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# Summary of GMES status





# First steps

- **Initial Period (2001-2003) results in Final Report** (available at <http://www.gmes.info>) and Commission Communication [COM (2004) 65 final] (3 Feb. 2004)
  - Period aimed at defining GMES on the basis of:
    - ↪ users' requirements
    - ↪ expected services
    - ↪ policy support
    - ↪ economic and social benefits
    - ↪ potential partnership and international cooperation
- **Projects for pre-operational services (2002 onwards)**



# GMES management 2004 - 2005

- **GMES Programme Office**

- Operational management of GMES using the mechanisms foreseen in the EC/ESA Framework Agreement.
- Populated by EC DGs, relevant EU organisations (e.g. EEA, EUMETSAT, EU Satellite Center, EU Council) & seconded experts from Member States

- **GMES Advisory Council**

- Brings together EU/ESA Member States, EC and ESA, as well as other stake-holders on an ad-hoc basis: relevant EU organisations (e.g. EEA, EUMETSAT, ECMWF, European Maritime Safety Agency, EU Satellite Centre, EU Council etc.)
- long-term strategy, political and financial support



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# Communication 2005 on GMES COM (2005)565



# General issues

- Released on November 16<sup>th</sup>, 2005
  - [http://europa.eu.int/comm/space/off\\_docs\\_en.html#5](http://europa.eu.int/comm/space/off_docs_en.html#5)
- Main issues addressed
  - Strategic dimension of GMES
  - GMES at the service of the EU
  - Implementation
  - Promotion of GMES



# Strategic dimension of GMES

- Recall of political mandate given to EC at the June 2001 Gothenburg Summit
  - “achieve by 2008 an operational & autonomous European capability”
- GMES covers local, regional & global issues
- EU tool for participating to international efforts (G8 recommendation)
  - EU Strategy for Africa
  - EU bilateral dialogue with the USA, Russia, China, India..
  - “GMES [...] main European contribution to [...] the GEOSS”
- GMES at the centre of a series of partnerships
- Selected as one of the Quick Start projects of the EC Initiative for Growth



# GMES at the service of the EU

- **Support to a variety of EU policies** including:
  - **EU environmental commitments:** contribution to Community environmental policies, national regulations & international conventions
  - **Other EU policies, including CAP, regional development, fisheries, transport, external relations, development aid..**
  - **Common Foreign & Security Policy (CFSP), including European Security & defence Policy**
  - **Other policies relevant at Community & national levels, inc. Justice, home affairs, customs, external borders**



# Implementation issues

- **Users at the forefront**

- Build a **strong user base** for GMES services
- **EC is one key user**
- Need to assure a service **availability on a long-term basis**
  - ↪ **Guaranteed availability of space-based & in situ observation & data management infrastructures**
- Need for mechanisms to **validate quality, relevance & performances of services**
  - ↪ **Key milestones for each service**
  - ↪ **Roadmaps will include start up & operating costs**



# Implementation issues

## ● Introduction of Pilot Operational Services

→ Based on:

↙ Their maturity

↙ Their uptake by user communities (policy relevance)

↙ Long-term sustainability of demand & supply

→ Funding by aligning EC, national & regional resources

→ Challenges

↙ Interoperability of acquisition systems

↙ Standardisation of data structures & interfaces

↙ Fusion of data from different sources

↙ Cost-effective, innovative, user-friendly services

→ Part of a coherent overall programme



# Implementation issues

- **Candidate services for “fast track” introduction**
  - Three services likely to proceed into pilot operational phase by 2008
    - ↙ Emergency Response
    - ↙ Land Monitoring
    - ↙ Marine Core service
  - Process for confirming status & defining scope & modalities inc. dedicated workshops (Oct-Nov 2005)
  - Development & funding based on current process
    - ↙ EC/FP6 & ESA/GSE projects
    - ↙ Remaining FP6 resources focused as far as possible on “fast track” service implementation
  - “Fast track” services as INSPIRE pilots
- **Further pilot services to be progressively introduced (2009 onwards)**



# Implementation issues

- **Funding strategy**

- 230 M€ spent by EC & ESA on demonstration services
- FP7 under preparation: GMES second flagship of the EU Space Policy
  - ↙ Contribution to a significant proportion of the ESA GMES space component
  - ↙ Assistance to GMES operational service implementation
  - ↙ Contribution to GEOSS & INSPIRE implementation
- Use of non-R&D EC instruments to be explored
- Use & pooling of available resources



# Implementation issues

- **Existing capacities**

- National & European: need to pool and avoid duplications
- Identify gaps & replacement needs of existing capacities
  - ↳ Discussion between agencies (intergovernmental, community) & their MS
- Urgency to maintain data continuity (inc. space & in situ observation infrastructure) for the next 10-15 years
- ESA GMES Programme proposal welcomed by the Commission



# Implementation issues

- **Impact assessment**

- On-going impact assessment study

- ↙ Funded & managed by ESA

- ↙ Expert group set-up by EC (GAC nominates)

- First outcomes

- ↙ Significant non-quantifiable benefits: public good, strategic

- ↙ Substantial quantifiable benefits expected during the 2005-2030 period (figures under assessment)

- Final report to be released within a few weeks



# Implementation issues

- **Governance**

- **Roles & responsibilities**

- ↙ **EU** in charge of user demand & requirements, and of availability & continuity of **services**

- EC will manage the development of GMES services, directly or through externalisation**

- ↙ **ESA** in charge of the **space component** (definition & implementation)
- ↙ **Member States** contribute to **data collection, management activities, data infrastructure, support to the space component**



- **Governance (cont'd)**

- Structures

- ↳ **Short-term (2006-2007)**

EC will set up a GMES structure in charge of:

- GMES strategy , including coordination of EC GMES-related activities
- Development of GMES pilot services
- Support to current & future R&D activities



- **Governance (cont'd)**

- Structures (cont'd)

- ↳ **Medium term (2007-...)**

- Start of FP7
- Establishment of pilot operational services
- Possible expansion of EC structure: staff seconded from national, regional & local authorities
- JTI as an option for the management of FP7 funding

- ↳ **Long term**

- GAC working group on Governance: report to be delivered in April 2006
- GOSIS SSA supported by EC (lead: ESYS)



# Annexes

- **Outline of “fast track” services & list of initial services**
- **Process for the implementation of the GMES “fast track” services**

## → Milestones

- ↙ **2005: workshops**
- ↙ **2006: terms of reference of the “fast track” services**
- ↙ **2007: FP7 calls for proposal**
- ↙ **2008: pre-operational validation of the “fast tracks”**

## → Process

### ↙ **Setting-up of Implementation Groups**

- ☞ **Mandates & composition under definition**
- ☞ **Supervision & validation of “fast track” implementation**
- ☞ **Report to the GMES management structure**