



# IGOS Geohazards: Status and perspectives

*3rd International Geohazards Workshop  
Frascati, ESRIN, 6th November 2007*

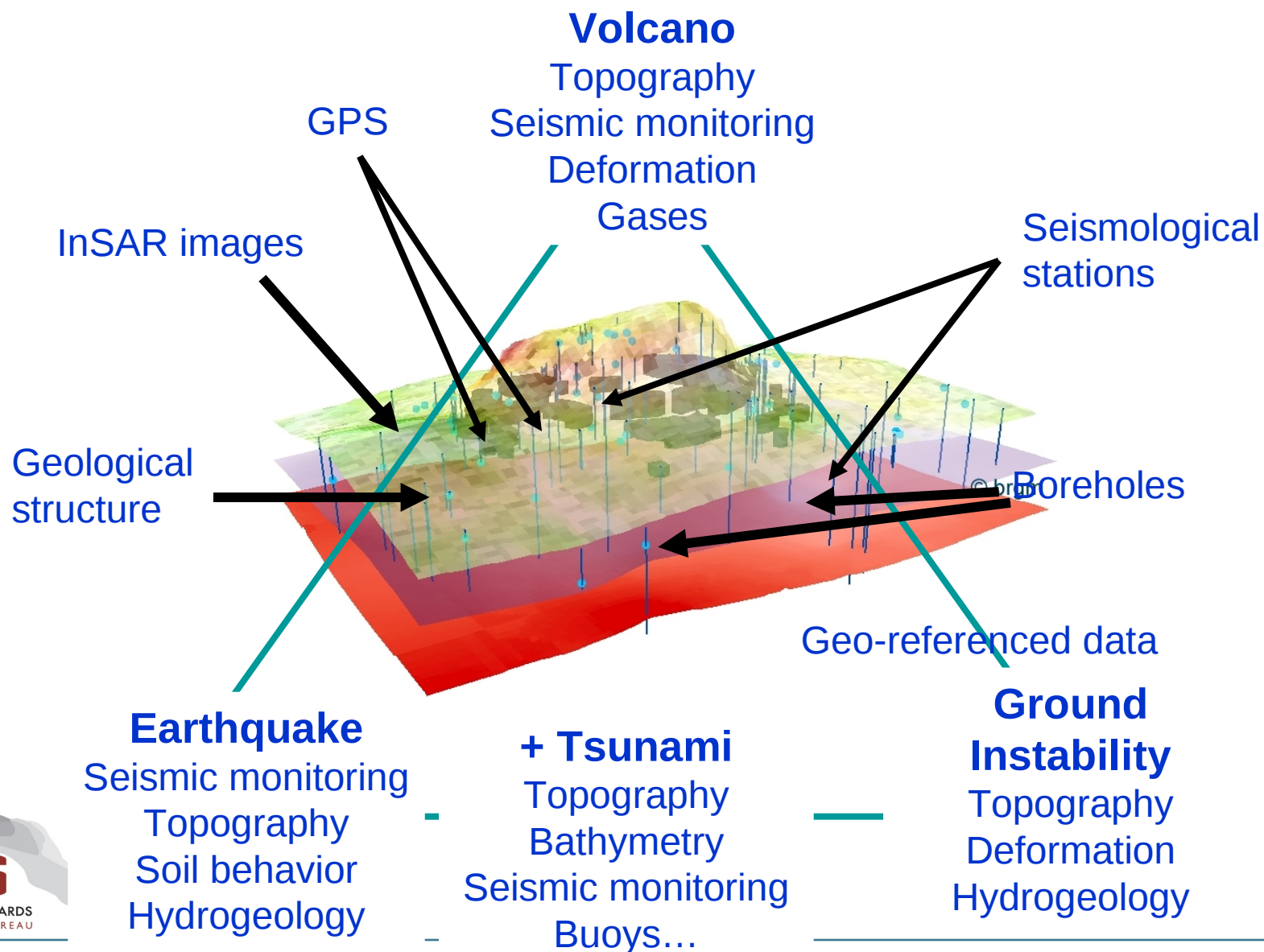
*Hormoz Modaressi  
Director  
IGOS Geohazards Bureau*







# Geohazards observations





# IGOS Geohazards: objectives and strategy

- Objective: The IGOS Geohazards initiative intends to respond to the scientific and operational geospatial information needs for the prediction and monitoring of geohazards, namely earthquakes, volcanoes, land instability and tsunamis.
- Strategy: involvement within GEO:
  - GEO Geohazards Community of Practice
  - Coordination of tasks:
    - DI-06-03: InSAR and in-situ data integration**
    - DI-06-07: Hazard maps inventory**
  - Involvement within other tasks:
    - DI-06-08: Multi-hazard approach definition and progressive implementation**
    - DI-06-09: Use of satellites for risk management**
    - DI-06-02: Seismographic networks improvement and coordination**

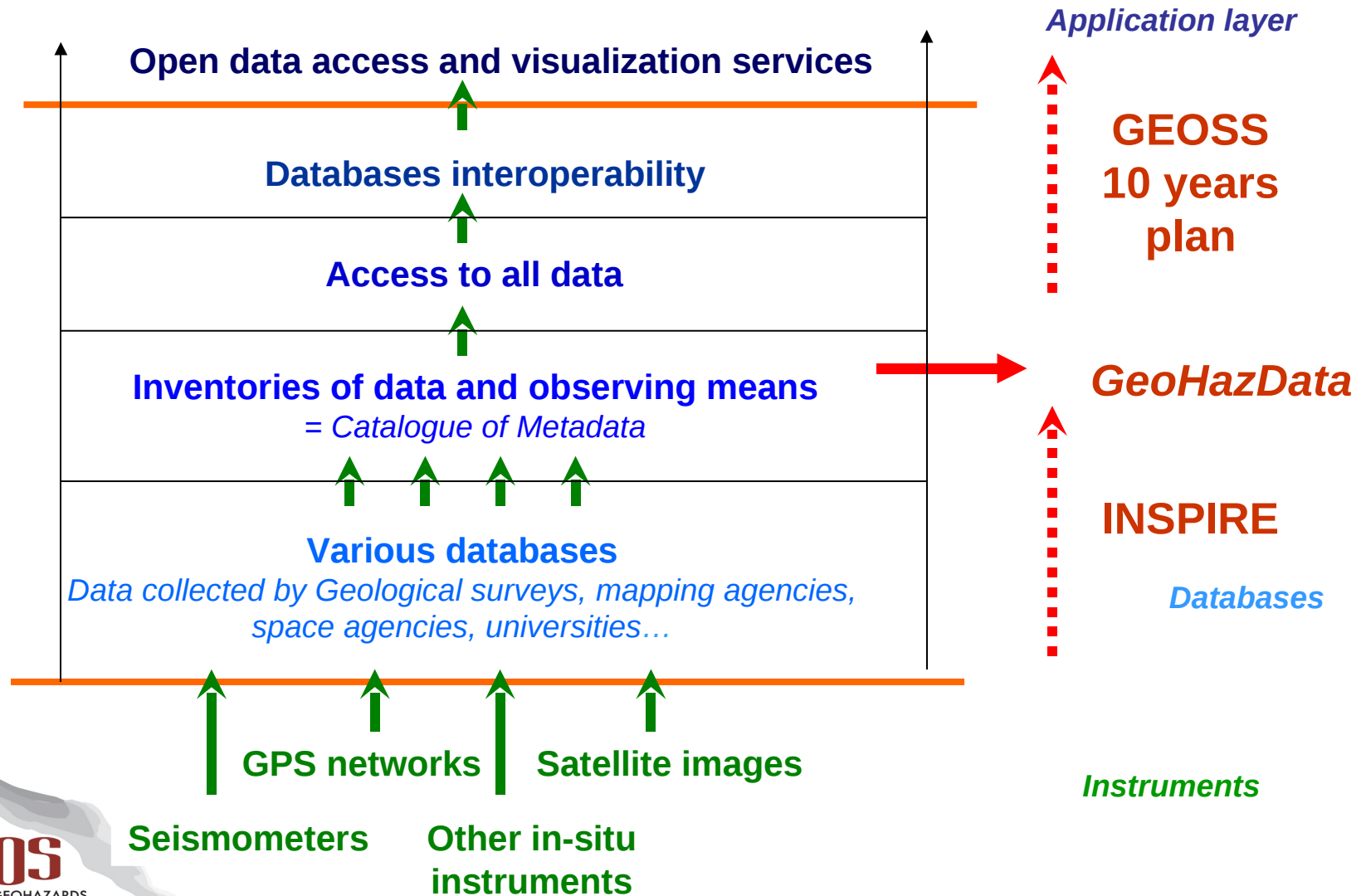






# Filling the gaps: Key issue: Architecture

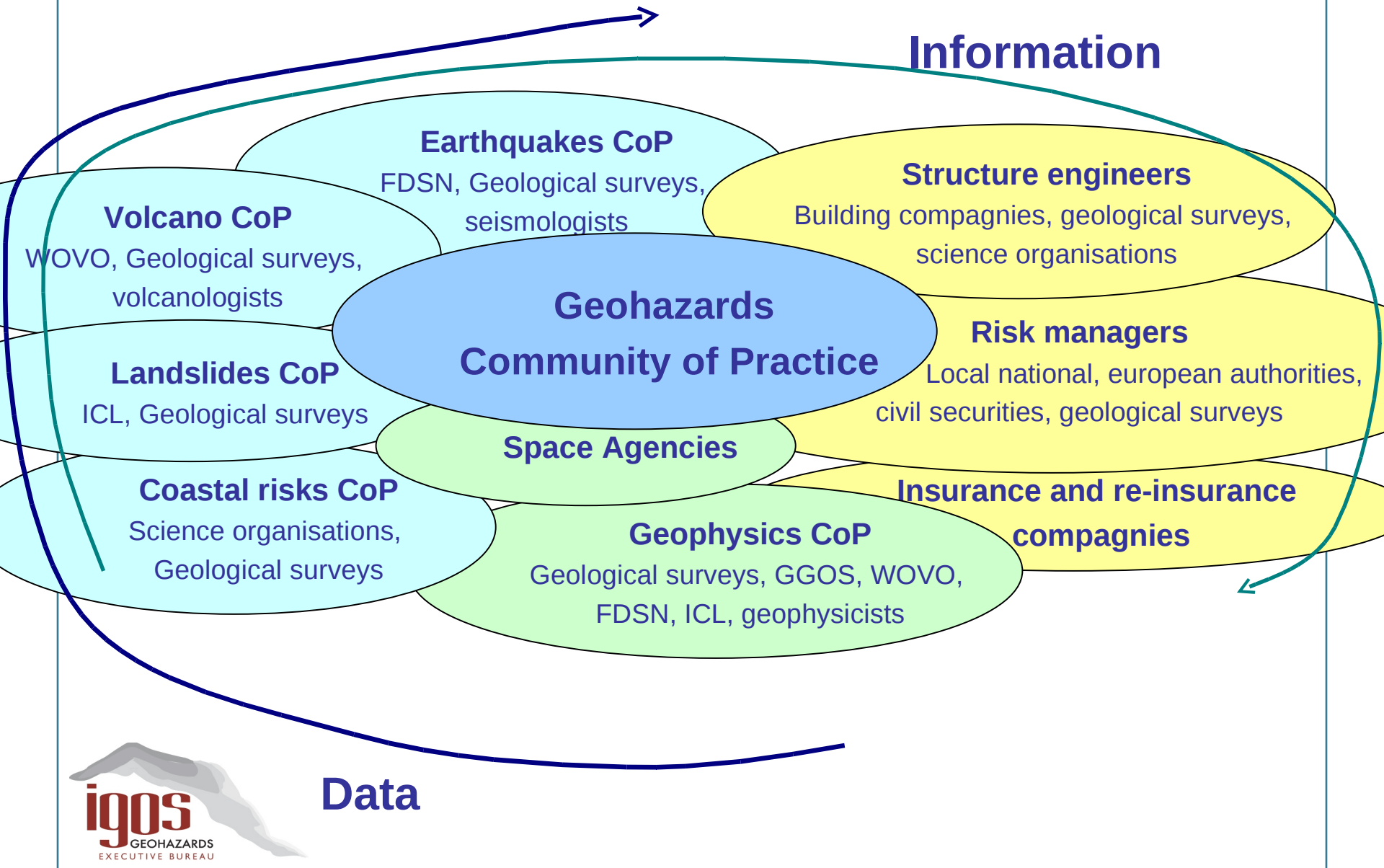
*Toward a geohazards Earth Observation data clearing house*



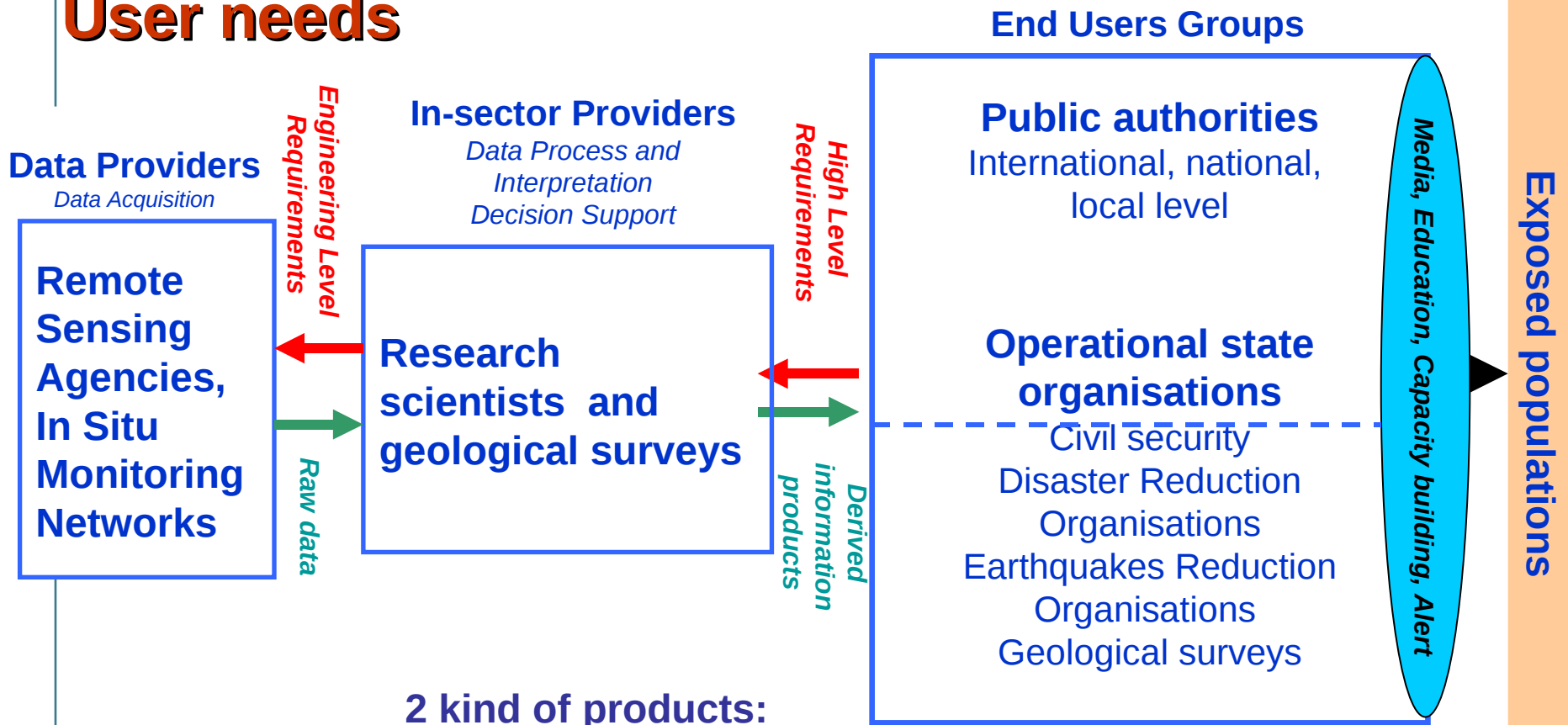




# The Geohazards Communities of Practice (CoP)



# User needs



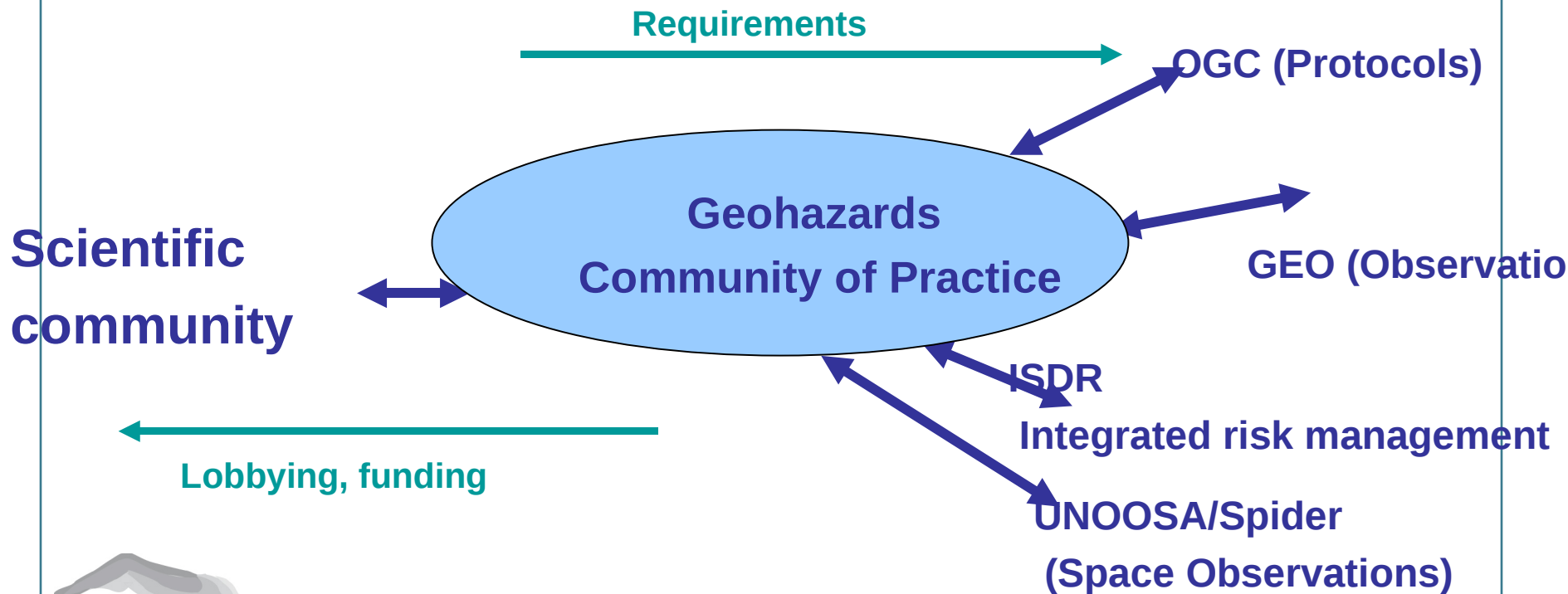
2 kind of products:

- Information: hazard maps, risk maps and scenarios are needed to help civil security and land-use planners for disaster mitigation
- Data: more efficient access to in-situ and space data is needed in order to help scientists to estimate hazard and risk.

# Geohazards Community of Practice: requirement processes

European Commission

World bank, Islamic bank,  
Asian development bank...







# Conclusions

- Need to focus on an easier data provision disaster **mitigation**
- IGOS Geohazards aims at
  - supporting a multi-disaster approach
  - increase the exchange of data from various sources
  - moving toward an open access to data
- Involvement within the GEO framework to progress
- Cooperation with other organization programmes (GEO, UNESCO, WMO, UNOOSA, UNISDR) is expected to help coordinating the initiative
- **Workshop IGOS Geohazards: 5-9 Novembre 2007, ESA, ESRIN**



**Thank you for your  
attention**

**Contact:**

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**Tungurahua volcano threatening the city of Banos in Ecuador**

Arnaud Joëlle and Scholl Pierre-Grégoire