

# **GSE Projects versus Land Monitoring Core Service**

**Report of Splinter Session with  
GSE Land, GSE Forest Monitoring, GSE Food Security**

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## **Local:** European Very High Resolution Land Use / Land Cover

- Hot spot mapping
- 22 mainly urban classes
- 0.25 ha MMU
- Accuracy t.b.d.

## **Continental:** European High Resolution Land Use / Land Cover

- Wall-to-wall mapping of European Continent
- Evolution of 10 classes (EEA precursor 2006) – 21 classes compatible with CORINE
- 1.0 ha MMU
- Accuracy t.b.d.

**Global:** t.b.d.

GSE Land	Degree of Compliance with LMCS			Downstream
	Local (Urban) Component	Continental Component (Europe)	Global Component	
Sub-Services				Benefit of Core Service
European Urban Atlas	✘			75%
Impervious Areas and Soil Sealing		×		75%
Inland Water Quality		✘	×	80%
Irrigation / agricultural water consumption		×	✘	80%

✘ strong match with LMCS, × partial match with LMCS

GSE Forest Monitoring	Degree of Compliance with LMCS			Downstream
	Local (Urban) Comp.	Continental Comp. (EU)	Global Component	Benefit of Core Service
PAN European Forest Monitoring		✘		80%
UNFCCC / KP Reporting		×		20-60%
Forest Information Update				10%
Environmental Monitoring		×		60%
Forest Operations & Disturbances				40%
KP CDM				Small benefit of global?

✘ strong match with LMCS, × partial match with LMCS

	Degree of Compliance with LMCS			Downstream
	Local (Urban) Component	Continental Component (Europe)	Global Component	Benefit of Core Service
<b>GSE Food Security</b>				
<b>Early Warning</b>			×	
<b>Support to FAO / WFP CFSAM</b>			×	
<b>Agricultural Mapping</b>			×	
<b>Yield Assessment</b>			×	

**GSEs: Finish mid 2008 / mid 2009**

**FP-7: (Pre-) operational validation of GMES services and products**

- **1. call 2007: Development of upgraded capabilities to existing FTS and related (pre-)operational services → Core services, downstream services for validation of CS**
- **2. call 2009: Stimulating the development of downstream GMES services**

**Operational budget lines: need to be established**

- **Local: DG Regio**
- **Continental: DG Env, DG Agri, EEA**
- **Global: DG Dev, DG Relex → AIDCO, ECHO**

- GSE Services are **information services** based on a mapping component
- **First core service** are the geo-coded ortho-rectified satellite images and mosaic
- **Implementation** of pre-cursor Land Monitoring by EEA with high resolution layer on forest and soil sealing
- **Users** require **continuity** in the information services – potential gap between end of GSE and Downstream Call
- **Service networks** can only be maintained by supplying services – potential gap for downstream services
  - ➔ **potential anticipation of FP7 2<sup>nd</sup> call to “late 2008”**

## **LMCS Local Component:**

- **Excellent match with Urban Atlas**
- **Similar demand for very high resolution information for other dynamic areas (Nature 2000, Forestry, ...)  
expressed at e.g. user workshop Oct 2005**

## **LMCS Continental Component:**

- **Strong match with intermediate products of downstream services of GSEs**
- **Service evolution of consolidated and validated GSE services to Europe-wide information services**

## **LMCS Global Component:**

- **Is under definition (subgroup of IG Land)**
- **Policy driver and sustainability is at EU level (DGs, UN, International Conventions, Treaties, ...)**