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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

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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

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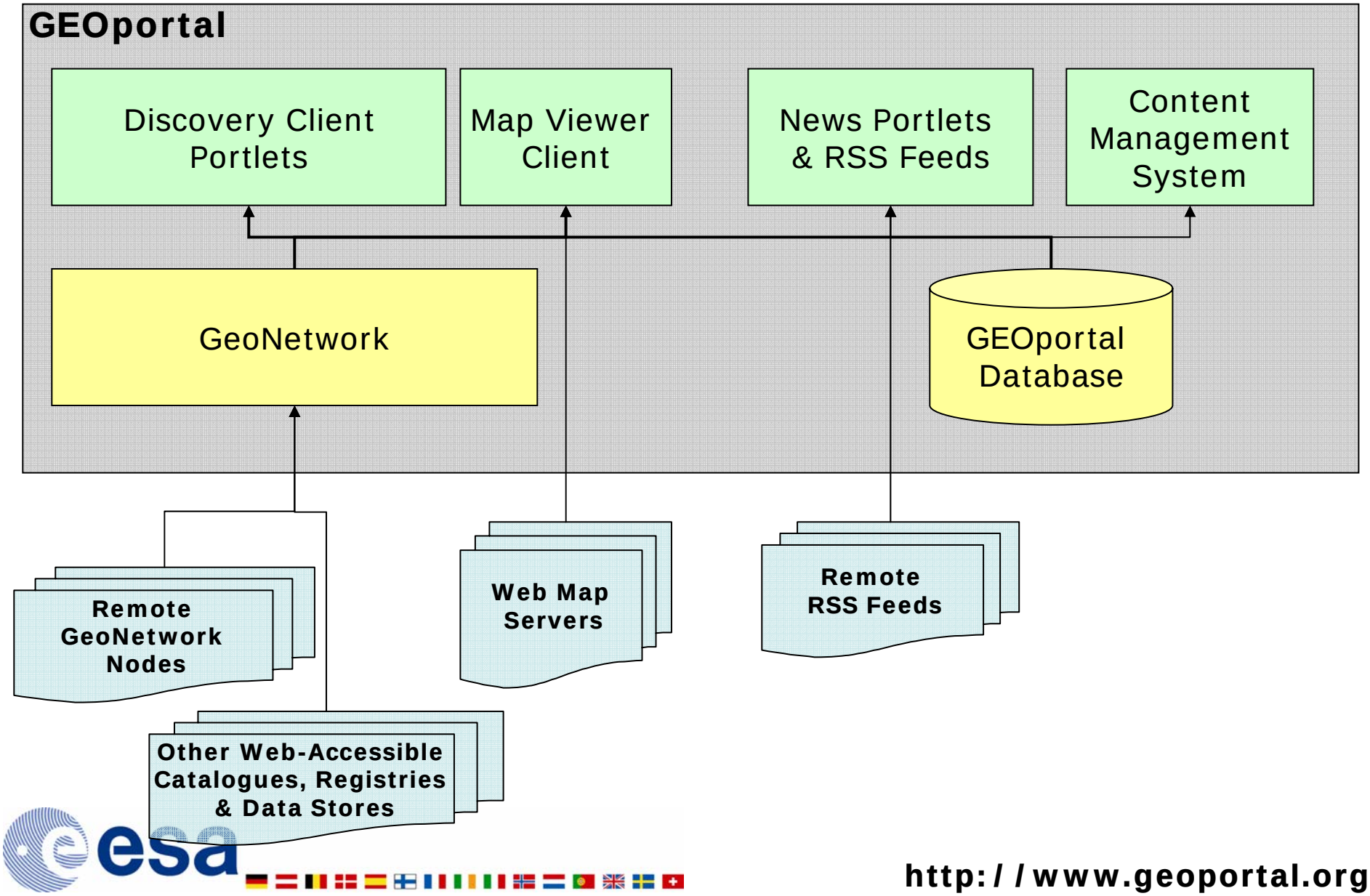
GEOportal Architecture



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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)

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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

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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)

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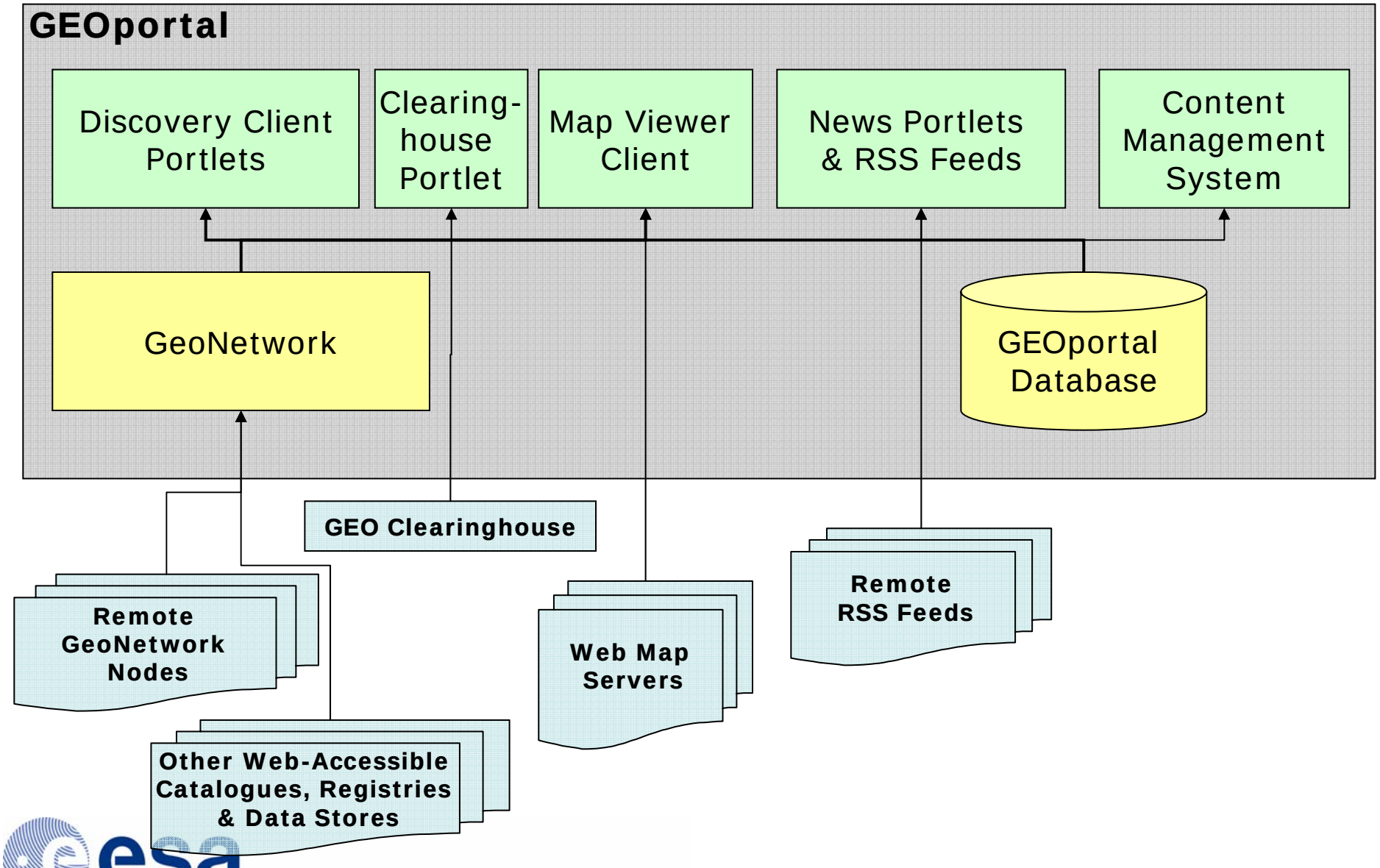
GEOportal Architecture



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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

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Observations are the only means for deciphering nature's complexities"

José Achache,GEO Secretariat Director

GEO PORTAL
ESA Contribution

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