

# Sub-task AR-09-04b

## GEONET

**11<sup>th</sup> Architecture and Data  
Committee meeting**

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GROUP ON  
EARTH OBSERVATIONS

## GEONET Definition

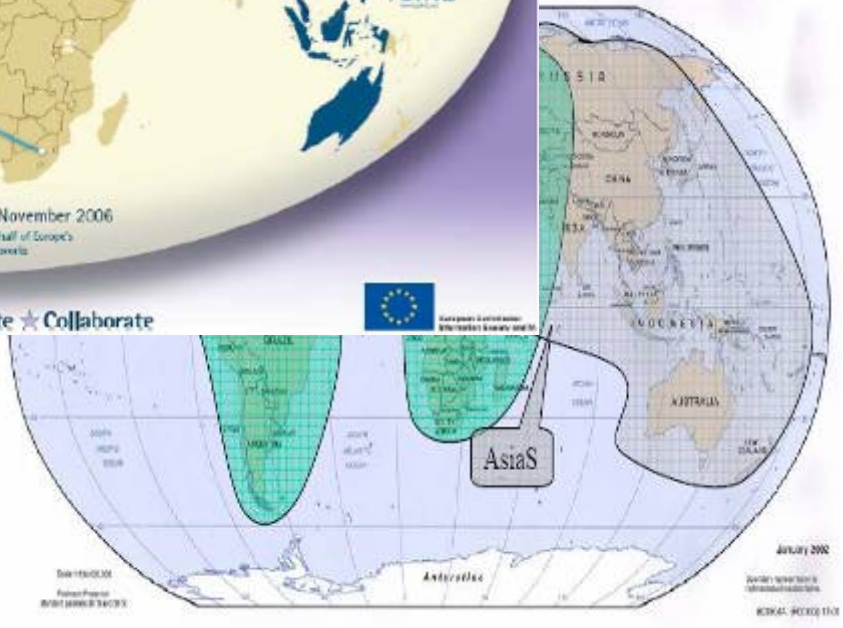
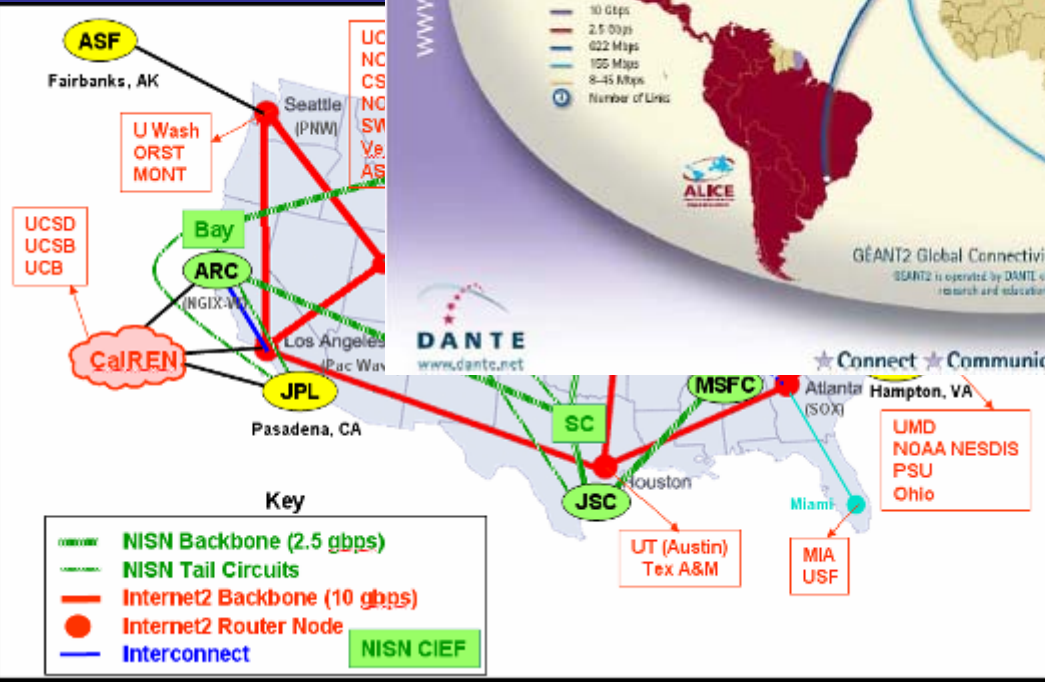
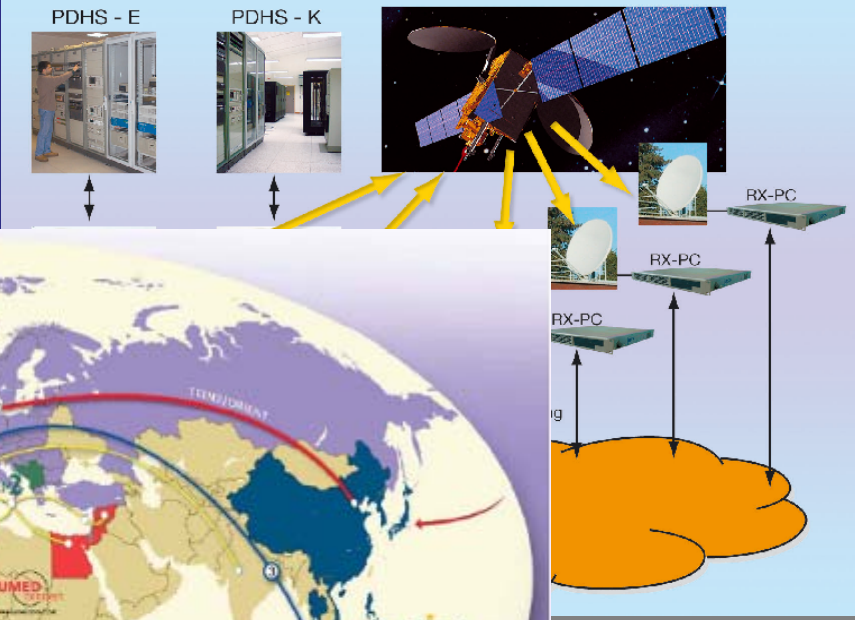
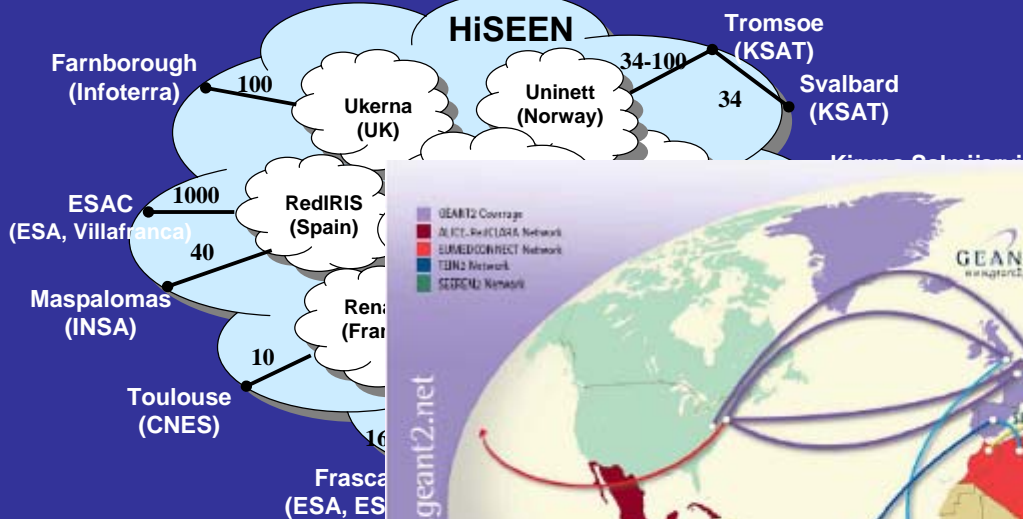


- A global communication network of interconnected networks by which GEOSS related information, data and products can be circulated and distributed in response to users and providers needs.
- Based on the sharing of national, regional and global telecommunications networks.
- It comprises User Access, Data Exchange and Dissemination services addressing all the nine SBAs.
- Based on communication network typologies, satellite and terrestrial, considered most suitable to meet the service requirements.
- A network-of-networks within GEOSS providing access points for users and data providers.

# GEONET Concept



## High-Speed ESA Earth Observation Network



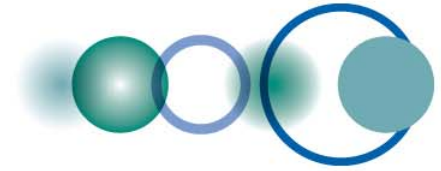


- Inventory of the available networks as candidates for GEONET and identification of possible interconnection locations per world region between networks and connection points for users and data providers.
- Definition of GEONET draft architecture, including contributing networks, interfaces and sizing scenarios.
- Definition of a draft GEONET operations concept and infrastructure sharing principles.
- Set-up of a GEONET Demonstrator based on the interoperation of existing networks.
- Progressive evolution of the demonstrator to build the integrated networking services for GEOSS.

## Next Steps



- Continue ongoing activities within the sub-task.
- Continue to seek for additional contributors to enlarge participation.
- Establishment of a technical cooperation with GEONetcast to harmonize approach and cooperate in the AR-09-04 Task (Dissemination and Distribution Networks).
- Start the definition of the Demonstration scenario.
- Point of Contact: Mirko Albani (ESA), [Mirko.Albani@esa.int](mailto:Mirko.Albani@esa.int)



**Thank you !!**

