



#SSSIF2024 keynote speaker

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Now I wanted to ask you about ESA's role in the global space landscape. In recent years, the landscape has changed dramatically and will evolve even more rapidly in the coming years: a new economy is developing in low-Earth orbit that will transform space exploration in the years following the retirement of the International Space Station; and private companies are revolutionizing the landscape, from launchers to exploration.

What is the current situation in Europe compared to the most powerful space powers to date, such as the United States or Russia? What are ESA's objectives for the coming years?

LUCA Let me begin with a fundamental shift that has occurred over the past two decades: the lowering of barriers to access space. The increased number of satellites has made space exploration more affordable, opening it up to a broader range of nations and private enterprises. This paradigm shift is evident when we compare the past, where missions were primarily institutional, to the present, characterized by a mix of institutional and private initiatives. This evolution, commonly referred to as 'new space,' involves entrepreneurs investing in space assets with the aim of generating returns. Unlike the past, where space missions were predominantly institutional, the landscape has changed, especially in areas like remote sensing. The European Space Agency (ESA) is adapting to these external forces through a transformation initiative. The objective is to make the agency more modern, agile, and responsive to emerging challenges. While ESA's budget has significantly increased in recent years, it remains a fraction of what entities like the United States invest in space.

Despite this, ESA continues to deliver world-class missions, showcasing significant success when compared to the budgetary constraints. In recognition of the changing dynamics in the space sector, ESA has established a new department called the Department of Commercialization. This department actively engages with entrepreneurs, viewing space as a business opportunity rather than just a platform for world-class science or services such as weather forecasting, GPS, and air quality monitoring. This approach signals a shift in how the agency collaborates with external bodies, fostering a more business-oriented perspective.

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How does ESA see the creation of the Spanish Space Agency? Do you think the Spanish Space Agency can help ESA to achieve its objectives?

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The establishment of a national space agency is perceived as a positive asset by entities involved in decision-making related to space endeavors. While the specific terms governing the operations of the space agency may not be fully known, having a dedicated body focused on space activities is considered a positive indication of a nation's commitment to and recognition of the importance of space exploration. This recognition sets the stage for discussions, debates, and decisions regarding the most suitable missions for national programs and those better suited for international cooperation. Even in cases where missions fall under national programs, there remains an opportunity for the agency to contribute by providing technical expertise, advice, and support – a role it has fulfilled in other situations and in the past.

From my perspective, I see only positive outcomes emerging from this move. It not only underscores the importance of space exploration for the nation but also facilitates strategic deliberations on the most effective allocation of resources for both national and international space initiatives.

- SSSIF Thank you so much for giving us these few minutes with you. What will be the main lines we will hear from you at the event?
- LUCA I'd like to keep my plans a surprise for now. During my Christmas vacation, I've decided to take a break, allowing myself time for introspection. This break provides me with the opportunity to shift from a 'to-do' mode to a more relaxed 'to-be' mode, giving me the mental space to consider my next steps.

As I mentioned earlier, there's a clear problem I aim to tackle - understanding the challenges of probing Titan. In the realm of new space, engineers typically approach problem-solving differently. They possess technology and financial resources and seek problems to solve. In my case, the challenge lies in utilizing technology to provide enhanced information on traffic, weather, pollution, maritime traffic security, among other services. It's about finding creative applications for existing technology rather than developing new technology for a specific problem. When it comes to learning about Titan, the mindset required is that of a problem solver. On the other hand, being an innovator and creator is essential when exploring new space opportunities. This demands a high level of creativity, as exemplified by inventions like the laser. Initially considered an academic exercise, the laser has become indispensable in our daily lives. Perhaps this will be the focal point of my endeavors during this period of reflection: "Newspace require new minds. New minds means creativity."

SMALL SATELLITES & SERVICES INTERNATIONAL FORUM #SSSIF2024 Keynote speaker		
SSSIF	So interesting. As said before, Luca Maresi will be the Keynote speaker during the congres of the Small Satellites & Services International Forum in Malaga. We are very excited an look forward to meeting you personally in Malaga.	
LUCA	It will be a pleasure as always. Thank you so much.	4/4