

Status of Community Activities for 2020-2022

This document is submitted to the Program Board for discussion.

1 INTRODUCTION

Approval of Community Activities in the GEO Work Programme is assigned to the GEO Secretariat in the GEO Strategic Plan 2016-2025 Reference Document. However, as these decisions impact the overall GEO Work Programme that is recommended to the GEO Plenary by the Programme Board, the Secretariat has endeavoured to inform the Programme Board of the status of the review of the Community Activities. Annex A of this document provides the current status of each Community Activity in the 2017-2019 GEO Work Programme plus new proposals for Community Activities for the 2020-2022 GEO Work Programme.

2 SUMMARY OF STATUS

The total number of activities included in Annex A is 53. Nearly 70% of these were included in the 2017-2019 GEO Work Programme, while about 30% are new.

Included in 2017-2019 GEO Work Programme	36
New Proposals	17
	53

The current status of these 53 activities is as follows:

Accepted as Community Activities	28
Acceptance Pending	4
Total accepted or expected to be accepted	32
Discontinued	9
Merged with other activities	5
Total not accepted	14
Pending decision by the Programme Board	2
Not yet reviewed	3
Plan not yet received	2
Total in process	7

ANNEX A – TABLE OF COMMUNITY ACTIVITIES

Short Title	Full Title	New / Existing	Key Contributors	Observations	Status
CLIMATE DATA ACCESS	Access to Climate Data in GEOSS	Existing	China, WCRP	Originally focus on brokering WCRP and other models into GEO DAB. Discussion ongoing to re-orient the plan towards producing results. Critical to have institutional support from WCRP.	Accepted
ACIS	Advancing Communications Networks	Existing	GEANT, ASREN	Mostly focus on infrastructure and capacity development. Look at possibilities to bring them into the GEOSS infrastructure Foundational Task	Accepted
AIRNOW	Airnow International: Expanding Networks and Integrating Methods for Air Quality and Health Data	Existing	USA, China, Mexico, UNEP, WHO	Did not submit an IP for the 2020-2022 GWP.	Discontinued
ARCTIC GEOSS	Arctic GEOSS	Existing	SAON, Canada, Finland, Norway	Significant funding is being made available through the European Commission to support Arctic GEOSS. The choice of the successful consortium will help shape the future directions. The intent is to focus efforts within the GEO context more toward services to specific user communities.	Accepted
ATLANTIC GEOSS	Atlantic GEOSS	New	Portugal, Brazil, UK	Focus of discussions have been to reduce duplication or overlap with other existing GWP activities. Will continue to encourage collaboration with Blue Planet and others.	Accepted
CTMS	Chinese Tsunami Mitigation System	Existing	China, Japan, USA	Did not submit an IP for the 2020-2022 GWP.	Discontinued
CSDR	Construction and Services of Chinese High-resolution Satellite Data Resources	New	China, Australia, Germany	The plan proposes provision of high resolution satellite image by bilateral agreement. GEO SEC encourages them to share data openly.	Accept pending revision
CAMS	Copernicus Atmospheric Monitoring Service	Existing	ECMWF	Ongoing programme of a GEO PO. Discussion ongoing to reorient the activity to a collaborative project with other partners.	Accepted
C3S	Copernicus Climate Change Service	Existing	ECMWF	Ongoing programme of a GEO PO. Discussion ongoing to reorient the activity to a collaborative project with other partners.	Accepted

Short Title	Full Title	New / Existing	Key Contributors	Observations	Status
CCB-NFI	Country Capacity Building for Planning and Implementation of National Forest Inventories in Asia and the Pacific Region	Existing	India	A single country proposal that overlaps with GFOI. Integration into GFOI agreed by the proposer and GFOI.	Merged into GFOI
DIAS	Data Integration and Analysis System	Existing	Japan	Proposed as an Initiative.	Pending decision by the PB re acceptance as an Initiative
D-MOSS	Dengue Model Satellite-based Forecasting System for South-east Asia	New	United Kingdom, Vietnam	Proposal recently received.	Not yet reviewed
DIGITAL EARTH AFRICA	Digital Earth Africa	Existing	Australia, South Africa	Did not submit an IP for the 2020-2022 GWP.	Pending submission of IP
GEOMUSEUM	Digital Geomuseum	Existing	China, India, Japan, USA, CODATA, ICSU	Did not submit an IP for the 2020-2022 GWP.	Discontinued
EO4SENDAI	Earth Observation and Copernicus in Support of Sendai Monitoring	New	Germany	Originally a single country proposal. Partners added after GEO SEC's recommendation	Accepted
EO INNOVATION	Earth Observation Industrial Innovation Platform	New	China	Originally very loose plans on commercial sector networking. Revised plans identify tentative directions such as precision farming, natural disaster timely monitoring over cloud EO services.	Accepted
EO & CITIZEN SCIENCE	Earth Observations and Citizen Science	Existing	Netherlands, US	Recommended by the PB review team to remain as a CA for now, as still at an early stage with few concrete results.	Accepted
CULTURAL HERITAGE	Earth Observations for Cultural Heritage Documentation	Existing	Greece, China, EC, Germany, Spain, ISPRS	Did not submit an IP for the 2020-2022 GWP.	Discontinued
EO4DRM	Earth Observations for Disaster Risk Management	Existing	ASI, CSA, CNES, DLR, ESA, NASA, USGS	This activity serves as a vehicle for including CEOS WG Disasters demonstrators in the GWP. Some concerns remain with sustainability and restrictions on use of some data.	Accepted

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EO4GEOHAZ	Earth Observations for Geohazards, Land Degradation and Environmental Monitoring	Existing	Czech Republic, Germany, Spain, EuroGeoSurveys	Did not submit an IP for the 2020-2022 GWP.	Discontinued
EO4HEALTH	Earth Observations for Health	Existing	United States	Proposed as an Initiative	Pending decision by the PB re acceptance as an Initiative
EO4MINERALS	Earth Observations for Managing Mineral Resources	Existing	Austria, EuroGeoSurveys	The only geology-focused activity in the GWP, combining two existing CAs. Progress has been slow in 2017-19, but several funding applications are pending.	Accepted
EO4WEF	Earth Observations for the Water-Energy-Food Nexus	Existing	United States, Norway	A focus for the efforts in this activity has been through a Future Earth cluster project, which is currently in its final stages. The report from this project is expected to shape the directions for the activity in the next period.	Accepted
AFRICULTURES	Enhancing Food Security in African Agricultural Systems with the support of Remote Sensing	New	Spain, Greece, Netherlands	Well-funded project looking to provide services to support agriculture in Africa, mostly at farm level. Some concerns remain regarding breadth of plans and ability of the group to deliver.	Accepted
HI-RES NIGHT LIGHT DATA	Generating a Global High-resolution Nightlight Product for Disaster Risk Management	New	China	One of two night light CAs proposed from China. Merger with the other activity was proposed by GEOSEC and accepted.	Merged into NIGHT LIGHT
GEO EV	GEO Essential Variables	New	CREAF, Switzerland	Proposed as an Initiative, recommended by PB Review Team as a CA or FT. GEOSEC view is that it fits better for now as a CA. Will reassess once the activity has progressed further.	Accepted
GEO CDR	GEO Satellite-based Climate Data Records Production and Service	New	China	Need to discuss the best fit for this activity - GEO or PO, and if it is an opportunity to create a broader collaboration on this topic.	Accept pending review by GEO SEC climate expert
G4AW	Geodata for Agriculture and Water	Existing	Netherlands	Important domain for GEO, but the CA is currently just an NSO programme. Discussion planned between NSO and GEOSEC to broaden the activity.	Accept pending discussion with NSO
GEODESY4 SENDAI MONITORING	Geodesy for the Sendai Framework	New	IAG IUGG	Initial focus is on tsunami monitoring but broader intent is to demonstrate services based on geodesy related to disaster risk reduction.	Accepted

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GEP	Geohazards Lab and Thematic Exploitation Platforms	New	France, Italy, ESA	Proposal recently received.	Not yet reviewed
AGRI DROUGHT MONITORING	Global Agricultural Drought Monitoring	Existing	China	Useful activity but current activities take place mainly in Asia. Needs to engage additional partners.	Accepted
CROP PEST MONITORING	Global Crop Pest and Disease Habitat Monitoring & Risk Forecasting	Existing	China, UK	The current products cover mainly China and only in Chinese. Proposers have plans to go global and provide access in other languages.	Accepted
GEOARC	Global Ecosystems and Environment Observation Analysis Research Cooperation	Existing	China, US, Australia, Bangladesh, Pakistan	Produce mainly reports. Methodologies are not shared. Proposers agree to work toward an open science approach.	Accepted
GLOFAS	Global Flood Awareness System	Existing	ECMWF EC/JRC	Operational programme. Discussion planned during GEO Week 2019 to discuss potential for collaboration with GLOBAL FLOOD RISK and GEOGLOWS.	Accepted
GLOBAL FLOOD RISK	Global Flood Risk Monitoring	Existing	USA	Discussion planned during GEO Week 2019 to discuss potential for collaboration with GLOFAS and GEOGLOWS.	Accepted
GFCS-GEO	Global Framework for Climate Services - GEO Collaboration	Existing	USA, Germany	Focus was on establishing data connections between GFCS and the GEOSS Platform. In discussion between GEOSEC and the CA leads it was decided that this could be done directly rather than through a GWP activity.	Discontinued
GLOBAL LAND COVER	Global Land Cover	New	China EC/JRC IIASA	The inter-comparison of LC-LCC products is valuable with active participation from main players. Proposers were encouraged to contact JRC and IIASA whose participation is now confirmed.	Accepted
GLOBAL MANGROVE	Global Mangrove Monitoring	Existing	United States	Overlap with mangrove monitoring efforts within GEO Wetlands. Integration with GEO Wetlands has been agreed, with addition from JAXA's Global Mangrove Watch (GMW).	Merged into GEO Wetland
MARINE ECOSYSTEM	Global Marine Ecosystem Monitoring	Existing	China	Potential overlap with Blue Planet and GEO BON. Merger recommended to the proposer. No feedback received so far.	Pending discussion with China

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GEO DELTA & ESTUARY	Global Observation on Deltas and Estuaries	New	China, CCOP	A good proposal in general, with clarifications to be made on exact data sources and sharing of methodologies.	Accepted
HIMALAYAN GEOSS	Himalayan GEOSS	Existing	ICIMOD	Appears both as a CA and a task in AOGEOSS in GWP 2017-2019.	Merge into AOGEOS pending discussion with ICIMOD
IN SITU ESC	In-Situ Observations and Applications for Ecosystem Status of China	New	China, Tajikistan, Kazakhstan	Addresses an important issue for GEO on in situ data in an otherwise data sparse region (Central Asia). Proposers were encouraged to reflect the actual contributions they can make.	Accepted
IN-SITU WATER	In-situ Observations and Practices for the Water Cycle	Existing	Germany	Closely linked to GEOGLOWS. Integration into GEOGLOWS has been mutually agreed.	Merged into GEOGLOWS
RESILIENCE-IO	Integrated City-Region Systems Modelling	Existing	UK, China, Ghana, Switzerland, UK	Valuable work, however the lead has not submitted an IP yet. GEOSEC will continue discussion with the lead.	Pending submission of IP
LANDCOVER	Land Cover and Land Cover Change	Existing	JRC/EC, GOF-C-GOLD/GTOS, China, IIASA	Project completed. JRC and IIASA to engage with GLOBAL LAND COVER.	Discontinued
DAMSAT	Minimising the Risk of Tailings Dams Failures through the use of Remote Sensing Data	New	United Kingdom, Peru	Proposal recently received.	Not yet reviewed
GEO MUSYQ	Multi-Source Synergized Remote Sensing Products and Services	Existing	China	Clarification needed on policy of data sharing. Revision has been made.	Accepted
NIGHT LIGHT	Night-time Light Remote Sensing for Global Sustainability	New	China, Israel, UNITAR	Potential overlap with GUOI or HUMAN PLANET. Proposers narrowed the plans to serve dedicated users such as Asian Develop Bank.	Accepted
DATA SCIENCE SCHOOLS	Research Data Science Summer Schools	Existing	CODATA	Did not submit an IP for the 2020-2022 GWP.	Discontinued

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SOCIOECO BENEFITS	Socio-Economic Benefits of Earth Observations	Existing	Australia, EC (JRC), USA, IEEE	Did not submit an IP for the 2020-2022 GWP.	Discontinued
SPACE & SECURITY	Space and Security	Existing	SatCen, ESA, WFP	Most planned activities focused on expanding participants and communications. GEO SEC recommended focus on a pilot project, with expectation to meet requirements by the end of 2020	Accepted
SCO	Space Climate Observatory	New	France	Early stage activity that needs further elaboration and refinement. Proposed as an Initiative, recommended by PB Review Team as a CA.	Accepted
TIGGE	Thorpex Interactive Grand Global Ensemble Evolution into a Global Interactive Forecast System	Existing	ECMWF, WMO	Ongoing programme of a GEO PO. Discussion ongoing to reorient the activity to a collaborative project with other partners.	Accepted