Space: a new European frontier for an expanding Union

An action plan for implementing the European Space policy
WHITE PAPER on European Space Policy

- Why does Europe need Space?
- Why do we need a EU Space Policy?
- What does the White Paper propose?
- How will actions be implemented?
- How much will this cost?
Why does Europe need Space? Space offers solutions.

Challenge: *Invest in the knowledge economy*

Space solution: Satellite telecommunication

• Deliver broadband technology to areas where "conventional" solutions not possible.
• Contribute to closing the "digital divide"
• Development of applications in key areas (transport, agriculture) will boost competitiveness, growth and employment
Why does Europe need Space?
Space offers solutions.

Challenge: *Sustainable development*

Space solution: *Earth observation*

- Supports sound environmental management and protection.
- Provides observations with unsurpassed coverage on climate and weather, oceans, fisheries, land and vegetation.
- Could support sustainable agricultural model
Why does Europe need Space? Space offers solutions.

Challenge: *Take a larger role in the world*

Space solution: Independent space-based systems

- Provides reliable, autonomous global information
- Allows for informed decision-making
- Ensures access to knowledge & information
- Offers higher level of security for citizens
  (ex. border control, crisis detection & management)
Why does Europe need Space? Space offers solutions.

**Challenge:** *Fight poverty & aid development*

**Space solution:** broadband, earth observation & global positioning systems

- Strengthens development efforts
- Helps other countries to access information
- Raises skill levels & better manage resources
- Supports a variety of key tasks
  (ex. protect soils, forecast food production; manage disasters, monitor tropical forests, etc.)
Why do we need a EU Space Policy?

- Common objectives with a common plan to achieve them
- Co-ordination & cooperation at all levels
- Coherence, elimination of duplication
- Bring together strength of all stakeholders: public & private
Why now?

• A changing Europe
  (*Enlargement, new Constitution, etc.*)
• Emergence of new competitors in the Space field
• Crisis of the Space industry
Why now?
Standing still is not an option.

Lack of action could leave Europe vulnerable to two dangers:

• Decline of Space Power capabilities.
• Decline of leading Space companies.
What does the White Paper propose?

- Putting additional efforts into Space infrastructures and applications.
- Consolidating existing scientific and technical basis of Space activities.
- Updating institutional structure to give EU new responsibilities for driving, funding and coordinating activities.
What does the White Paper propose?

Concrete recommendations to ensure:

• Independent access to space
• Enhancing space technology
• Promoting space exploration
• Attracting young people into science careers
• Strengthening excellence in space science
• Fostering competitive, entrepreneurial companies
How will actions be implemented? A European Space Programme

- Identify priorities, set objectives, allocate roles/responsibilities, allocate budgets
- Incorporate R&D, infrastructure development, services and technology
- Multi-annual – updated every 5 years
How much will this cost?

Proposed Budget

Three possible investment options:

1. Annual expenditure growth rate of 4.6%

2. Annual growth rate of 3.4% - a higher rate than growth rate of the EU economy

3. Annual growth rate of 2.3 % - based on current level of EC expenditures
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