

Hearing on EO data Access

Preliminary list of data sets

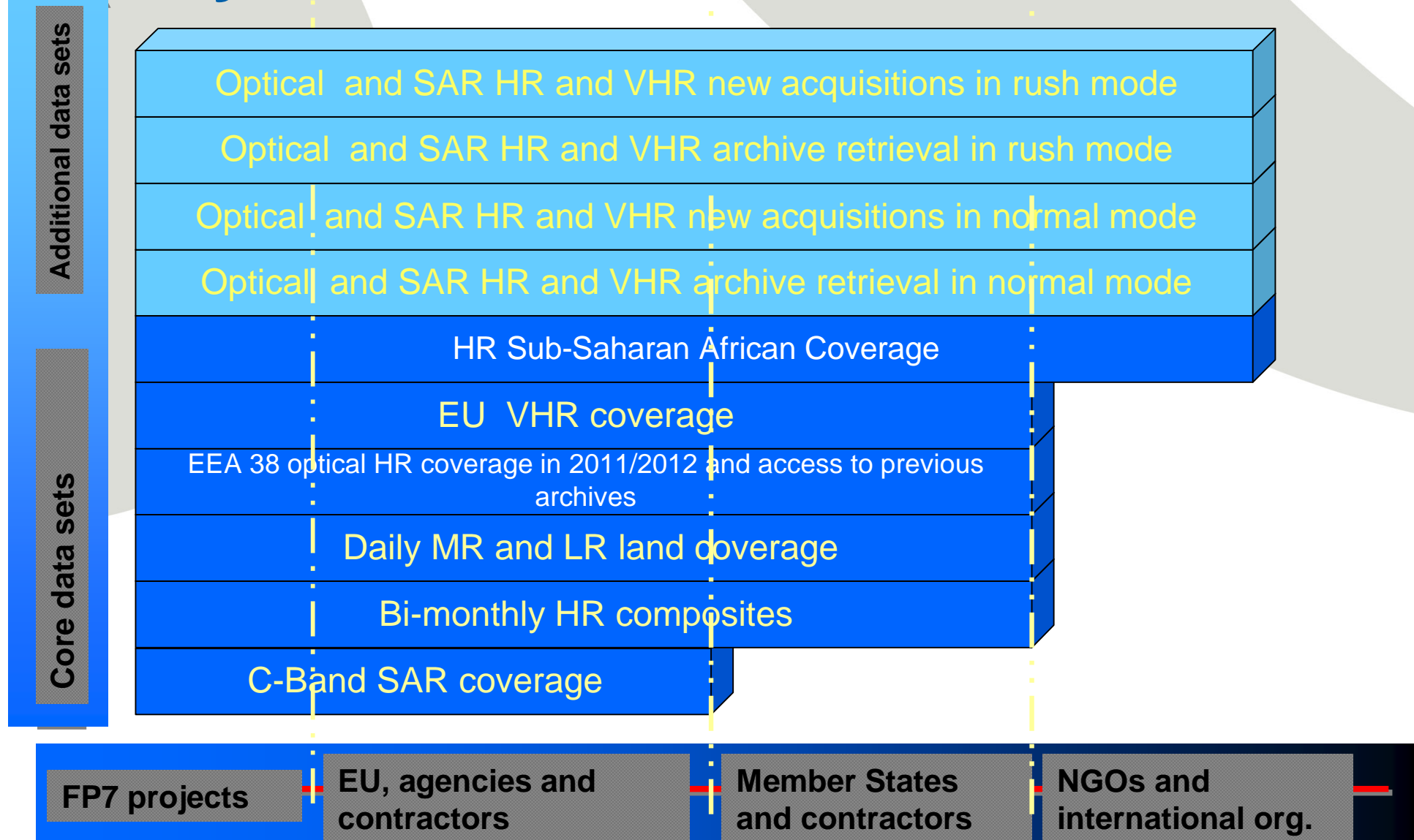
Considered user needs

- Needs of the FP7 Core services over the post 2010 period. (i.e. until end 2012 for Geoland2, end 2011 for the other projects)
- Needs of the operational services to be initiated under GIO:
 - § emergency service over the period 01/2012 to 12/2013.
 - § land monitoring services.
- Fulfilment of the needs of the Downstream services over the post 2010 period.
- Fulfilment of the needs of other institutional actors (EEA, EMSA, JRC...).
- Support to Member States in their GMES related activities

Preliminary data sets

- Two categories:
 - § Core data sets : Data sets with fixed specifications representing the common needs of a broad user category
 - § Additional data sets with flexible specifications (e.g. geographical coverage), with predefined quotas

Data sets and licensing scheme





Core Data sets

EEA 38 Optical HR coverage (Core_001)

- Characteristics :
 - § Optical high resolution (~4-10m) – EEA 38 coverage – 2 coverages
 - § Image2009 compatible
 - § SWIR
 - § Backup : ~20m resolution
 - § Orthorectification preferred
- Needs to be covered
 - § Land cover/land cover change activities under GIO and FP7
 - § EEA work programme

European VHR coverage (Core_002)

- Characteristics :
 - § Optical very high resolution (1-3 m) – EU27 coverage – 1 coverage over 3 years (2012 \pm 1)
 - § SWIR - VNIR
 - § Backup : Selected EU27 sites
 - § Orthorectification
- Needs to be covered
 - § Dedicated applications under GIO and FP7
 - § Urban Atlas continuation (Prio. 1)
 - § Monitoring of coastal areas, risk areas, protected areas...

Daily worldwide LR/MR coverage (Core_004 to Core_007)

- Characteristics :
 - § Optical MR/LR resolution (>100 m) –
Worldwide coverage – NRT-3h
 - § MIR – VNIR - SWIR
 - § Access to mission archive
- Needs to be covered
 - § Production of biophysical parameters and
ECVs under GIO and FP7

Bi-monthly EU HR coverage (Core_008)

- Characteristics :
 - § Optical HR/MR resolution (~ 60 m) – EU coverage – AWIFS type
 - § Generation of composites - orthorectification
 - § Vegetation season (March – October)
 - § VNIR - SWIR
- Needs to be covered
 - § Seasonal vegetation monitoring under GIO and FP7

Sub-Saharan coverage in HR (Core_009)

- Characteristics :
 - § Optical HR (~ 20 m)
 - § Sub-Saharan Coverage
 - § VNIR – SWIR preferred
 - § Backup: 20*20 km² grid
- Needs to be covered
 - § Support to GMES in Africa
 - § Level of priority to be discussed



C- Band SAR coverage (Core_011)

- Characteristics :
 - § C-Band MR (~ 100 m) – L1b
 - § Zones as currently defined by MyOcean (Baltic, Greenland, Davis Strait/labrador Sea, Eurarctic, Antarctica)
- Needs to be covered
 - § Continuation of FP7 projects – future FP7 projects

VHR view service (TBC)

- Characteristics :
 - § Access to a view service (e.g. through Web Map service, data streaming protocols)
 - § Access to a representation of the image, no download of the image itself
 - § Optical VHR < 1m, pan sharpened images
- Needs to be covered
 - § Emergency base mapping
 - § Land and security applications
 - § Support to orthorectification

Other

- Characteristics :
 - § Data provided by public missions for Marine and Atmosphere support as defined under the DA grant
 - § Includes SST, Ocean color, altimetry data, data for aerosols, SO₂, HCHO, O₃, CO₂, CO, CH₄, NO₂... monitoring
- Needs to be covered
 - § Continuation of FP7 projects – future FP7 projects



Additional Data sets

Rush/normal mode data access

- Characteristics :
 - § 28 combinations of data
 - Rush/normal mode
 - Optical – X-Band
 - 4 resolution types (HR2, HR1, VHR2, VHR1 - optical only-)
 - Archive rush retrieval / rush satellite tasking
 - § Each data type has fixed characteristics (timeliness, pre-processing, quality)
 - § Flexible quota mechanism sought
- Needs to be covered
 - § Emergency and security activities under GIO and FP7, additional needs of FP7 projects

Quota management

- Definition of quotas after assessment of costs
- Quota per category of data but allowing flexibility between the categories
- Quota per category of users
- Need to define annual breakdown to ensure provision over the three years of the DA.
Yearly adjustment necessary
- Need to define priorities between beneficiaries for data set ordering