

AIP – 6

***The Capacity  
Building - Chilean  
Initiative to the  
GEO  
Infrastructure***



Gobierno  
de Chile



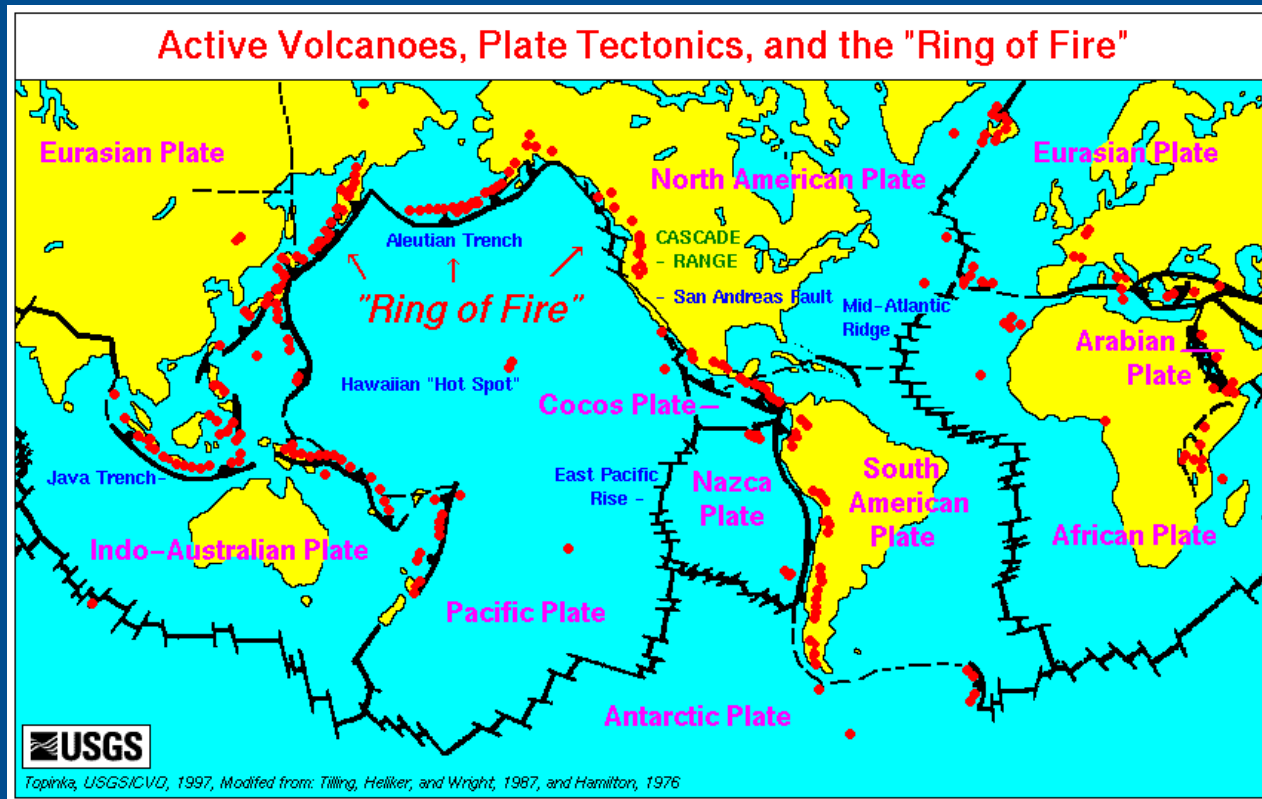
Talcahuano Testing Area, Chile, 2013  
012-10-24T14:26Z EO10010852012298110KF -36.7201 -  
73.112 Bahía San Vicente y Talcahuano testing área  
(NASA-EO, 2013)

## *Chilean Initiative to the GEO Infrastructure*

- Part of the capacity building component of GEOSS Architecture Integration Pilots (AIP6)
- Focus on disaster management (earthquakes, tsunami, and volcanic eruptions).
- Involvement of current agencies & systems in place, in a step by step approach.

# I.- The context:

Why disasters? : 2000 volcanoes - > 100 active

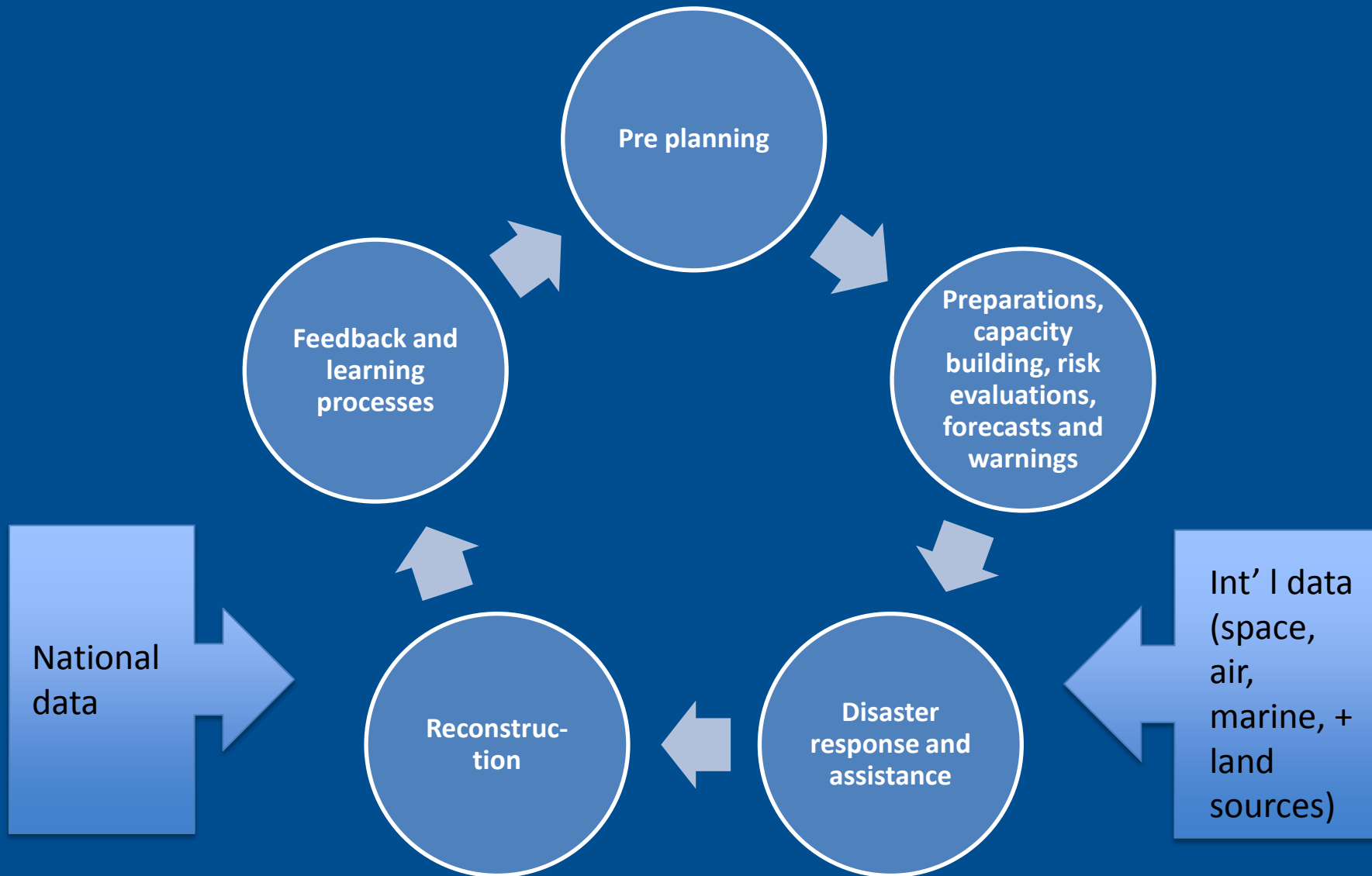


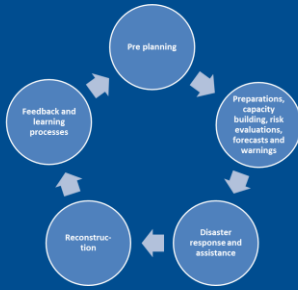
Earthquakes, Tsunami , Volcanoes = Explosive combination:

97 % of victims

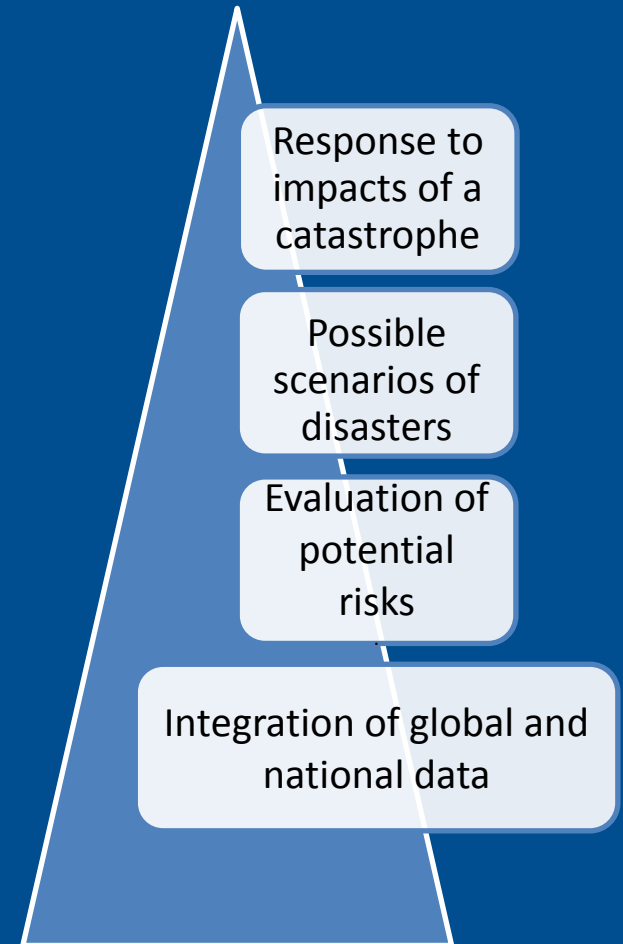
## Preventing & managing emergencies and disasters:

- (1) Integration of data sources, (2) technical cooperation,
- (3) incorporating new tools into national systems





# Each of these stages requires:



## **II - Main partners institutions and contacts**

- **GEO** - Ms. Lucia Lovison, Director, Afriterra Foundation
- **NASA** - Mr. Stuart Frye, Goddard Space Flight Center, U.S.A.
- **CNR-Italy** - Mr. Stefano Nativi and Mr. Mattia Santoro.
  
- **Ministry of Foreign Affairs of Chile**
  - Mr. Luciano Parodi, Geo Principal of Chile
- **National System for Territorial Information Coordination /Geospacial Data Infrastructure (SNIT-IDE Chile)**
  - Mr. Alvaro Monett
- **Aero-photogrammetric Service of the Chilean Air Force (SAF)**
  - Mr. Pablo Dueñas
- **National Emergency Office of the Ministry of the Interior (ONEMI)** - Mr. Juan Piedra

### ***III.- AIP6- Chilean Initiative to the GEO Infrastructure***

- **GEOSS Infrastructure can be considered like a reservoir**
  - **different resources and data**
  - **=> available, accessible, discoverable and shared through standards at local, regional, national and international scale.**
- **Through a series of tasks, GEOSS architecture pilot projects are service-oriented,**
- **Tasks -related to processes and infrastructure components- are discussed, developed and tested by a group of experts.**
- **AIP takes into account needs of GEO Users and GEO Data Providers, as well as GEO community scenario requirements.**
- **The goals are to make data and services accessible, discoverable and sharable through geospatial standards and interoperability.**

# ***AIP6 - Chilean Initiative to the GEO Infrastructure***

- **A mutual learning process.**
- **Initial steps:            tests of connectivity , search ability**
  - bringing international data into the national system,
  - integrating Chilean resources with the GEOSS infrastructure,
  - developing and testing basic functionalities of Chilean GEO Web Portals, to retrieve and display metadata
  - portraying image files through WMS (Web Mapping Services) or WFS (Web Feature Services) or WCS (Web Catalogue Services).



# ***AIP6 - Chilean Initiative to the GEO Infrastructure***

## **Testing as GEOSS User & Data Provider:**

- Chilean institutions will contribute to GEOSS-AIP6 by
  - **testing the client-side of the GEOSS web services.**
  - making web services available to authorized users through OpenID.
- Chilean agencies will **test its data and metadata web services as a GEOSS Data Providers .**

## IV - Benefits

- **Complementing national developments** in the disaster management structure and systems.
- **Strengthening international partnerships through GEO/GEOSS.**
- **Combining national and international data and processes,**
- **Strengthening preventive and risk evaluating tasks and models** within the Chilean emergency system.
- Contributing to identify future requirements in both human and technical resources
- Establishing more sustainable interoperability arrangement for Chile between GEOSS and the international and national institutions.



Thank you

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