

# Transition of IGOS Geohazards Theme Geohazards Community of Practice

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# Transition of IGOS Geohazards Theme Geohazards Community of Practice

- IGOS-P Geohazards Theme
- Geohazards Community of Practice
- Frascati Declaration
- IGOS Geohazards transition to  
GEO Community of Practice
- Geohazards Initiatives and “Supersites”
- Outlook

# IGOS Geohazards Theme

Documents - SeaMonkey

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Home Bookmarks

Those willing to feedback on the documentation produced by the team (e.g. draft Theme Report) can address their comments to the [IGOS GeoHazards Bureau](#). The IGOS team does not commit to reply, however issues raised by users worldwide will be taken into account

Date	Description	Download	
April 2002	IGOS Process Paper, draft update of April 2002.		
May 2002	Theme Proposal submission. The text of the IGOS-GeoHazards Theme Proposal accepted by IGOS-P.		
July 2002	First Progress Report.		
July 2002	IGOS Brochure release (IGOS GeoHazards Prospectus).		
November 2002	Second Progress Report		
January 2003	Appointment of the IGOS GeoHazards Theme Steering Committee.		
January 2003	Third Progress Report.		
April 2003	Fourth Progress Report.		
June 2003	IGOS Bulletin containing a paper about the GeoHazards Theme		
October 2003	Draft Observational Requirements		
December 2003	Final GeoHazards Theme Report		
November 2004	Creation of the IGOS Geohazards Bureau by ESA and BRGM		
August 2007	IGOS Geohazards Theme Report		
August 2007	Geohazards Earth Observation Requirements		
November 2007	IGOS Geohazards : Geohazards Community of Practice		
November 2007	IGOS Geohazards . Status and perspectives		
November 2007	3rd International Geohazards Workshop		

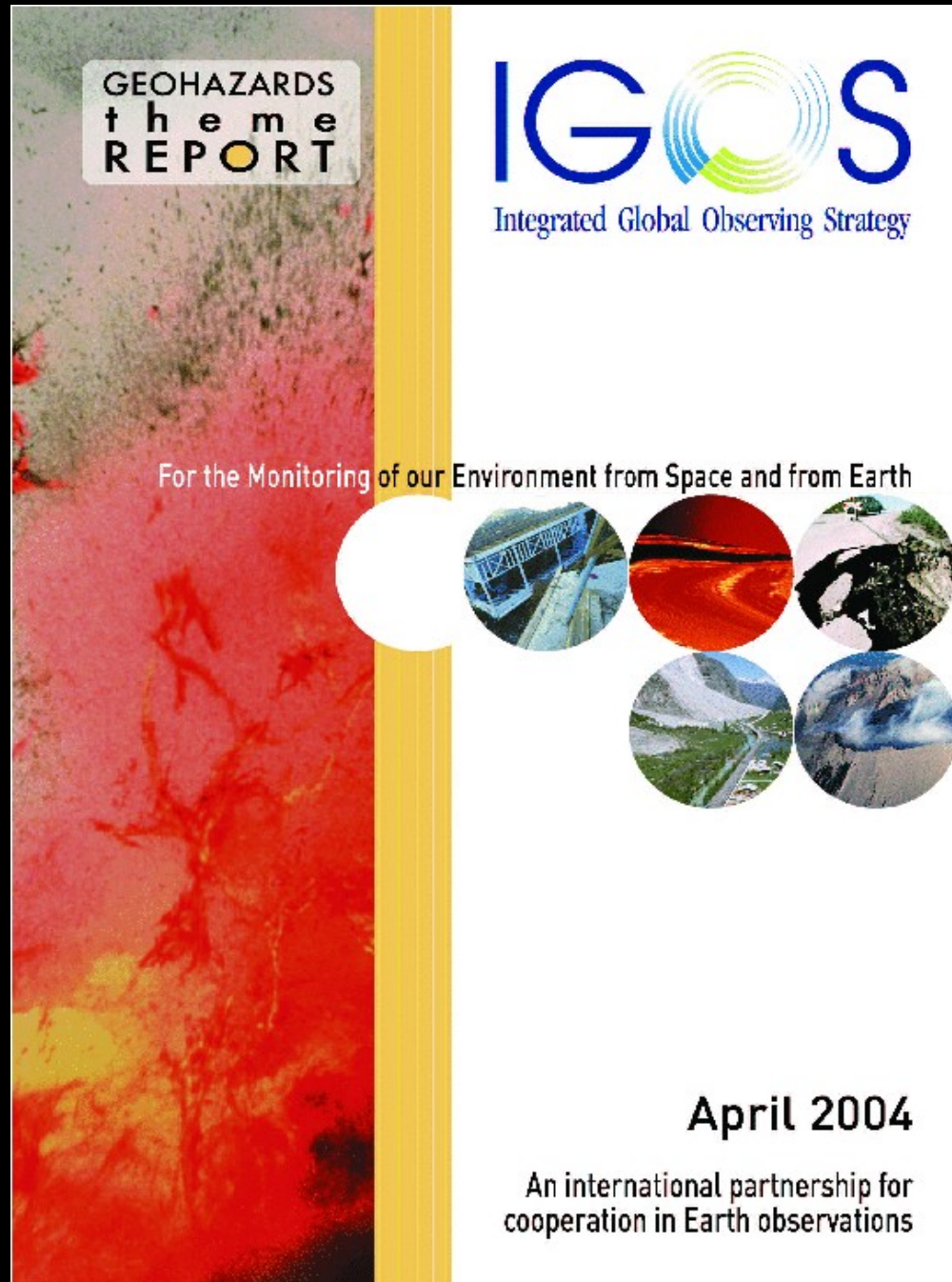
Other documentation of interest:

[CEOS Disaster Management Group \(DMSG\) Final Report](#)

[The Earthscope Undertaking](#)

[Living with Risk: a global review of disaster reduction initiatives \(UN/ISDR\)](#)

# IGOS Geohazards Theme

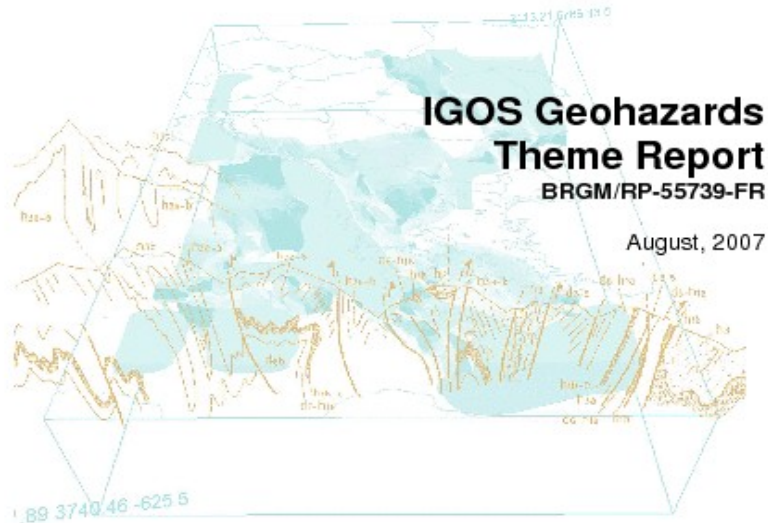


- First Theme Report published  
April 2004, ESA

<http://www.igosgeohazards.org/documents.asp>

# IGOS Geohazards Theme

- First Theme Report published April 2004, ESA
- Second Theme Report published August 2007



## IGOS Geohazards Theme Report

BRGM/RP-55739-FR

August, 2007

J. Salichon, G. LeCozannet, H. Modaresi BRGM  
S. Hosford, CNES  
R. Missotten, UNESCO  
K. McManus, S. Marsh BGS  
M. Paganini, ESA  
C. Ishida, JAXA  
H.P. Plag, GGOS  
J. Labrecque, C. Dobson, NASA  
J. Quick, USGS  
D. Giardini, FDSN  
K. Takara, H. Fukuoka, N. Casagli, ICL  
W. Marzocchi, WOVO

with collaboration of  
A. Gibson, H. Reeves, BGS

# IGOS Geohazards Theme/GEO CoP/ Geohazards Initiative

- First Theme Report published April 2004, ESA
- Second Theme Report published August 2007
- Newsletters

The screenshot shows a web browser window with the address bar displaying <http://www.igosgeohazards.org/newsletters.asp>. The page features logos for brgm, esa, GEO, and igos. A navigation menu on the left includes links for IGOS Geohazards Initiative, GEO Community of Practice, IGOS Geohazards Bureau, Workshops / Meetings, Documents, Newsletters (highlighted), GeoHazData (with Editor, Viewer, and Map options), and Members area. The main content area is titled "Newsletters" and contains a list of six newsletter issues with their respective dates and file sizes. Below the list are several images showing geohazardous terrain, including a coastal area with a fence and a steep, eroded cliff face.

Back Forward Reload Stop <http://www.igosgeohazards.org/newsletters.asp>

Geoscience for a sustainable Earth  
brgm esa GEO

GEO  
GEOHAZARDS  
COMMUNITY OF PRACTICE

igos  
GEOHAZARDS

**Newsletters**

- [GeoHazUpdate Issue 6 - January 2006](#) (PDF file, 1,2 Mo)
- [GeoHazUpdate Issue 5 - May 2007](#) (PDF file, 1,2 Mo)
- [GeoHazUpdate Issue 4 - February 2007](#) (PDF file, 975 Ko)
- [GeoHazUpdate Issue 3 - October 2006](#) (PDF file, 875 Ko)
- [GeoHazUpdate Issue 2 - June 2006](#) (PDF file, 731 Ko)
- [GeoHazUpdate Issue 1 - October 2005](#) (PDF file, 146 Ko)

IGOS Geohazards Initiative

GEO Community of Practice

IGOS Geohazards Bureau

Workshops / Meetings

Documents

→ Newsletters

GeoHazData

Editor Viewer Map

Members area

<http://www.igosgeohazards.org/newsletters.asp>



# IGOS Geohazards Theme/GEO CoP/ Geohazards Initiative

- First Theme Report published  
April 2004, ESA
- Second Theme Report published  
August 2007
- Newsletters
- Three International Geohazards  
Workshops;  
last one in November 2007 in  
Frascati, Italy:
- **Frascati Declaration**

# Frascati Declaration

We, as experts in the field of Geohazards, participating to the 3<sup>rd</sup> International Geohazards Workshop,

...

recommend

...

- to stimulate an international and intergovernmental effort to monitor and study **selected reference sites** by establishing open access to relevant datasets according to GEO principles to foster the collaboration between all various partners and end-users

...

- to maintain and build a **coordination body** to ensure the further development of the **Geohazards initiative** and **Community of Practice**



# GEO Geohazards Community of Practice

Applications Places System Sun Sep 21, 8:49 PM

GEO Community of Practice - SeaMonkey

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Geoscience for a sustainable Earth

## GEO Community of Practice

Since its inception, the IGOS geohazards theme has been a bridge between high level policy makers such as UNESCO and the geohazard community. This role has gained weight through the interaction with the Global Earth Observing System of Systems (GEOSS) currently established by GEO. The GEOSS project helps production and management of observations in a way that benefits environment and humanity. GEOSS is envisioned as a large national and international cooperative effort to bring together existing and new hardware and software, making it all compatible in order to supply data and information at no cost.

Improving access to Earth observations is one of the main objectives of GEO and complements the IGOS Partnership initiative with larger scopes. GEOSS will be developed in order to respond to the needs of the society for:

- Easier and more open data access;
- Informed decision making;
- A better Earth Observing System.

### The Geohazards Communities of Practice (CoP)

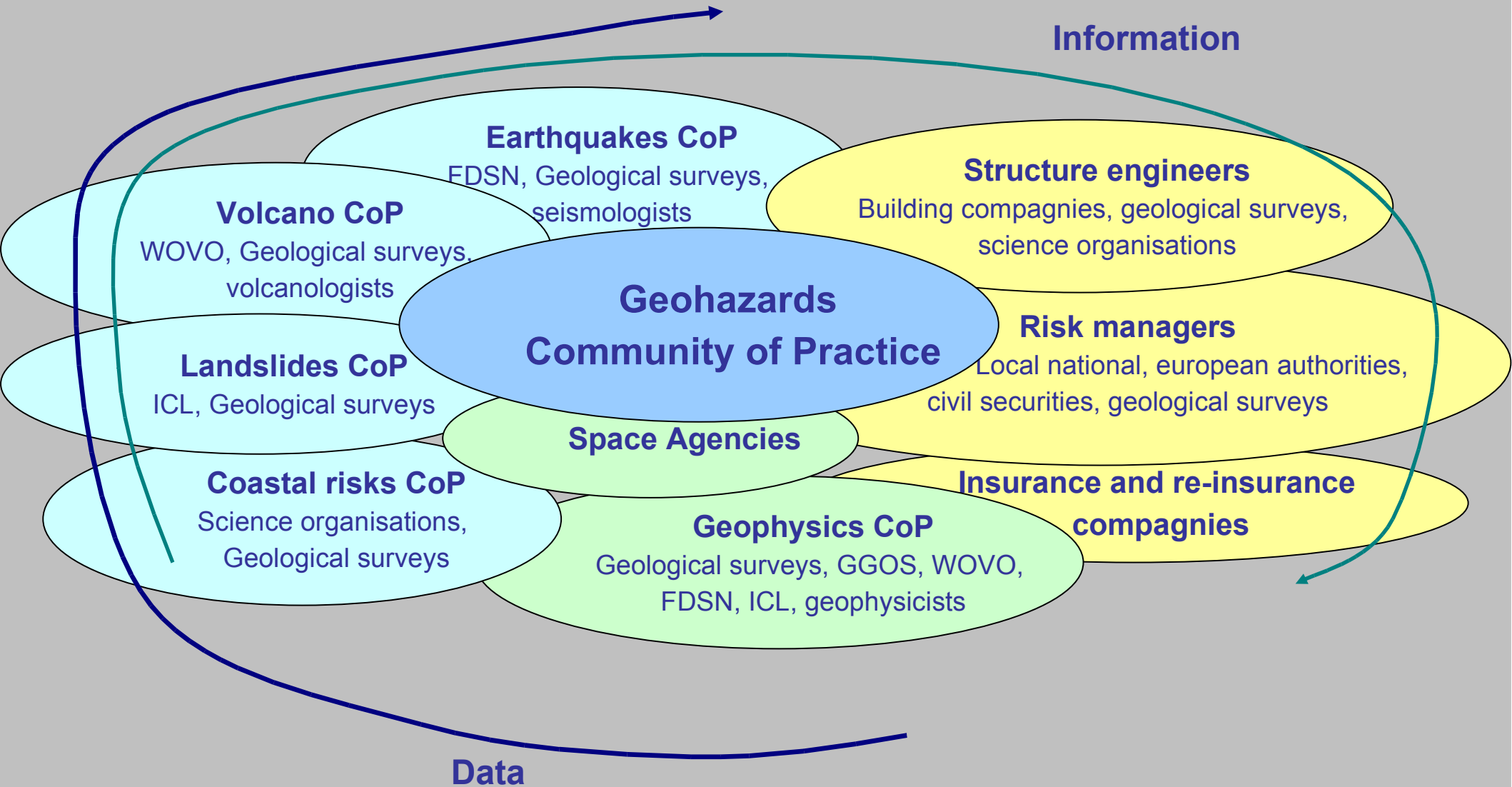
The diagram illustrates the Geohazards Communities of Practice (CoP) structure. At the center is the **Geohazards Community of Practice**. Surrounding it are several sub-communities, each with associated members:

- Earthquakes CoP**: FDSN, Geological surveys, seismologists
- Volcano CoP**: WOVO, Geological surveys, volcanologists
- Landslides CoP**: ICL, Geological surveys
- Coastal risks CoP**: Science organisations, Geological surveys
- Space Agencies**
- Geophysics CoP**: Geological surveys, GGOS, WOVO, FDSN, ICL, geophysicists
- Structure engineers**: Building compaignies, geological surveys, science organisations
- Risk managers**: Local national, european authorities, civil securities, geological surveys
- Insurance and re-insurance compaignies**

Arrows indicate the flow of **Information** (top) and **Data** (bottom) between the central CoP and the sub-communities.

Done

# GEO Geohazards Community of Practice



# IGOS Geohazards Transition to GEO Community of Practice

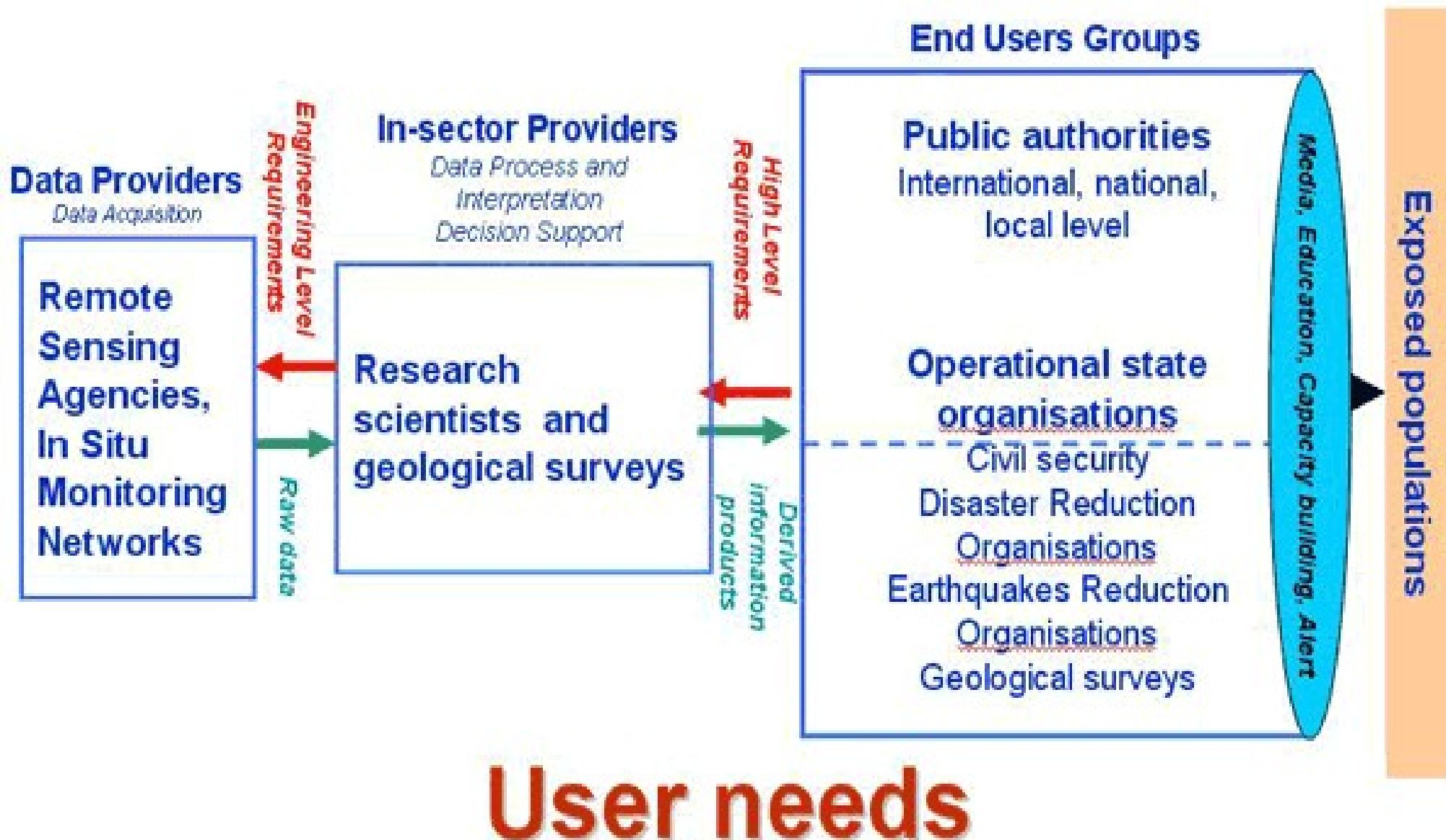
## IGOS Geohazards Theme:

- participates in GEO since 2005
- provides core for the Geohazards Community of Practice

## Geohazards CoP:

- aims at bringing together any person or entity concerned with Geohazards ;
- particular focus on users and beneficiaries, with exposed populations being the main beneficiaries of an improved hazard monitoring;
- federate a community that acts as a bridge between users and exposed populations, which produces efficient alerts, information and education tools to limit consequences of natural disasters (includes media, local authorities, schools and alert system managers);
- three main groups involved in the CoP have been identified.

# IGOS Geohazards Transition to GEO Community of Practice



# IGOS Geohazards transition to GEO Community of Practice

Current contribution of the **IGOS Geohazards Theme/**  
**GEO Geohazards CoP/Geohazards Initiative to GEO:**

- provided IGOS-P and the GEO UIC with **Geohazards Earth Observation Requirements** in August 2007
- Geohazards Executive Bureau has been **leading two tasks:**
  - > DI-06-07: provides a pilot OGC-compliant catalogue and web service for hazard maps inventory (GeoHazData),
  - > DI-06-03: organizes workshops and raises awareness on InSAR and advanced InSAR techniques in the Geohazards CoP.
- **contributes to**
  - > DI-06-02 through user feedback from regional workshops;
  - > DI-06-08 through the promotion of an integrated approach;
  - > DI-06-09 through identification of geological high risk areas;
  - > DI-06-12 through organization of user workshops in Latin America and South East Asia; and
  - > AR-06-05 with GeoHazData.

# Geohazards Initiative and Supersites

## Concept paper on the International Geohazards Initiative

An international Earth Observation strategy to reduce geological risks  
and its application to specific regional areas  
(Draft Version 2)

- The Concept Paper is the **roadmap** for the **international Geohazards Initiative** that:
- links research, long-term monitoring and operational programmes, bringing together the producers of global observations and the users that require them;
  - responds to the scientific and operational geospatial information needs for the prediction and monitoring of geological hazards;
  - builds on the work undertaken under IGOS Geohazards, the Geohazards, and the GEO Geohazards tasks;
  - proposes an international cooperation framework to put in place recommendations of the Frascati declaration.

# Geohazards Initiative and Supersites

## Step one:

- aims at facilitating access to data over a certain number of regional areas (“supersites” or natural “geohazards laboratories”).
- step one should be implemented for a few “**Supersites**” within 3 years.
- Eligible as a “Supersite” are regional area that meet at least one of the following criteria:
  - > populations and elements are exposed to geological threats;
  - > an event is expected to occur in the near future, or a slow process is already ongoing;
  - > it should be an appropriate place to stimulate basic geohazard research (earthquakes hazards, landslides, volcanoes, hydro-geological processes) and sea level rise.



# Outlook

- The “Supersites initiative” is presently the main contribution of the Geohazards CoP to the current GEO workplan.
- Focus is on the objectives and benefits of the Supersites, and less on the structure of the governing body and organizational aspects.
- Improvement of the CoP:
  - > Involvement of funding agencies (OECD, European Community, National Ministries, USAID, World Bank, Islamic Bank or the Asian Development Bank...);
  - > work towards participation of national, regional, and local representatives, and land use planners, who are critical in particular for connections to the exposed populations.
  - > Integrate private companies that are end users; for example, insurances, re-insurances, infrastructures operators.