

6-10 NOVEMBER #TheEarthTalks
CAPE TOWN, SOUTH AFRICA

GEO WEEK & MINISTERIAL SUMMIT 2023

Show Case

Room: Freesia

7 NOV / 1100h GMT/ UTC



From Big Data to Better Decisions:

Disaster Risk Reduction (DRR) and Climate Resilience for Small Island Developing States (SIDS)

7 NOV / 1100h GMT/ UTC



Nancy Searby



Nathaniel Newlands



Virginia Buckett



Angelica Gutierrez



Lennox Gladden

AIM

- Present a draft design of a GEO DRR Working Group Sub-Group 2 Task through LACI Initiative
- Receive comments & inputs from the GEO community

How to make it a coherent "cross-Working Group task"?

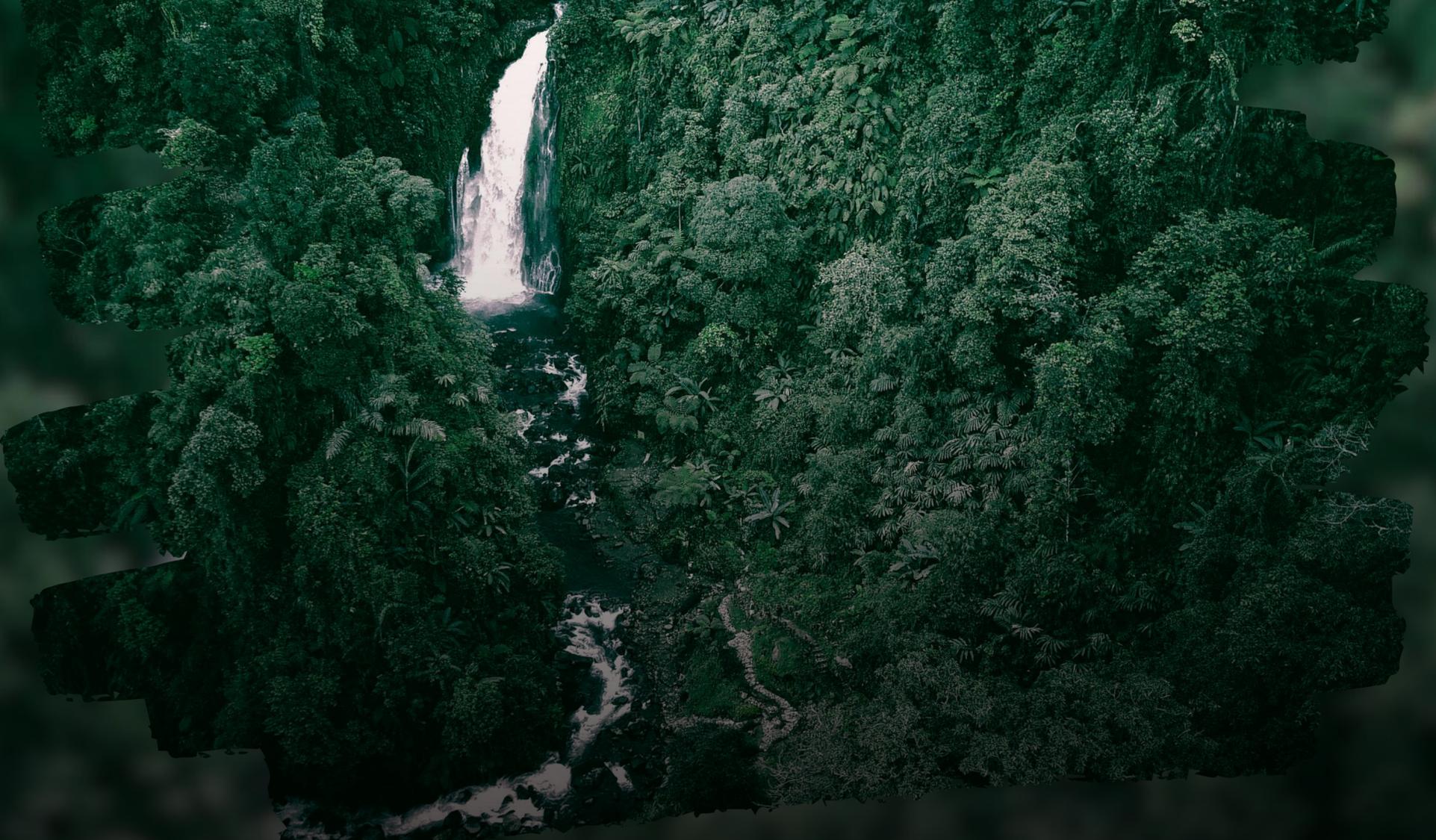
How to integrate and synergize with other ongoing activities from relevant GWP activities, Working Groups, POs and CoPs?

AGENDA

- 1** Welcome: Intro to LACI (4 min): Virginia Buckett
DDR and SIDS LACI pilot (6 min): Nathaniel Newlands

- 2** Comments from: (10 min)
 - Regional GEO / GEO Work Programme: Angelica Gutierrez (AmeriGEO/GEOGloWS)
 - PO/Member country: Lennox Gladden (Belize; UNFCCC TEC)

- 3** Discussion with audience: (10 min.)



LACI

Virginia Burkett and Nancy Searby on behalf of the LACI Core Team

Vision

To provide opportunities for partnerships across the Americas to enhance capacity for climate risk assessments that would support local and regional decision-making in response to climate change impacts.

Collaborative Effort grounded in co-design



U.S. Global Change Research Program

LACI'S ORIGIN AND REGIONAL

IMPORTANCE

response to
AmeriGEO member
needs

unique multilateral
partnership

co-design

peer-to-peer learning
& training



NAPEXPO
CHILE 2023



Phase 1:

Scoping

Scoping

- Nov 2021 Partnership Building
- Aug 2022 Landscape Mapping

- Sept 2022 PiLot Concepts Drafting & Stocktake
- Feb 2023

PROGRESS

TIMELINE



Phase 2: Pilots Co-Design

- Dec 2022 9 Original Concept Notes Submitted

- Mar 2023 4 Pilot Activities Clusters Formed 4 Pilot Co-Design Task Teams Stood Up

● June & Aug 2023

Pilot Activities Introduction

Peer-to-Peer Learning & Training Activities



Co-Designing LACI PILOT ACTIVITIES

1-2 year projects

Regional scalability

Capacity building



El Salvador



DATA



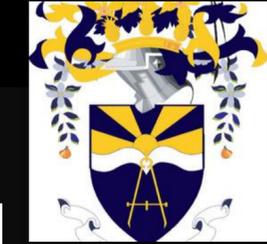
Amazonia/Indigeneous
Communities



Jamaica/DRR



Jamaica



FOCUS

To advance disaster resilience in Jamaica through co-development of geospatial decision-support tools and partnership facilitation between data producers and decision makers

OBJECTIVES

Catalyzing Partnerships

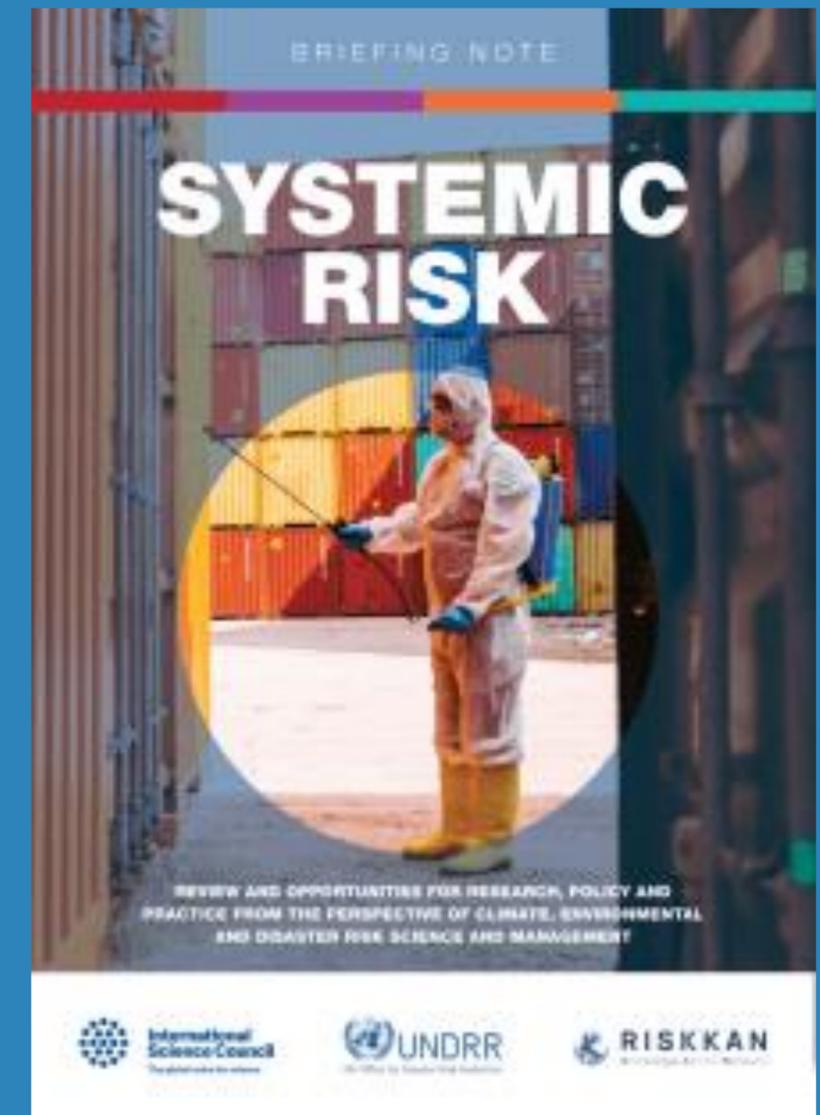
- To facilitate partnerships between GEO DRR WG and Jamaican climate/disaster experts & decision makers
- To match local capacities with strategic international partnerships for sustainable data streams, technology infrastructure, and technical training

Capacity Building

- To build on existing decision support tools based on free-and-open-source (FOSS) software

Systemic nature of disaster risk

- The **nature and scale of risk have changed**: in our increasingly complex inter-connected world risk has become systemic, challenging governance mechanisms of established risk management institutions and single-hazard approaches.
- UN Office for Disaster Risk Reductions (UNDRR) has been calling for integrated approach to address increasingly **systemic nature of disaster risk** where events overlap and interplay with multiple risk drivers (i.e. covid/pandemic, poverty, climate change, population growth in hazard-exposed areas).
- The GEO needs to work with its partners to **develop an integrated approach in recognizing the increasingly systemic and multi-sector nature of risk**.





Sendai Framework Priorities (2015-2030)

- 1: Understanding disaster risk
- 2: Strengthening disaster risk governance to manage disaster risk
- 3: Investing in disaster risk reduction for resilience
- 4: Enhancing disaster preparedness for effective response and to "Build Back Better" in recovery, rehabilitation and reconstruction

Aim

Leverage GEO efforts and resources to promote the dissemination and use of Earth observations (EO) to strengthen capabilities to reduce disaster risk according to the needs of countries as identified by UNDRR

- Serve as primary GEO liaison to UNDRR

Sendai Target A: Increased awareness and use of EO by national authorities implementing the SFDRR from the current number of countries

Sendai Target B: Increased acceptance, support, and participation by GEO member governments in activities related to EO for DRR national strategies

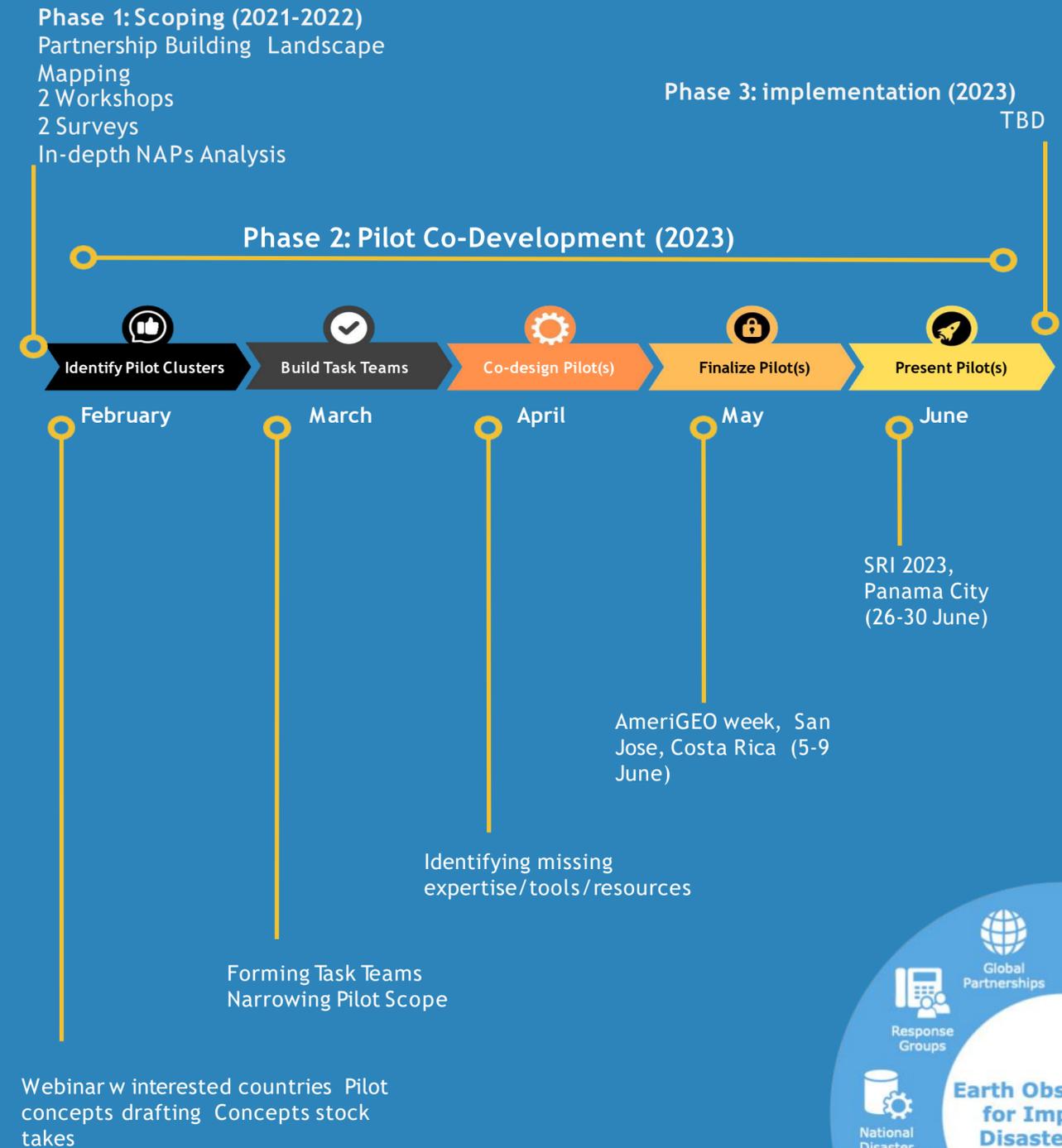
LACI Pilot - Workplan

Dr. Christy Caudill (Task Lead from GEO DDR WG)

Sustainability Studies Graduate Program Adjunct Professor and Lecturer, Trent University
 Research Scientist, Western University
 UN-GGIM Academic Network, Advisory Board Member
 PhD Earth & Space Sciences

- **Systems-thinking** approach – multiple interventions
- **Listening sessions** (communities, academia, government) – needs, gaps, multi-sectoral contexts
- **Science-policy interface** – international exchange, graduate student support
- **Capacity-building** – developing a geospatial infrastructure and training centre, short-courses, workshops
- **Breaking down silos** – collaboratively advance the use and sharing of improved/new datasets, methods, tools in DDR decision-making

Partner-led, co-developed solutions, with capacity-building



Expanding collaborative team...

Dr. Anne-Teresa Birthwright *Jamaica Task Lead* - STeP Fellow, Inter-American Institute for Global Change Research

Michelle Edwards (ODPEM) and **Simone Lloyd (NERGIST)** are in the User Co-design team of the EO Risk Toolkit, J-SRAT
Along with the UN-GGIM WG, also involved in the development of the developed the Jamaica Systemic Risk Assessment Tool (J-SRAT)

Dr. Carol Archer (Utech) current work on Hit Reset Caribbean: (Harnessing Innovative Technologies to support Resilient Settlements on the Coastal Zones of the Caribbean, Research and Innovation capacity) – Urban Resources Coordinator: Jeffrey Town Model for Community Development (case study of technological capacity-building with the rural community of Jeffrey Town, Jamaica, and the Jamaican Information and Computer Technology (ICT))

Dr. Rose-Ann Smith and Dr. David Smith (UWI) Disaster Risk Reduction Center (DRRC) at UWI, course designers

Dr. Olive-Jean Burrowes Executive Director, National Commission on Science and Technology

Dr. Harvey Hill (Govt of Saskatchewan, Strategic Policy, Trade & Export Development)

With 30+ multi-sectoral members from Jamaican academia, science, policy...beyond, and growing....



University of Technology, Jamaica

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ORIENS EX OCCIDENTE LUX



Earth Observations
for the Americas



**RURAL AGRICULTURAL
DEVELOPMENT AUTHORITY**
People, Land & Opportunity

RADA

ISO 9001:2015 CERTIFIED

Government of Jamaica 

Panel Discussion:



Angelica Gutierrez



Lennox Gladden



Nathaniel Newlands

Q&A and discussion with audience:



Virginia Buckett



Nancy Searby

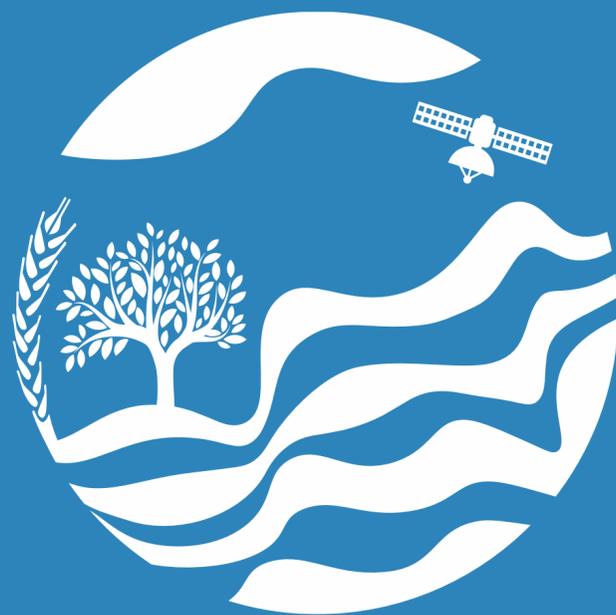


Nathaniel Newlands



**Conclusion:
Way forward**

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science & innovation

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Science and Innovation
REPUBLIC OF SOUTH AFRICA

