



European Commission

□ WHITE PAPER

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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