

GMES/PROMOTE SERVICES VALIDATION AND QUALITY ASSESSMENT COORDINATION

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PROMOTE [WWW.GSE-PROMOTE.ORG] IS THE ESA-FUNDED GLOBAL MONITORING FOR ENVIRONMENT AND SECURITY [GMES] SERVICE ELEMENT [GSE] ON ATMOSPHERIC COMPOSITION. IT IS A EUROPEAN CONTRIBUTION TO GLOBAL EARTH OBSERVATION SYSTEM OF SYSTEMS [GEOSS]. PROMOTE IMPLEMENTS AND DELIVERS SUSTAINABLE, POLICY-RELEVANT **ATMOSPHERIC SERVICES** TO A WIDE RANGE OF **USERS**. A MAJOR GOAL OF PROMOTE IS TO SUPPORT INFORMED DECISIONS RELEVANT TO ATMOSPHERIC COMPOSITION.

See also talk by T. Holzer-Popp: PROMOTE-2 – The GMES Service Element “Atmosphere”, Session 4S4 – GMES, April 26, 2007

GEOSS GMES PROMOTE

USERS

- PUBLIC AUTHORITIES
- GOVERNMENTAL AND INTERGOVERNMENTAL AGENCIES
- INDUSTRY
- HEALTH ORGANIZATIONS
- CITIZENS

SERVICES

- UV RADIATION (UV)
- AIR QUALITY (AQ)
- OZONE (O3)
- GREENHOUSE GASES AND AEROSOLS (GHG)
- SPECIAL SERVICES (S)

VALIDATION COORDINATION OFFICE

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PROtocol MOniToring for the GMES Service Element: Atmospheric Composition

OBJECTIVES

TO ENSURE APPROPRIATE, **USER-DRIVEN** VALIDATION OF PROMOTE SERVICES, COMPLIANT WITH **GMES/GEOSS REQUIREMENTS** OF STANDARDIZATION AND SUSTAINABILITY, IASB-BIRA HAS ESTABLISHED AN OFFICE DEDICATED TO THE COORDINATION OF PROMOTE SERVICES VALIDATION AND QUALITY ASSESSMENT.

TASKS AND OUTPUTS

THE **VALIDATION COORDINATION OFFICE** **MANAGES** THE TOP-LEVEL DEFINITION OF APPLICABLE STANDARDS AND VALIDATION APPROACHES FOR ALL CONSTITUENTS OF THE PROMOTE SERVICE PORTFOLIO. IN ADDITION, THE VALIDATION OFFICE COORDINATES VALIDATION CARRIED OUT WITHIN PROMOTE AND WITH EXTERNAL SUPPORTING PROJECTS.

⇒ COORDINATION AND FACILITATION OF SERVICE VALIDATION AND QUALITY ASSESSMENT ACTIVITIES, MAINLY THROUGH WEB-BASED INTERFACES TO INTERNAL AND EXTERNAL FACILITIES AND RESOURCES.

⇒ IMPLEMENTATION AND ENFORCEMENT OF THE SERVICE **VALIDATION PROTOCOL** TO BE APPLIED CONSISTENTLY ACROSS THE SERVICES NETWORK.

⇒ COORDINATION OF THE GENERATION OF **INDIVIDUAL SERVICE VALIDATION REPORTS** TO VERIFY FITNESS FOR PURPOSE OF EACH SERVICE VALIDATION AND ASSESS ITS COMPLIANCE WITH THE APPLICABLE TECHNICAL SPECIFICATIONS.

⇒ SUSTAINABLE ARCHIVING OF VALIDATION DOCUMENTATION THROUGH A DEDICATED WEB PAGE.

See PROMOTE-2 Baseline Proposal, 2006

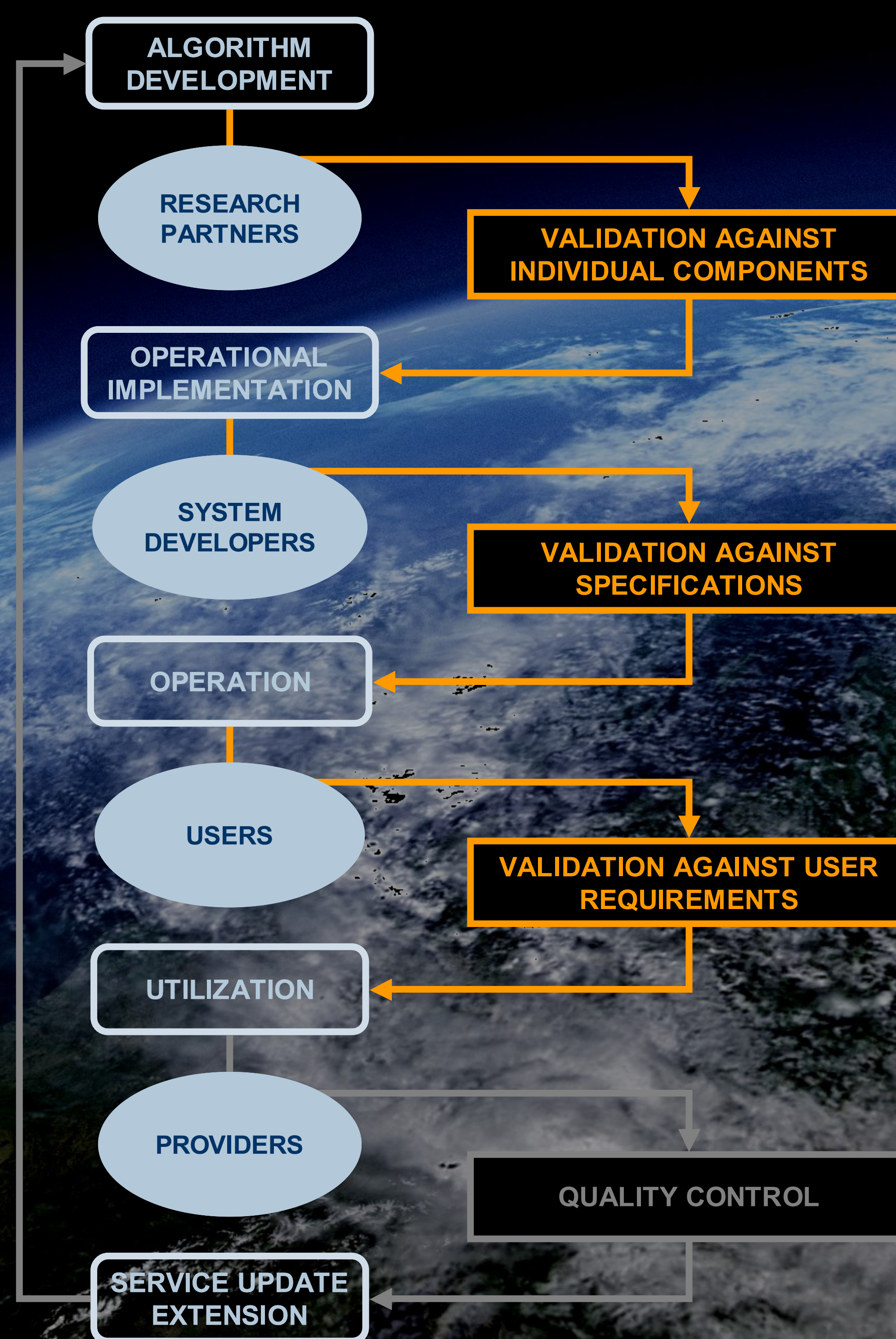
VALIDATION PROTOCOL

⇒ **VALIDATION AGAINST INDIVIDUAL SERVICE COMPONENTS** provides the geophysical validation of intermediate and final products.

⇒ **VALIDATION AGAINST SERVICE SPECIFICATIONS** confirms the compliance of actual product properties with theoretical features and error bars.

⇒ **VALIDATION AGAINST USER REQUIREMENTS** guarantees the compliance of specifications of delivered products with user-defined requirements as expressed in Service Level Agreements.

⌚ During Service Extension and Updates the complete validation protocol must be applied before starting a new phase.



REFERENCES:

- Holzer-Popp, T. et al. (2006) Proposal for « Up-Scaling the GSE Atmospheric Monitoring Portfolio: Baseline Services ». Volume I. DLR, Germany. 198 pp.
- WMO/CEOS report on a Strategy for Integrating Satellite and Ground-based Observations of Ozone (WMO TD No. 1406 / GAW report Series N°140)
- Data Quality Guidelines for Satellite Sensor Observations Relevant to GEOSS -Calibration and Validation Issues, Recommendations by CEOS/WGCV to the CEOS

