



BOSS4GMES

Work Package 4: Organisation and business models

Dimitrios Papadakis
University of the West of England, Bristol
United Kingdom



Project Overview

What is BOSS4GMES?



“Building Operational Sustainable Services for GMES”

- A “horizontal” GMES project
- 30 month FP6 Integrated Project from December 2006
- 37 Partners from 11 Member States representing industry, academia and the public sector
- Co-funded under FP6
- Collaboration with ongoing thematic and parallel projects

Objectives of B4G

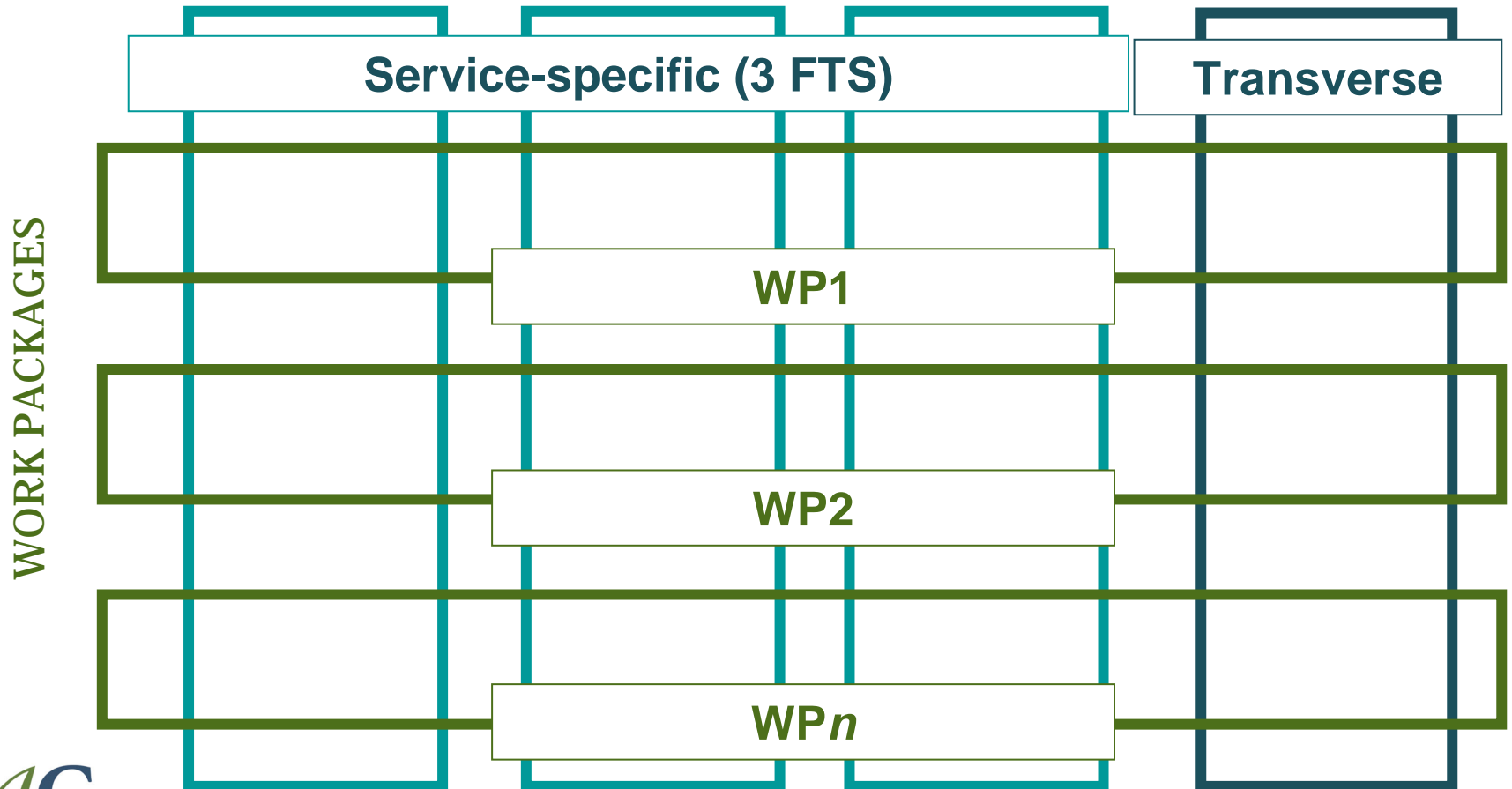
BOSS4GMES has three key strategic objectives (or pillars):

- 1. Technical:** Define and recommend the optimal operational processes, data and services access mechanisms (WPs 1-3).
- 2. Organisational:** Define the most appropriate funding mechanisms, business model and organization, firstly for the fast track services and, secondly, for GMES as a whole (WP4)
- 3. Communications:** Increasing awareness of GMES (WP5).

BOSS4GMES

Conceptual structure

THEMATIC AREAS



Contribution to geoland2

BOSS4GMES contributes technically to geoland2 in respect of Land FTS towards EUROLAND:

- European land cover / land use mapping and updates (continental component)
- Urban Atlas (local component)
- Sealing layer
- Forest layer

BOSS4GMES will provide:

- Engineering, harmonisation and standardisation (WP1)
 - Data access, service production and delivery studies
- Development and implementation activities (WP2)
 - Data access, service production and delivery, performance monitoring and validation
- End to end assessment and validation (WP3)
 - Demonstrators, impact analysis, data integration and service concept validation

Objectives of WP4

Work Package 4 has the overall objective of attempting to **establish the finance and organisational approach:**

- for each of the FTS, together with
- a lower level outlook to GMES as a whole.

The first part of the task is to provide a clear and consistent understanding of [...] GMES FTS **stakeholders**.

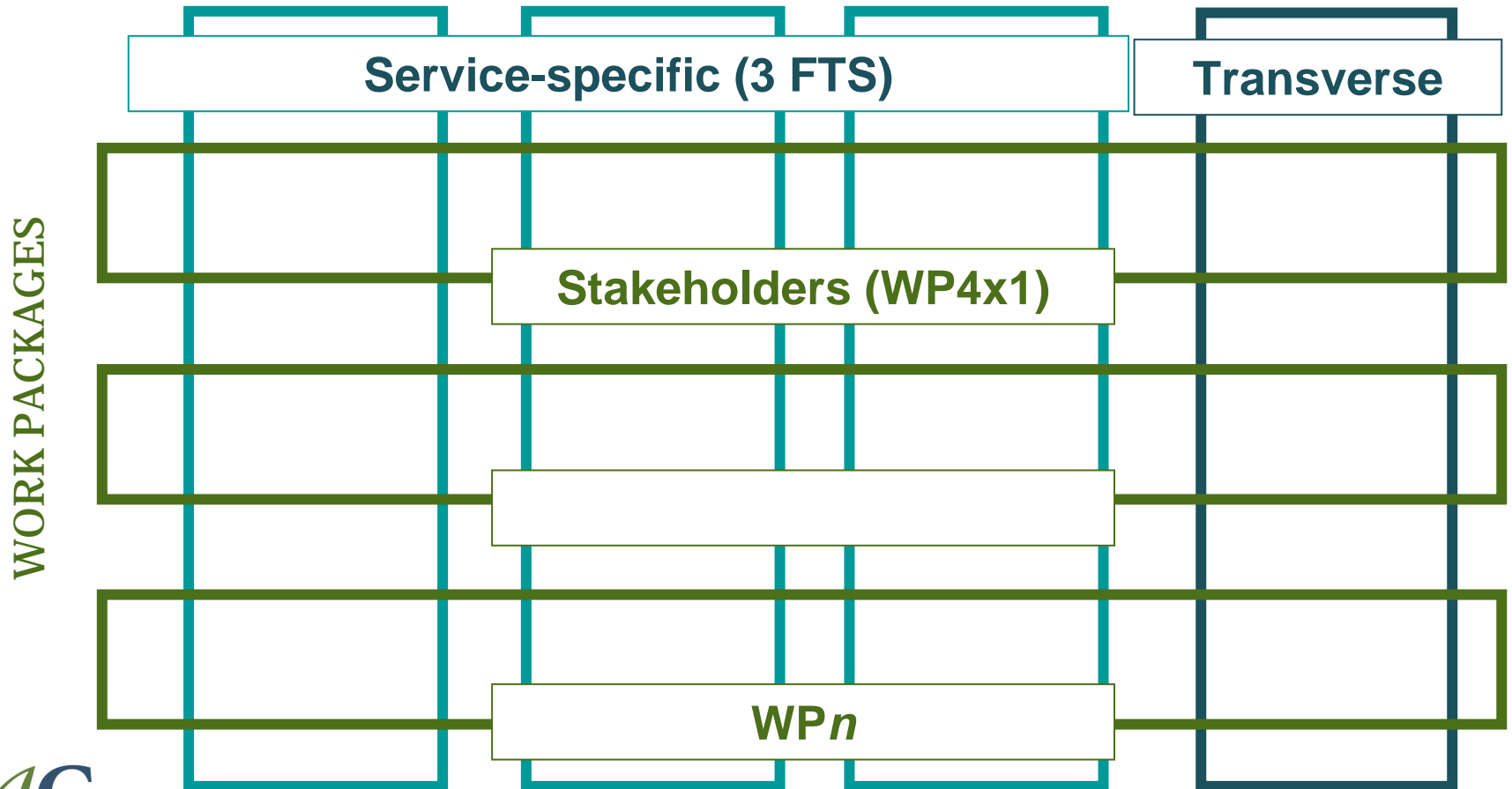
Financial forecasting, including [...] funding possibilities balanced against forecast infrastructure and operating **costs**, will be provided.

To ensure a practical approach for GMES, various potential business models will be analysed, before a recommended **organisational and business structure** is proposed.

BOSS4GMES WP4

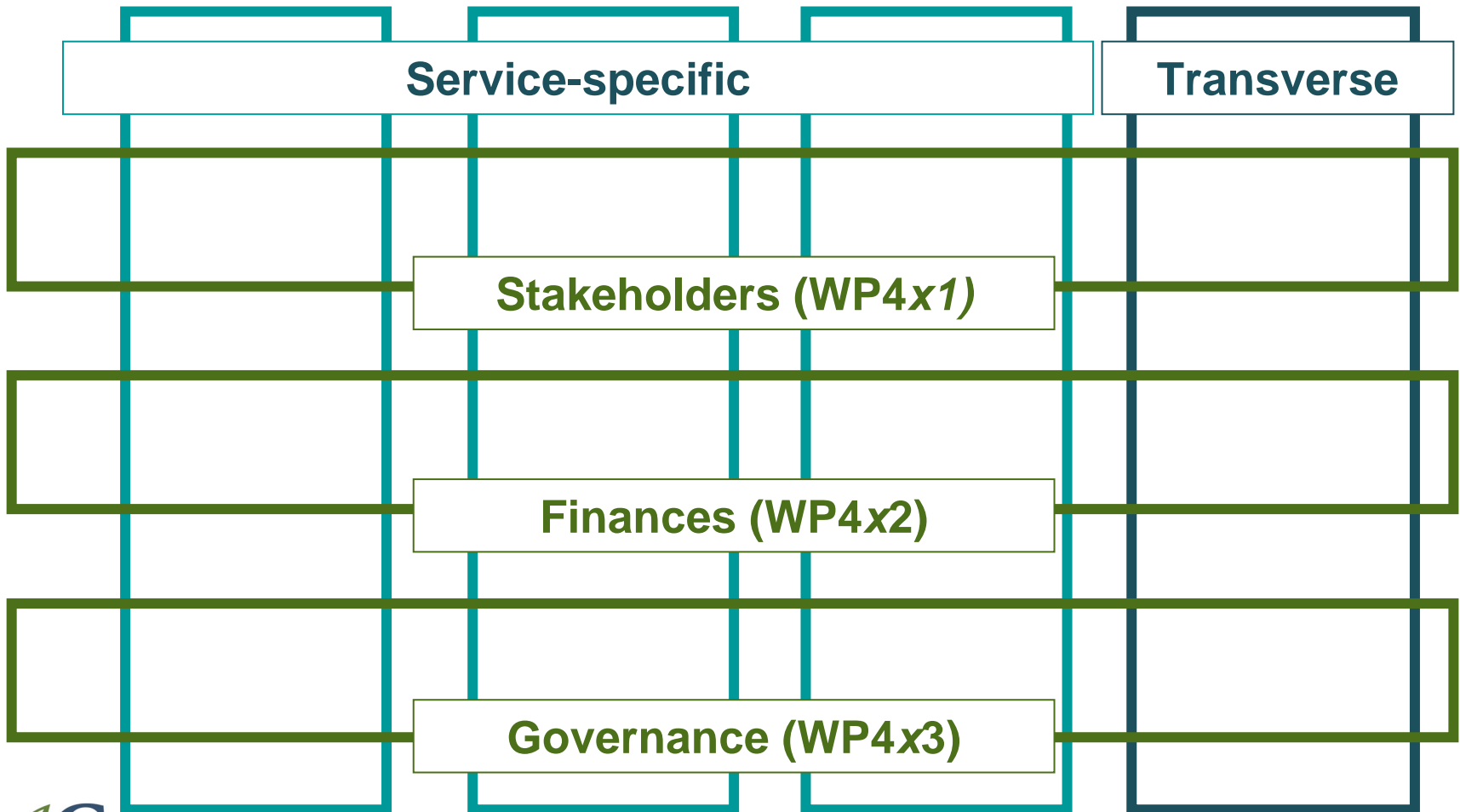
Work Package structure

THEMATIC AREAS



BOSS4GMES WP4

Work Package structure





WP4 Research Findings

Governance analysis

Aim: To propose appropriate organisational and governance structure

Method: Scenario analysis of three extreme cases; analysis of pros and cons and development of “hybrid scenario”.

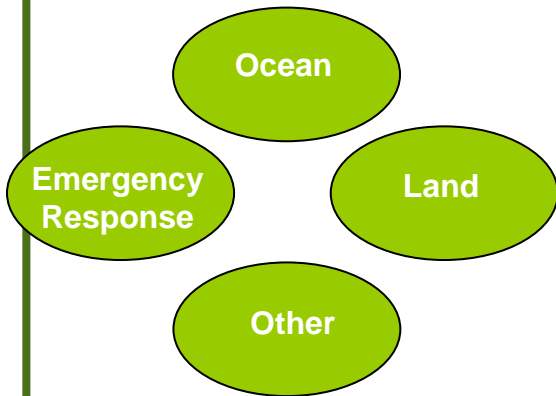
Findings

- The service network scenario will form the basis of an appropriate hybrid model
 - This will attempt to overcome the limitations of the two extreme scenarios
- Sub-groupings of services may be possible (e.g. Land-Emergency-Security, Marine-Atmosphere as per COM (2008) 748
- The challenge is to strike an appropriate trade-off between cost-saving through shared functions and legacy of service independence

Scenario description

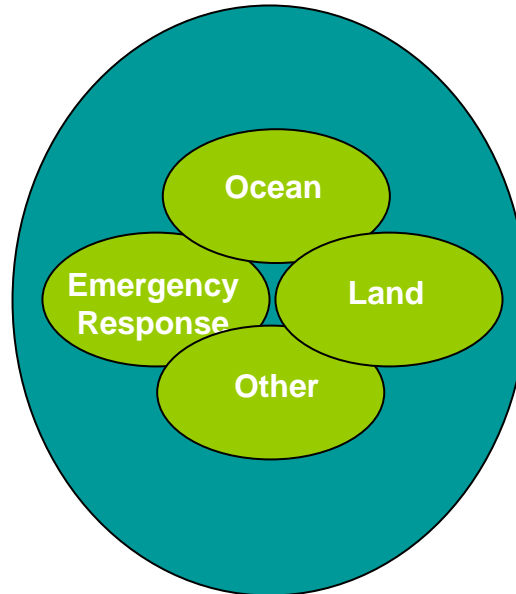
Diagrammatic

**GMES
Autonomous**



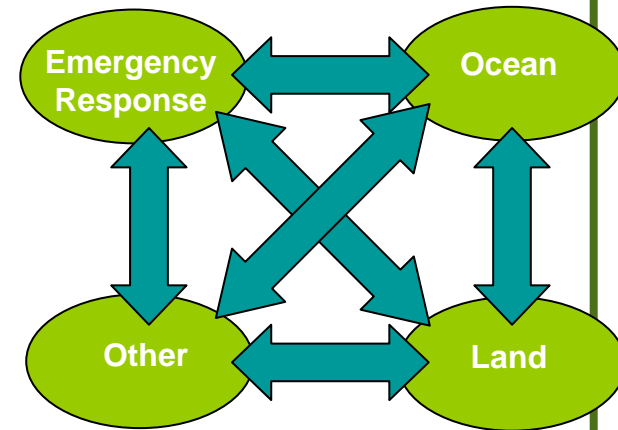
Services operate autonomously i.e. "no GMES"

**GMES
Monolithic**



A single centrally coordinated legal and organisational entity

**GMES Service
Network**



A network of stakeholders linked by formal relationships

Stakeholder analysis

Aim: To identify key stakeholder groups and their roles

Method: Identification of activities and stakeholders and ranking of roles conducted through collaborative workshops

Findings

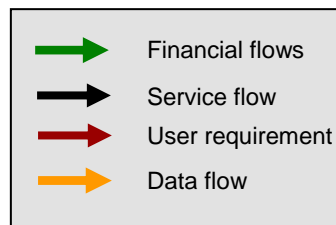
- Key role of European Union, Member States and Industry highlighted
- Multiple stakeholders in key activities suggests the development of a well-coordinated network of partners
- Heterogeneity and diversity of user population suggests the need for a clearly defined mechanism for user engagement at different levels

Value network analysis

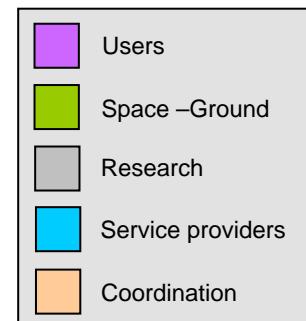
Aim: To identify flows of funds, services, data and user requirements between stakeholder groups and entities. Defines potential structure of the service network, highlights options for governance-subscenarios.

Method: Groups are based on outputs of stakeholder analysis, flows identified in focus group sessions. Multiple iterations of validation by relevant stakeholders have been undertaken.

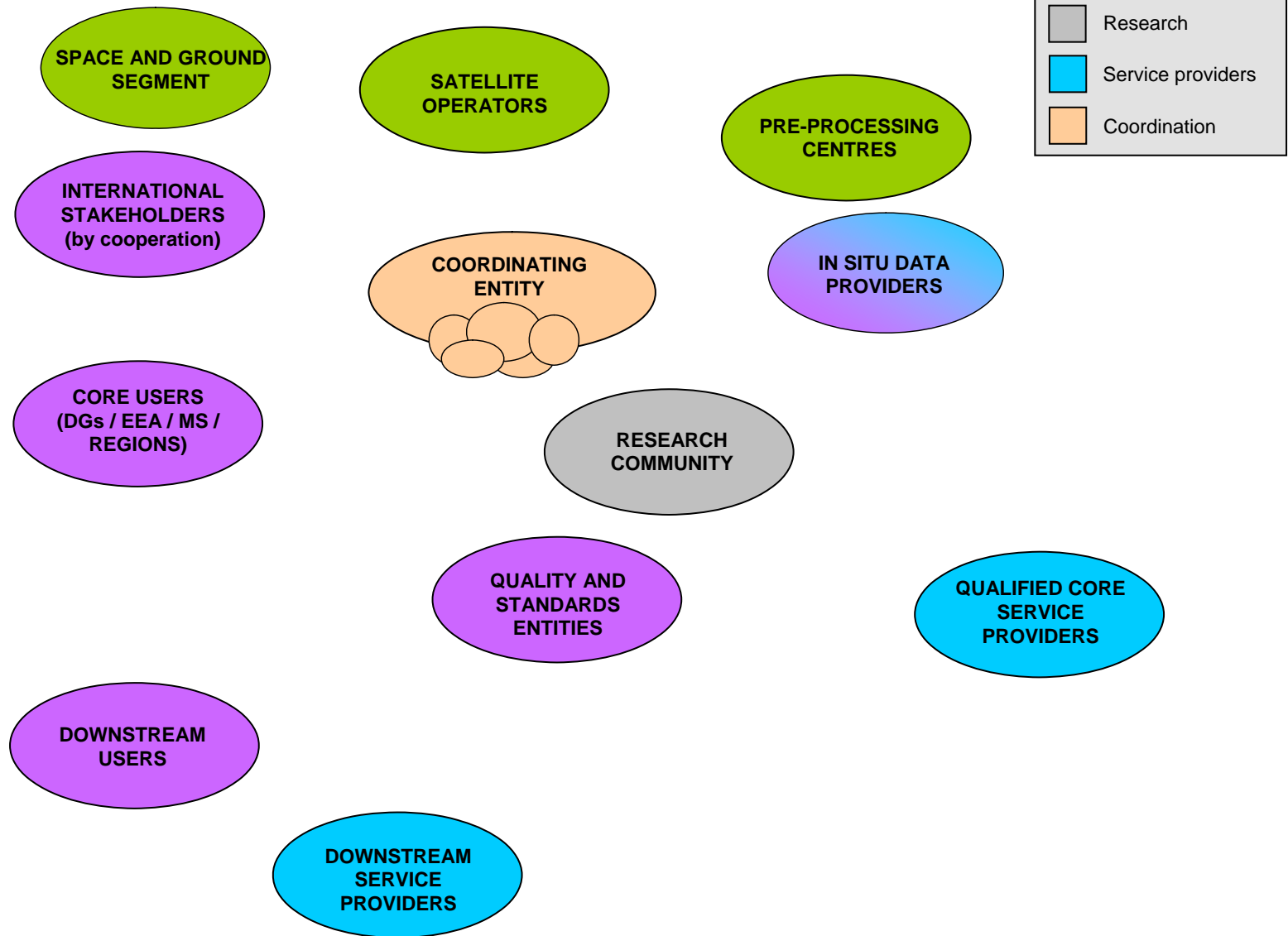
Flow types



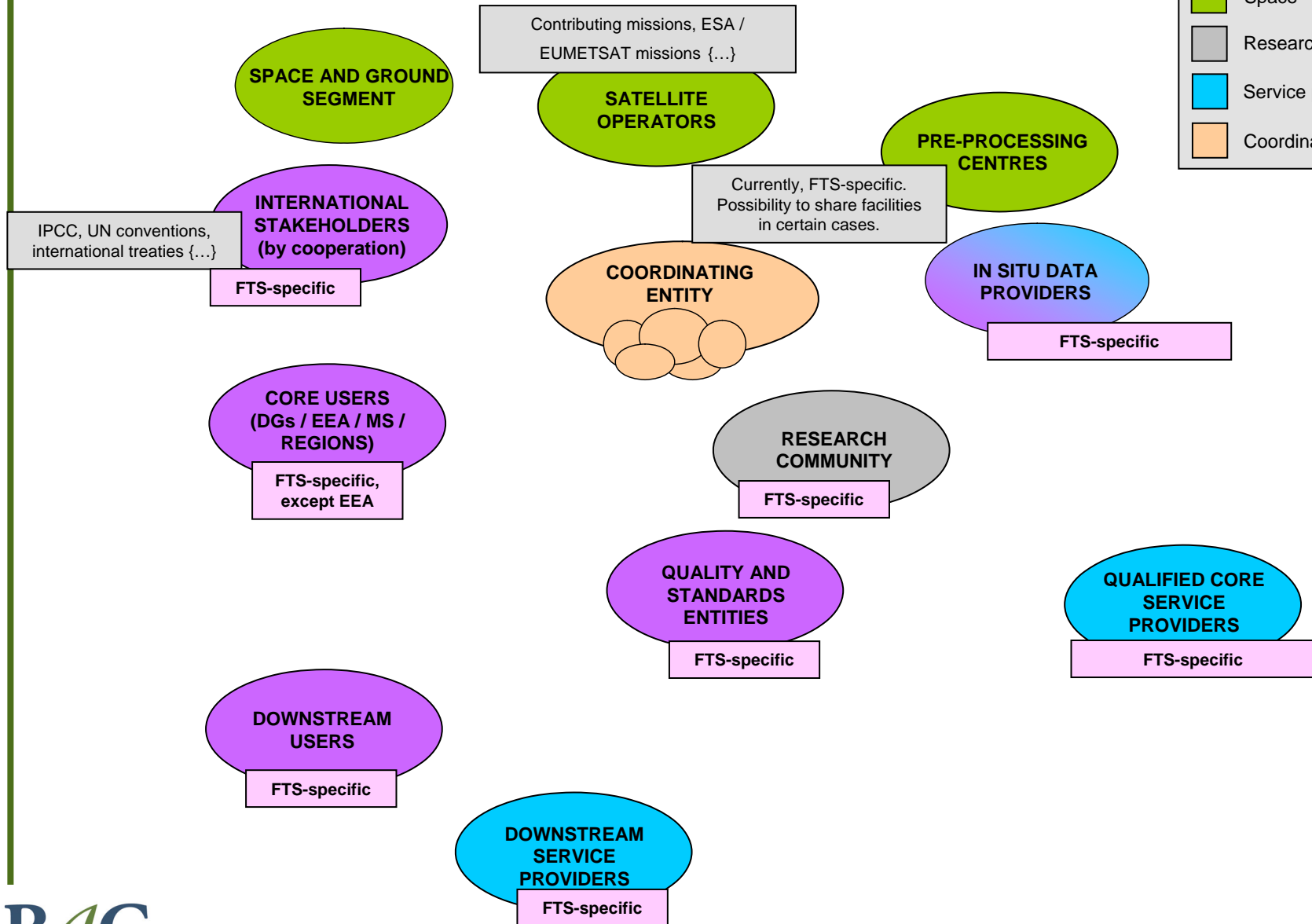
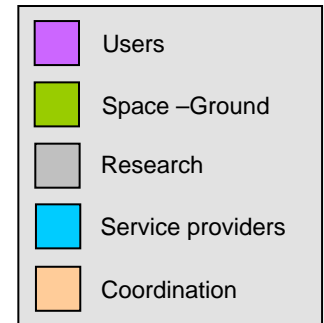
Stakeholder groups



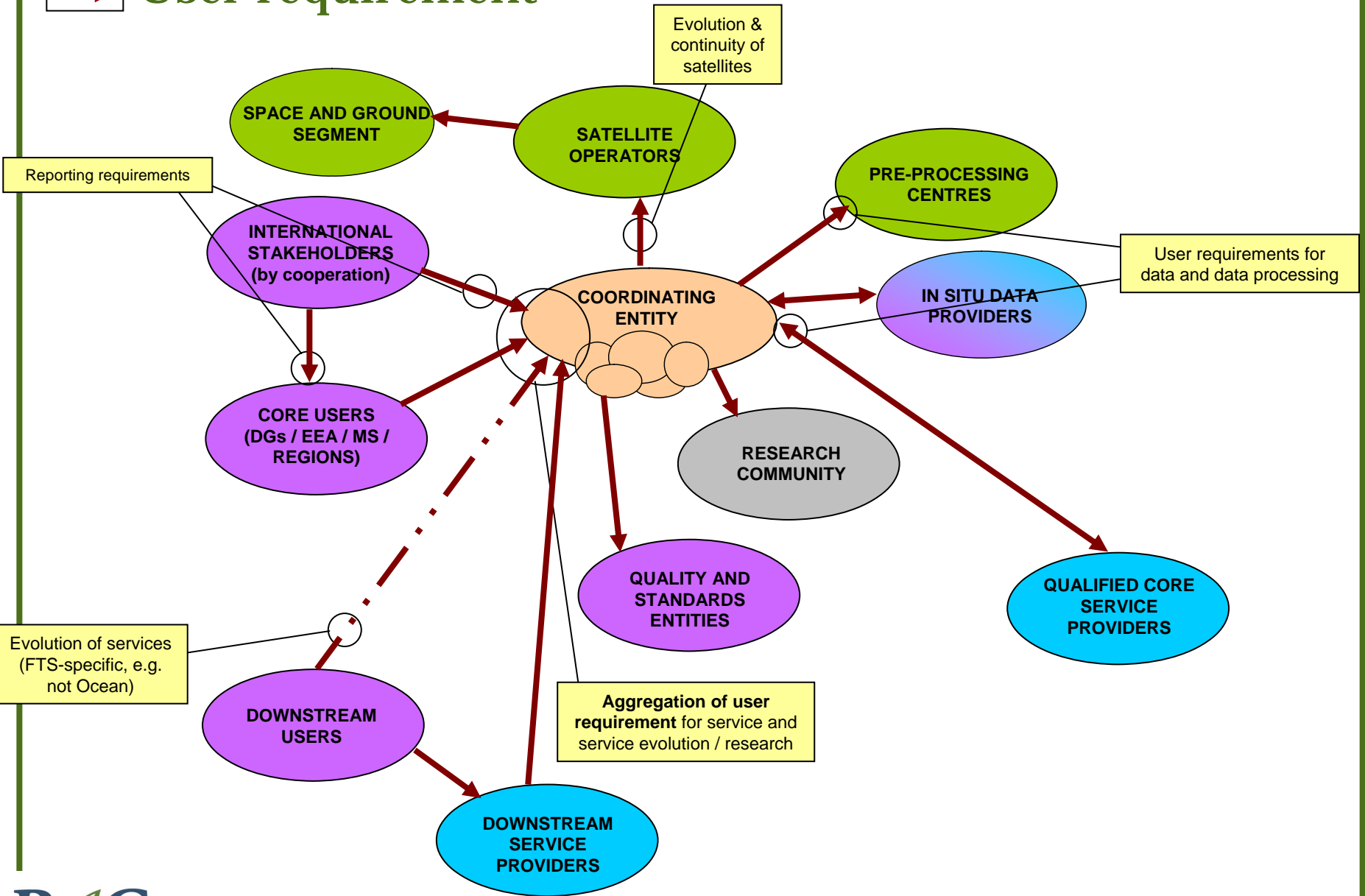
Stakeholder groups



Stakeholder groups (detail)

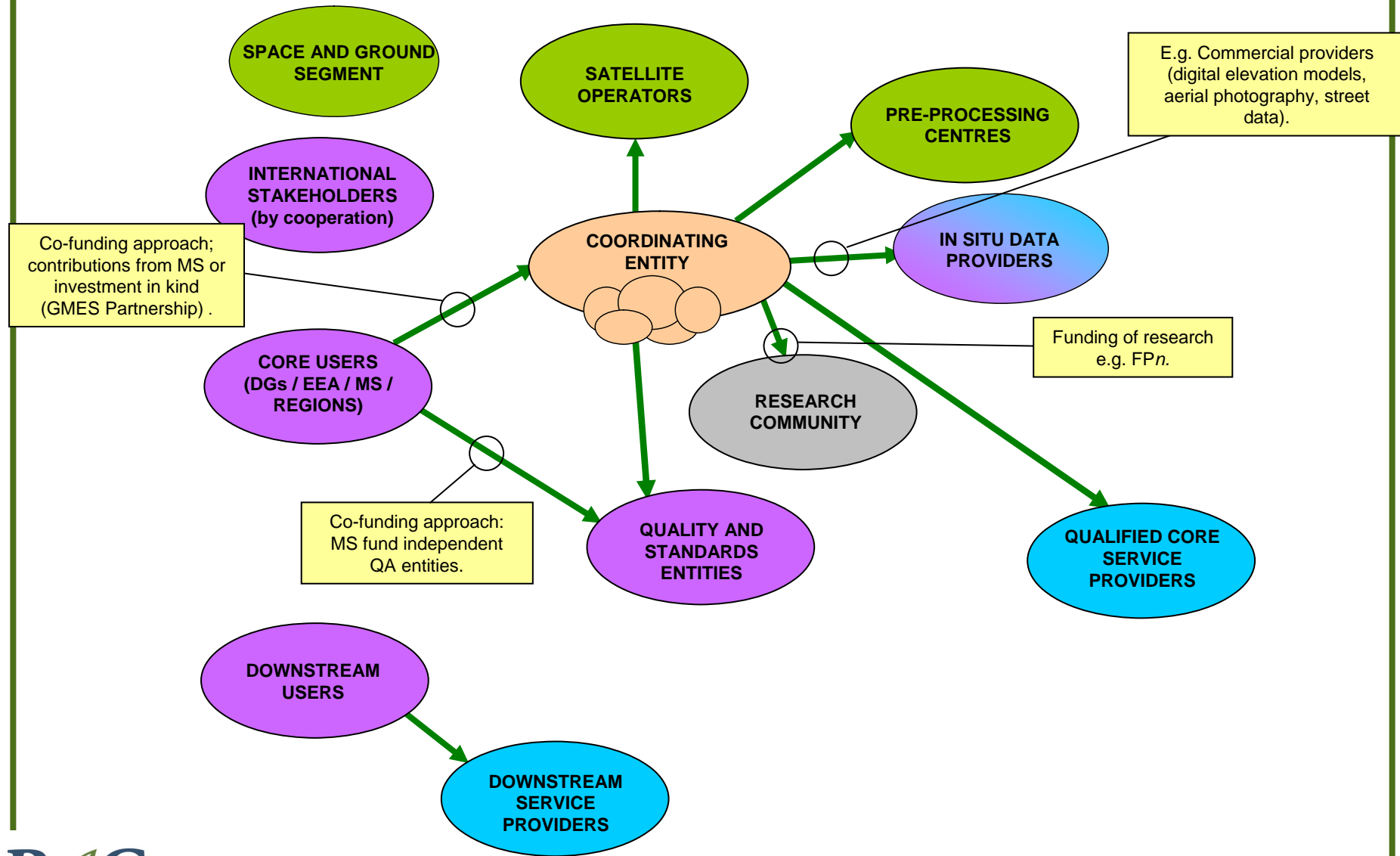


→ User requirement

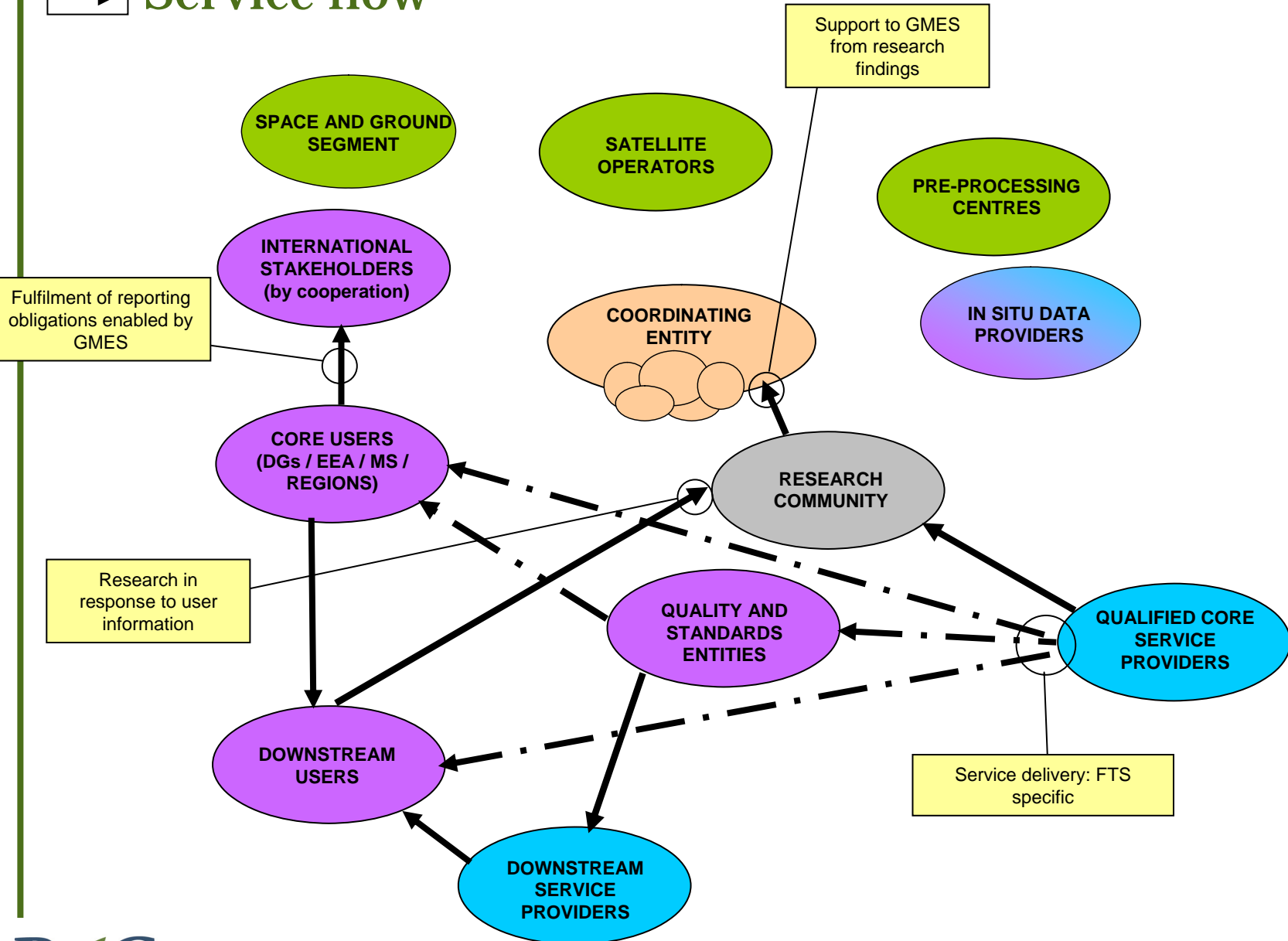




Financial flow



→ **Service flow**



Conclusions

- GMES is a unique case of public and commercial collaboration
- WP4 analysis suggests governance via a coordinated service network.
- A set of potential governance sub-scenarios has been developed based on analysis of transverse activities
- Identification of key roles and stakeholders highlights the complexity and challenges for governance structure
- The value network provides a vision for potential service, finance and user requirement flow across the network.
- Final recommendations will propose options for governance of transverse activities



Vielen Dank!

Dimitrios Papadakis
dimitrios.papadakis@uwe.ac.uk
<http://www.boss4gmes.eu/>



Additional Information

WP4 Work Breakdown

