

Space: a new European frontier for an expanding Union

European Space policy A new shared competence with Member States

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The White Paper process (Policy framework)

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WHITE PAPER on European Space Policy

Background

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    graph LR
      GP[Green Paper  
21 Jan 2003] --> CC[Consultation Conference in Paris  
23/24 June]
      CC --> WP[White Paper  
11 Nov 2003]
  
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- European Parliament in 2002 requests a White Paper on Space after endorsement of first joint EU-ESA European Space Strategy (2001)
- In response, Commission, together with ESA, starts in 2003 broad consultation process initiated by a Green Paper on Space
- As result of consultation, Commission adopts White Paper on Space including an Action Plan in November 2003

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Main messages of White Paper

- Europe needs a space policy **driven by demand in support of the Union's policies and objectives**
- This should require an **increase in overall space expenditure** otherwise Europe will face decline as a space power
- Europe has partly already developed capabilities needed to support EU policies, including Security and Defense Policy
- Space shall be established as a shared competence in the Constitutional Treaty

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EU Policies that could be supported by use of space assets

- Development of **Knowledge Society**
- **Economic growth and social development** of the EU; ensure the competitiveness of European industry (**Lisbon strategy**)
- **Wider Europe Policy** of the EU (Eastern and Southern Neighbourhood)
- **Sustainable Development** of the Earth
- Support for **developing countries** (digital divide, environment, security and management of natural resources)
- **Common Foreign and Security Policy**

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Conclusion of the White Paper process

1. The European Commission received the mandate to develop a tool for implementing the policy proposed in the White Paper: the "European Space Programme"
2. The framework for reviewing the European Space Programme at the highest level was suggested through the joint EU / ESA "Space Council"

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The new Constitutional Treaty

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Constitutional Treaty

Art. III - 254

1. To promote scientific and technical progress, industrial competitiveness and the implementation of its policies, **the Union shall draw up a European space policy**. To this end, it may promote joint initiatives, support research and technological development and coordinate the efforts needed for the exploration and exploitation of space
2. To contribute to attaining the objectives referred to in paragraph 1, European laws or framework laws shall establish the necessary measures, which may take the form of a **European space programme**.
3. The Union shall establish any **appropriate relations with the European Space Agency**.

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The European Space Programme

(The tool for implementing the European Space Policy)

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Develop a European Space Programme as the tool

- To implement the European Space Policy
- To enhance programmatic coherence of space efforts (including national ones) – ESP is covering all space activities in Europe → **Internal EU coherence**
- To strengthen European approach versus international partners → **External EU coherence**
- To determine programmatic priorities, setting objectives, allocating roles and framing budgets

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European Space Programme – Issues to be addressed

- Content
- Funding
- Role and responsibilities of each actors (EC, ESA, Member States, others,...)
- Industrial policy
- Horizontal issues: legal framework, standardisation,...
- ...

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European Space Programme – An EC / ESA coordination

Under the EC / ESA Framework Agreement:

The EC/ESA joint secretariat will work on the definition of the structure and on the preparation of the European Space Programme;

The Member States will be consulted and invited to contribute during the preparation of the document, especially through the High level Space Policy Group;

The European Space Programme will be submitted 'for endorsement' to the 'Space Council', and subsequently presented by the Commission to the EU Council and Parliament for approval.

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European Space Programme – Possible content

A. Space-based applications at the service of the European Society

- A.1. Communications
- A.2. Global Monitoring for Environment and Security (GMES)
Infrastructure
Data management
- A.3. Positioning Navigation and timing (Galileo)
- A.4. Security

B. Strengthening Space foundations

- B.1. Technology
In support of pre-defined applications (GMES, GALILEO, SATCOM, Security)
Technology transfer
- B.2. Guaranteed and independent access to space
Infrastructure support and specific R&D for future launchers

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European Space Programme – Possible content

C. Enhancing scientific knowledge

- C.1. Space exploration
Microgravity (ISS, ...)
Future missions
- C.2. Space science
Basic research and access to research infrastructures
Archiving and distribution of data

D. Strengthening the implementation of the European Space Policy

- D.1. International co-operation
- D.2. Vocations and outreach
- D.3. Legal environment

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R&D activities in the ESP

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European Space Programme – R&D activities

- EC part will be funded under the 7th Framework Programme
- Content of the 7th FP currently under definition – COMM expected early 2005 (Q1)
- 7th FP will probably cover 2007 – 2013
- Space might be a specific programme with 7th FP
- EC role might be concentrated on upstream research, while ESA will continue to cover more applied research – to be confirmed as part of the discussion on the role and responsibilities of ESP stakeholders.

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Space Council

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1st Space Council Brussels 25 November 2004

Joint and concomitant meeting of the EC Competitiveness Council and the ESA Council at Ministerial level

Tasks EC – ESA JS:

- To identify priorities for the ESP, including costs estimates
- To identify roles and responsibilities of EU, ESA and other stakeholders as well as relevant funding sources
- To identify industrial policy principles for the implementation of the ESP

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European Space Programme – Possible schedule

Preliminary version including roles and responsibilities, prioritisation and industrial policy principles by 2nd Space Council in March 2005

Public hearings on preliminary version – Spring 2005

Final version presented to 3rd Space Council at the end of 2005

ESP adopted after the finalisation of the discussion on the future EU Financial Perspectives 2007 – 2013

Entry into force of ESP – 1 January 2007

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Conclusions

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Conclusions

- Substantial political momentum for "Space" could be gathered in the European Union
- Important decisions on Financial Perspectives to be taken in the course of 2005
- Possible Timeline:
 - "Informal Space Council" in November 2004
 - First proposal for a European Space Programme in 2005
 - 2 further Space Councils in 2005 (Spring and Autumn)
 - ESA Ministerial Council in December 2005
 - New Financial Perspectives of Union at the end of 2005

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Keep being informed

<http://www.europa.eu.int/comm/space>



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Backup slides

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Constitutional Treaty

Approved Constitutional Treaty will contain "space"

Article III - 254 "Space"

European Space Policy
 European Space Programme
 Relationship with ESA

Impact: Space ("space efforts") would become an objective in itself for the European Union

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Legal basis

"The European Space Policy will be implemented within a multi-annual European Space Programme. The Programme, acting like a strategic agenda for Europe, will be the platform for determining priorities, setting objectives, allocating roles and responsibilities and framing annual budgets".

White Paper on Space COM(2003)673

"To contribute to attaining the objectives referred to in paragraph 1, European laws or framework laws shall establish the necessary measures, which may take the form of a European space programme".

**Treaty establishing a Constitution for Europe
Article III-254 Par.2**

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Actions/reactions following the White Paper I

European Parliament, on January 29, 2004, in its response to the White Paper

- Stresses the importance of international cooperation in the European Space Policy (cooperation with US and with other space powers, particularly Russia and China)
- Urges the Commission to support on going projects (i.e. to assign a role to the International Space Station (ISS), taking into account the new space strategy that the US is developing, to become involved in the Soyuz at Kourou project, with a view to ensuring the availability of a manned capsule)
- Supports fuller assumption of responsibility by European Union, also in view of the drawing up of a European Space Programme

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Actions/reactions following the White Paper II

EU Council discussed White Paper on March 11, 2004

Agreed to continue debate with a view to hold an informal joint meeting of the EU and ESA Council before the end of 2004 ("Space Council"), in order to discuss most important issues

First Space Council meeting is now planned on 25 November 2004 in Brussels

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EC Financial Perspectives

(The EC financial contribution to the ESP)

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Financial Perspectives

- New **Financial Perspectives** embrace timeframe 2007-2013
- FP set strategic ceilings for overall Union budget and its budget lines
- FP represent inter-institutional agreement between European Parliament, EU Council and European Commission
- EU yearly budget roughly 1% of GDP of Union (~ 100 bn €)
- FP to be agreed on internally by middle of 2005
- Objective: "Space" to receive its own budgetary line

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"Space" in Financial Perspectives

- Possible funding sources for a "Space" budget in the Union
 - Policies supported by space applications (transport ⇔ TEN, see GALILEO)
 - Next Research Framework Programme FP7
 - New budget line for space infrastructures and their operations, develop together with relevant financial instruments
- Commission position and proposal on "Space" to evolve by the end of first **quarter 2005**

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Space Policy and ERA Star

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Space Policy and ERA Star

- Welcome the initiative
- Welcome the inclusion of EU-10 regions in the projects and would recommend to include further in the future
- Would recommend to use existing knowhow in the different regions to specialise them → networking rather than duplication
- Would encourage technology transfer among the regions
- Would welcome interaction with the regions during the consultation process on the European Space Programme
- Would welcome ERA Star as a stakeholder of the ESP

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