

Stage 2 of GMES Services Element

Co-location Meeting 2007 (C-5)

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GSE Forest Monitoring – Achievements and Prospects for FP7 and LMCS

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Consortium led by:



Project funded by



Project Part of



Service Portfolio – Pan-European – National - Local Scale

Pan-European Forest Monitoring Service

Support to National UNFCCC and Kyoto Protocol Reporting on LULUCF Activities

Forest Information Up-date

Support to Environmental Monitoring

Detection and Post-monitoring of Natural and Human Induced Forest Disturbances

Support to Management and Reporting Obligations of LULUCF CDM Projects

**Services are delivered in
annual cycles**

Main Achievements after Phase 1 of Stage 2

- **Successful delivery of all services and products to the user community**
- Innovative service cases such as the Pan European case and the REDD pilot case (Bolivia and Cameroon)
- **Positive feedback from users on integration of services, overall user utility, assured quality of services and customer care**
- Demonstrable user demand for new service cases
- **Involvement in parallel GMES related activities (IP B4G, DeCover..)**
- Identification of key R&D topics that require further investigation to develop new products and databases to satisfy the user requirements

Current Status and Plans of Service Roll-Out

Total Service Area Per Service Category

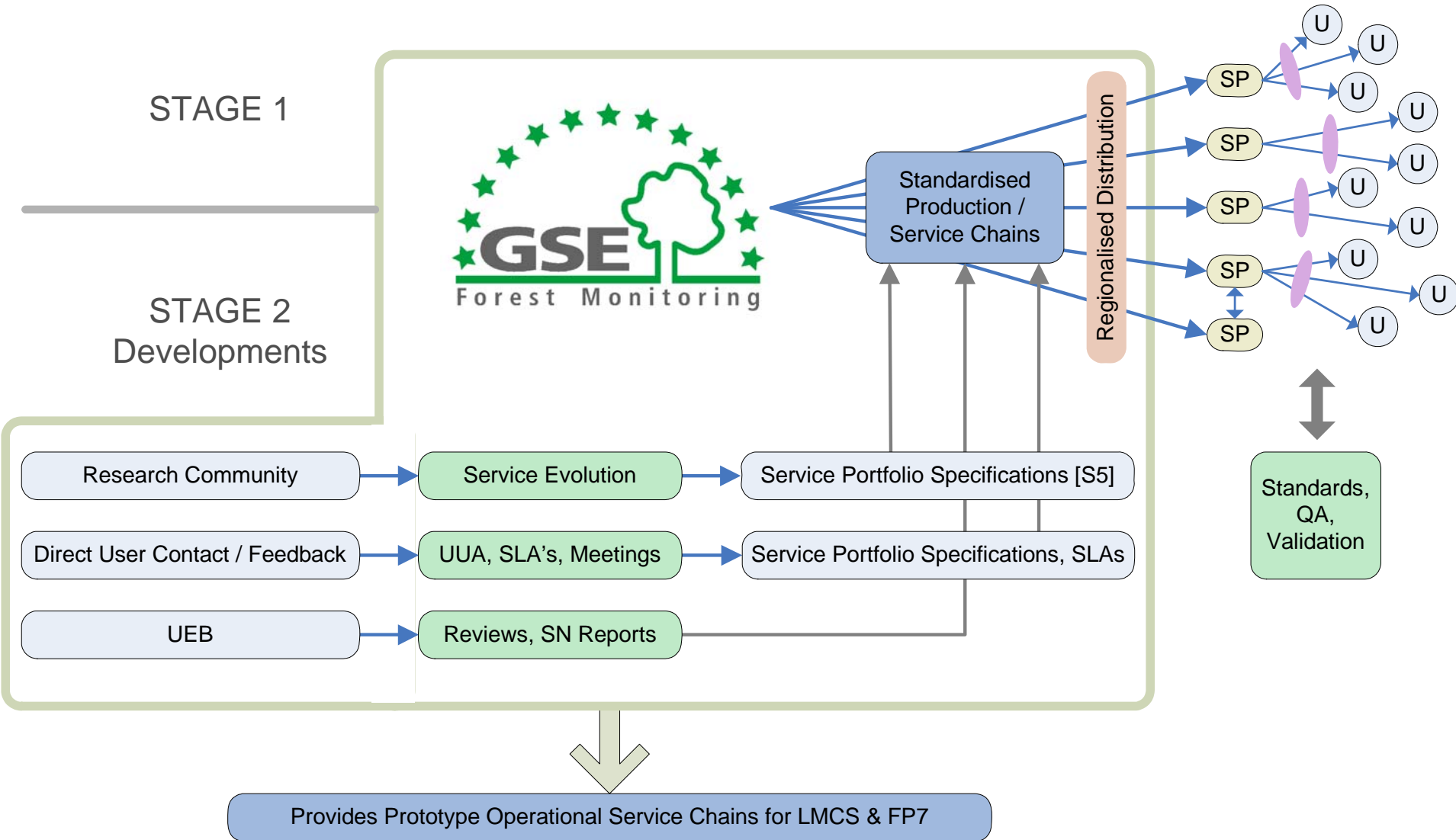
| | Service Coverage in km ² | | | |
|---|-------------------------------------|---------------------|--------------------|---------------------------|
| | Phase 1 Planned | Phase 1 Realised | Phase 2 Planned | Total Planned Phase1-3 |
| PAN European Forest Monitoring Service | | | | |
| Ortho-image and Resource Map | 3,900,000 | 5,065,717 | -- | 3,900,000 |
| Forest Map and Indicators | 400,000 | 446,929 | 400,000 | 1,200,000 |
| Total Km² | 4,300,000 | 5,512,646 | 400,000 | 5,100,000 |

Service Network – New Building Blocs in Stage 2

- The Service Network (SN) was expanded to include Science Community and Users in functional roles
- The SN experienced an expansion with new Users and new Service Providers (SP) joining:
 - Phase 1: 20 SP → Phase 2: 31 SP
 - Phase 1: 21 Users → Phase 2: 35 Users

Service Network – New Building Blocs in Stage 2

Established Global User and Service Capacity Network



- **Most users are national level and public sector agencies**
- **User Executive Body (UEB) was formed in Phase 1**

User Executive Body Experiences

- **Representative body of the various users**
 - reviews and feedback to portfolio and delivery
 - control mechanism as to responsiveness to user requirements
- **GSE FM has raised the bar regarding user-provider (stakeholder) integration on a bilateral basis**
- **Contrast: User involvement in overall project needs improvement**
- **“ueb“ – imperative form of “ueben” (to practice)**
 - fits well: Users practice to take advantage of coherence and added value of overall project
 - users involved in project at management level also active in UEB
- **Lessons learned from UEBs of services should be transferred to FP7 projects**

User Utility – Summary of the Assessment

Scale: Unsatisfactory to very good

Service providers address product specifications?

CURRENT SERVICE DELIVERIES EVALUATION

Services/products integration potential

Services/products completeness

Services/products correctness

CURRENT SERVICE EFFICIENCY EVALUATION

Impact of the services

Overall benefits of the services

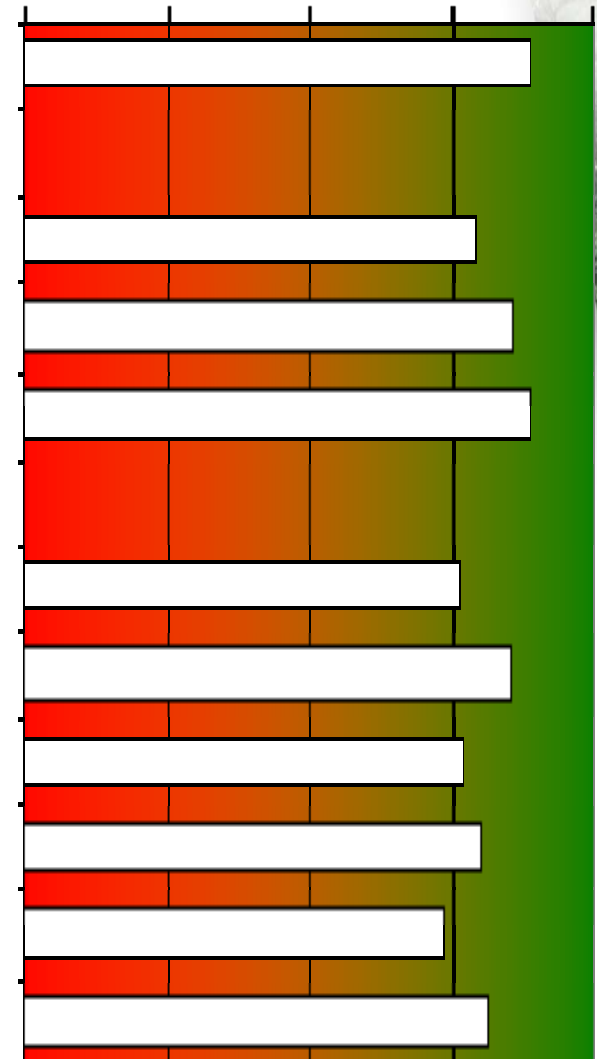
Cost saving

Improved monitoring capability

Improved objectivity/consistency/reliability

Improved objectivity/consistency/reliability

Overall evaluation of the services



Utility assessment

- **Key issue: integration in day-to-day work: result medium**
- **FM outputs complementary to existing data**
 - supplements/improves currently used data
- **Integrated georeferenced data**
 - e.g., forest harvesting, clear cuts, fragmentation, areas difficult to access...
- **Few cases of utilisation of FM data for reporting**
- **Acceptance of services by users increases**
- **Currently possible, yet uncertain whether uses will take up service once it is operational**
- **More time needed**
- **Danger: sudden cut off date end 2008**
 - already accomplished work may be in vain

Transition to FP7- User Perspective

- **GSE: formal mechanisms define users roles: rights and responsibilities**
 - most importantly SLA, inputs and outputs of project for user
 - utility assessment shows how users perceive service
 - all projects have user group
- **FP: Coordinator (provider) decides modes of user involvement and options for users to influence project**
 - some projects have solid user group, others don't
- **GSE: Production, aiming at operational services**
- **FP: Research and Development**
- **Both is needed at the same time**
 - Therefore, operational continuity is at risk

Operational Sustainability:

- Depends on continuity and access to both high-resolution EO data as well as in-situ, ancillary data.
- Sentinel 2 will have a contributory role.

Financial Sustainability:

- Finances of GSE FM ends at 2008
- Additional finances can be found for some specific service cases
- For further improvements of services and infrastructure R&D budgets available through FP7 from 2008 onwards
- Sourcing of finances for operational implementation therefore remains a priority

Transition to FP7: SP Perspective

- GSE FM has a Pan European service which is a Core Service, but also has downstream applications (SoE reporting etc.).
- The Pan-European and Downstream services, such as UNFCCC and Environmental Monitoring have commonalities that fit the general technical requirements of the LMCS (IG Report)

=> Consolidated and validated components can be part of the LMCS.

- Most GSE FM services are downstream services but would benefit strongly from a (generic) core product in different levels of utility, depending on:
 - the final specifications of the LMCS takes into account requirements of downstream services
 - Access to the LMCS products including the EO-data products



Thank you for
your attention!

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