



Committee on Earth Observation Satellites

GEO-DARMA

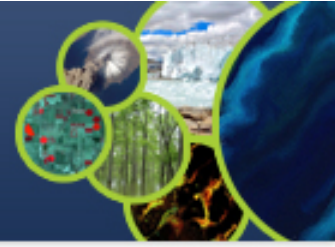
Ivan Petiteville, ESA

CEOS WG Disasters

Meeting # 6

6 – 8 September 2016





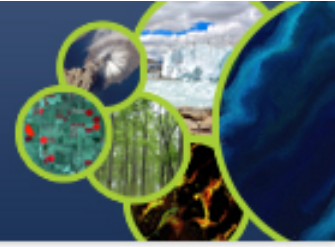
GEO-DARMA Concept still to be consolidated

Goal:

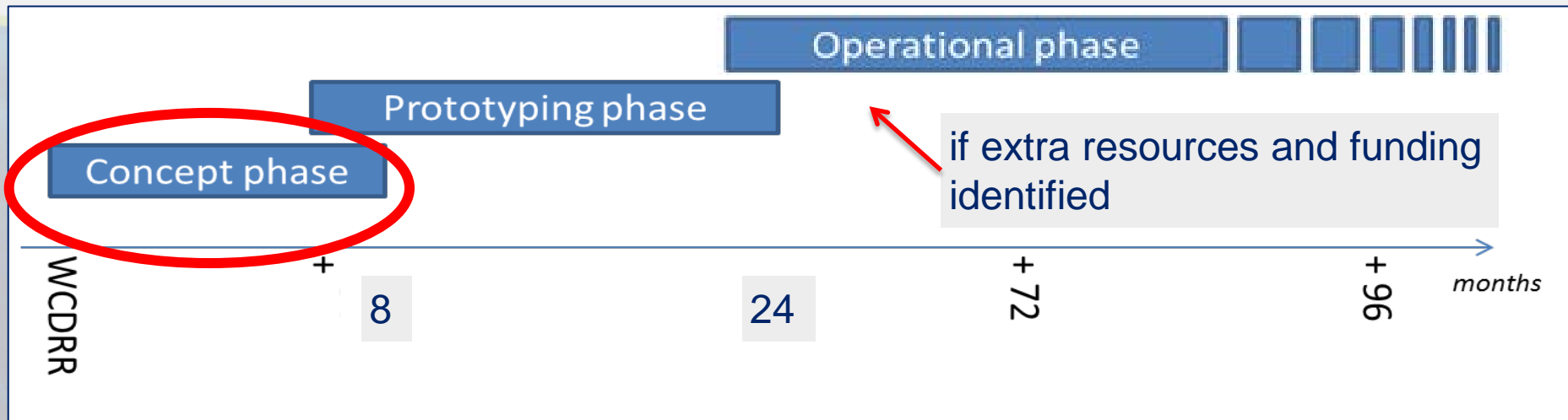
Enhance use of EO data for better-informed Disaster Risk Reduction and Resilience decision making

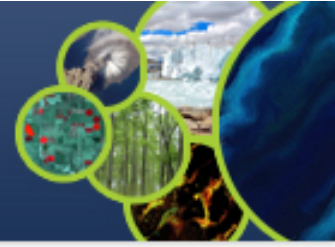
How:

- 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,...)



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, and users not aware of EO potential.

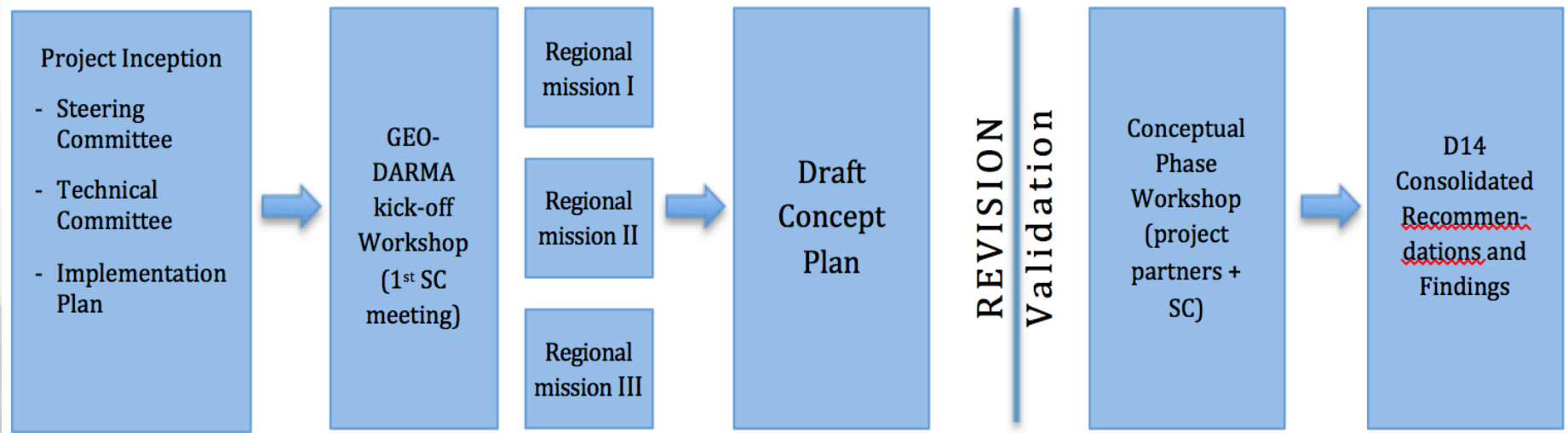
→ Dialogue with knowledgeable regional bodies needed for

.. 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 3 regions: Africa, Asia-Pacific and Latin American and Caribbean)**
- 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 national projects within the region that could integrate EO in their objectives and delivery.**

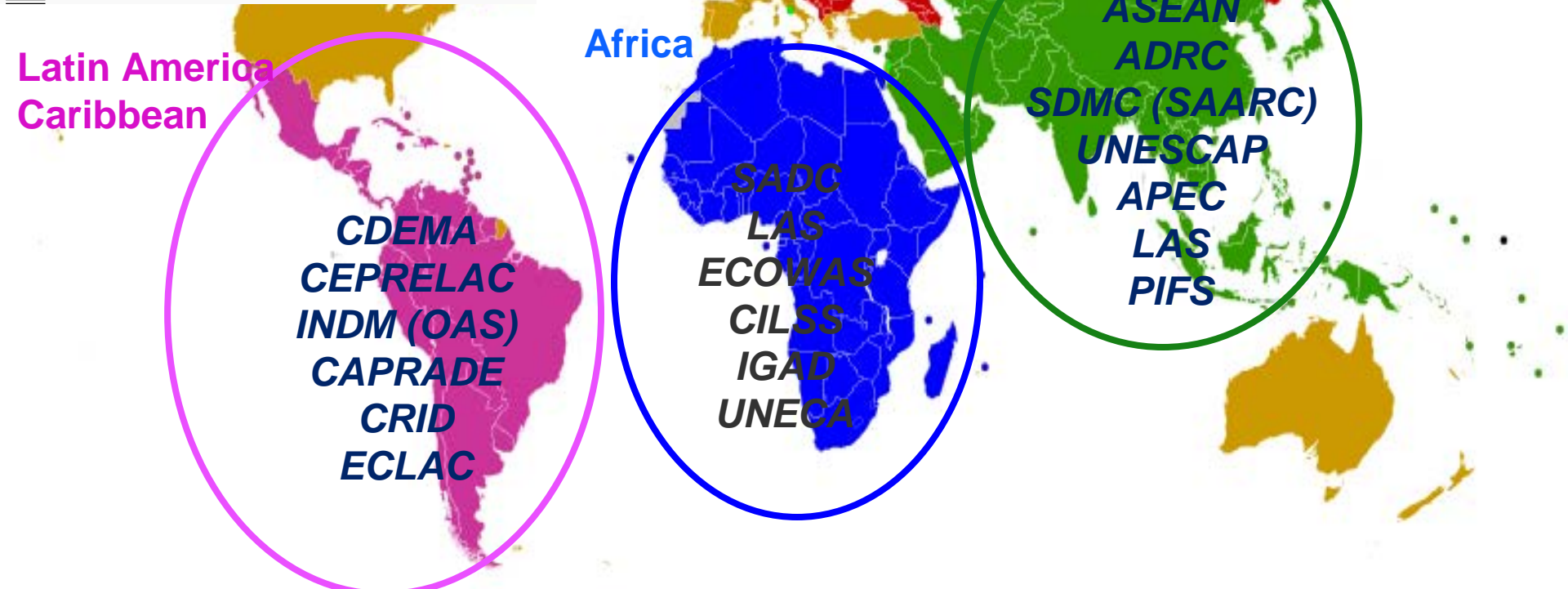
Work Flow – Concept Phase (KO to 8 Mo)

Work Logic – Conceptual Phase (KO – M8)



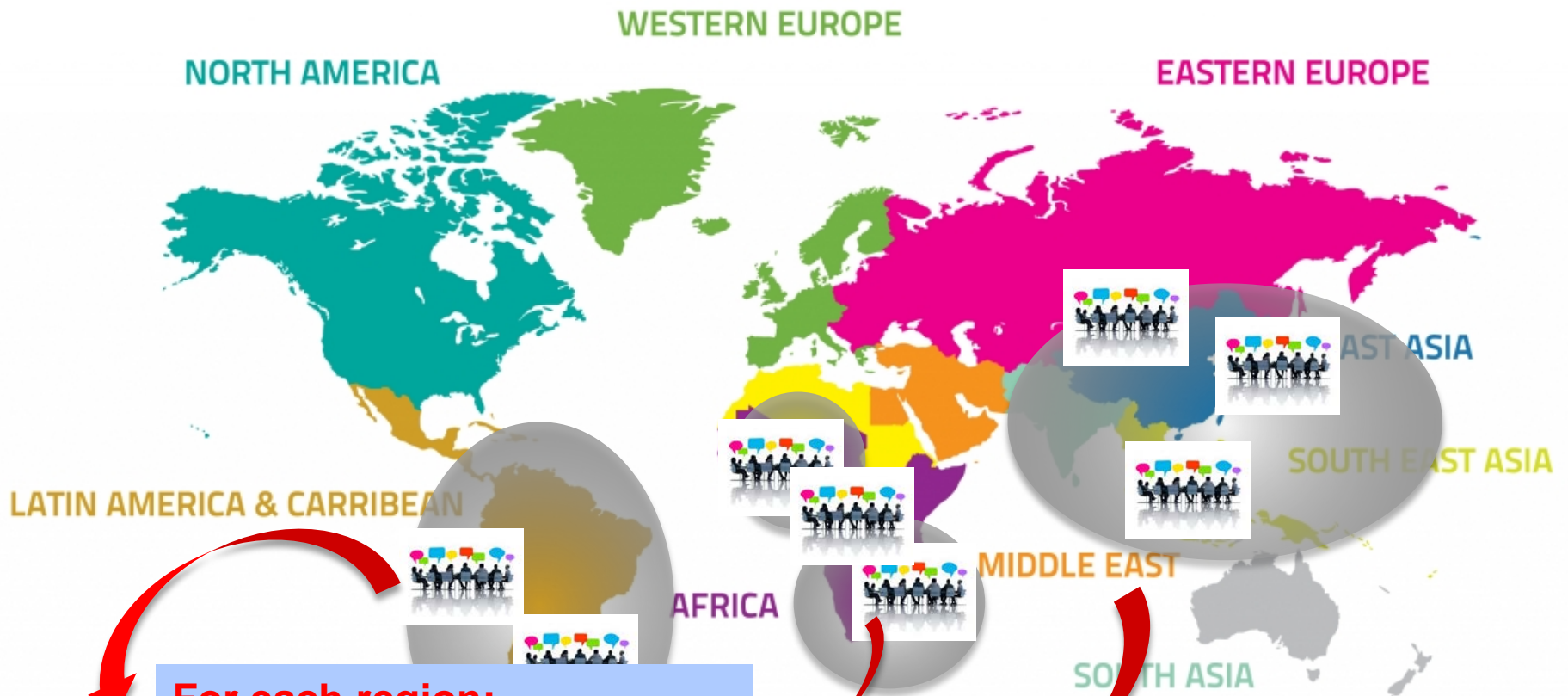


- African Group
- Asia-Pacific Group
- Eastern European Group
- Latin American and Caribbean Group
- Western European and Others Group



International: consider regional processes and programmes of World Bank, GFDRR, UNDP, UNEP, UNESCO, UNISDR, across all regions, especially in areas where there is no regional organisation (e.g. Central Asia)

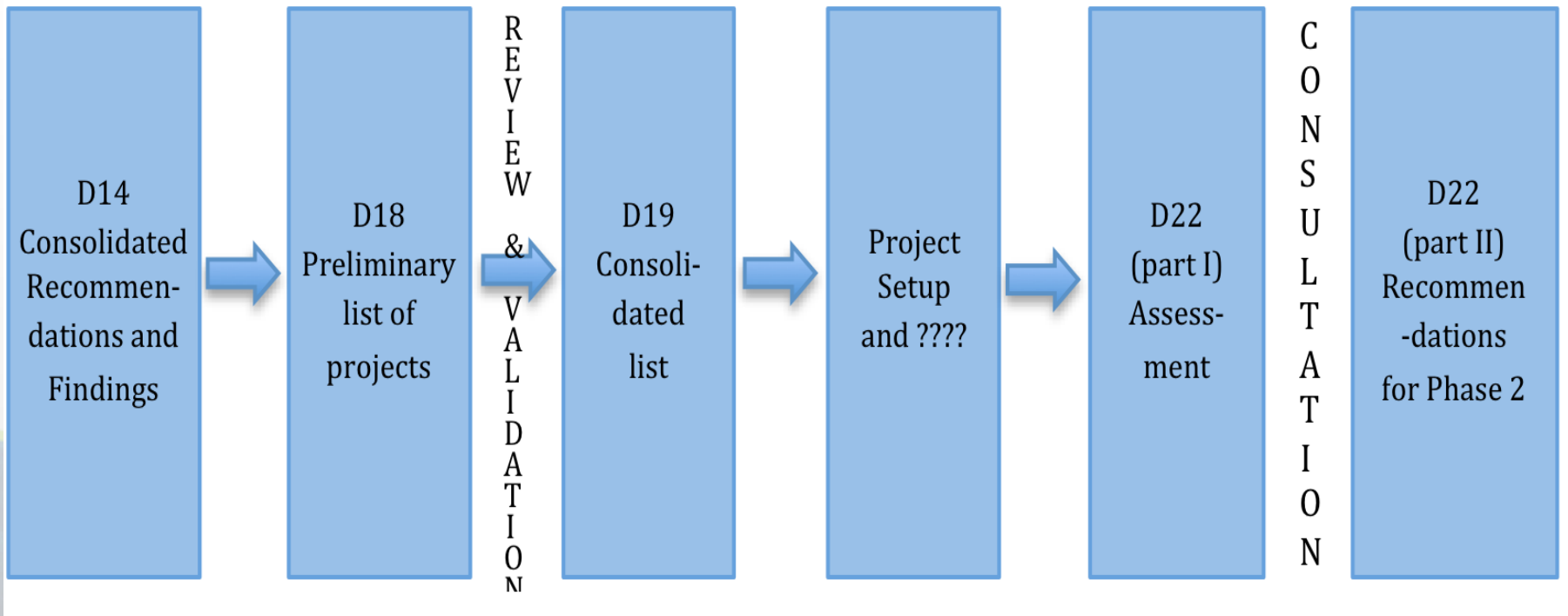
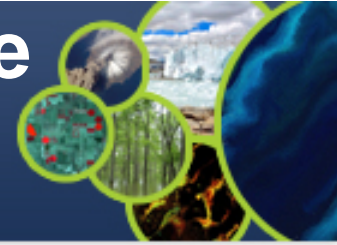
Identification of users needs and DRR priorities per region



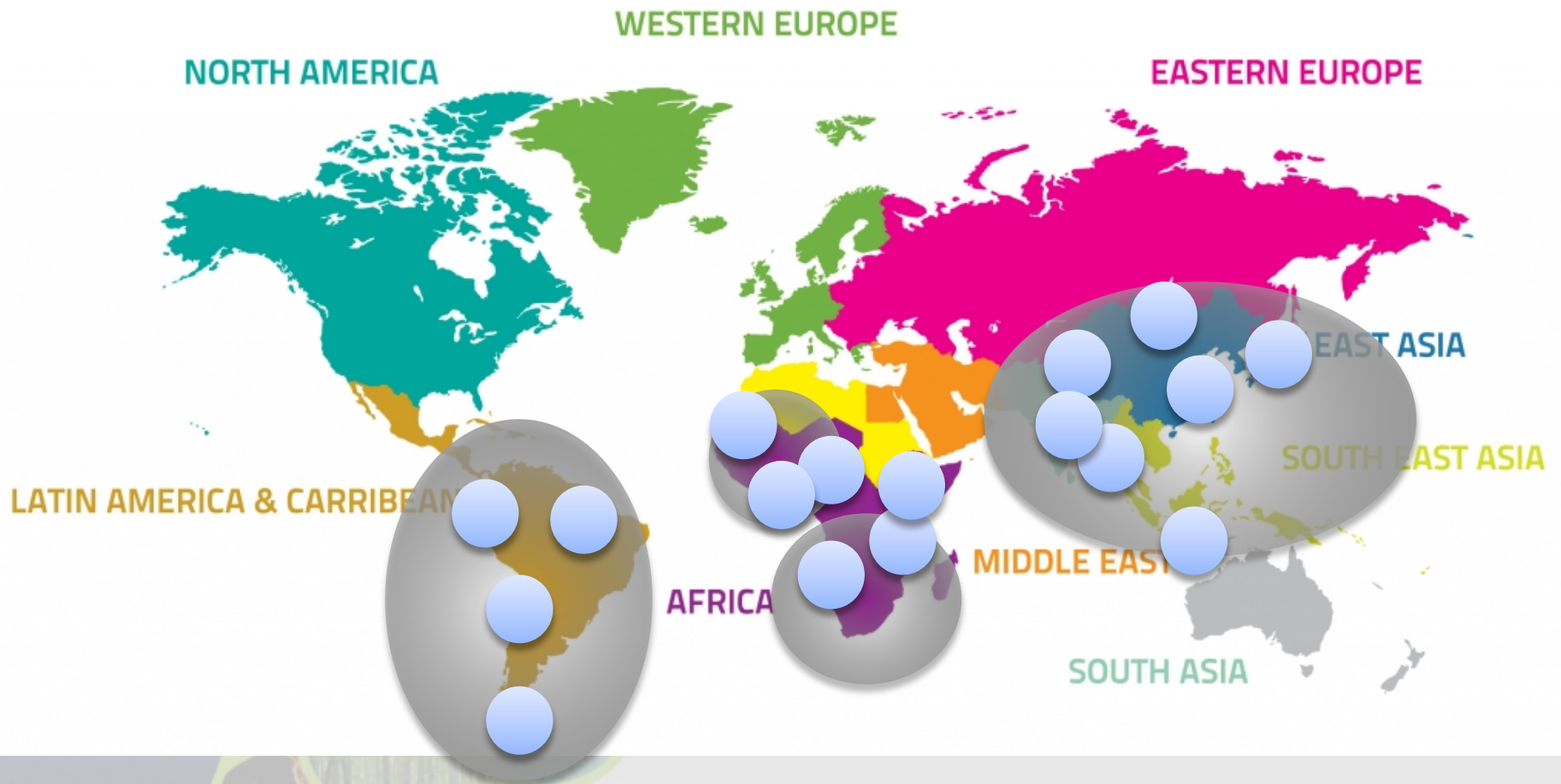
For each region:
 Types of hazards,
 DRR Issues to be solved,
 Initial countries

- 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**

Work Flow – Prototyping Phase (9 Mo to 24 Mo)



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.

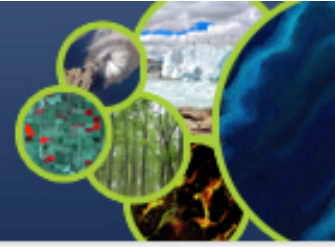
- 1st group: initial partners to serve needs of Concept Phase → mainly international / regional active Stakeholders that can contribute to the consolidation of GEO-DARMA proposal and execution of Concept phase (mainly to generate recommendations)
- 2nd group: 1st group + national countries + practitioners ... 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 documentation:

- Implementation Plan provided to GEO SEC (10 Aug.)
- New GEO-DARMA initiative proposed in GEO WP 2016

Status: no major activities in 2016. GEO-DARMA proposal has been successfully reviewed by the GEO Programme Board for inclusion in the GEO 2017-2019 WP. In parallel, contractual support to the GEO-DARMA Lead will kick-off in coming weeks.

Next critical step: Identify initial GEO-DARMA Partners in particular Regional Institutions

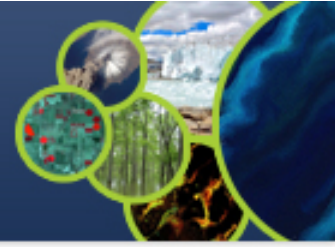


GEO-DARMA proposal endorsed by GEO Plenary (Nov. 2015) but dormant since Plenary.

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 .



To foster the kick-off of GEO-DARMA, contractual support to the Lead (Ivan Petiteville) will start soon.

Two workshops planned 2017: KO workshop and end of concept phase workshop

GEO-DARMA proposal has been successfully reviewed by the GEO Programme Board for inclusion in the GEO 2017-2019 WP.

Creation of a **GEO-DARMA subgroup** within **WGDisasters** agreed in Bonn but the GEO-DARMA has only one member Ivan P. !!

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

Next critical step: Identify initial GEO-DARMA Partners in particular Regional Institutions and organize regional missions