACE, JUSTICE AND STRONG INSTITUTIONS	17 PARTNERSHIPS FOR THE GOALS	SUSTAINABLE DEVELOPMENT GOALS



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





Welcome to *AmeriGEOSS Community Platform* your gateway to Earth Observation resources in the Americas.



Agriculture



Biodiversity & Ecosystems



Disasters

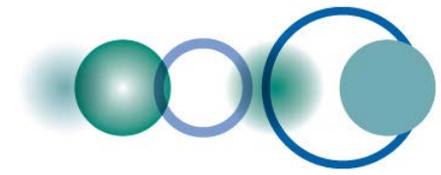


Water

The AmeriGEOSS Platform is a regional community resource to *promote collaboration and coordination* among the GEO members in the American continent.

Your resource to share, find, discover, learn and participate in coordinated, comprehensive and sustained Earth observations for understanding and decision-making.





Welcome to *AmeriGEOSS Community Platform* your gateway to Earth Observation resources in the Americas.



Agriculture



Biodiversity & Ecosystems



Disasters



Water

Data

- **Catalog** of Americas EO data assets,
- **Share, Publish, Manage and Use** data
- **Co-create**, Curate, Harmonize, Semantically enrich and tagging

Tools

- **Data Visualization and Modeling tools**
- **Map Viewer and Thematic Gallery**
- Access a variety of **community developed tools**
- **Other Tools** from providers or custom tools can be added

Products

- Publications (e.g. Agricultural, Climate Report)
- Reports (e.g. Water Quality)
- Brochures (Preparing for a disaster)
- Others

Services

- GeoNetCast Americas
- Geohazard Supersites and Natural Laboratories
- Training
- Workshops
- Alerts & Notifications
- Other

Resources

- News
- Social Media Resources
- Community Calendar
- Collaboration Tools
- National and Regional Portals and Platforms
- Document Library

AmeriGEOSS Linking Capabilities



Open Data Portals

National

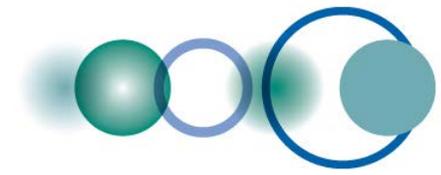
Regional

Global

- *378,243 Datasets
- *31,812 Map Layers
- *413 Applications & Tools

Share Data, Tools, Applications and Services

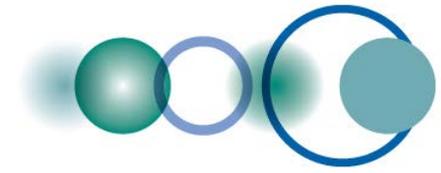
*Current assessment of available resources



About AmeriGEOSS | Initiatives | Data | Tools | Products | Services | Resources |



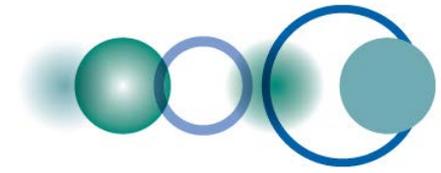
The AmeriGEOSS Community Platform prototype provides a suite of **resources and tools** for integrating, synthesizing, analyzing, problem-solving and visualizing geographically enriched data to **accelerate understanding** and **decision-making**.



Search
- Text¹, Faceted² and Spatial Search³

Find
- Resources in many Formats⁴

Use
- Multi-platform support⁵



Tools and Resources from Global Providers in one Place



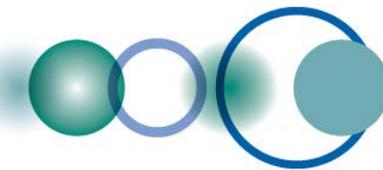
Find Data

165 datasets found for "agricultura"

Tools

Dashboard

Imagery



About AmeriGEOSS | Initiatives | Data | Tools | Products | Services | Resources | 🔍

GEO GLOWS

Explore Social, Economic and Environmental, Reports, Information, Indicators.....and More



Find Water Data

428 datasets found for "agua"

Order by: Relevance

- Características Calidad del Agua - SIVICAP
- Hacer uso responsable del agua
- Indicadores Básicos del Desempeño Ambiental - Agua - Caucau
- Indicadores Básicos del Desempeño Amb...

Water Variables

- Air Temperature (1200)
- Salinity (1200)
- Water Temperature (1200)
- Winds (1200)
- Water Level (1138)
- Barometric Pressure (1132)
- Conductivity (1132)
- Currents (1132)
- Datum (1132)
- Harmonic Constituents (1132)
- Rain Fall (1132)
- Relative Humidity (1132)
- Visibility (1132)
- Water Level Predict... (1132)
- sea_water_speed (790)
- direction_of_sea_wa... (789)
- platform_orientation (775)
- platform_pitch_angle (775)

Water Reports & Indicators

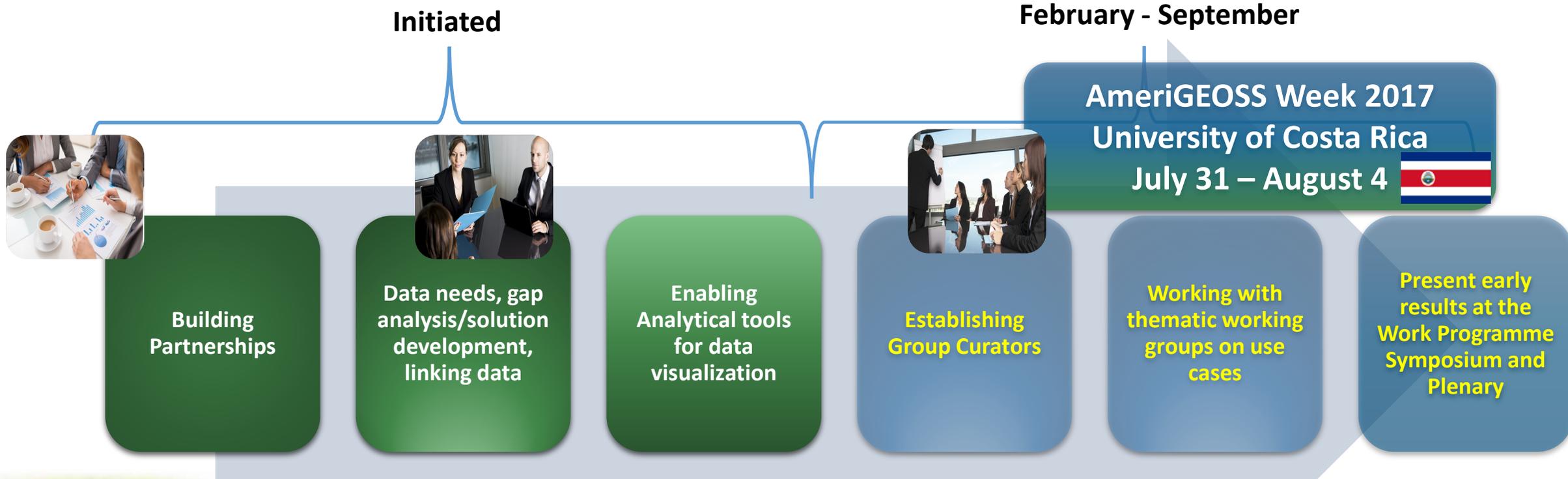
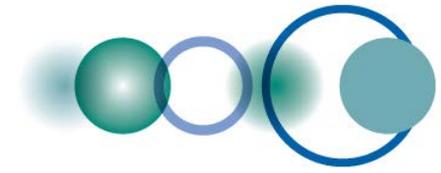
- Shallow Water Mooring Buoys - Guam
- (CMOP) Waste water outfall (City of Astoria)
- Aggregated Lake St. Clair Water Levels
- Aggregated Lake Michigan and Huron Water Levels
- Clam Bayou - sea_water_electrical conductivity

Water Reports & Indicators

- Basic Indicators of Environmental Performance - Water - Availability
- Water quality of use and human consumption.
- Rates for Water and Wastewater Services - EPM
- Rates for Water and Wastewater Services - EPM

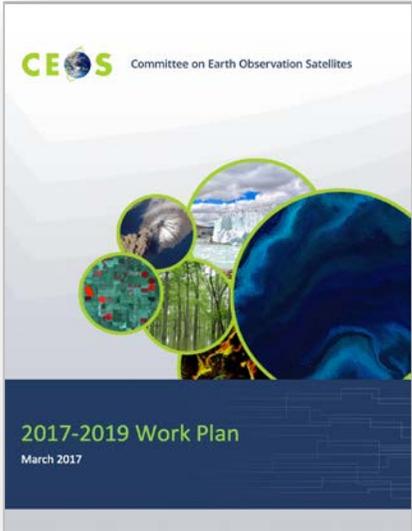
Use maps, applications and other analytical tools

- WRI Aqueduct Country and R...
- Agricultural Exposure to Wate...
- Brazil: Extreme Events (1980...
- CEOS Water Portal



Strengthening Partnerships – Mobilizing Resources – Implementation





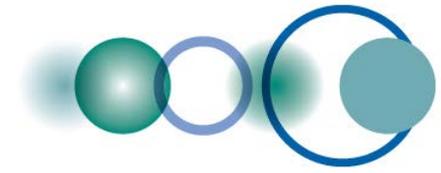
AmeriGEOSS Cross-walk to CEOS 2017-2019 Work Plan



- 3.1. Climate Monitoring, Research, and Services
- 3.2. Carbon Observations, Including Forested Regions
- 3.3. Observations for Agriculture
- 3.4. Observations for Disasters
- 3.5. Observations for Water
- 3.6. Capacity Building, Data Access, Availability and Quality
- 3.7. Advancement of the CEOS Virtual Constellations
- 3.8. Support to Other Key Stakeholder Initiatives
- 3.9. Outreach to Key Stakeholders

	Agriculture	Biodiversity & Ecosystems	Disasters	Water	Foundational Task
3.1. Climate Monitoring, Research, and Services	Green	Green	Green	Green	White
3.2. Carbon Observations, Including Forested Regions	White	White	White	White	White
3.3. Observations for Agriculture	Green	White	White	White	White
3.4. Observations for Disasters	White	White	Green	White	White
3.5. Observations for Water	White	White	White	Green	White
3.6. Capacity Building, Data Access, Availability and Quality	Green	Green	Green	Green	Green
3.7. Advancement of the CEOS Virtual Constellations	White	White	White	White	White
3.8. Support to Other Key Stakeholder Initiatives	Green	Green	Green	Green	Green
3.9. Outreach to Key Stakeholders	Green	Green	Green	Green	Green





Outreach & Education

- Coordinate Communication
- Coordinate Training
 - *Hands-on*
 - *Videos*
 - *Computer Base*
- Workshops

Data & Products

- Coordinated User Needs Assessments
- Coordinated Gap Analysis
- Thematic datasets
- Harmonized Thematic Regional Products

Applications & Tools

- Thematic Tools and resources (*e.g. Water Portal*)

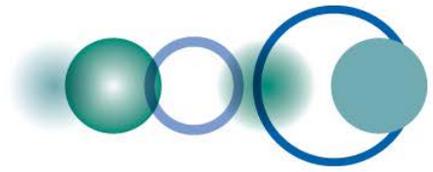


Use Cases

- Support efforts to Identify opportunities
- Participation in development
- Thematic pilots, prototypes

Outcome of activities will inform development and implementation in other regions.





GEOS

Advancing the Vision of GEO: *GEOS Implementation*



Questions?

