



Committee on Earth Observation Satellites

Group on Earth Observations (GEO) Update

Craig Larlee, GEO Secretariat

CEOS SIT-34

Session 3, Item 3.3

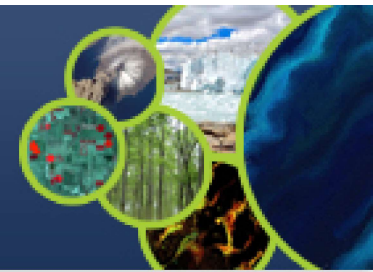
Miami, FL, USA

3 – 4 April 2019





- 1. Development of the 2020-2022 GEO Work Programme**
- 2. Strategy for a Results-Oriented GEOSS**
- 3. GEO requests to CEOS**



GEO-DARMA

EO4SDG

GEO LDN

EO4DRM

GEO Carbon

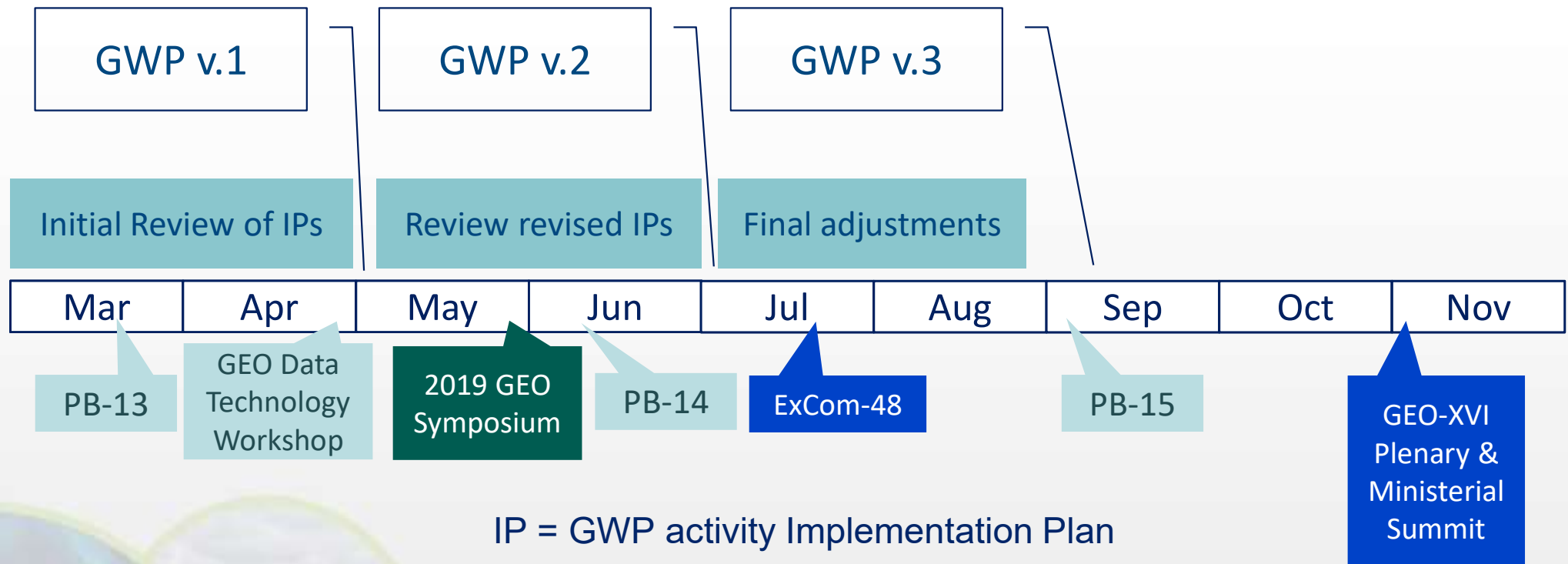
and others...

Development of the 2020-2022 GEO Work Programme



- **Major review every 3 years; only minor updates in interim years.**
- **What's New?**
 - Revised guidance for Implementation Plans
 - Removed requests for information that wasn't used.
 - Collect some information in tabular format to facilitate populating our database on GWP activities.
 - New requests related to GEO engagement priorities, users, expected outcomes, previous achievements.
 - Revised criteria for GEO Flagships, Initiatives and Community Activities
 - Clarification of “policy mandate” requirement for Flagships.
 - Show how the expectations in each category are related.
 - Review process builds on the lessons from 2016
 - Refinements not revolution.

Development of the 2020-2022 GEO Work Programme (GWP)



Version 1 ⇒ GEO community (GWP leads & participants)

Version 2 ⇒ GEO Members and Participating Organizations

Version 3 ⇒ GEO Plenary for approval

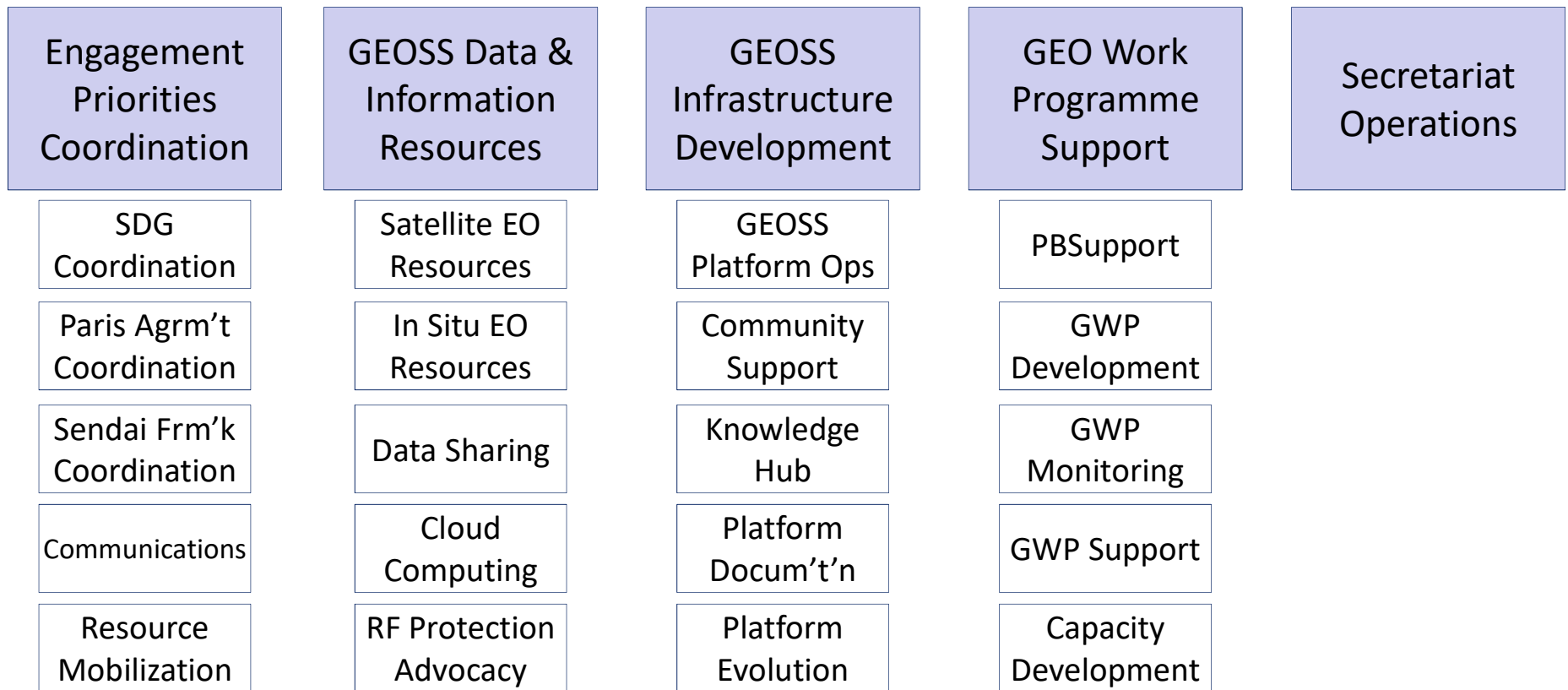
GEO Programme Board Review Teams



Team	Flagships and Initiatives
Atmosphere/energy	GOS4M, GOS4POPS, GEO VENER
Climate	GEO CARBON, SPACE CLIMATE OBS, GFOI
Cross-cutting	EO4SDG, GEO EV, EO & CITIZEN SCIENCE
Disaster risk	GEO DARMA, GSNL, GWIS
Ecosystems	GEO BON, GEO ECO, GEO Wetlands, EO4EA
Geographic/multi-thematic	GEO CRADLE, GEO GNOME, GEOCRI
Land/agriculture	GEOGLAM, GDIS, GEO LDN
Regional GEOs	AfriGEOSS, AmeriGEO, AOGEO, EuroGEOSS
Urban	HUMAN PLANET, GUOI, EO4HEALTH
Water	Aquawatch, Blue Planet, GEOGLOWS

GEO Foundational Tasks

Draft Structure for 2020-2022 (in development)



Removed { User Needs & Observational Gap Analysis

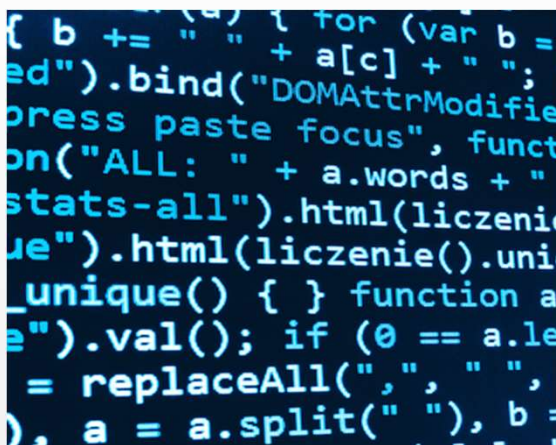
Realigned as a Community Activity { GEONETCast

Strategy for a Results-Oriented GEOSS

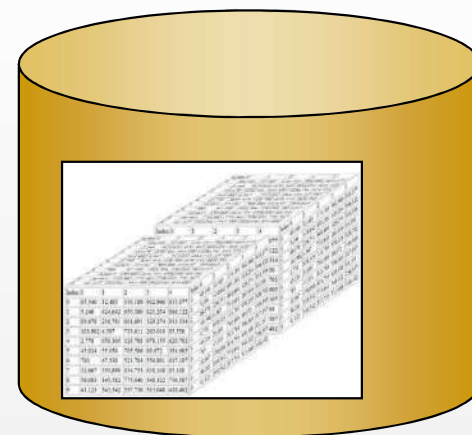
Empowered
global experts



Reusable, shared
knowledge



Cloud
platforms



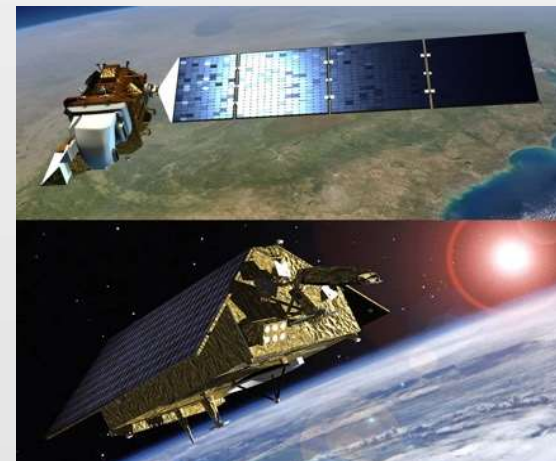
APIs

APIs

In-situ
observations



Multi-satellite
data





- **Concept** ⇒ Single virtual location to discover, access and apply the knowledge and results developed in the GWP.
- **Target users** ⇒ EO specialists (intermediate users), particularly in developing countries.
- **Requires the collaboration of GWP activities to identify which resources should be included.**
- **Value-added is based on four key features:**



Text search



Curation



Linkage



Open access



Knowledge Providers
(GWP activities)

Data Providers

GEO Website

Knowledge Hub

GEOSS Platform



APIs



Results and
Suggestions

100's of
assets

Millions of
assets

Knowledge Hub Development Schedule



	July 2018 to July 2019	July 2019	Aug 2019 to Nov 2019	Nov 2019	Nov 2019 to July 2020	July 2020	July 2020 to Nov 2020	Nov 2020	Nov 2020 to July 2021	July 2021
Design (in consultation with EAG)										
GEO ExCom decision to implement		▲								
Development of prototype										
Presentation to GEO Plenary				▲						
Development of alpha version										
Presentation to EXCOM and PB						▲				
Development of beta version										
Presentation to GEO Plenary								▲		
Development of first operational version										
Presentation to EXCOM and PB										▲



1. 2020-2022 GEO Work Programme

- Participate in the review of Implementation Plans involving satellite data.
 - Identify any gaps in between expectations of GWP activities and current provision by space agencies/CEOS.
 - Check feasibility of what is proposed.

2. GEO-AWS Cloud Credits Programme

- Advise GEO on the technical feasibility of the proposals.

3. Strategy for a Results-Oriented GEOSS

- How can users seamlessly access multi-satellite data and cloud processing platforms to truly benefit from the resources in the Knowledge Hub?
- GEO needs CEOS expertise and capabilities to realize this part of the Strategy.