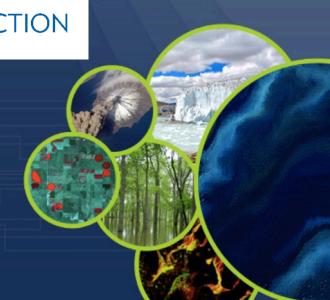




Rui Kotani, DRR Coordinator, GEO Secretariat Dave Borges, NASA, GEO DRR WG co-chair

WG Disasters 19 in Cordoba 18 April 2023





- GEO is an international partnership working towards a future where decisions and actions for the benefit of humankind are informed by coordinated, comprehensive and sustained Earth observations
- Ever since its inception, GEO has been a strong advocate for broad open knowledge policies and practices









2023 GEO Week & Ministerial Summit

Where & When

Cape Town, South Africa. 6-10 November 2023

Context

- A strategic inflection point for the planet:
 The triple crisis of climate change,
 biodiversity loss and pollution.
- And for GEO: it's time to agree on a new direction for post-2025.
- Despite an abundance of information sources, access and use of Earth observations is not widespread.
- We need a new, fit-for purpose GEO that accelerates equitable access to Earth observations, and produces information that leads to implementation.



Objectives

 Increase visibility of the critical role of Earth observations, and the GEO partnership.

 Secure ministerial validation of GEO's post-2025 strategy through a Declaration, and a mandate to develop an implementation plan based on this direction.

 Secure and showcase commitment for the implementation of GEO's post 2025 direction, from ministers and GEO partners.

 Provide the GEO community with opportunities to showcase their work and network with each other.





Key elements of a Future of GEO

(Recap from PB-24)

Precise impact indicators

Engagement openess collaborative Funding

Real inclusineveness ARD

Making impact Agility transparency artnerships

Relevant

fastpaced Efficiency

trust

BudgetSolutions turst

inclusive user driven

inclusivity financed

service driven

Implementing innovative operational delivery

Results

Invlusive Essential Variables

Integration1



2023-2025 GWP review



(Recap from PB-24)

Bilateral engagements --> opportunities for collaboration

Implementation Plans — analysis of GWP activities: outputs, users, capacity-building, resources

Results orientation
 — monitoring and evaluation

• Internal process — redesigned communications



The approach



(Recap from PB-24)

GEO Work Programme 2023-25



Continued coordination and integration



Post-2025 incubators



Learn, replicate, scale



Post-2025 GEO Work Programme



Possible incubators



Nature-based Solutions

Ecosystem extent mapping and monitoring

Climate-Urban Health

Global integrated heat and health information system

DRR/Multihazard-risk

3 emerging ideas discussed

Ocean-Climate

Ocean debris monitoring system

Cryosphere

tbd



Coordination workshops 2022/23

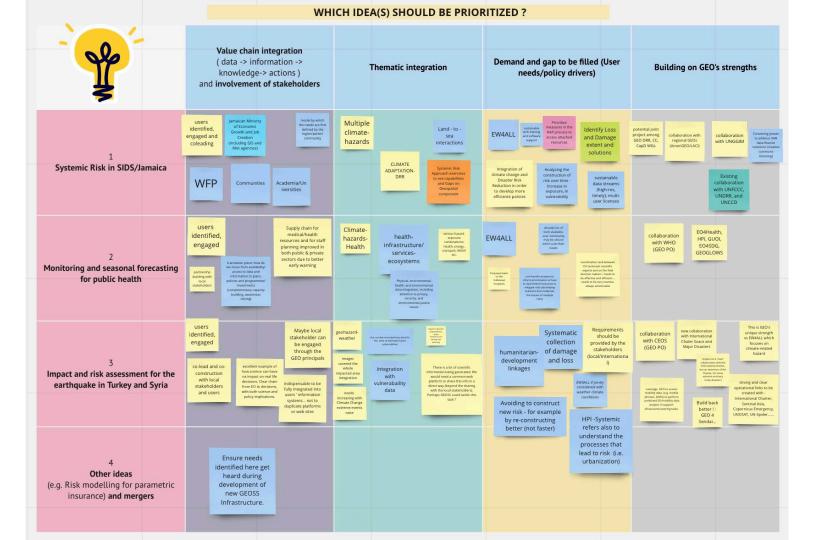








The 1st GWP Coordination WS on DRR/multi-hazard risk 16 March 2023





Need leaders







Possible incubators



Nature-based Solutions

Ecosystem extent mapping and monitoring

Climate-Urban Health

Global integrated heat and health information system

DRR/Multihazard-risk

EW4AII ?

Ocean-Climate

Ocean debris monitoring system

Cryosphere

• tbd

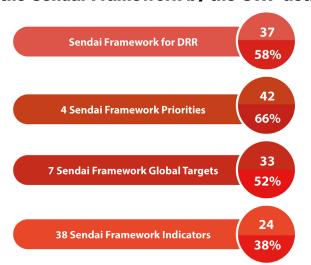


GEO Work Programme is strongly aligned and supports the Sendai Framework,



i.e. early warning and info assessment

Indicated relevance across key elements of the Sendai Framework by the GWP activities



GEO activities directly supporting one or more of the 7 Sendai Framework Global Target



Increasing availability of and access to Multi-Hazard **Early Warning Systems** and **DRR info assessments**



The UN Global Early Warning Initiative for the Implementation of Climate Adaptation











Figure 1: Budget overview for the four Pillars of the Early Warnings for All Initiative



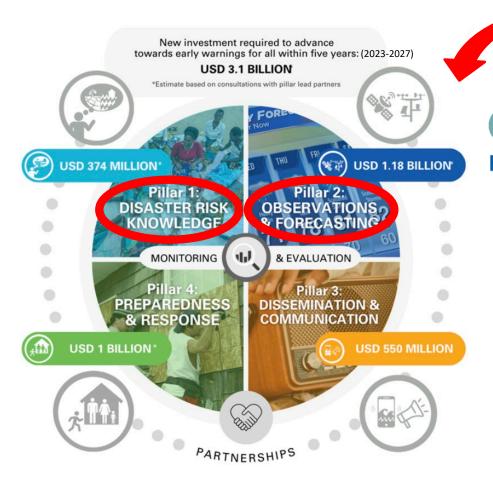




Collaboration through



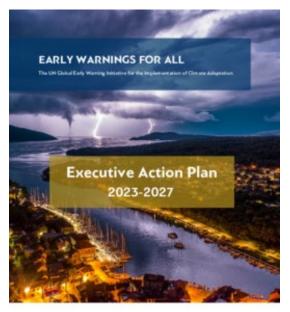






continuous coordination & collaboration critical

Figure 1: Budget overview for the four Pillars of the Early Warnings for All Initiative







We must invest eqally in adaptation and resilience.

This includes the information that allows us to anticipate storms, heatwaves, floods and droughts

Launched at COP27 (7 Nov 2022)



EW4All Initial 30 countries



- Asia and Pacific: Bangladesh, Maldives, Nepal, Lao (People's Democratic Republic), Cambodia, Kiribati, Samoa, Solomon Islands, Fiji, Tonga
- Africa: Djibouti, Somalia, Sudan, Chad, Comoros, Ethiopia, Liberia, Madagascar, Mauritius, Mozambique, Niger, South Sudan, Uganda
- Latin America and Caribbean: Guyana, Haiti,
 Barbados, Antigua Barbuda, Guatemala, Ecuador
- Central Asia: Tajikistan



STI&R, satellite for EW4AII





"The S&R communities ... will be key partners for addressing these challenges through S&T innovations, enabling this action plan and providing early warning for all"



STI&R, satellite for EW4AII



Priority actions in Pillar 1

In Year 1 - Building on the Global Status Report of MHEWS (Target G), the focus will be on establishing the state of risk knowledge through the identification of gaps (global, national and sub-national); agreeing on global to sub-national application of knowledge and policies; accelerating the use of innovation and technology to achieve the goal; and identifying a *minimum risk knowledge global and national data and capability* for early warning. This will result in a costed, national level focused plan to build this capability in coordination with existing global risk databases, relative to priority hazards, impacts and vulnerabilities.

In Year 2 - The foundations required for implementing the plan will be laid, including commitments and allocations of funding. Implementation will be initiated in a first tranche of countries. A minimum risk knowledge capability will be agreed upon and worked towards, with gaps filled at a global scale through application and integration of global projects and processes. Institutional capacity to deliver support with and by national actors will be built.

- **Year 3** Will be about further implementing the plan with an increase percentage of target countries (at least 40%) starting to achieve the minimum.
- **Year 4** Will accelerate implementation with 80% of countries starting to achieve the minimum risk data and capability.
- Year 5 Will see all countries achieving the minimum risk data and capability for risk knowledge.

The Seven Risk Knowledge Outcome Themes

- 1. production
- 2. access
- Application
- 4. M&E
- 5. Governance/collaboration/inculusion
- 6. Robust locally led understanding
- 7. innovation



STI&R, satellite for EW4AII



Key action areas in Pillar 2

1. Enhancing capacity to detect hazards:

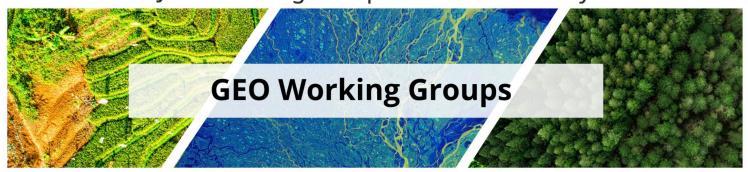
- a. Conduct gap analyses on early warning needs (national, regional) e.g. flood and drought, flash flood, tropical cyclones, heatwaves, tsunami, glacier lake outburst floods etc. Expand the Cataloguing of Hazardous Events (WMO-CHE) to all climate driven hazards and their monitoring requirements.
- b. Enhance the timely access to, and use of satellite observations and of advanced technologies (radar, lightning detection) to build up detection and forecasting capabilities: action: establish satellite nowcasting facilities in Africa and South America; funding requirements.



Improving DRR WG



Based on results from:
Joint Working Groups Evaluation Survey





GEO Secretariat: Rui Kotani (DRR Coordinator)



 Subgroup 2: UNDRR Coordination (Sendai Framework Monitoring & Global Assessments) led by Nathaniel Newlands (Agriculture/Statistics Canada)



Subgroup 1: Coordination across the GEO Work Programme led by David Borges (NASA, United States)



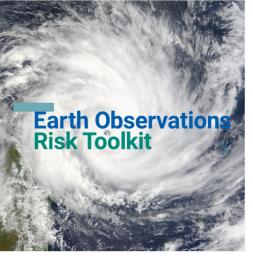
 Subgroup 3: Climate Change, SDG, Urban Activities Coordination led by Kene Onukwube (DEAR Africa, Nigeria)



More impact stories needed









- ✓ EO Risk Toolkit
- ✓ New GWP activity landing page
- ✓ GEO Highlight Report





Thank you