





Horizon 2020 The EU framework programme for Research and Innovation

A Multiannual Financial Framework for 7 years

<u>2014 - 2020</u>



H2020 will focus on three priorities:

1 - Excellent Science

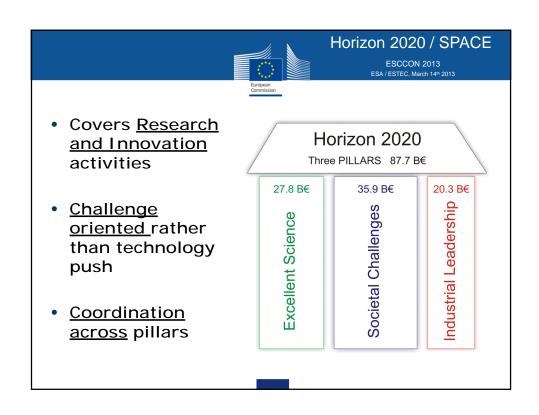
To raise the level of excellence in Europe's Science to secure Europe's long-term competitiveness

2 - Industrial Leadership

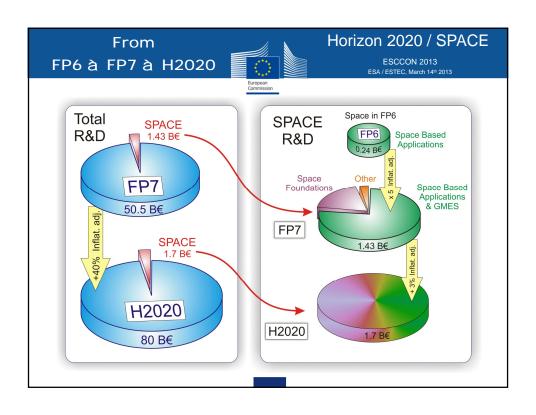
To build leadership in enabling and industrial technologies... and provide Union wide support for innovation in SMEs

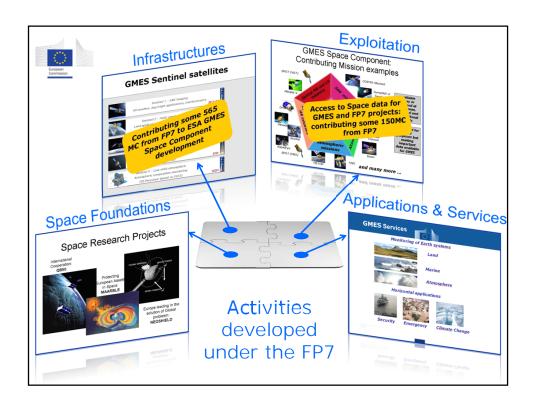
3 - Societal Challenges

According to the Europe 2020 strategy, addresses major concerns shared by citizens in Europe and elsewhere











Projects funded under the 7th Framework Programme

- 999 project proposals have been received for the FP7-Space Specific Research Programme (in 6 calls for proposals)
- 206 projects have been funded under the 7th Framework Programme until now (in 5 calls for projects)
- Approximately € 518 Million spent on Space Research in FP7 in the five work programmes between 2007 and 2012
- The Sixth Call for Proposals, "FP7-SPACE-2013-1", has been evaluated by the Research Executive Agency (REA)

Why should one invest in Space?



Horizon 2020 / SPACE

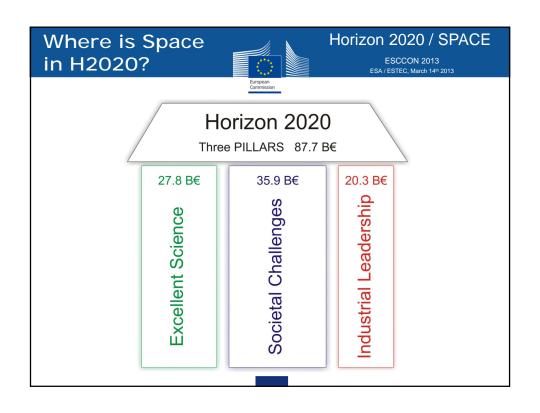
ESCCON 2013 ESA / ESTEC, March 14th 2013

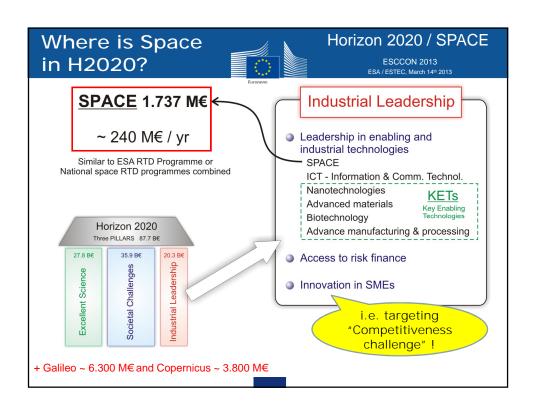
Objective for Space in Horizon 2020

Horizon 2020 Framework Programme proposal:

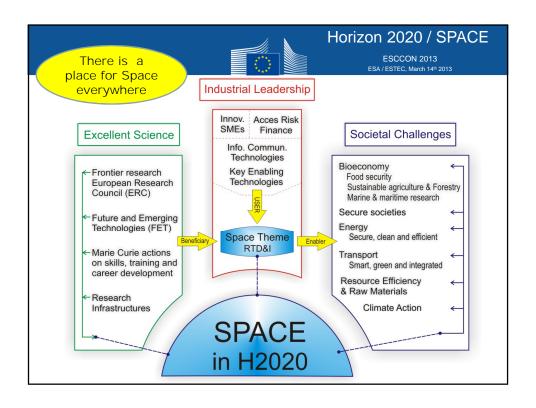
"The specific objective of space research and innovation is to foster a competitive and innovative space industry and research community to develop and exploit space infrastructures to meet future Union policy and societal needs"

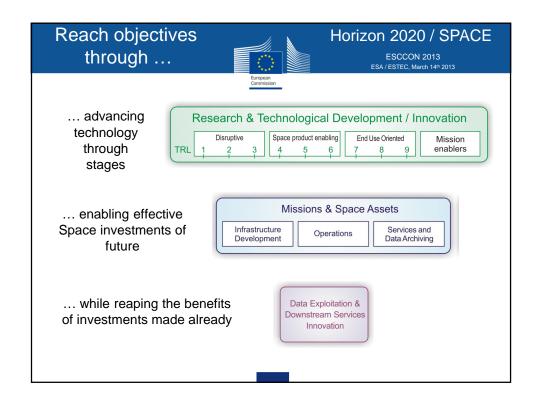
Prepare for the increasing role of space in the future and reap the benefits of space now

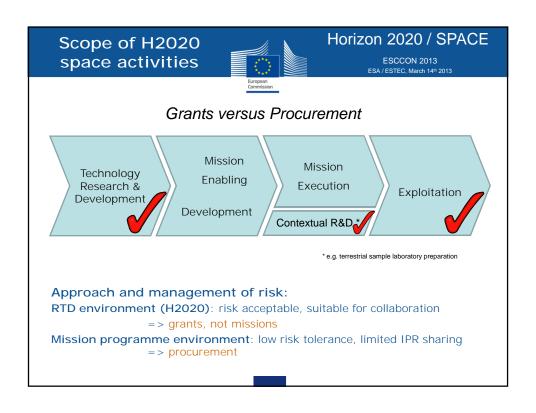


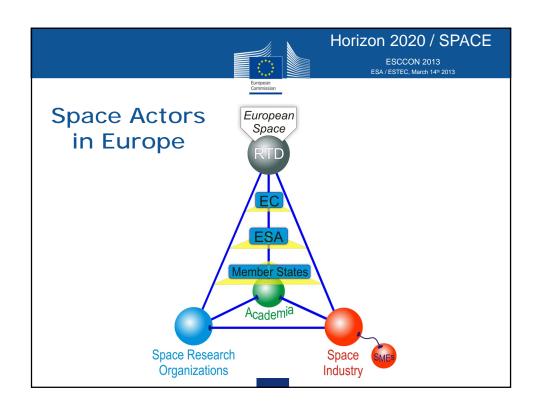


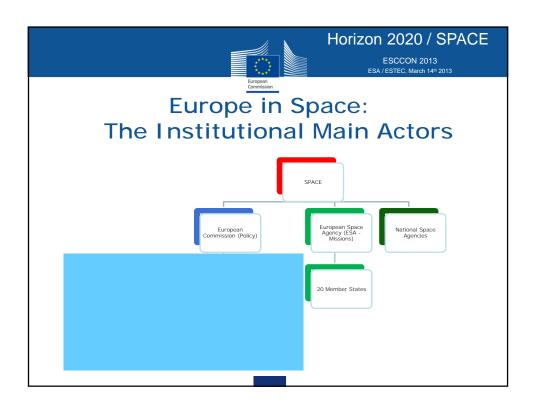




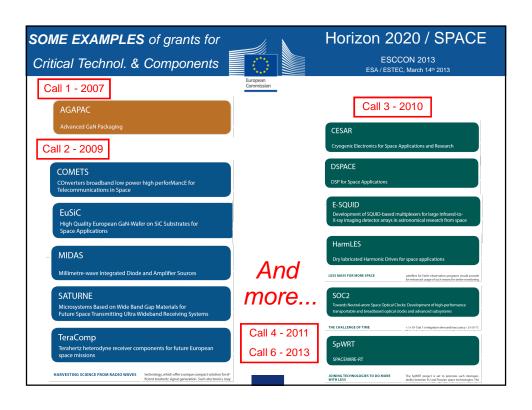








Horizon 2020 / SPACE H2020 and ESA/EU ESCCON 2013 **Member States** Relationship of Horizon 2020 to other Space R&D is clearly spelt out by EU Member States: In the field of space research, action at Union level will be carried out <u>in conjunction with</u> the space research activities of the <u>Member States and European Space Agency (ESA)</u>, aiming at building up complementarity among different actors. How can complementarity be built? · Build on proven EU Research programme strengths · Suited for collaboration across national boundaries (In- and outside EU) Ability to absorb risk of development and technical qualification outside of mission environment (not on a critical path)







Critical Technologies



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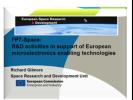
ESCCON 2013 ESA / ESTEC, March 14th 20

Joint EC-ESA-EDA Critical Technologies Initiative

- European Defence Agency / EDA
 - à Presentation of W. Scheidler at 14:30

EDA CapTech IAP1: overview on components activities

- European Space Agency / ESA
 - a Presentation of K. Miller at 14:45 The European Components Iniciative (ECI) and technology non-dependece for ESA programmes
- European Commission / EC
- à Presentation of Richard Gilmore at ESCCON 2011 FP7 Space: R&D activities in support of European microelectronics enabling technologies



Instruments



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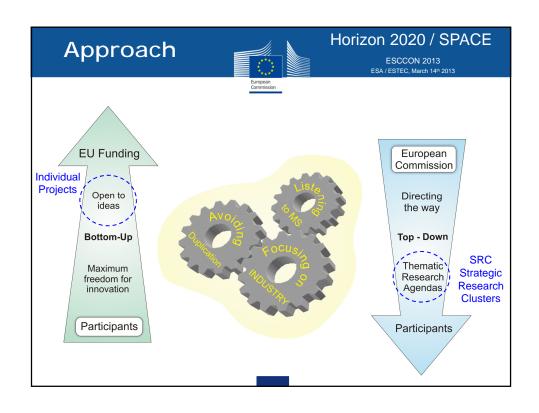
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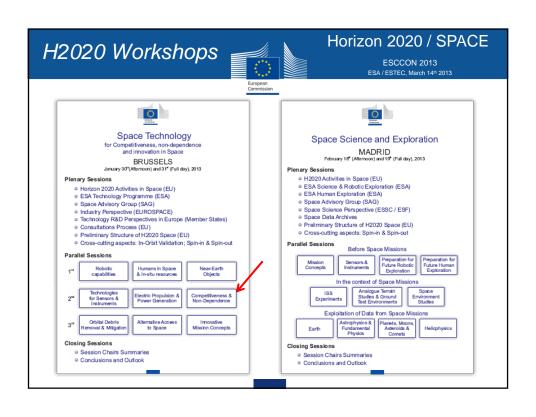
Horizon 2020 has a flexible range of instruments that can be used from basic research to close to market demonstration

Basis:

- Open, competitive call for all EU27, with Associated States
- Co funding grants for research (100%) and innovation(70%)
- Trans-national (>3) consortia
- Open to international participation (i.e. beyond EU)
- Link projects in multi-annual Strategic Research Clusters

New in H2020: <u>prizes</u>, loans, pre-commercial procurement, financial instruments







Conclusions

FP6 à FP7 à and Horizon 2020 comming soon (Call by end 2013)

H2020 Work Programmes, as a continutity of FP7, will address oportunities in relation to Space Components:

Manufacturers, Integrators, Researchers, Test & Qualification... are welcomed to apply in Horizon 2020 / Space

Work Programme Items, Instruments, Funds are in preparation:

Critical Technologies for Non-Dependence, IOD, future technologies for EO, Galileo, Robotic... TBD

