

- Browse Resources by Societal Benefit Areas**
- DISASTERS
 - HEALTH
 - ENERGY
 - CLIMATE
 - WATER
 - WEATHER
 - ECOSYSTEMS
 - AGRICULTURE
 - BIODIVERSITY
- GEO Clearinghouse**

Browse Resources by Location

zoom

Breaking News

Widespread flooding, the worse since 1954, over 24 Chinese provinces caused over 500 deaths and 3 million evacuations, with enormous damage to dams, roads, buildings and crops. In Mengwa, near Chongin in the Fujian basin, about 150,000 people were stranded on high ground when the Wangjia dam was opened to evacuate floodwaters. In Chongqing Municipality about 29,500 houses collapsed between 17 and 18 July. [more...](#)

Welcome to GEOportal

The GEOportal provides an entry point to access remote sensing, geospatial static and in-situ data, information and services. The site is currently under construction. **Please take a few minutes to browse through the GEOportal and let us what you think.** [more...](#)

FOCUS ON

IGARSS, 23-27 July 2007, Barcelona, Spain

The 27th International Geoscience And Remote Sensing Symposium (IGARSS) will be held this year in Barcelona, Spain. IGARSS has become an international focus for remote sensing theory, programs, applications and state of the

SHOWCASE

The Elbe region in Saxony was affected by heavy flooding following strong rainfall in conjunction with snowmelt in the Krkonose Mountains (Czech Republic). The Elbe river rose to a level of 7.45 meters. In the city of Dresden, areas near the river had to be evacuated. Along the Elbe, whole districts of several towns were flooded. A state of emergency was declared in

- MY GEO** ▶
- TUTORIALS** ▶

ESA/FAO 2006/2007 Activities

July 2006

- ESA Proposal to define, deploy, host and maintain a GEOportal as ESA contribution to GEOSS @ ADC Seattle meeting

August/September 2006:

- ESA Statement of Work to industry for a "GEOportal – ESA Contribution"
- Kick-off of Contract incl. WP with FAO Geonetwork

November 2006:

- Demonstration of Prototype @ GEO-III Plenary
- GEOPortal on the list of early successes
- 1st Presentation to UIC meeting

February 2007:

- GEOportal contribution prototype on-line @ www.geoportal.org
- Follow-up of Bonn Demonstration with UIC and CBC for further feedback
- ESA/FAO joint answer to DA-06-07 RFI based on already ongoing work since ADC Seattle

March 2007:

- Presentation of ESA/FAO Contribution to GEOportal @ FAO/UNSDI Partners meeting hosted at ESA
- 2nd Presentation to UIC

May 2007:

- ESA/FAO joint answer to AR-07-02 CFP

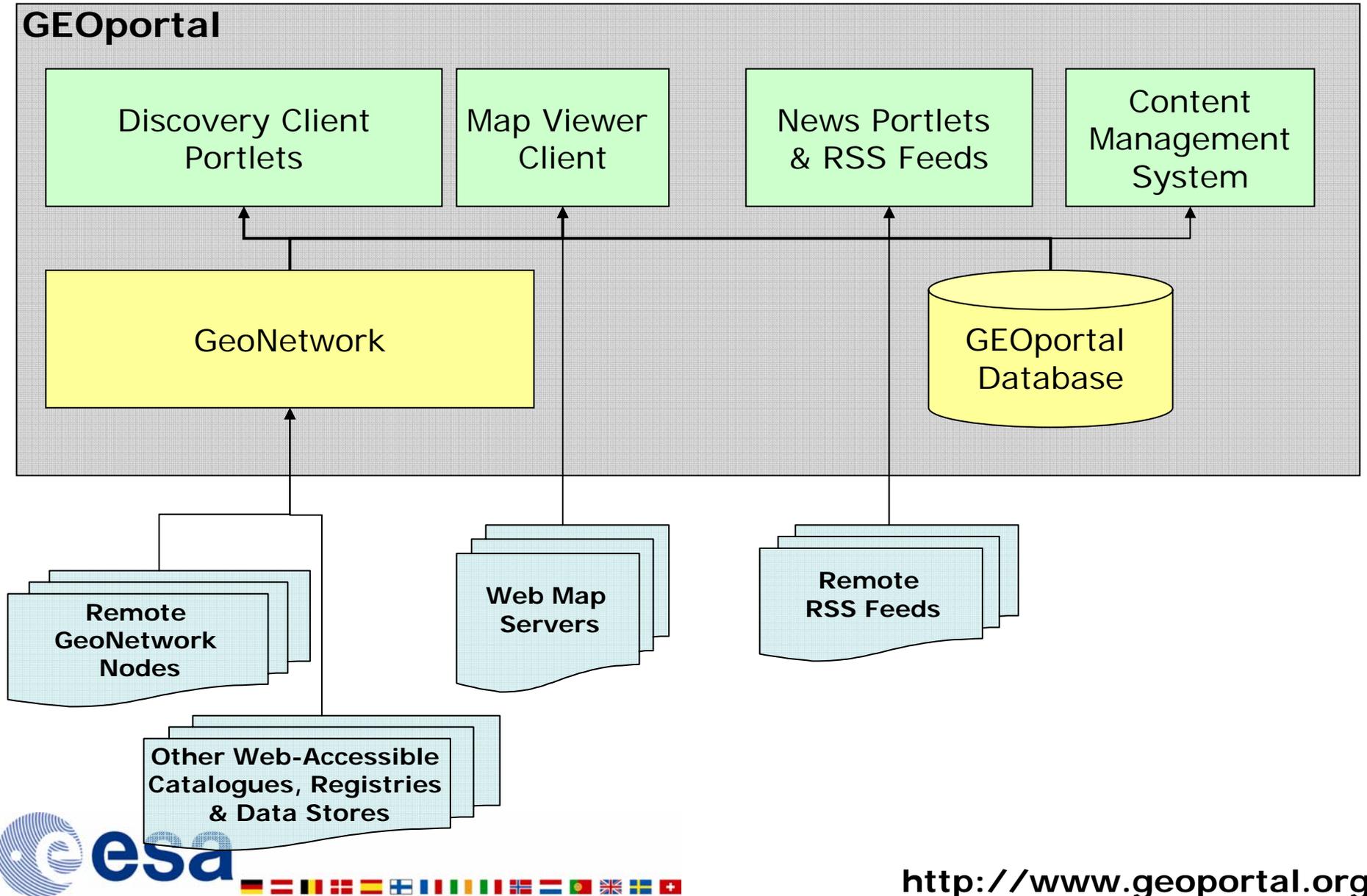
July 2007

- Welcome to the first release at the (IEEE, CEOS, OGC, ISPRS) Barcelona workshop

GEOportal Architecture Overview

- Open Source
- Portlets
 - All website content delivered in Portlets:
 - Data Discovery Client
 - Map Viewer
 - News & RSS
 - Misc. Content
- GeoNetwork
 - Catalogue Server – stores all GEOportal resources
- Remote Data Sources
 - Other Catalogues
 - Web Map Servers
 - RSS Feeds

GEOportal Architecture



Portlet Architecture

- Portlets (JSR168) & Liferay Portal
 - Portal platform independence
 - Reuse in other portals
 - Customisation of independent GEOportal installations
 - Plug-in third-party portlets (CMS, Map Viewer, GEOSS Registries?, Clearinghouse?)
 - Remote portlets (WSRP)

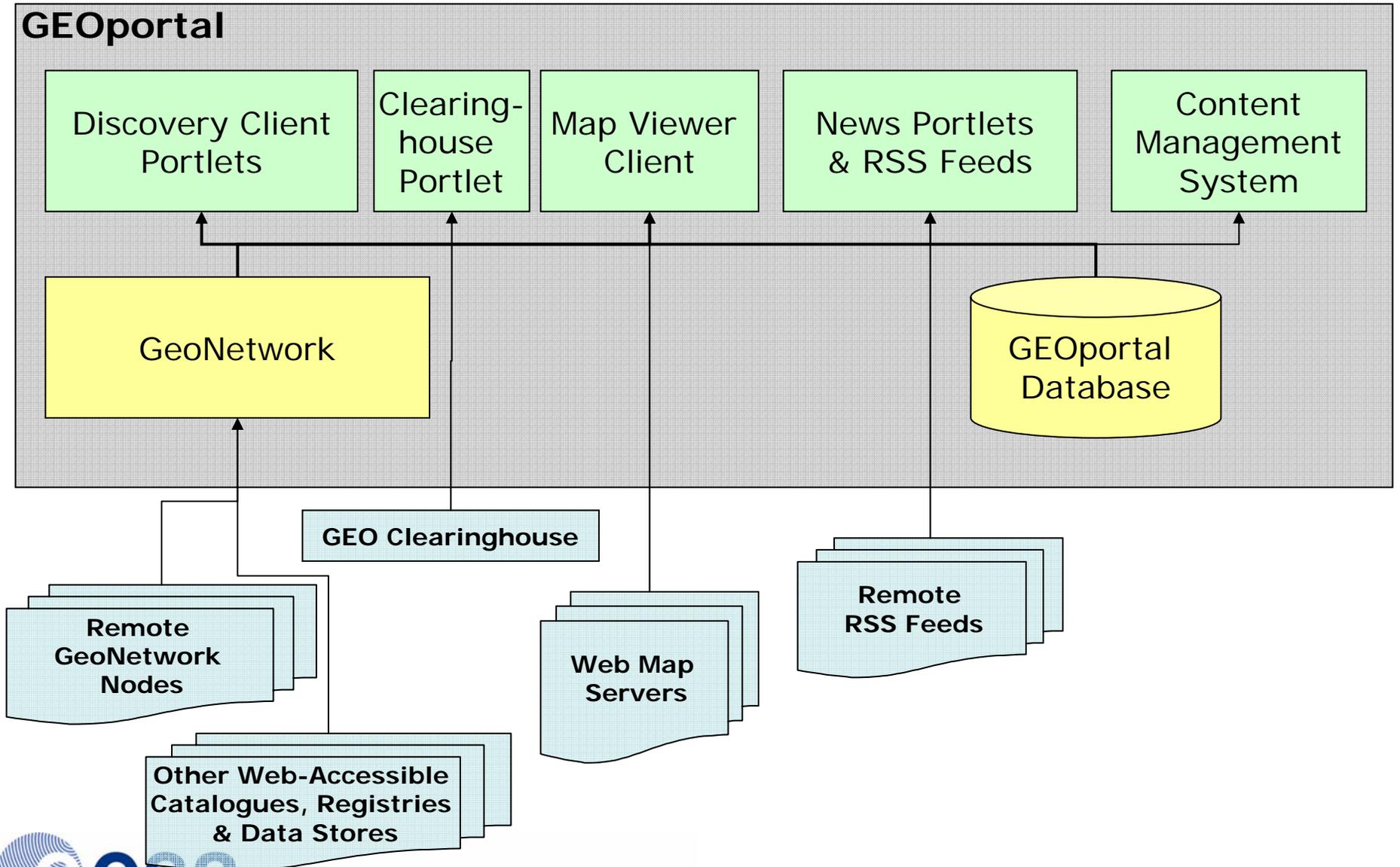
GEOportal Portlets

- Catalogue Data Discovery
 - Browse resources by SBA and/or Region
 - Search resources: Simple or Advanced
 - Search Results: Summary, Detailed
 - View Resource: Summary, Full Metadata
 - Gallery of Images and Maps
 - Map Viewer Client
- Other Portlets:
 - News & RSS Feeds
 - Flash Globe: RSS Alerts & data discovery
 - Content Management System

GeoNetwork

- Storage:
 - All GEOportal resources stored in GeoNetwork (datasets, services, organisations etc.)
 - ISO19139 (ISO19115, FGDC, Dublin Core)
- Searching:
 - HTTP calls from GEOportal portlets
 - Future: Web Services
- Harvesting:
 - Other GeoNetwork nodes
 - WebDAV
 - CSW Server
 - MEF & bespoke harvesting (eg. EO Portal)

GEOportal Architecture



Plans

- Architecture:
 - A planned evolution to GeoNetwork opensource 3.0 software, ESA/FAO are collaborating to upgrade the GeoNetwork software to the catalogue profile ISO/TS 15000-3 (OGC Core ISO Metadata ebRIM extension package)
- ADC AR-07-02 Participation
 - Cooperation with other Portals, Clearinghouse (incl. ESA FedEO), GEONetcast
 - Guidance on Scenarios (GEOSEC, TF)
 - Requirements from CBC
- Support for EO-Summit 2007 Demonstration

“ Prediction is a difficult art when addressing the complexity of Earth processes ... how do we account for phenomena as diverse and poorly understood as seismic fault dynamics, climate variation, or the ecological intricacy of a wetland? Observations are the only means for deciphering nature's complexities ”

José Achache, GEO
Secretariat Director



GEO PORTAL
ESA Contribution

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*“The Gateway to
Global Earth Observation data,
information and services”*

Understanding the Earth system is crucial to enhancing human health, safety and welfare, alleviating human suffering including poverty, protecting the global environment, reducing disaster losses, and achieving sustainable development. Observations of the Earth system are critical to advancing this understanding. Ease of access to Earth Observation data, information and services is a key element of this goal.



<http://www.geoportal.org>