



geoland

GSE Land esa

GSE Land Information Services

General Presentation

*December 6 - 8, 2005,
Co-location, ESA,*

Steffen Kuntz
Infoterra GmbH



Achievements in Stage 1 - SAGE / GUS / CoastWatch-Land and IP geoland / Regional Observatories



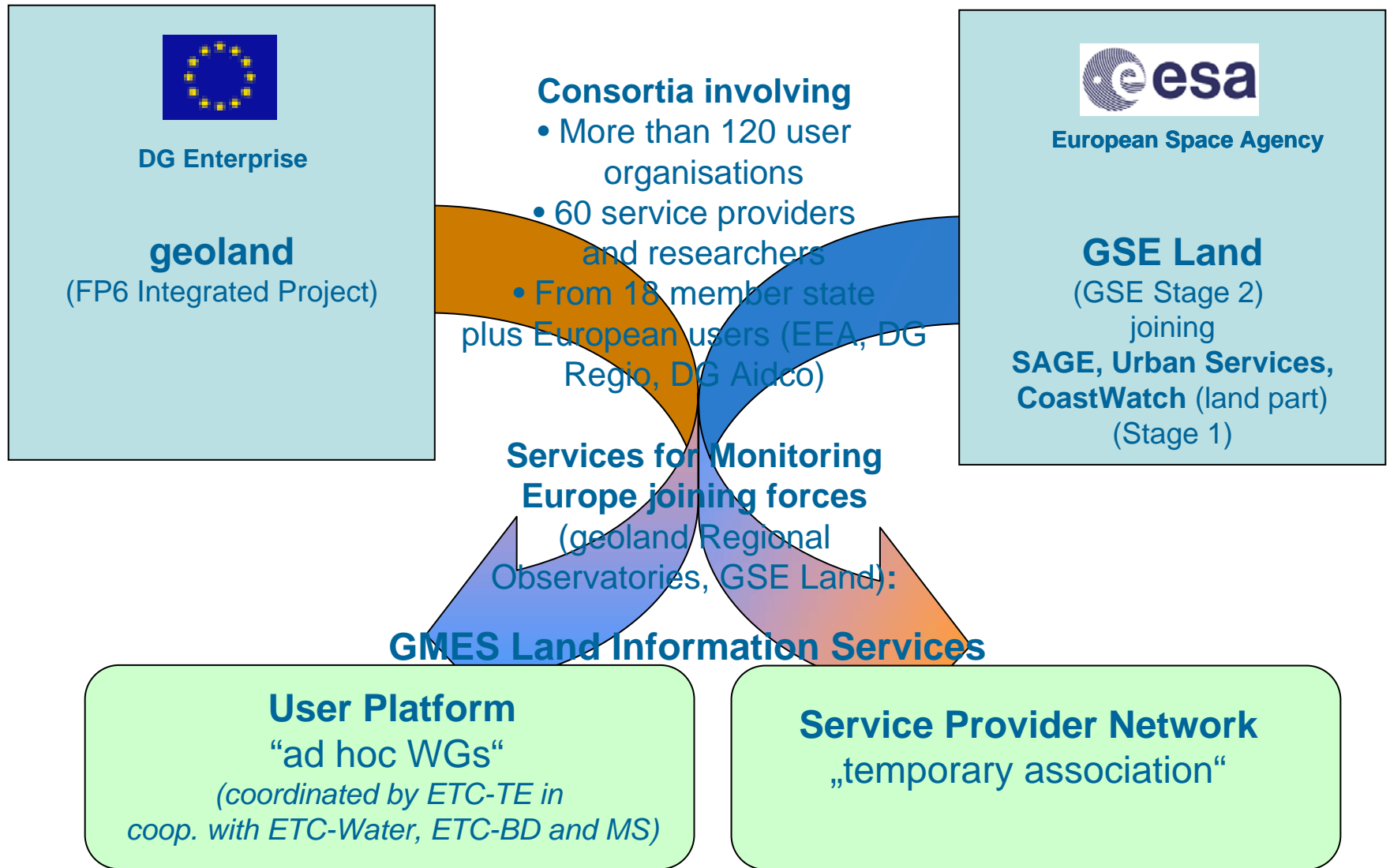
- **Consolidation of GMES Land teaming and offer**
- **Growing user base and service acceptance**
- **Consolidated service portfolio**
 - **Urban mapping and monitoring**
 - **Water Quality**
 - **Water Abstraction by irrigation**
 - **Impervious areas / spatial planning**
 - *Nature Protection*
 - *Soil Erosion / Degradation*
 - **Core Service Land Cover / Land Use**
- **Strong involvement in GMES process**
- **Common understanding on core service (reflecting on common needs) to create synergies and reduce overall service cost**
- **EC Core Service Land Monitoring as key implementation opportunity enabling and facilitating downstream services**

Challenges for Stage 2 - Technical Implementation



- Achieve common qualification and validation standards accepted across GSE teams and coordinated with IPs (geoland, PREVIEW, BOSS4GMES)
- Achieve interoperability of EO products (i.e. geometry) and mapping services (harmonisation of content)
- Practically solve exchange of EO and user owned ancillary data
 - If issues listed above are solved: exploit common contribution potential towards EC Fast Track Service (2006-2008)
- Coordinate inputs to INSPIRE and EO sensor definition process
- Establish user and SP interest groups to effectively contribute to GMES process in order to achieve funding from 2008 onwards and appropriate implementation tools
- Achieve MS adoption of qualification and service standards implemented

Establish Stakeholder Platforms



Planned Achievements (1)

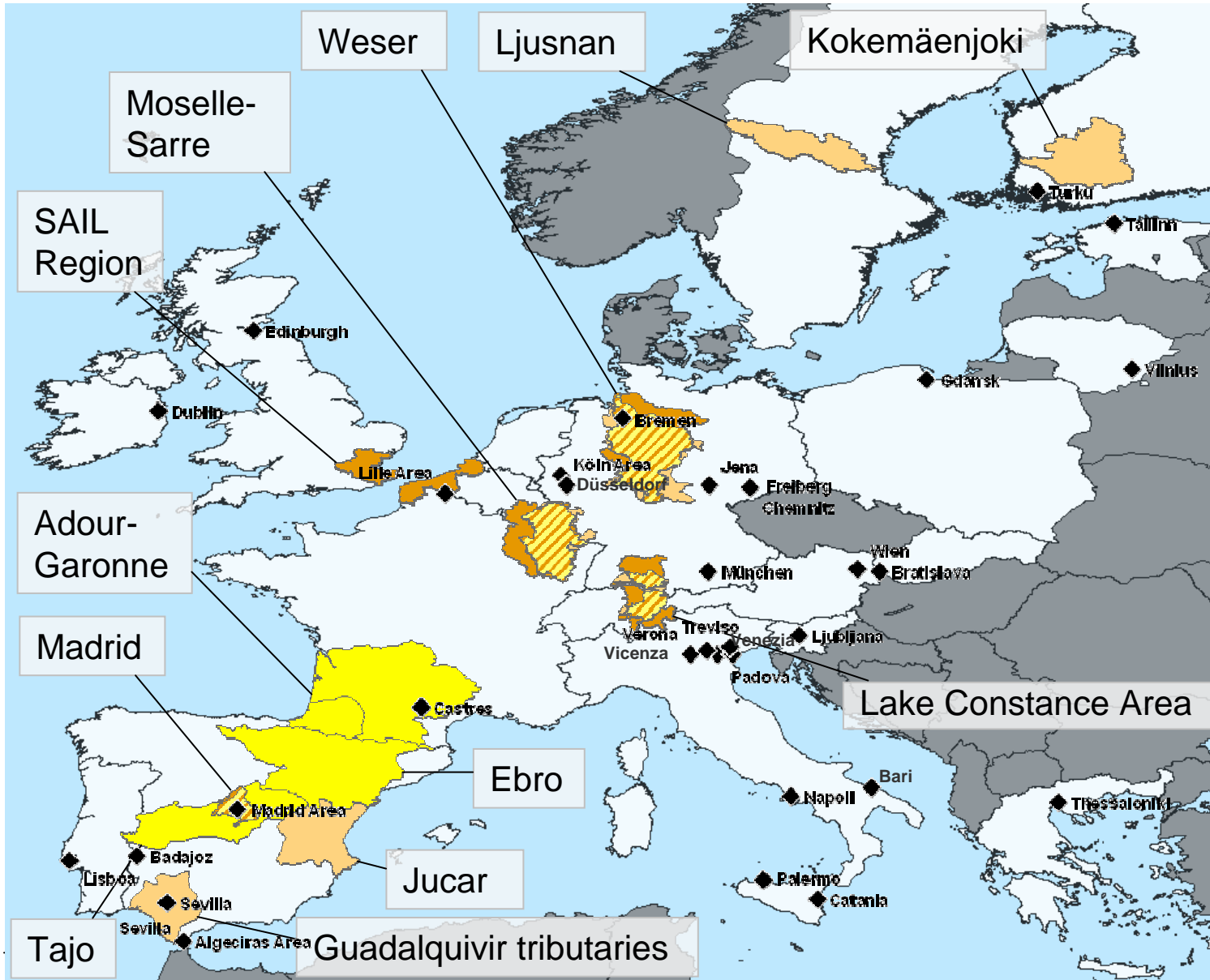







GSE Land (Baseline & Extensions)

- To serve 88 User Organisations
- With 5 service lines
- Covering approx. 3.9 Mio km² including multiple mapping
- In 17 European nations and beyond

- Build up acceptance among users by demonstrating good quality of products by trustmark services

GSE Land Portfolio - Overview



-  Impervious Areas
-  Water Quality
-  Irrigation
-  Urban Atlas Cities
-  Overlap Areas



- **Joint use of EO data**
- **Joint use of common mapping or downstream service results**
- **Exchange of user owned ancillary data**
- **Joint user and SP messages into the GMES process through self-governed independent platform, co-funded by GSEs**
- **Coordinated and consolidated contributions to sensor definition, service evolution, sustainability activities (randomly selected individual interviews will not lead to results!)**

Expectations to this Colocation



- **Achieve awareness for coordination needs as listed before**
- **Initiate concrete actions to be implemented through the on-going GSEs to solve the common issues to be coordinated**
- **Initiate ESA actions on**
 - **common EO data procurement for all GSEs / GMES projects to be able to exchange data (i.e. Licence agreement with Data Providers)**
 - **Coordinated inputs to Sentinel & service evolution studies,**
 - **accepting true land user service requirements by the majority of land application users and service providers → see obvious discrepancy between ESA analysis and ESA implementation proposal**