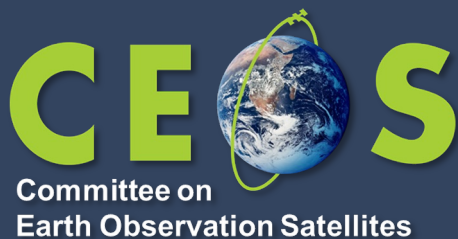


# WG Disasters Pilot and Demo Sustainability – 1<sup>st</sup> report of the subteam



Andrew Eddy  
CEOS WG Disasters Secretary  
WGDisasters Sustainability Discussion  
6 October 2022

# WGDisasters Priorities 2022-2023



**“The path to sustainability - use cases or the operational uptake of satellite EO at the local scale”**: Focus on Operational Uptake of WG successes to increase resilience

- **Demonstrators**:
  - Continue to demonstrate potential but begin **building path to sustainable operations** post demonstrator – stronger ties to international stakeholders but also local actors
  - Increase focus on **capacity building** in all demonstrator activities
- Strengthen **ties to GEO WGs** through increased visibility of WG Disasters activities within GEO
- Explore ***linkages to climate related activities***, especially through the impact of CC relating to extreme weather events and local impacts of climate (assessment, mitigation, resilience)
- Exploit ***new technology opportunities***, either through new missions, new activities or new data exploitation techniques

# Background



- ❖ Sustainability subteam with all activity leads and several other agencies created spring 2022
- ❖ Two meetings to date, in June and in September
- ❖ Survey completed across demos and pilots, highlighting commonalities and differences (see table)
- ❖ Discussion among team to come to consensus on survey results

# User Communities – a few representative examples of WG Disasters outreach



Pilot or Demo	User Community	Objective
<b>Recovery Observatory Demo</b>  <b>CC</b>	International recovery stakeholder community (World Bank/GFDRR, UNDP, EU – but also regional DRM stakeholders (e.g. CEPREDENAC) or national governments (e.g. Haiti))	Create strong consensus around use of satellites for recovery (support to PDNAs and longer-term recovery framework planning and monitoring)
<b>Volcano Demo</b>	Volcano Observatories in developing world	Showcase benefit of EO for risk reduction and improved response; develop local capacity to use EO; facilitate EO access and uptake of EO for advanced volcano products
<b>Landslide Demo</b>  <b>CC</b>	National and regional authorities International stakeholder community Insurance	Demonstrate value of using EO to understand risk and reduce risk to critical infrastructure; improve global landslide inventory used by national and local authorities
<b>Wildfire Pilot</b>  <b>CC</b>	National Forestry agencies	Better coordinate use of satellites for fire monitoring; increase use of satellites, especially new missions or different missions than those currently used
<b>Flood Pilot</b>  <b>CC</b>	National governments, civil protection agencies, watershed authorities	Showcase value of using a wide range of sensors (optical, SAR, LEO, GEO) for comprehensive flood monitoring in a few key basins

# Sustainability Challenges — and approaches to address them



- ❖ Many solutions rely on marriage of free and open data with commercial data sets – **data cost** remains a hurdle for long-term solutions, especially for risk reduction (as opposed to response and -to a lesser extent, recovery)
  - Demonstrators work with hotspots to showcase smaller scale projects that are more **affordable**, but in the long-term **scalable**
- ❖ **Awareness** of specific benefit tied to each thematic area or disaster phase still low in most communities, especially those financing risk reduction
  - Demonstrators to place more emphasis on identifying benefits from **stakeholder viewpoint**
- ❖ Understanding of **differences in satellite data** solutions still low (e.g. free and open data vs commercial datasets)
  - Focus on **integrated solutions** but bring **clear cost-benefit** to show how using commercial data sets augments overall benefit of satellite EO usage
- ❖ In many cases organizations with mandate to manage risk **do not have budgets** to invest in EO
  - Identify cost savings; identify **cost-benefit wins**; identify **new stakeholders** with more financing and forge partnerships
- ❖ Continuous effort to be put on **Capacity Building** (not only technical, decision makers too) and **co-construction**
  - Strengthen **links WG CapD / WG Disasters**, for a synergistic action ; Develop **“peer awareness”**

# Initial conclusions presented to SIT



***WG Disasters presentation for info and comments – no decision sought or required at this time.***

- ❖ WG Disasters seeks to serve as a **catalyst for uptake of EO-based DRM solutions** by real actors with strong mandates for DRM, but ***WG Disasters does not have an operational role to play***, even in the Demonstrators... Potential role in “Observatories” ?
- ❖ Increasing interactions with **GEO** community (GEO DRR WG, EO Risk Toolkit) should encourage partnerships with a new range of stakeholders
- ❖ **Partnership** is the key to sustainability, and to achieve strong partnerships, increased **awareness** of the **value of EO** is necessary (cost-benefit of advanced EO-based solutions)

***WG Disasters welcomes comments from SIT members on sustainability strategy or specific recommendations for new partnerships relating to specific Demonstrators/Pilots.***

# Next steps



- ❖ Continued activity of the subgroup through 2023
- ❖ Report to be tabled November 2022 highlighting proposed next steps:
  - Further development of cost-benefit work in each pilot/demo
  - Increased awareness of benefits from stakeholder point of view – development of awareness building plan for specific communities
  - Outreach to new partners
  - Development of data quotas for public good projects and services that are not in commercial areas (e.g. Volcano virtual observatories, RO Global Program, etc)