



# **GEOSS ADC Architecture Workshop**

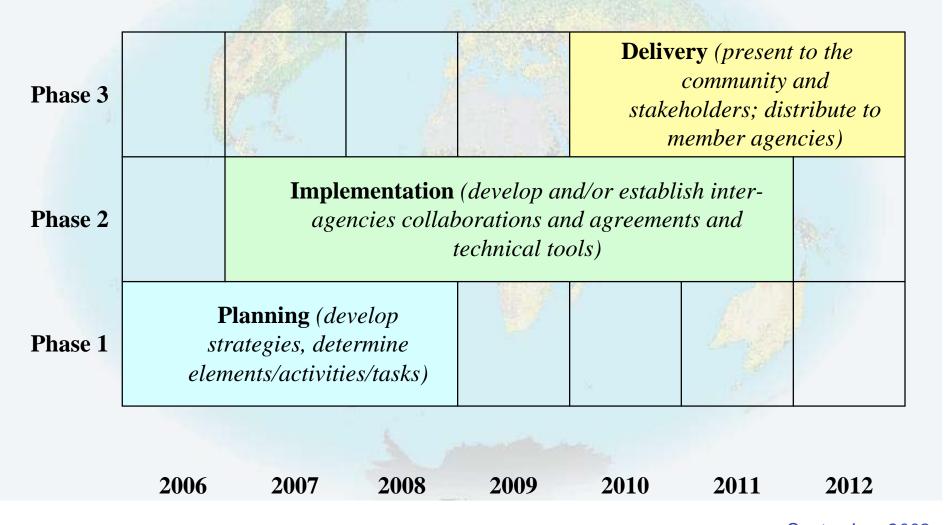
**GEO Task DA-06-02:** 





# TASK DA-06-02 **Data Quality Assurance Strategy**

## All activities are proceeding as scheduled!





#### Data Quality Assurance Strategy

### Phase 1: Develop strategies - Progress to-date

- Major concepts and key elements of the data quality assurance strategy were developed and approved at WGCV29 Plenary February 2008, Sanya, China
- Quality Assurance Framework for Earth Observation (QA4EO) – Draft-1 approved at GEO/CEOS CalVal Workshop at NIST, May 6-8, 2008, Gaithersburg, MD
- QA4EO Draft-2 will be discussed/approved by the CEOS/WGCV community at the WGCV29 Plenary, 30 September 2008, Avignon France



#### Data Quality Assurance Strategy

## Phase 2: Implementation – Progress to-date

- ➤ Project 1, Fundamental Climate Data Records (FCDR):
  - ➤ Quantified the measurement consistency among AVHRR, MODIS, and ATSR for generating FCDRs (NASA, NOAA, ESA, CCRS/CSA, USGS).
- ➤ Project 2, Benchmark Mission Planning:
  - Active studies on TRUTHS (NPL) and CLARREO (NASA)
- ➤ Project 3, CEOS/WGCV Joint Experiment:
  - Cross calibration and inter-comparisons at the Antarctic test site (Dome C) underway
- The six technical subgroups of CEOS/WGCV are developing field specific quality assurance guidelines



#### Data Quality Assurance Strategy

### CEOS Cal/Val Portal – Progress to-date

Over the last 12 months, several projects, data and documents have been integrated in the CEOS Cal/Val Portal, and links are now pointing to a large number of key information sources.



The Cal/Val Portal query interface for EO data now provides access to the former WTF MODIS data.



## TASK DA-06-02 **Data Quality Assurance Strategy**

#### The CEOS Cal/Val Portal has been updated to contain:

- Terms and Definitions for characterization of EO sensor systems
- Characteristics of Radiometric and Geometric Calibration Sites
- WTF products available (MODIS, AVHRR NDVI and SPOT NDVI)
- In situ Database including: METOZ (NASA), GlobColour (ESA), MERMAID (ESA), NOAA NDBC (NOAA), Medspiration (UK Met), Coriolis (Coriolis), TEMS (GTOS)
- New Software Tools including additional radiative transfer codes (MODTRAN, Streamer) and an orbit predictor ESOV-NG)
- Documentation including the QA4EO Framework Document, Key o Guidelines and detailed Guidelines/Procedures
  - o The literature section has received a new structure.
  - o The links section has also received a new grouping.
  - o Reference documents on calibration and validation have been added



## Upcoming changes and improvements

- The portal will be further populated with relevant information, including, user case descriptions for the tools, additional documentation on validation, and descriptions of future instruments (e.g. SMOS).
- The site descriptions will become more illustrative
- Methodology for geometry validation will be added
- The portal will be migrated to a content management system