

 **eucass 2017**
7th European Conference
for Aeronautics and
Space Sciences



EURO(PE) and SPACE

Jan Wörner
European Space Agency



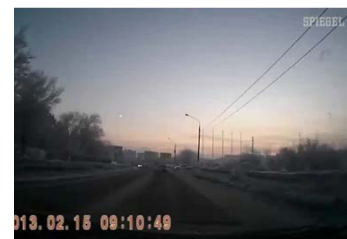
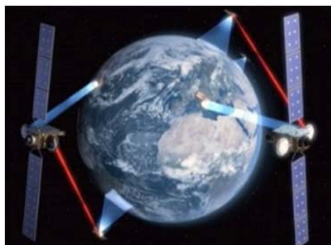
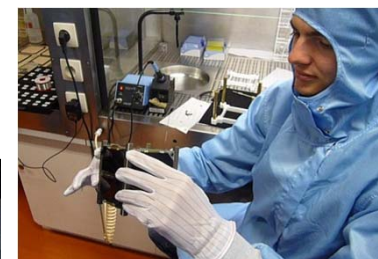
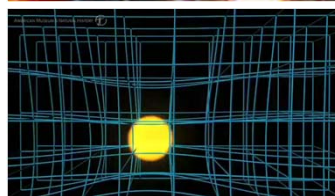
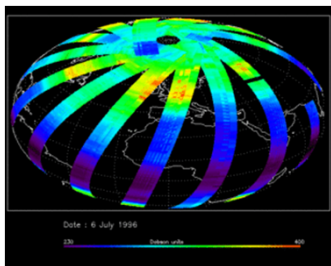
European Space Agency



ESA Convention 1975:
„...to establish a single European space organisation...”



ESA today:



European Space Agency

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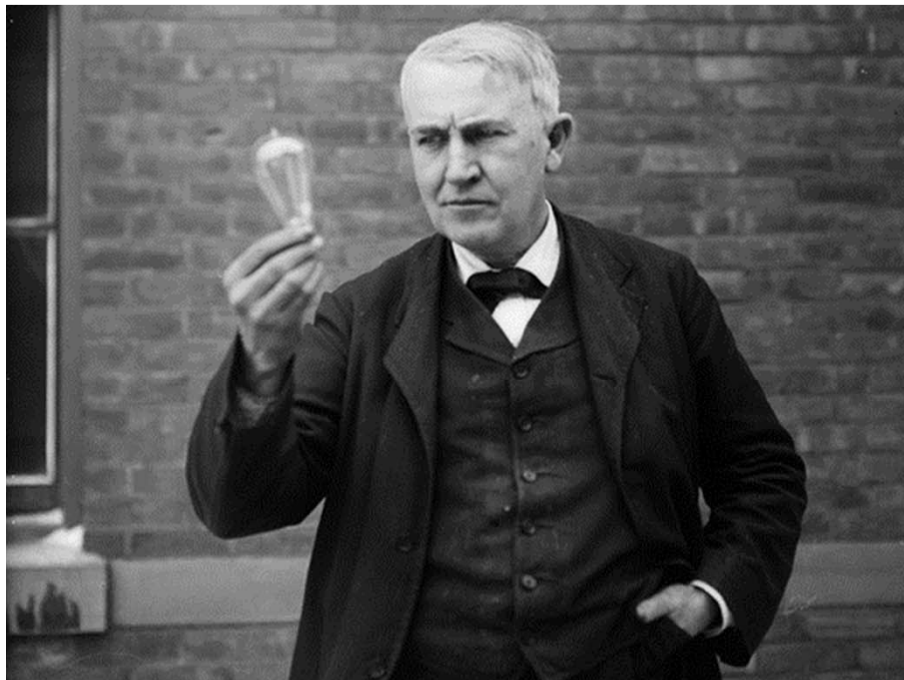
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European Space Agency

Shift of paradigms!

Change of

- Motivations
- Actors
- Contents
- Roles
- Technologies



- Commercialisation
- spin in / spin off
- Participation
- Information
- Innovation
- Interaction
- Inspiration
- Cooperation
- Jobs & growth
- Digitalisation



VISION(S)

Goals, Objectives
Projects, Activities
Roles and Tasks

ESA_Lab@...

A hub for: disruptive innovation & x-fertilisation



Concept: Moon surface operations



International
Human & robotic
Public & private
Exploration
Pioneering
Outreach /STE(A)M
Moon Science
Cosmology /astronomy
Fundamental research
Technology
Transportation
Communication
Logistics
Resource management
Planetary defense
Stepping stone...



Free and open access

Wind of change



ESA: THE European Space Agency

plasma interactions between comet 67P/Churyumov-Gerasimenko and the solar wind