

Cross-Working Group Mapping Exercise and Outcomes of the GEO Climate Workshop

**Climate Change WG
Disaster Risk Reduction WG
Capacity Development WG**

A black pushpin is pinned to a blue background with a white grid pattern. The pushpin is positioned on the right side of the image, with its sharp point pointing towards the bottom center. The grid lines are thin and light blue, creating a subtle pattern across the entire background.

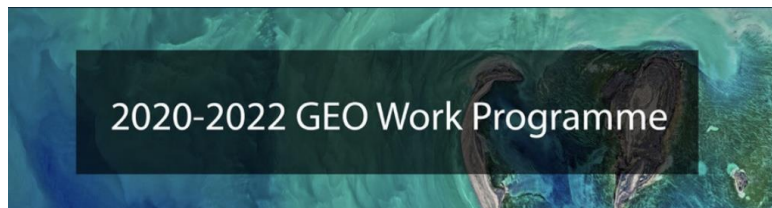
GEO Work Programme Mapping

Initial results

Background information

- **Aim to identify potential disconnect and synergy opportunities** among GWP activities to meet policy needs while contributing to next GWP
- **Cross-WG effort** among CC, DRR, CapD since the end of 2020
- **Technical support** from ESRI (Pat Cummins) and AmeriGEO (America Alvarez)
- **6 sections:** 1) GEO WP activity identification, 2) scope and area of impact, 3) CC, 4) DRR, 5) CapD, 6) additional feedback
- **Officially launched on 31 August** through invitations to GEO WP leads (initial deadline 10 Sept)

Mapping interface and Dashboard



Section 3: Climate Action

1. Does your GEO Activity provide inputs to the United Nations Framework Convention on Climate Change (UNFCCC) and Paris Agreement process?

Yes No

2. Are you collaborating with the UNFCCC national focal points in the countries your GEO activity operates in?

Yes No

3. Which, if any, of these broad areas does your GEO activity support through the use of Earth observation?

Please select all that apply.

Adaptation (i.e., climate change impacts, vulnerability, and adaptation measures to increase resilience)

Loss and damage (i.e., approaches to averting, minimizing, and addressing loss and damage associated with the adverse effects of climate change)

The dashboard is divided into two main sections: Section 2 and Section 3. Each section features a list of GEO Activities on the left and a grid of charts and summary cards on the right.

Section 2: Scope & Area of Interest

Filter GEO activities by: All | Community Activity | Flagship | Initiative | Regional GEO

Filter GEO activities by survey: All | Complete | Incomplete

- ACIS**: Last Submitted: August 25, 2021, Status: **Incomplete**
- AFRICULTURES**: Last Submitted: September 10, 2021, Status: **Complete**
- AFRIGEO**: Last Submitted: September 11, 2021, Status: **Complete**
- AGRI-DROUGHT**: Last Submitted: September 20, 2021, Status: **Complete**
- AMERIGEO**: Last Submitted: September 20, 2021, Status: **Complete**

Forest Focus

Community Activity: 52.17%, Initiative: 30.43%, Flagship: 8.7%, Regional GEO: 8.7%

Local Geographic Focus

Community Activity: 20.41%, Initiative: 11.76%, Regional GEO: 11.76%

Section 3: Climate Action

Filter GEO activities by: All | Community Activity | Flagship | Initiative | Regional GEO

Filter GEO activities by survey: All | Complete | Incomplete

- GFOI**: Last Submitted: September 13, 2021, Status: **Complete**
- GFRM**: Last Submitted: September 10, 2021, Status: **Complete**
- GLOFAS**: Last Submitted: September 14, 2021, Status: **Complete**
- GOS4M**: Last Submitted: September 13, 2021, Status: **Complete**

Provides Inputs to UNFCCC & Paris

Yes: 12.5%, No: 64.06%, Did not answer: 23.44%

Supports Adaptation with EO

Community Activity: 41.94%, Initiative: 41.94%, Flagship: 6.45%, Regional GEO: 9.68%

Conducts Activities for Climate Science

Community Activity: 47.06%, Initiative: 35.29%, Regional GEO: 17.65%

Works with WMO

Community Activity: 50%, Initiative: 33.33%, Regional GEO: 16.67%

Summary Cards

- Flagships**: 4 (Total Flagships: 4)
- Initiatives**: 20 (Total Initiatives: 20)
- Community**: 36 (Total Community Activities: 36)
- Regional**: 4 (Total Regional GEOs: 4)

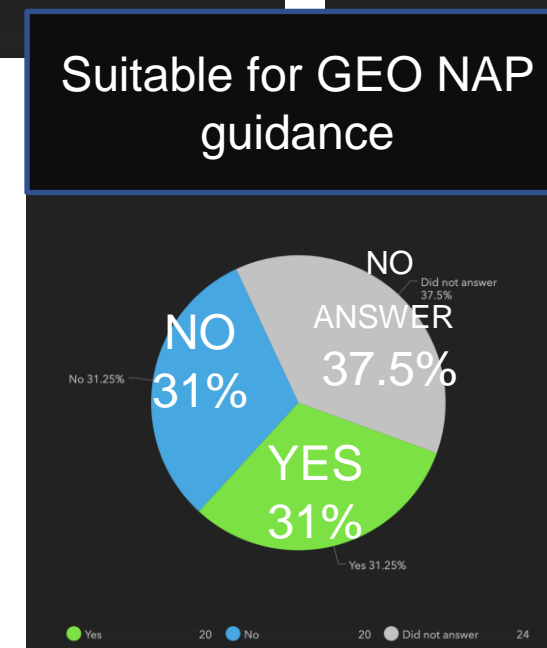
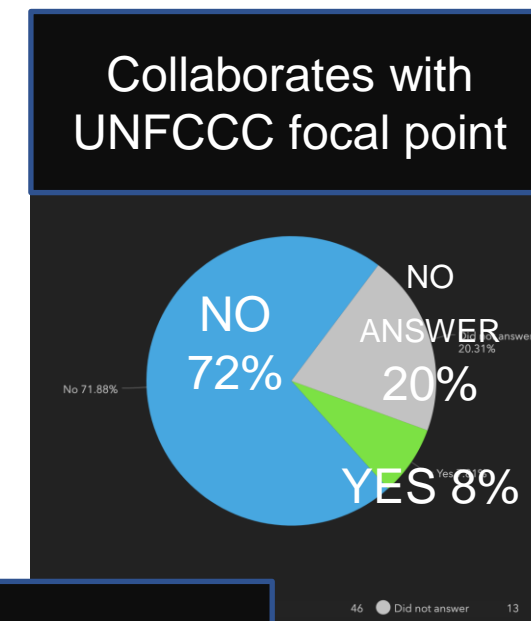
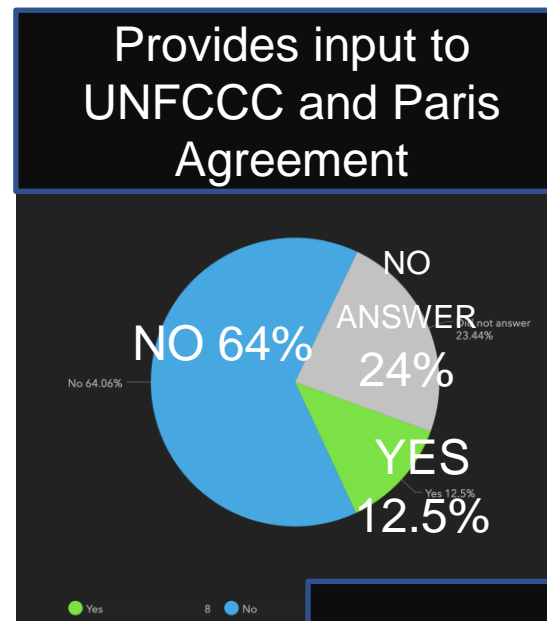
Climate Action

GEO WP link to climate policy is still weak

- **Input to UNFCCC/PA process:** 8 activities
- **Collaboration with UNFCCC focal points:** 5 activities
- **Support to UNFCCC Parties (e.g., reporting):** 7 activities

But...focus/support areas tell us something else

- **Adaptation:** 31 activities - of which
 - 20 are suitable for GEO technical guidance on National Adaptation Plans
 - 25 support monitoring of extreme weather events
- **Loss & Damage:** 26 activities
- **Means of implementation (finance, technology, capacity building):** 24 activities
- **Mitigation:** 18 activities
- **Climate Science:** 17 activities
- **REDD+:** 8 activities



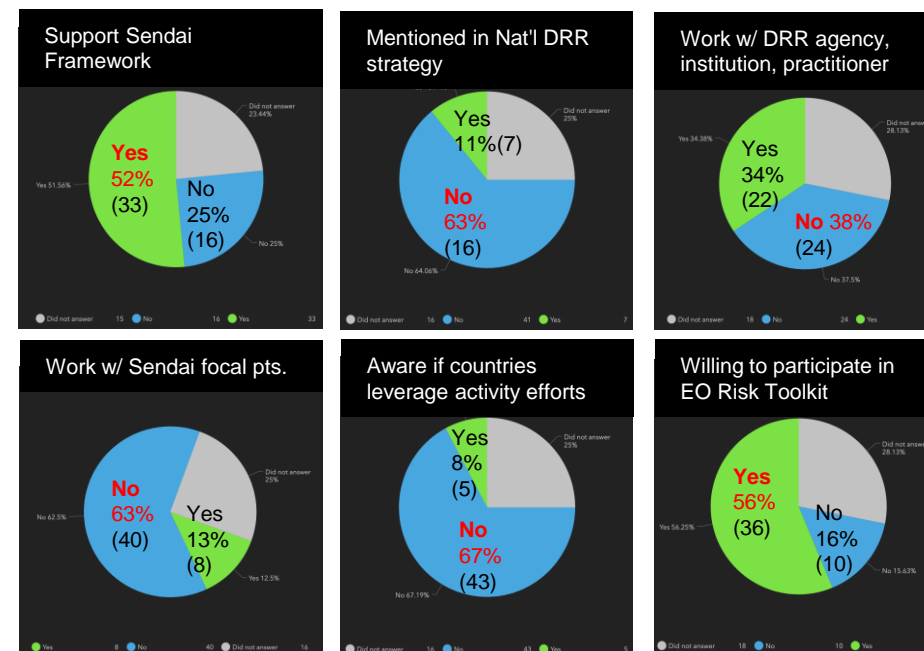
Some initial results...

Disaster Risk Reduction (DRR)

- Strength: alignment with SFDRR priorities for action
- Weakness: existing coordination/collaboration with DRR users → *need to ensure Toolkit helps match EO-tech "seeds" with user "needs"*

GWP Activities' Alignment with or Support for UNDRR Sendai Framework Priorities for Action

	Understanding Disaster Risk	Strengthening governance & management of DR	Investing in DR for resilience	Enhancing disaster preparedness for effective response, recovery, rehabilitation and reconstruction
Total	30	14	7	23
Flagship	0	0	1	1
Initiative	12	6	3	7
RegionalGEO	3	2	0	2
CA	15	6	3	13



Capacity Development

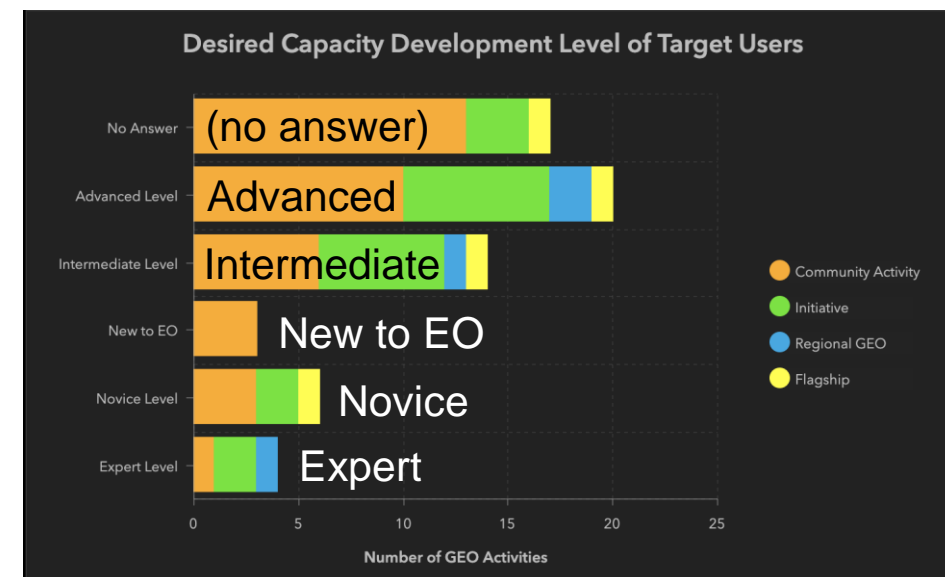
Capacity Development is an essential element for supporting both Climate and DRR activities – it is how we empower our community with the tools it needs to maximize the impact and utility of Earth Observations

Strengths – there is already a lot of interest in producing and sharing Capacity Development resources, across the GEO Work Programme

Weaknesses – collaborating across some Work Program flagships, initiatives, and community activities could be increased; there are CD resources that could be produced and shared by multiple WP components.

Opportunities – identify and curate CD resources that bridge the gap between current and desired levels, as indicated by WP components, and in collaboration with Regional GEOs

There are a lot of great CD resources already somewhere in the GEO community – how can we make sure we know what is already available, make it findable and accessible?



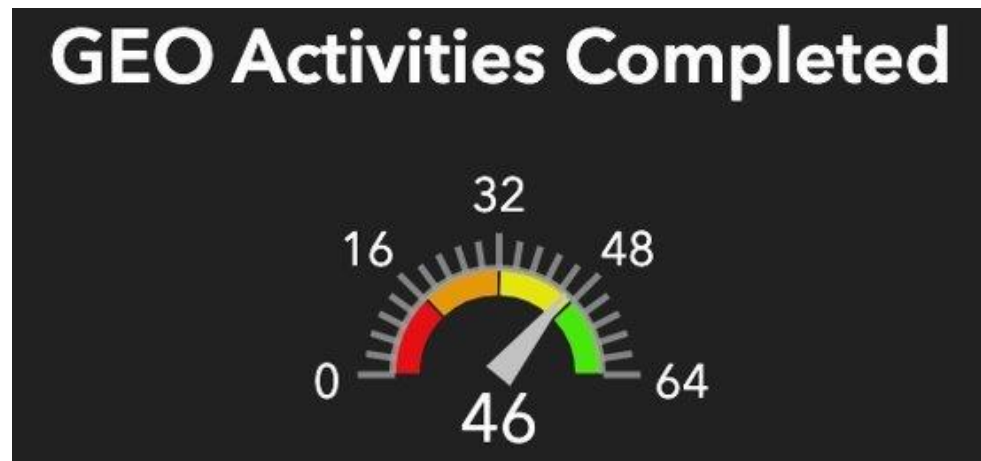
GEO Work Program components: current CD level vs. (desired CD level)

	No answer	New to EO	Novice level	Intermediate level	Advanced level	Expert level	Total
Total	15 (17)	3 (3)	9 (6)	21 (14)	11 (20)	5 (4)	64 (64)
Flagship	1 (1)	0 (0)	0 (1)	2 (1)	1 (1)	0 (0)	4 (4)
Initiative	3 (3)	1 (0)	4 (2)	5 (6)	5 (7)	2 (2)	20 (20)
Regional GEO	0 (0)	0 (3)	1 (0)	3 (1)	0 (2)	0 (1)	4 (7)
CA	11 (13)	2 (0)	4 (3)	11 (6)	5 (10)	3 (1)	36 (33)

How can we effectively gather and build CD tools for GEO toolkits?

Initial observations

- # of completed responses: 46 out of 64 (good!)
- Establishment of baseline
- GEO Work Programme link to policy: needs improvement
- Survey results will help guide activities of Cross-GEO Working Groups



Next steps

- Continue mapping: open-ended process (second deadline for submissions/updates tbd)
- Gaps report to PB in 2022 to inform call for proposals for next GEO WP
- Dashboard to be hosted on GEO website



GEO CLIMATE WORKSHOP **POLICY + FINANCE**

21-23 SEPTEMBER 2021

Outcomes

Climate Change WG

Workshop Mandate and Structure

GEO Climate Policy + Finance Workshop Structure



Theme: **Earth Observations for climate ambition**

- Day 1: EO in support of national climate action
- Day 2: EO for collective ambition on climate
- Day 3: EO for climate finance decisions

Key Workshop Objectives/Expected Outcomes

Objective

Present results of the 2021 mapping of GWP climate-related activities; spotlight examples of work, case studies and best practices for uptake by policy makers;

Foster collaboration with key partners in the EO enterprise and climate domain, e.g. CEOS, UNFCCC, GCOS, IPCC, and WMO/WCRP;

Identify what is missing / what the synergies are in terms of EO for climate action, with an emphasis on meeting the needs of policy makers and key partners;

Initiate a path forward for climate-related activities in the GWP aimed at **filling the identified gaps and taking advantage of synergies, scaling up and connecting relevant activities to decision makers** thus contributing to the implementation of the UNFCCC Paris Agreement.

Explore the role of Earth observation data to support policy and investment decisions and relevant collaborations

Position GEO for COP26 and **future mandate under the UNFCCC**

Expected Outcome



Increased awareness of the contribution of GWP activities to support national and global climate action;



Increased collaboration with GEO partners on relevant activities identified; and



Increased uptake by policy makers of EO-based data and products generated by the GWP activities to fulfil their commitments under the Paris Agreement;



Preliminary identification of gaps / synergies in the GWP that will form the basis of the **report on the way forward that the CC-WG** will be presenting to the **PB in Q2 of 2022.**



Raised awareness of the scope of the new workstream on climate finance across the GEO community; improved understanding of existing landscape; assessment of interest in engaging.



Key messages for COP26 agreed, including demonstrations of how GEO is (potentially) contributing to national reporting and Global Stocktake

Workshop Summary and initial Outcomes

Three days of virtual workshops of 3 hour-sessions across all time zones

- **57 Speakers & 35 Presentations** from International Organizations, Private Sector and the EO community
- **500 registrations: 300 unique participants for the entire workshop**
- 11+2 presentations from GEO Work Programme + GEO Indigenous Alliance + GEO CC-DRR-CapD Working Groups
- 3 presentations by GEO members: UK (Defra), Costa Rica (MINAE), Germany (GIZ)
- 10 presentations from Participating Organizations: UNFCCC, IPCC+GCOS, WMO, SPC, CfRN, ICIMOD, CEOS, UNITAR-UNOSAT, UNEP, and World Bank
- 10 presentations from external partners and prospective Associates*: ARA Network, Green Climate Fund, UNEP FI, WGIC*, WattTime/ClimateTrace, Planet*/Carbon Mapper, Commonwealth Secretariat, Catapult/ Oxford Sustainable Finance Programme, Allianz RE, HKV, Rabobank, Willis Towers Watson (former Acclimatise)*

Involvement of GEO Work Programme Activities:

Day 1: EO for national climate action

> GEOGLAM, GEOGIOWS, GEO Blue Planet, SCO, DEAfrica

Day 2: EO for collective ambition on climate

> GEO Blue Planet, GFOI, GWIS, GEO Mountains, GEOBON, GEO Human Planet

Outcomes:

- **Broad endorsement for GEO to further identify its unique contribution for a prospective mandate under the UNFCCC, to support national and global climate policy efforts**
- **Official launch of the "GEO Climate Finance" Campaign**

Workshop Stakeholders

GEO Work Programme



The GEO Human Planet Initiative

Global Wildfire Information System (GWIS)



GEO Members



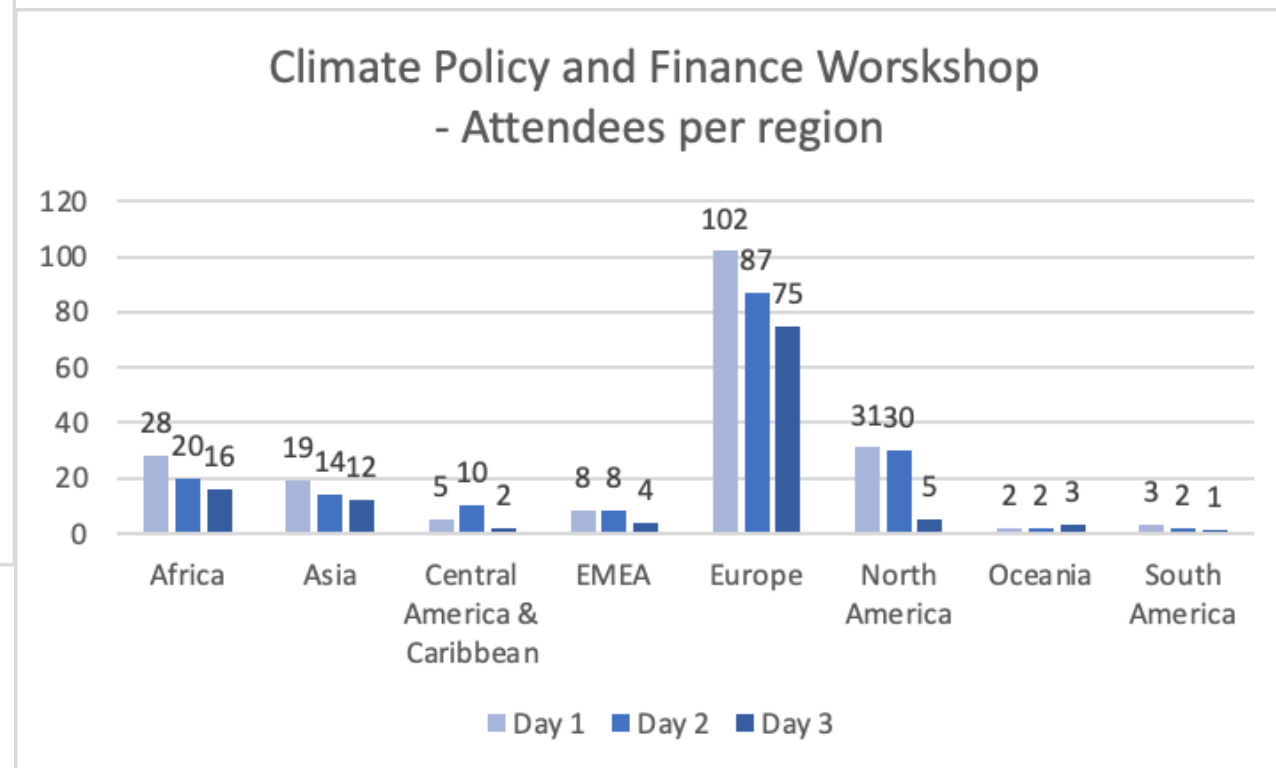
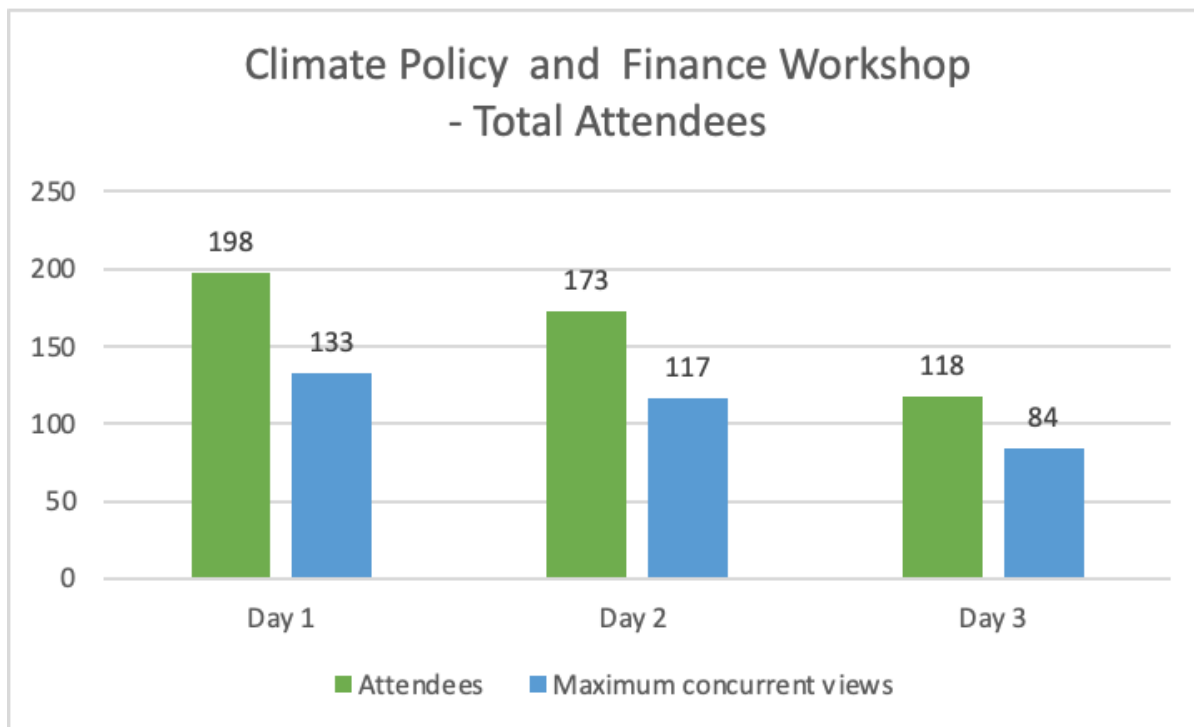
GEO Participating Organizations



External Partners and prospective Associates



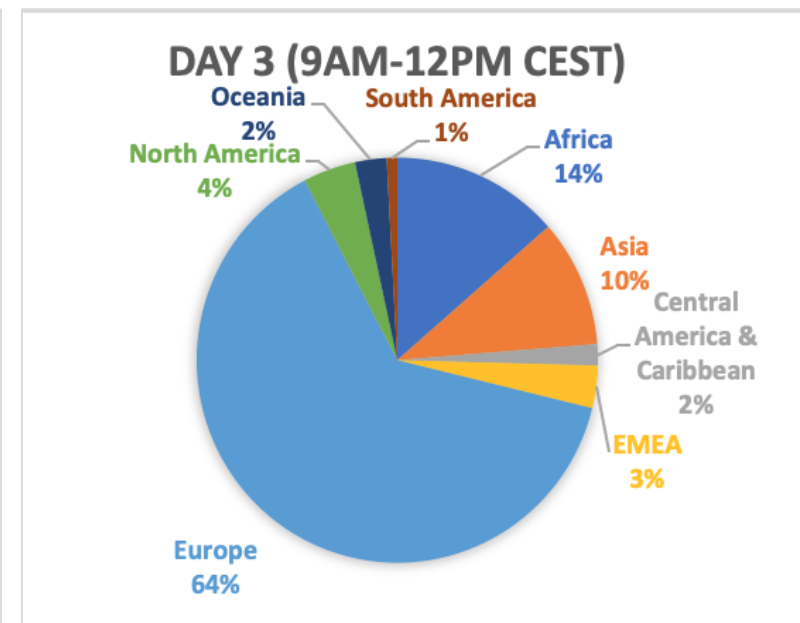
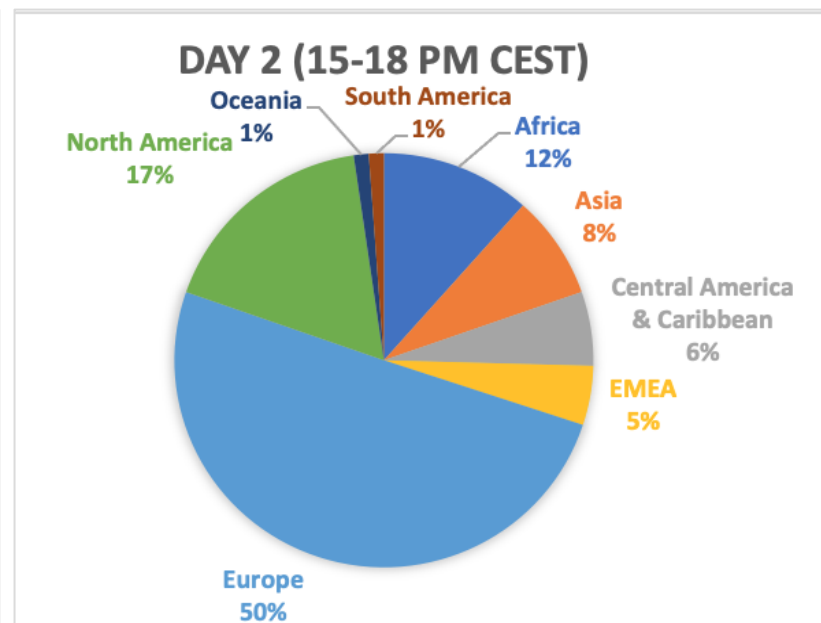
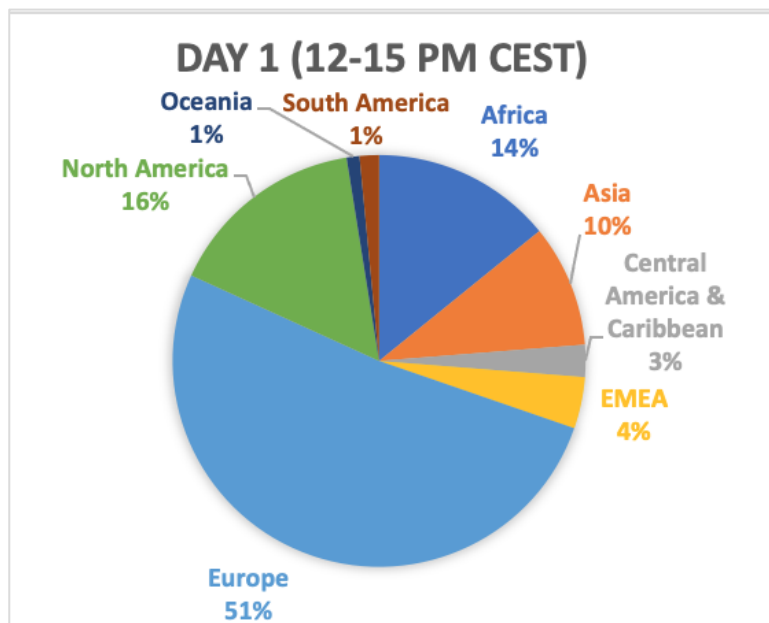
Workshop Participation: total numbers



Day 1: 198 participants
Day 2: 175 participants
Day 3: 118 participants
= 300 unique participants overall

Unique participants per day

Workshop Participation: regional breakdown



Unique participants per day