Aspects of an overall European Space Policy

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The Institutional system of the European Uni

A unique institutional system

The Member States delegate sovereignty for certain matters to independent institutions.

The **Commission** traditionally upholds the interests of the Union as a whole.

Each **national government** is represented within the Council.

The **European Parliament** is directly elected by citizens.

The European Union and the Treaties

The European Union (EU Treaty) is constructed on three pillars

- European Communities (sectoral economic and socia policies including space activities – first pillar)
- . Common Foreign and Security Policy (second pillar)
- Justice and Home Affairs (third pillar)

Community Policies with Space aspects are:

For Example: Transport, Agriculture and Fishery, Common Foreign Policy, Industry, Research, Environment, social policies and others.



The EU and space

- Enlarged European Union represents the framework for a integrated Europe with over 400 million citizens and a land area > 4 million km^{2;}
- Union policies/initiatives increasingly require space as an implementing tool; EU research concentrates on these applications;
- Space-related technology development: mainly with ESA and national space agencies
- => Need for a coherent European approach

Space activities support Union policies

- Economic growth and social development;
- industrial and technological competitiveness
- Social and economic development in European neighbourhood countries (European Neighbourhood Policy)
- Universal access to information
- Sustainable development of Earth
- Developing countries (digital divide, environment, security and management of natural resources)
- Enhance security of citizens in and outside of Europe



Space as a shared competence in the new EU Constitution

In June 2004 Heads of EU Member States signed the Constitutional Treaty (ratification by the Member States is on hold) (Article 254 "Space")

- To draw up a European Space Policy
- Implementation through a European Space
 Programme
- Set clear responsibilities for EU and ESA

WHITE PAPER on European Space Policy

- European Parliament in 2002 requested a White Paper on Space after endorsement of first joint EU-ESA European Space Strategy (2001);
- Commission, together with ESA, started in 2003 a broad consultation process initiated by a Green Paper on Space (discussion paper);
- As result of the consultation, the Commission adopted a White Paper on Space including an Action Plan in November 2003;



Main messages of the White Paper

- Europe needs a space policy driven by demand in support of the Union's policies and objectives
- Space should be established as a shared competence in the Constitutional Treaty
- A European space policy requires a new governance of space activities in Europe
 - EC shall define political priorities (federating institutional demand)
 - ESA concentrates on the implementation

Roles of ESA and EC in a European Space Policy

The **cooperation between EC and ESA** is based on two complementary institutional roles:

- EC responsible to federate the European demand (in particular on space applications)
- ESA responsible to federate the European Space offer

A Framework Agreement between EC and ESA was concluded in March 2004



Governance in European Space Policy Implementation of the EU-ESA Framework Agreement

- management by the ESA of European Community space-related activities in accordance with the rules of the European Community;
- participation by the European Community in optional programmes of ESA;
- joint activities coordinated, implemented and funded by both Parties;
- Complementary initiatives to research and development activities, i.e. the management of infrastructures;

Instruments

1. Joint EC- ESA Secretariat (JS) coordinates the implementation of the Agreement

2. High Level Space Policy Group (HSPG)

- Representatives of 27 EU and ESA Member States co-chaired by DG from EC and ESA
- Gives advice to the JS and monitors implementation of joint actions
- Discusses a coherent approach with Member States space activities
- Contributes to the elaboration of a European Space Programme
- 3. Space Council (meets twice a year)
 - Relevant Ministers of EU Competitive Council and ESA Council Adopts main policy orientations
 - Monitors the implementation of the Framework Agreement and joint initiatives

Elements of an overall European Space Policy

Three traditional space sectors:

Science: space science, micro-gravity, space station, earth observation science (science and technology-driven, ESA)

Launchers, driven by independence and market

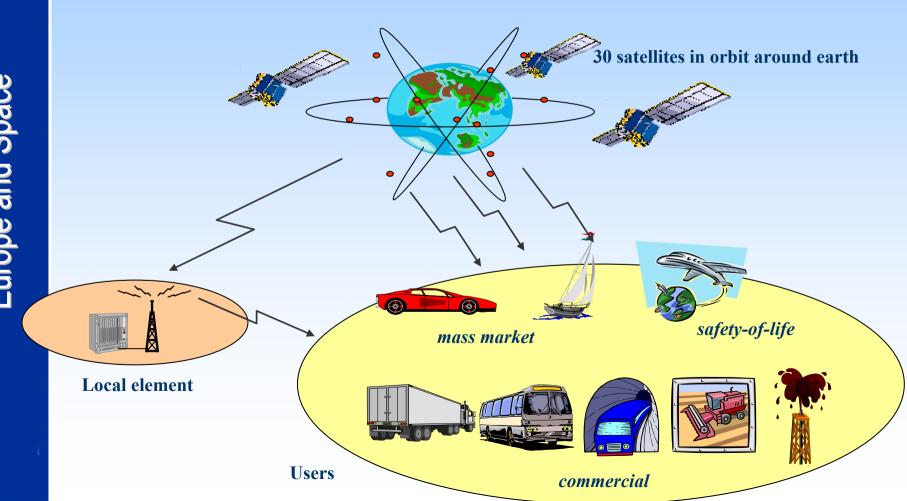
Applications:

Earth observation (GMES) Satellite Navigation (Galileo) Meteorology (EUMETSAT)

Telecom (largely commercial)

=> EU-ESA space policy emphasises user-driven space activities/ applications

GALILEO - Satellite radio navigation system (joint ESA – EU project)





Space-based applications within the next EU Research Programme (FP-7)

GMES (*Global Monitoring for Environment and Security*): user driven approach to:

- satellite-based monitoring and early warning system
- Management of environment and security;

Integration with satellite communication and navigation
 Innovative satellite communication services in public application sectors (e.g. civil protection, tele-medicine)
 Technologies for reducing the vulnerability of space-infrastructure and for the surveillance of space

RTD for strengthening space foundations

- Contribution to international space exploration initiative (i.e. Mars Express or the European space exploration programme Aurora, ExoMars robotic mission - 2011)
 - Contribution to:
 - Space transportation technology (Ariane, Vega, AT Soyuz).
 - Space sciences including life in space (ISS).

Roadmap for developing a European Space Programme

- Three Space Councils took place in 2004 and 2005 (ESA Council + Competitiveness Council)
- Preliminary Elements set out in the Communication from the Commission in May 2005 (COM(2005) 208 final)
- Draft proposal for a European Space Programme from Commission by end of 2006
- Adoption EU Space Programme by mid 2007

http://europa.eu.int/comm/space/index_en.h tml