



Committee on Earth Observation Satellites

Follow-on on GEO DARMA: status and concept phase

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Raising awareness of Decision Makers & Key Stakeholders on the **need to use all data sources** for taking appropriate DRR and resilience measures, in all phases (not only during crisis)

Need for **sustained end-to-end solutions** with involvement of **ALL** relevant actors **from data / information providers down to final end users.**

Expect an increase in coming years of the number of countries using **space-based observations for better-informed decision making.**



So much to be done to address the priorities of the Sendai framework → a single initiative will not suffice.

Expect several “remote sensing-related” initiatives & projects to start in coming months.

Good communication between various initiatives is desirable to avoid overlaps and duplication of efforts.



GEO-DARMA Concept still to be consolidated

Goal:

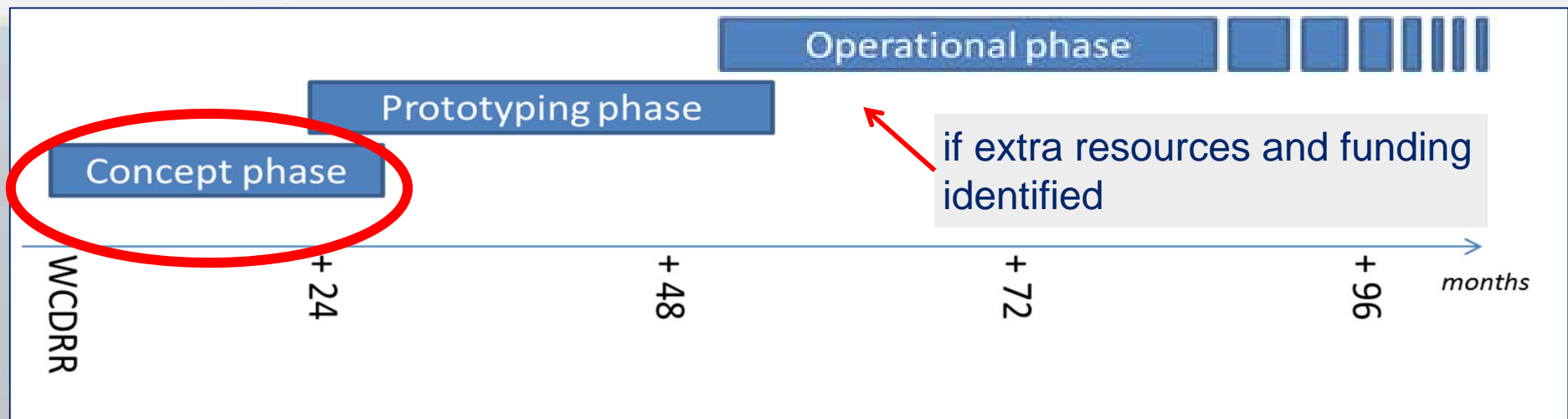
Enhance use of EO data for better-informed Disaster Risk Reduction and Resilience decision making

How:

- Series of end-to-end projects addressing priorities of the “Sendai Framework for Disaster Risk Reduction 2015-2030”.
- International Cooperation. Engagement of all stakeholders (end users, data & risk information providers, internat./national agencies, donor institutions, scientists,...)



Intention: build an international partnership with key stakeholders to define a strategy addressing high priorities of Sendai framework with **resources available, on a best effort basis, adopting a phased approach**



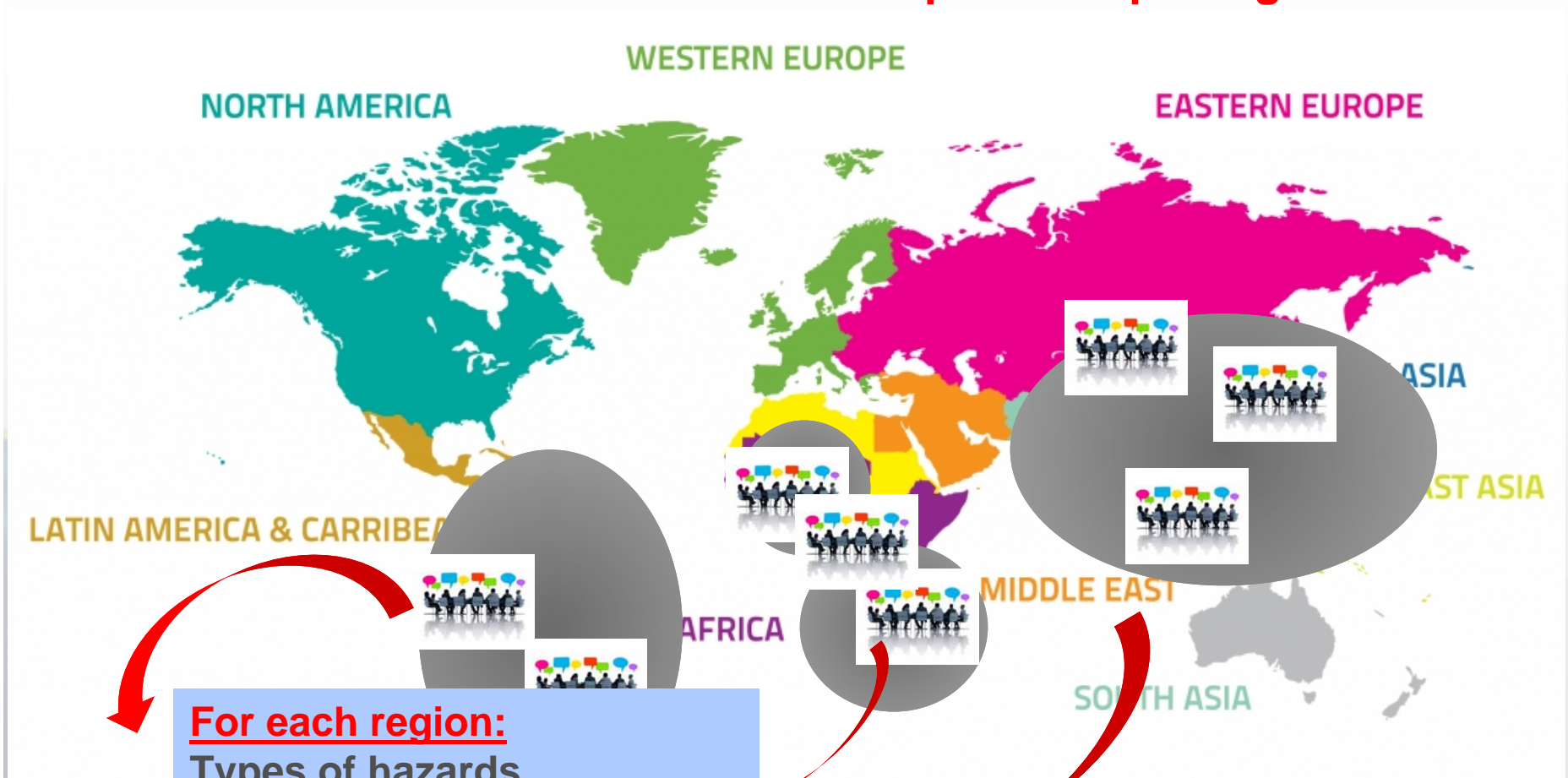
Data providers not fully aware of DRR priorities & user needs

→ Support from knowledgeable bodies needed for

.. independent assessment of DRR priorities for 2015-2030:

- 1. At regional level, 2 or 3 independent and authoritative regional institutions such as World Bank, GFDRR, UNESCAP, UNISDR, UNDP, UNOOSA, RCMRD, others, ... (start with few regions e.g. South-East Asia, South America, Latin America & Caribbean, Southern Africa)**
- 2. Identification of hazards affecting most of the countries in the region (e.g. highest human and economic losses) or of transboundary risks that require regional and multi-country involvement.**
- 3. Identification of 1st set of countries within the region that are ready to actively participate in projects at the very beginning.**

Identification of users needs and DRR priorities per region

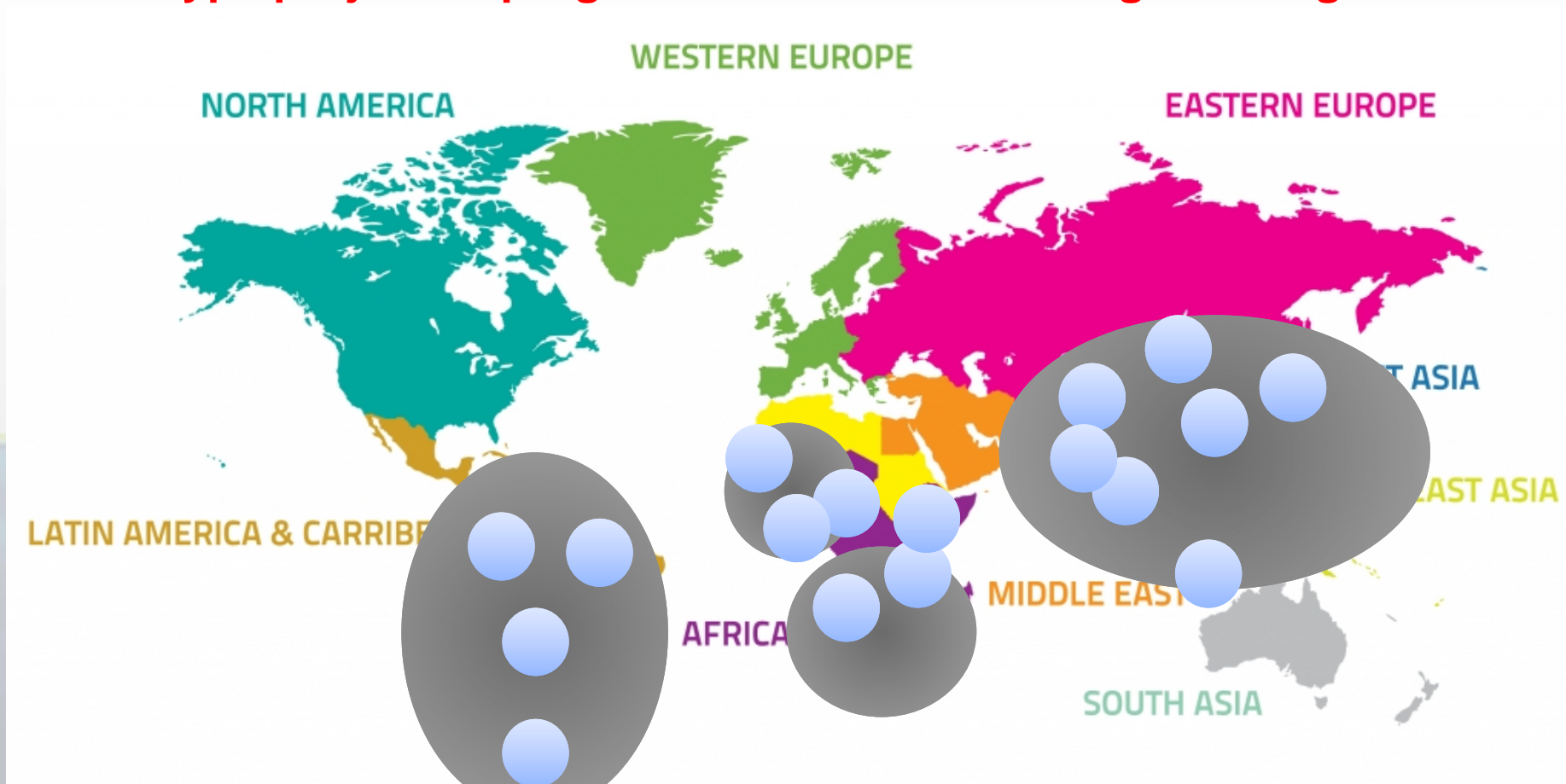


For each region:
 Types of hazards,
 DRR Issues to be solved,
 Initial countries



- 1. Realistic assessment of recommendations from Regional Institutions, given resources from the potential actors (e.g. data providers, value-added information providers, ..)**
- 2. Define and implement possible prototype projects at country level to address recommended priorities;**
 - close iterations with end users;
 - maximum reuse of existing initiatives / activities incl. operational, research, capacity building, ...
- 3. Progressive extension to neighboring countries where applicable.**
- 4. If “successful” prototype projects and if strong request from end users to continue → Assess transition to operation with identification of donors for future operational phase**

Prototype projects – progressive extension to neighbouring countries





Propose to adopt governance structure similar to GFOI incl. Steering Group (high level persons representing International Organisations, Institutional Donors, end-User Communities, Scientific communities, National Disaster Management Agencies, National Resource Management Agencies, ...)

Partnership to be built progressively according to needs / activities:

Controlled growth to avoid large unmanageable heterogeneous group with diverging objectives.

- 1st group: initial partners to serve needs of Concept Phase → mainly international / regional active Stakeholders that can contribute to the consolidation of GEO-DARMA proposal and execution of Concept phase (mainly to generate recommendations)
- 2nd group: 1st group + national countries + practitioners ... to define and execute series of projects in response to recommendations. Progressive growth of 2nd group when prototype solutions are progressively applied to neighboring countries.



GEO-DARMA Status & Issues (1/2)



GEO-DARMA proposal endorsed by GEO Plenary (Nov. 2016) but dormant since Plenary.

Currently CEOS is the only official contributor (and PoC):

- UNESCAP, UNISDR-America already contacted before GEO Plenary
- **At both the GEO Plenary and UNISDR S&T conference, CEOS has proposed UNOOSA to coordinate both the Regional Institutions and the Capacity Building activities. No follow-on reaction from UNOOSA.**

No real support from GEO Secretariat to attract other potential contributors though World Bank' interest has been mentioned by GEO SEC. Missing full-time Disaster expert at GEO Secretariat .



GEO-DARMA Status & Issues (2/2)



To foster the kick-off of GEO-DARMA, ESA's intention is to get some contractual support to help the POC (Ivan Petiteville):

- Statement of Work has been drafted
- Roughly 2 to 3 months before the contract can be placed.

Given the potential growth of GEO-DARMA with several new pilot projects in the coming years, support from WGDisasters members is sought via the creation of a GEO-DARMA subgroup within WGDisasters.

GEO-DARMA could be an excellent opportunity to start follow-on activities, based on the current pilots projects.