

ESPI-ESA Conference on
Space and SATCOM for 5G
European Transport and Connected Mobility

27 – 28 June 2017
Brussels, Belgium

Profound change lies ahead for the transport sector, both in Europe and in other parts of the world, while a wave of technological innovation and disruptive business models has led to a growing demand for new mobility services. In fact, transportation systems are developing towards connected mobility, and the choice of communication technology should be transparent for the end user, and it will be based upon the location, the type of service and cost efficiency. 5G and satellite communication should be integrated as future technologies into the hybrid communication mix¹.

The Space Strategy for Europe² underlines the role satellites can play to provide cost-effective solutions to improve connectivity for Europe's digital society and economy as part of the future 5G networks, where numerous applications and services using space data will also require uninterrupted connectivity. It encourages the uptake of space solutions by integrating space into future strategies addressing the transport sector at large, including for example autonomous and connected cars, trucks, ships, trains, airplanes and unmanned aerial vehicles.

The Conference aims at **promoting cooperative frameworks that encourage the interworking of satellite and terrestrial technologies in support to the automotive and transport sector, by bringing together the respective business and institutional communities. Special emphasis will be put on the roles and approaches of the diverse groups of stakeholders involved in the development of satellite based 5G networks and of future transportation vehicles.** Both policy and technology aspects related to 5G and future space-based solutions will be discussed, with a clear focus on markets where satellite communications and other space applications provide strong value-add and complementarity to terrestrial 5G solutions.

Participants will discuss the user and market needs on the demand-side and the possible solutions on the supply-side, outlining a way ahead which may include public-private partnership models, private investments, the EC 5G Action Plan and ESA R&D support activities. The findings and recommendations of the event will be reflected in an executive report, made available to key decision-makers in industry and institutions.

¹ A European Strategy on Cooperative Intelligent Transport Systems, a milestone towards cooperative, connected and automated mobility. COM(2016)766 Final, 30.11.2016

² Space Strategy for Europe. COM(2016)705 Final, 26.10.2016

Day 1 (afternoon) – 27 June 2017

	13:30	Registration and Welcoming Coffee
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Opening (14:00 – 14:45)

Opening remarks	Jean-Jacques Tortora, Director, ESPI Magali Vaissiere, Director of Telecommunications and Integrated Applications, ESA
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1. Key Note	Representative of the Business Community
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Panel 1: Policy Perspective (14:45 – 18:30)

Nr.	Time	Topic	Speakers
2.	14:45 15:30	Policy Key Note	Roberto Viola (invited) Director General DG-CONNECT
3.	15:30 17:00	Policy perspectives	The Satellite Operators: 5G manifesto The European perspective The Satellite Manufacturers perspective The ESA Industrial Policy perspective
	17:00 17:15	Coffee break	
4.	17:15 17:45	Spectrum and regulatory aspects	Radio Comm Bureau, ITU
5.	17:45 18:00	The ESA perspective	ESA TIA European and Institutional Programmes Office
	18:00 18:30	Panel 1 discussion	Questions and answers Panel 1 Wrap-up
	19:00 22:00	Social Event and Dinner	

Day 2 (morning) – 28 June 2017 (9:00 – 13:00)

Panel 2: User Perspective

Nr.	Time	Topic	Speakers
6.	9:00 9:45	Key Note European Transportation Sector	Henrik Hololei (invited) Director-General for Transport and Mobility, EC DG-MOVE
7.	9:45 10:30	The added value of Space Applications	ESA TIA Head of Department Integrated Applications GSA Eutelsat
	10:30 10:45	Coffee break	
8.	10:45 12:45	Transportation Industry view	Volkswagen Daimler AG AIRBUS aircrafts Truck sector Railway sector Maritime sector
	12:45 13:00	Panel 2 discussion	Questions and answers Panel 2 Wrap-up
	13:00 14:00	Lunch	

Day 2 (afternoon) – 28 June 2017 (14:00 – 18:30)

Panel 3: Partnership Perspective (14:00 – 16:30)

Nr.	Time	Topic	Speakers
9.	14:00 14:30	Partnership Key Note	Jaime Silva (invited) EC DG-GROW / ESPI Advisory Council
10.	14:30 15:00	EC 5G PPP	Future Networks, EC DG-CONNECT
11.	15:00 16:30	Innovative Partnerships models	ESA TIA Head of Telecom Technologies, Products and Systems Department Orange Airbus Defense and Space European Association of Automotive Suppliers (CLEPA) European Automotive Manufacturer's Association (ACEA) OneWeb

Final Round Table: Recommendations for a way ahead

(16:30 – 18:30)

Chairmen, industrial and institutional representatives from Policy, User and Partnership Panels

Moderators: Magali Vaissiere, Jean-Jacques Tortora

Closing (18:30)