

Principles of the EO data access during the periode 2011-2013

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User Hearings on Access to GMES EO data
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Context of GMES Data and Information Policy

- Principle of **‘Full and open access’** for GMES Information and Data Policy proposed in the GMES programme regulation (COM(2009)223 final, Art.8)
 - § Applies to data/information from infrastructure funded by EC and/or ESA
 - § **‘free and open access’** jointly proposed by ESA-EC for Sentinel Data Policy
- For other required data: **Data Access mechanism**, based on existing Data Policies and negotiations with data providers

Data Access context

- **10/2007-10/2010 : GSC-DA (Data Access Grant)**
 - § **FP7 Support Action**
 - § **Budget 48 M€- 36.7 M€for data licenses and adaptation of Contributing missions interfaces**
 - § **Baseline documents**
 - **DoW describing ESA activities**
 - **Requirements expressed by beneficiaries (DAP)**

- **10/2010-12/2013 :**
 - § **Part of the EC-ESA delegation Agreement**
 - § **Budget 53 M€(FP7) (+ GIO DA later)**
 - § **Baseline documents:**
 - **Project Implementation Plan (PIP) describing ESA activities**
 - **Requirement expressed by the EC (DWH specs)**

From DA Grant to New DA concept

- **Current FP7 Data Access grant (2007-2010) dedicated to FP7 projects and based on the collection of service provider requirements**
 - § Datasets cannot be re-used outside FP7
 - § Further extension of licenses (on a case by case basis): not the best approach
 - § User requirements collection: heavy process, time-consuming, lack of flexibility, difficult to stabilise detailed specification
- ➡ **Move to new concept for the Delegation Agreement (2011-2013)**

New DA overall concept

- **New concept for the Delegation Agreement (2011-2013) based on broader data access (multiple users/usage) moving from an approach of detailed service requirements to a Data Warehouse concept**
 - § Extension of licenses of current DA beyond FP7 projects
 - § Pre-definition of CORE (large) datasets meeting the common needs of broad user community (multi-user licenses)
 - § Bulk agreement for ADDITIONAL datasets managed through quotas mechanism

Objectives of GMES Space Data Access scheme

- **Access to other space data (from Contributing Missions) required to complement Sentinel data (2012+)**
 - § Meet GMES service requirements
 - § Shared access (common 'Core datasets')
- **Added-value:**
 - **Mutualisation to**
 - § Avoid duplication
 - § Maximize cost-effectiveness, economy of scale
 - § Negotiate better condition of access with mission owners/ data providers
 - § Take advantage of coordinated data access mechanism
 - **Better long-term vision for data providers**

Challenges

- **Uncertainty and constant evolution of scope of GMES services and potential beneficiaries: difficult to stabilise requirements**
- **Potential mismatch between the ambition to widely share data and limited financial envelope**
 - decision based on user needs and cost assessment
 - prioritisation of users/usage categories might be required
 - contribution of users to be considered, reciprocity may apply. E.g. GMES could offer Common CORE datasets up to a certain resolution/scale, in counterpart users could offer access to their own datasets (other EO data, in situ data, derived products)
- **Avoid distortion of commercial market and secure the sustainability of data providers**
- **Address synergies with existing data procurement schemes (e.g. JRC, EUSC, EMSA...)**

Concept of Data Ware House

- **CORE Datasets:** large satellite datasets at various resolutions for large number of beneficiaries
- **ADDITIONAL Datasets:** dedicated to specific areas/user needs
- **Objective:** harmonisation, consistency and sustainability (build time-series datasets) very important for change detection and CC monitoring
- **Why doing it when there is already Google?**
-> Different model, 'Public mission' of GMES, independence

Proposed CORE Datasets

**MR and LR
Global
coverages**



**Daily-Weekly
Terrestrial ECVs**

**MR* EU
coverages**



**Monthly / Bi-monthly
Seasonal monitoring**

**HR Pan-EU
coverage**

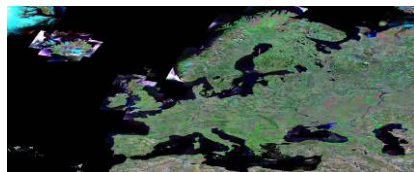


**3-5 years
Pan-EU Land Cover**

**HR sub-saharian
coverage**

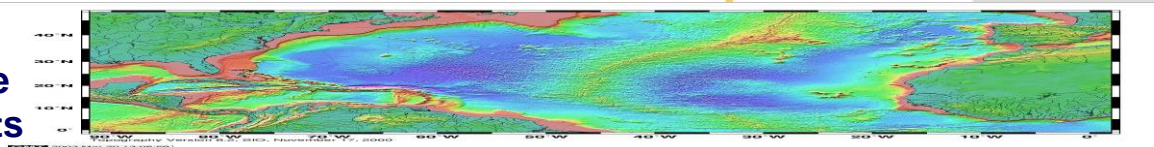


**VHR EU
coverage**



**3-5 years
'hot spot' Land monitoring –
Emergency Response - Security**

**Marine and
Atmosphere
Core datasets**



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Implementation issues

- **Cost assessment** based on
 - § Core datasets specifications, with different options (categories of users and usage per dataset)
 - § Estimate of Additional datasets extrapolated from current DA grant (e.g. for Emergency Response, Security services)
- **Procurement scheme** adapted to each type of datasets (commercial, non commercial)
 - § Negotiation with mission owners to establish institutional agreement
 - § Procurement through standard open ITT or direct negotiation
- **Define a quota mechanism** for Additional datasets
 - § Prioritisation: e.g. Emergency Response, Security
 - § Allocation of quotas per year, per user and per category of data with annual adjustment

Thank you for your attention