

COMPLEMENTARITY BETWEEN EUROPEAN AND NATIONAL SPACE PROGRAMMES

FRANCISCO MARÍN
DIRECTOR GENERAL
CDTI

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Agenda

- 1. Why space is so important for Europe**
- 2. The Spanish perspective**
- 3. Main elements for a coherent European Space Framework**

Why Space is so important for Europe

Space is an essential element for economic growth and competitiveness

- Overall increasing turn-over
- High added value activities: high salaries, better impact on economy
- Cross-fertilization: Space Technology ensures high potential for spin-offs / spin-ins
- Essential for the growing sector of TICs: mobile applications and services
- Increasing competence : more countries with space capabilities



- Risks associated to dependency on key technologies
- Only by pulling resources together in a coordinated manner Europe can keep pace with its competitors

Why Space is so important for Europe

Space is changing. New on-going initiatives worldwide aim at the commercial use of space in many fields with a “low cost/fast “ approach

- Europe has a great potential in space to be exploited
- Investment in Space pays off: Public investment is a key element to prepare industry for innovative commercial applications
- Industrial and procurement policy must promote competitiveness and stimulate private investment in space
- Main European institutional actors (EU,ESA and Member States) must share objectives and coordinate actions

Spain has consistently increased its public investment and technological/industrial capabilities

GOALS

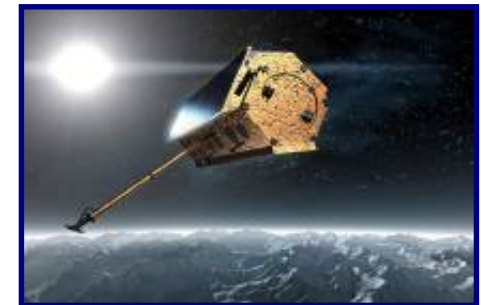
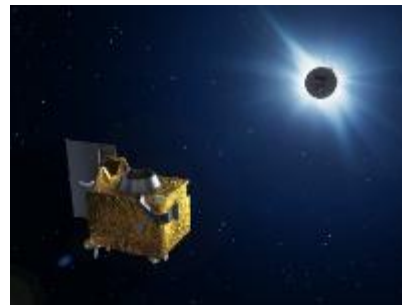
- Increase technological capabilities, move higher in the value chain
- Development of Space infrastructures in Spain
- Increase industry turnover and size: commercial and institutional market (in particular EU)
- Use of Space systems to improve competitiveness
- Integration of Spain's efforts with Europe (ESA and EU)

ACTIONS

- Significant public investment mainly through ESA
- Focus on key programmes with clear industrial leadership on systems or subsystems
- Launch of flagship programmes: SMOS, Ingenio/PAZ satellites, PROBA-3.

Spain's growth in Space has been mainly achieved through ESA.

- Integration of full satellites , payloads and ground segments
- HW and SW in a broad range of technologies
- Operation of telecommunications, scientific and earth observation satellites
- Wide scientific community
- Several major programmes running. several satellites being built entirely or partially in Spain
 - Ingenio and Paz
 - Proba-3
 - Cheops
 - Small-geo



The Spanish Perspective

Shared competences in Space between ESA, EU and the MS are an asset for Europe and respective roles are complementary

European Union	ESA	Member States
<ul style="list-style-type: none">• European flagship application programmes• Integration of space technologies in European policies and programmes	<ul style="list-style-type: none">• Main framework for the cooperation of European MS in Space• Technical agency in charge of implementing European Space programmes	<ul style="list-style-type: none">• National Space programmes in support of national strategies and priorities• Development of capacities at national level

Main elements for a coherent European space framework

A widely supported and commonly shared European Space Policy should aim at distributing technological and industrial capacities among all MS

Key issues:

- **Stable cooperation framework for EU and ESA**
 - More tailoring of EU rules when possible to account for space specificities
 - Stable rules for ESA as implementing agency of EU programmes
 - Avoid the creation of parallel structures in the EU
- **An Industrial policy in the EU adapted to the space sector:**
 - By ensuring a strong and wide number of companies below “Prime”
 - Avoid tendencies to monopolization and vertical integration

Conclusions

- Europe needs to continue supporting space as a tool for economic growth and competitiveness
- Cooperation is key and all institutional actors (EU, ESA and member states) have a role to play in space
- Spain will continue to support space strongly both nationally and through Europe
- A widely supported and commonly shared European Space Policy should aim at distributing technological and industrial capacities among all MS