

# USGEO: Engaging the Earth Observations Enterprise

AGU Fall Meeting | December 13, 2022

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## **USGEO**

**Who we are  
What we do**

## **GEO**

**International:  
Global and  
Regional**

## **Town Hall**

**Audience  
Comments and  
Questions for  
Panel**



## Who we are

Interagency committee enabling collaboration across agencies and coordinates engagement with the international community

Founded in 2005

16 US Federal departments and agencies and  
3 components of the Executive Office of the President

*Co-chairs* EOP: Office of Science & Technology Policy, OSTP  
Agencies: NASA, NOAA, USGS.





## ***What we do***

Coordinate, plan, & assess federal Earth observations, research, and activities

Foster improved Earth system data management and interoperability

Identify high-priority user needs for Earth observations data

Formulate US positions for and coordinate engagement with regional and global GEOs



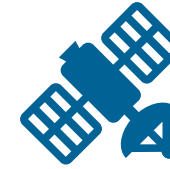
## ***Working Groups & Task Teams***



### ***Assessments***



### ***Data Management***



### ***Satellite Needs***



### ***International Activities***

#### ***Task Teams:***

*EO Enterprise Engagement – completed 2020*

*Framework – completed 2021*

*Innovation (Incubators & Accelerators) – completed 8/2021*

*Wildfires Rapid Assessment – 2021-2022*

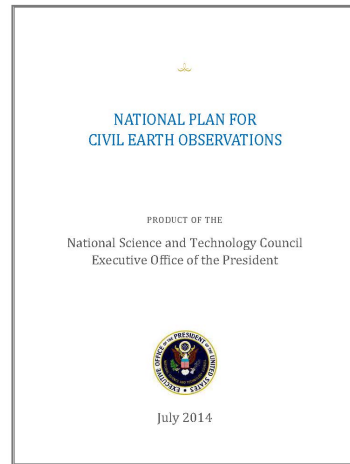
*Commercial Data – completed 9/2022*



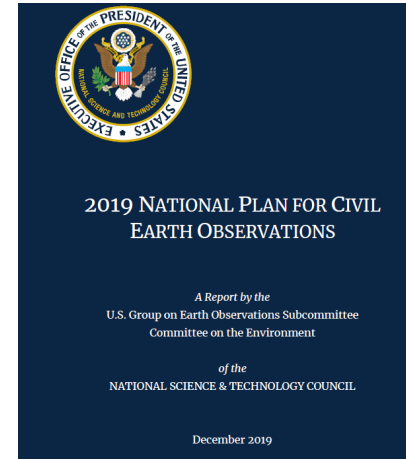
**National Plans:**  
**2014**  
**2019**  
**c. 2023**

# National Plans for Civil Earth Observations

**2014**



*Introduced Framework of Sustained and Experimental Observations*



## Goals

1. Support & Balance the Portfolio of Earth Obs.
2. Engage the Earth Observations Enterprise
3. Improve the Impact of Earth Obs.

**2019**





UNITED STATES GOVERNMENT  
COMMERCIAL EARTH  
OBSERVATIONS DATA PURCHASES:  
PERSPECTIVES FROM THE EARTH  
OBSERVATIONS ENTERPRISE

*A Report by the*

SUBCOMMITTEE ON U.S. GROUP ON EARTH OBSERVATIONS  
COMMITTEE ON THE ENVIRONMENT

*of the*  
NATIONAL SCIENCE AND TECHNOLOGY COUNCIL

July 2022



## Commercial Task Team

Study examining Federal government approaches to commercial EO data plus perspectives from companies, policy-experts, and legal experts

Based on:

- Federal Request for Information
- Public Listening Session
- Table top exercise focused on fusion of commercial and government data sources

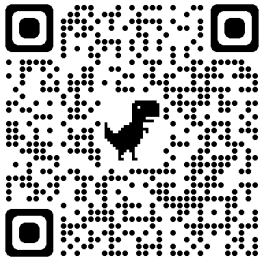
Study includes:

13 Recommended Practices on EO Purchases

Findings on acquisition coordination, data sharing, licensing, legal considerations, and more.



## Satellite Needs



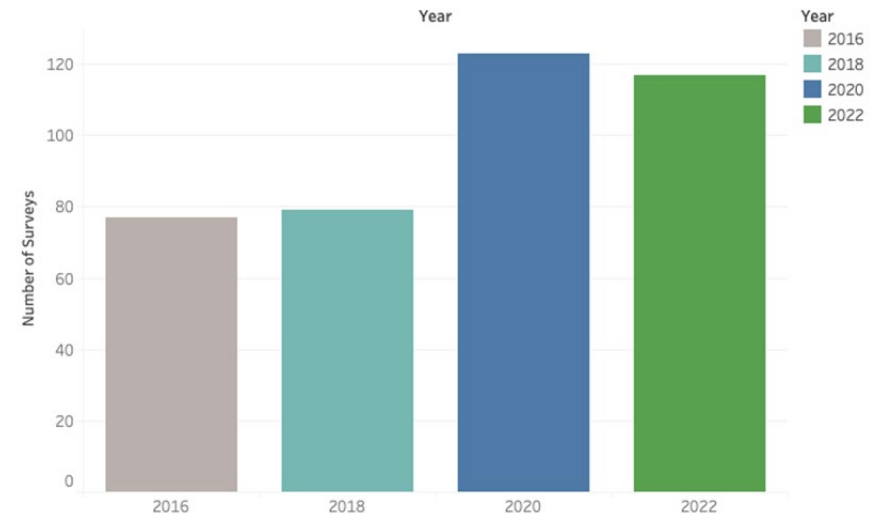
### Biennial USGEO process assessing Federal agency needs for satellite data

- Agencies identify data and information needs
- NASA assessments inputs (plus NOAA and NSF)
- Determine which inputs NASA can satisfy – current activities, future plans, and/or with new investments

### NASA assessment goes to OMB, OSTP, and Agencies

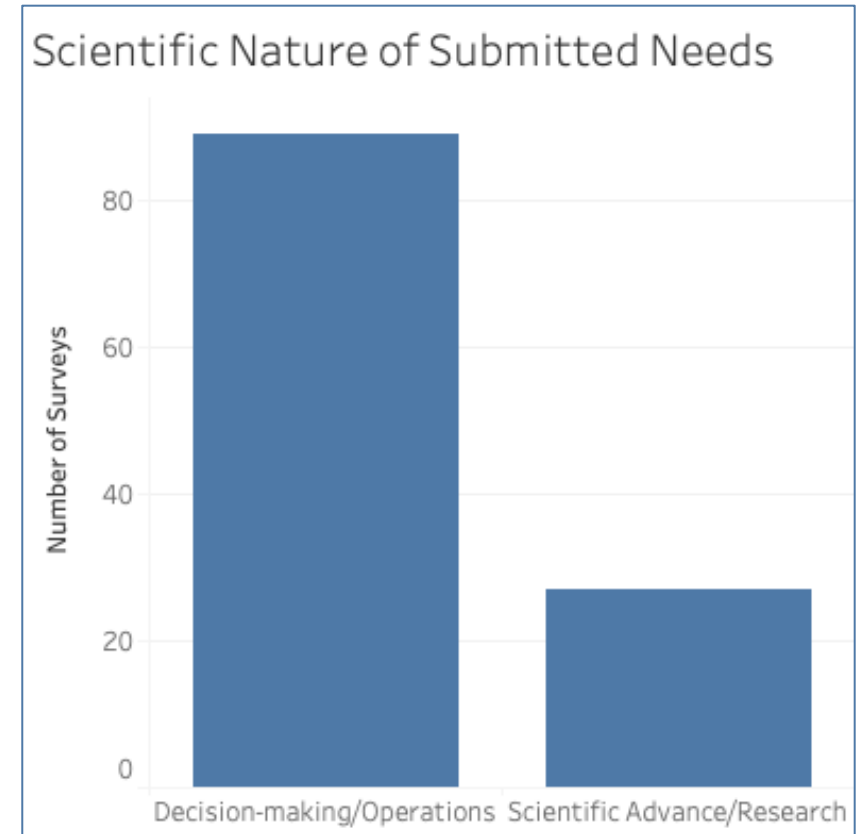
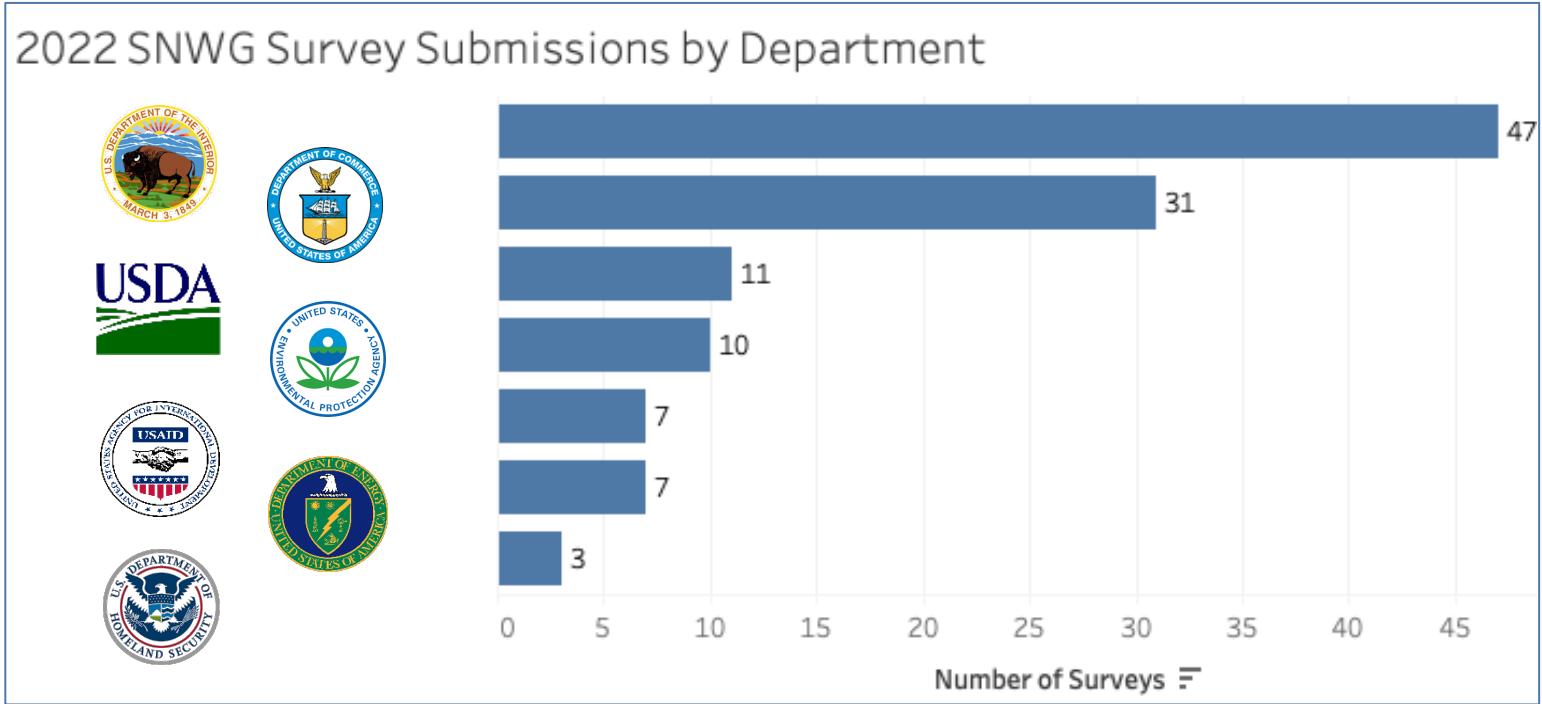
- Round One: 2016-2017
- Round Two: 2018-2019
- Round Three: 2020-2021
- Round Four: 2022-2023

Number of SNWG Surveys Submitted





# 2022 Satellite Needs Submissions





## ***EO Assessments***

## ***Data Management***

## ***International Activities***

### ***EO Assessments***

Released 2016 Assessment across 13 Societal Benefit Areas

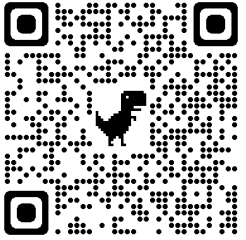
2022 Assessment: Climate and Agriculture & Forestry  
Findings will inform next National Plan

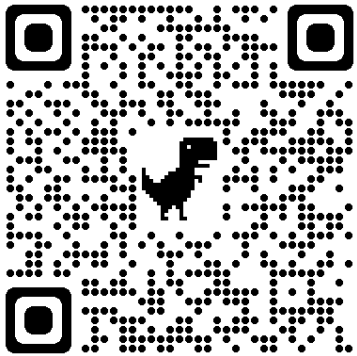
### ***Data Management***

In work: *Recommendations and Future Challenges for Earth  
Observation Data Management in the Cloud*

### ***International Activities***

Coordinates US positions and engagement with GEO & AmeriGEO  
Engages with the GEO Indigenous Alliance  
In work: USGEO Tribal Engagement Strategy  
Latin America and Caribbean Initiative to develop  
climate assessment trainings





Promotes open, coordinated Earth observation data-sharing and use for sustainable policy and action

Strategic priorities & global policy drivers:

SDG 2030 Agenda, Paris Climate Agreement,  
Sendai Disaster Risk Reduction, New Urban Agenda

Membership: 114 Member Countries,  
144 Participating Organizations, 19 Associates

GEO Work Programme:

Flagships, Initiatives, Community Activities



***GEO Week 2022***  
***Accra, Ghana***  
***Oct. 31 – Nov. 4***

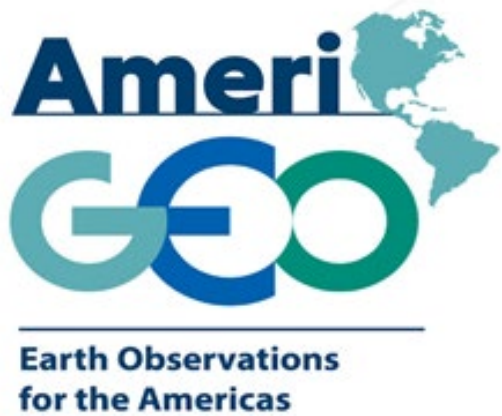


### Plenary Topics:

- Operational Services for Africa
- Ecosystem Extent & Condition
- National Adaptation Plans
- Collective Action on Oceans, Climate, and Biodiversity
- GEO Post-2025 and Future of GEOSS

### Key outcomes:

- Land Degradation Neutrality a new Flagship
- Democ. Rep. of Congo a new global GEO Member
- New and established national GEOs piloted best practice exchange
- AfriGEO science/policy sessions strengthened regional community of practice



**AmeriGEO**



Regional framework promoting collaboration and coordination among GEO members in the American continent

Founded in 2014

20 Member Nations (out of 35 total countries in the Americas)

*Themes*      Food Security & Agriculture      Disaster Resilience  
Public Health Surveillance      Water Resources  
Biodiversity and Ecosystem Sustainability

Capacity building efforts focused on collecting data in agriculture, Indigenous management, refugee camps, disaster recovery across borders

2022 AmeriGEO Week in Paraguay & 2023 AmeriGEO Week in Costa Rica



## Town Hall

- What more would you like to know about or from USGEO?
- What should USGEO be aware of?
- What datasets, collaboration opportunities, policy contexts matter most to you?
- What should USGEO do more of? Less of?
- What new things should we engage with?
- What's keeping you up at night?

**Lawrence Friedl:** USGEO, GEO, & NASA

**Barb Ransom:** USGEO & NSF

**Dana Ostrenga:** Data Man. & NASA

**Michael Cosh:** Assessments & USDA

**Cerese Albers:** Satellite Needs & NASA



**Post your questions and comments in Slido using this QR code or link:**

**<http://bit.ly/3Plrfn6>**



United States Group on Earth Observations

***Thanks for Attending  
&  
Happy Holidays***