Meeting No. 4 of the Architecture and Data Committee (ADC)

Executive summary by Bernd Richter

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Résumé:
In the majority of cases the ADC tasks show good progress in particular the evolution of the core tasks. A few tasks need changes in the management to reactivate the project.
The Call for Participation "Architecture Implementation Pilot" has been answered by 33 applicants.
For the Ministerial Summit in Cape Town / South Africa, November 2007, 28 demonstrations about early achievements in GEO are proposed; an appropriate selection will be discussed.
With the progress in GEO, a sustainability environment has to be defined for the long term operations.

Japan presents himself as a dedicated nation cooperating in many global projects which contributing to GEOSS.

The agenda as well as all presentations are available at
ftp://ftp.wmo.int/Projects/GEO/ADC/meeting14-15_May_2007/

Review of the tasks relevant for geodesy:

DI-06-02: "Facilitate improvement of capabilities for global seismographic networks such as GSN, FDSN, DAPHNE, GNSS networks and new ocean bottom networks such as VENUS and NEPTUNE"
Presentation: GEO ADCSherpa Report.5.14.07.ppt, no additional comments

AR-07-03: "Global Geodetic Reference Frames"
Presentation: geo_adc_ar0703_20070514.ppt; comment: O. Osamu (GEOSEC): GEOSEC will check whether the document GGOS2020 has to be approved by the Plenary because it is no guidance document.

DA-07-01: Interoperability among Digital Elevation Model (DEM) data sets"
Presentation: Peter DEM DA-07-01-110507.doc; it is suggested to have a close cooperation with task AR-07-03 (s. above).

AR-06-11: „Protection of radio-frequencies"
Presentation: GEO-ADC4 AR-06-11.doc; during the discussion it was questioned whether this is a task for GEO. The telecommunication companies buy the frequencies and GEO will have not the power (influence) to preserve frequency bands from commercial use.

AR-07-01: "GEOSS Component and Services Registry"
Presentation: GEOSS_Registry_Demo_20070508.ppt;
D. Nebert demonstrated a prototype for the GEOSS Components Registry und GEOSS Service Registry. Both are developed in close cooperation with the George Madson University and the Federal Geographic Data Committee (FGDC). The registries support the GEOSS Web Portal and the activities of the GEOSS clearinghouse. It is intended that not only "high level components" should be registered but also "sub-components" which will

require a corresponding taxonomy. The description field of the sub-component is included in search herewith the sub-components will be better visibility.

AR-07-02: "Architecture Implementation Pilot"
Presentation: 070513_co-chairs-pre-meeting /New_George_AR-07-02_ADC-4_Tokyo.ppt
In April 2007 the CfP has been launched with 28 responses till mid June (details s. presentation). On June 5/6 the kick off meeting took place in Frascati. For the EO summit a prototype should be ready for demonstration.

AR-06-01: "Interoperability Process Pilot Project (IP3)"
Presentation: Khalsa_IP3_Tokyo.ppt;
The IP3 has no link to AR-07-02; because the Pilot Project should be moved forwards based on existing standards. The project will develop in four phases:
Phase 1 "populating registers" identify the standards and provide the information to the clearinghouse; systems are provided by Biodiversity, FAO, CEOP and WIS. The registration of the systems including the sub-systems is completed.
Phase 2 "Cross system interoperability scenarios"; test will be performed with six scenarios: Flood Risk (presentation: ADC_CEOP3.ppt) , Species Response to Climate Change (presentation: GBIF_Scenarios_6.ppt), Meningitis Early Warning, Landslide Risk, Fault Lubrication and Seismic Events from Glacier/Ice Sheet Disintegration. Based on the GEOSS architecture the interaction of the various components will be proven.
Phase 3 "demonstration"; EO summit
Phase 4 "higher level of interoperability".

In cooperation of FAO/UNSDI and ESA a prototype for a GEO Portal www.geoportal.org has been evolved. Comments and suggestions are appreciated.

Finally R. Shibasaki, J. Pearlman and C. Ishida give prospects for future strategies, requirements and further duties in „Some Thoughts on Strategic way-forward". One of the proposed two year targets is the request to advocate use of existing Spatial Data Infrastructure (SDI) components as institutional and technical precedents in areas such as geodetic reference frames, common geographic data, standard protocols, and interoperable system interfaces, among other components. GEOSS should develop according the needs of the user community in service oriented architecture.