

# **Session 3: Governance, Strategies and Approaches in 2030**

## **“EUROPEAN OPTIONS”**

**“Access to Space and the Evolution of Space Activities”**

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Space - Engine of  
inspiration over the last  
100 years







– “From the Earth to the Moon” by Jules Verne, 1865



*- Wernher von Braun, 1912-1977*



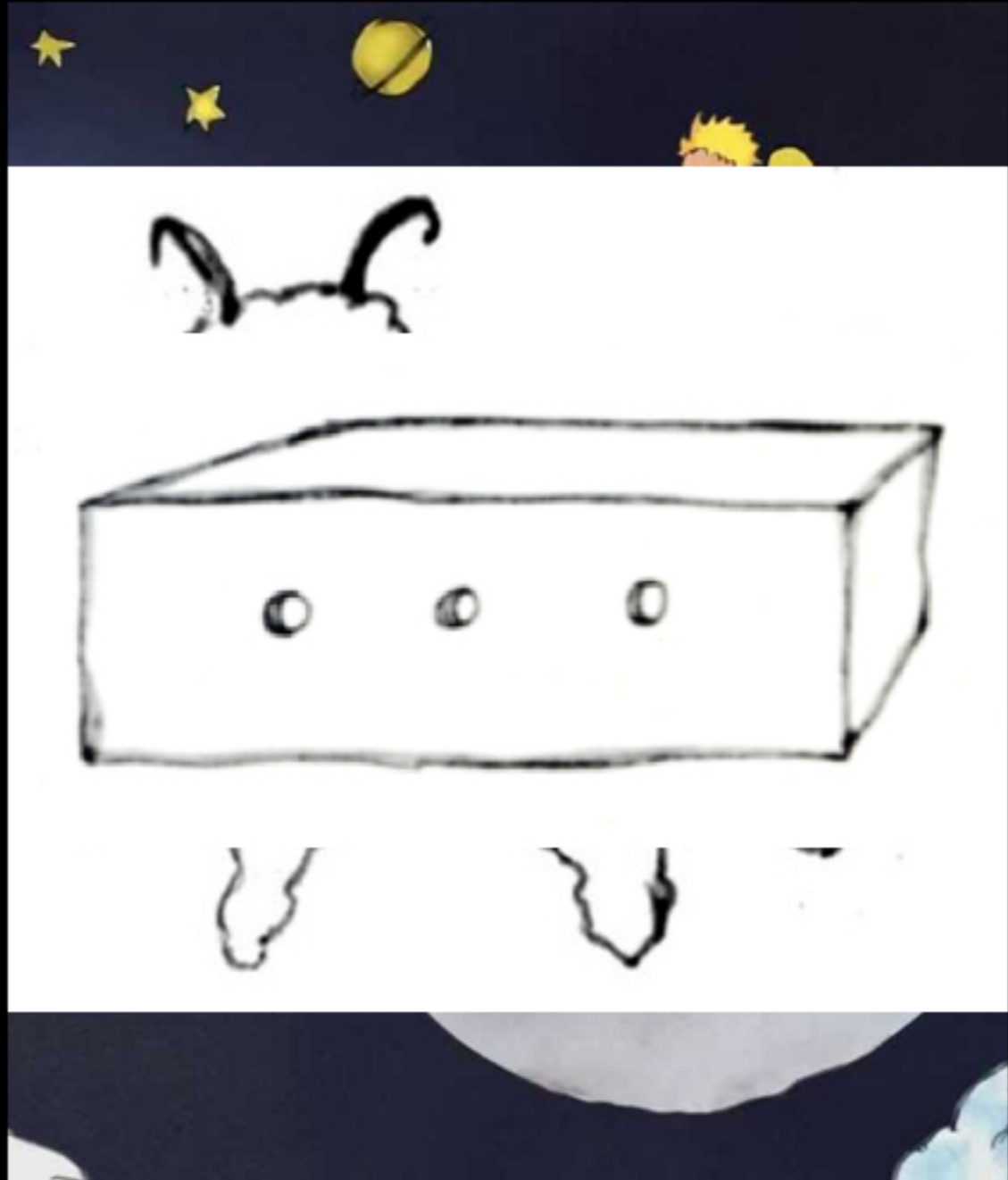


# Constructing an outlook

# Building blocks

- new technologies
- new and different business cases
- best practices
- lowering prices, mega-constellations
- changing technology and lifetime cycles, and
- specific game changers and paradigm shifts





# Key features

- role of private sector, and
- role of public sector, in
- pushing, and
- pulling the changes

# Evolving role of states

SELF-

ESTEEM

BELONGING

SAFETY

PHYSIOLOGICAL

# Trending changes

- role of public sector put in question
- reduction of public expenditures to stimulate private-sector
- shift to market and customer orientation
- privatisation of public services and infrastructure
- growing philanthropist ideologies



“Failure to recognise the role of the government in driving innovation may well be the greatest threat to rising prosperity.”

– *Martin Wolf, Financial Times 2013*

# Revisiting the roles

“... if we want to have more sustainable, long-run growth, rather than finance-driven, speculative growth, then we had better to understand where the growth comes from.”

“... if we actually look at few countries that have achieved smart, innovation-led growth, you’ve had this massive government involvement.”.

“... businesses invest only where they really see future technical and market opportunities.”

*- Mariana Mazzucato, Professor, Economics of Innovation, Sussex University*



*"To cast a javelin into the infinite spaces of the future." - Franz Liszt*



Defense Advanced Research Projects Agency  
DARPA



What Options?

“We are living in a depressive era in which we no longer have courage. We no longer think governments should have missions. But the market never chooses anything.”

– *Mariana Mazzucato*

# Policy elements

- Commercialisation of access to space
- Autonomy
- Geopolitics
- In-dependence or non-dependence

“Success consists of going from failure to failure without loss of enthusiasm.”

– *Winston Churchill , 1874-1965*



# What, how and by whom?

- How are we going to achieve these game changers and how are we going to capitalize on them?
- How are we going to ensure coherency and adequacy in the efforts that are being deployed to structure towards 2030 starting now?
- How are we going to ensure that there is a landing point in 2030, that there are able and innovative managers that will capitalize on this ground work?

... and for what vision?

# Building the box

- Think beyond commercialisation of launchers
- Start investing for a future change, now
- Take benefit of European expertise and diversity
- Unite a vision and resources to drive the change
- Re-structure European basic and advanced research
- Build on the strong industrial base it has for both launchers and space applications.

... and

... Inspire the next  
generation...