



# SPACE2CONNECT CONFERENCE 2023

## PROGRAMME

**MATERA**

**ITALY**

**7-9 JUNE 2023**



14:00-14:30 **PLENARY OPENING - SPACE2CONNECT 2023 CONFERENCE**

## SESSION 1

Title	<b>INNOVATIVE SERVICES &amp; APPLICATIONS USING SPACE CAPABILITIES</b>
Description	This session will focus on using space to benefit citizens by exploring how Satcom can aid institutions and the commercial sector in providing essential services such as healthcare and education in rural areas. Experts will discuss innovative ways to leverage Satcom to bridge the digital divide and improve access to critical services for those in remote and under-served areas. Additionally, discussions will focus on how to improve transport and logistics, implement sustainable urban planning, and enhance renewable energy infrastructure.

TIME	TITLE	FORMAT	SPEAKER	ROLE	ORGANISATION	
14:30-16:00	Connectivity Challenge and Opportunity	Keynote	Gianluca Casagrande	Full Professor of Geography	European University of Rome	
	Space for Green Ports	Fireside Chat	Debora Marullo	EU Programmes and Innovation Dpt. of the Port Network Authority of the Ionian Sea	Port Network Authority of the Ionian Sea (Port of Taranto)	
	Enabling Education through Satcom: Bridging Gaps for Social Integration	Interview	Doc. Gabriella Nenna	Director of Cara Restinco-Brindisi	Hera Consortium	
			Doc. Francesca Carrozzo	Intercultural Mediator	Hera Consortium	
	Satisfying Society Needs using Space Capabilities	Round Table	<b>Chris Burns</b>	Journalist ( <b>Moderator</b> )		
			Antonio Bartoloni	Director General of "riconversione industriale e grandi filiere produttive"	Italian Ministry of Economic Development (MISE)	
			Nick Appleyard	Head of Downstream Business Application Department	European Space Agency (ESA)	
			Mark McGranaghan	Vice President of Technology Innovation	Electric Power Reserch Insittute (EPRI)	
			Natale Lettieri	Chief Transformation Officer	Eutelsat	
			Anna Masutti	President	Rete Ferroviaria Italiana	
		Cheryl Hicks	Senior Advisor	CEO Water Mandate		

16:00-16:30 **COFFEE BREAK**



SESSION 2

Title

BRINGING CONNECTIVITY TO THE MOON AND BEYOND

Description

This session will explore the junction of space exploration and economic development, with a focus on the communication and navigation infrastructure, necessary for sustainable human activity on the Moon and beyond. The session will examine the importance of international cooperation in enabling connectivity and fostering economic growth, while inspiring the next generation of scientists and engineers.

TIME	TITLE	FORMAT	SPEAKER	ROLE	ORGANISATION
16:30-17:30	Unifying Forces to Expand Connectivity beyond Earth	Round Table	Emilio Cozzi	Journalist ( <b>Moderator</b> )	
			Samantha Cristoforetti	Astronaut	European Space Agency (ESA)
			Badri Younis	Deputy Associate Administrator for SCA <sub>N</sub>	The National Aeronautics and Space Administration (NASA)
			Anu Ojha	Director of Championing Space	UK Space Agency (UKSA)
			Charlotte Nassey	Business Development & Government Affairs Officer	ispace Europe
			Bernhard Hufenbach	Commercialisation & Innovation Team Leader	European Space Agency (ESA)
			To be announced soon		Italian Space Agency (ASI)
	Moon Market Analysis	Presentation	Hussain Bokhari	Senior Analyst	Northern Sky Research (NSR)



SESSION 3

Title	<b>HOW SATCOM CAN ADDRESS SECURITY AND GEOPOLITICAL CHALLENGES</b>
Description	This session will explore how satellite communications can play a crucial role in ensuring European sovereignty and secure communications. The discussion will focus on the importance of Satcom in enabling secure and resilient communications, and how Satcom can help Europe achieve greater autonomy in its communications infrastructure. Experts will share insights for ensuring the resilience and reliability of these systems.

TIME	TITLE	FORMAT	SPEAKER	ROLE	ORGANISATION
17:30-18:30	Autonomy Objectives and Commercial Ambition	Keynote	Ludwig Moeller	Director	European Space Policy Institute (ESPI)
	New Paradigm on Security from Space	Round Table	<b>Pacome Revillon</b>	Euroconsult CEO ( <b>Moderator</b> )	
			Christoph Kautz	Deputy Director and Head of Unit	DEFIS B1
			Gisela Suess	Head of the Legal Services Department	European Space Agency (ESA)
			Stefano Iannitti	Head of Security Authority	EUSPA
			Elena Grifoni Winters	Director General of the Space Office of the Italian Prime Minister	Italian Government
			Uwe Kippnich	Former President	Public Safety Communication Europe PSCE
	Clemence Poirier	Research Fellow	European Space Policy Institute (ESPI)		
Commercial Space Sector Perspective	Keynote	Pacome Revillon	CEO	Euroconsult	

18:30-20:00	<b>GUIDED TOUR OF SASSI</b>
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20:00-22:30	<b>GALA DINNER AT PALAZZO MALVINNI MALVEZZI</b>
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SESSION 4

Title **NOVEL SPACE CAPABILITIES FOR EMERGING CONNECTIVITY NEEDS**

Description This session will dive into the future of satellite communications and explore the necessary infrastructures to support the emerging connectivity ambition. Experts will discuss the latest advancements in satellite-based infrastructures to enable new connectivity, with particular focus on emerging direct-to-handheld connectivity and Quantum Key Distribution, and how these can be realised by leveraging Low Earth Orbit (LEO) constellations, hybrid networks, and other satellite systems.

TIME	TITLE	FORMAT	SPEAKER	ROLE	ORGANISATION
09:00 - 10:30	Direct to handheld	Keynote	Sean Wallace	EVP and CFO	AST Space Mobile
	Emerging Satellite Communication Systems	Round Table	Chris Burns	Journalist ( <b>Moderator</b> )	
			Conor Carroll	Head of Market Development	Vodafone
			Massimiliano Ladovaz	CTO	OneWeb
			Luigi Pasquali	CEO	Telespazio
			Alan Kuresevic	Managing Director	SES
			Antonio Abad	CTO	Hispasat
			Laurent S. Jaffart	Head of Strategy, Corporate and New Business Development Space Systems	Airbus Defence And Space

10:30-11:00

COFFEE BREAK

## SESSION 5

Title

### DIGITAL TRANSFORMATION IN SATCOM

Description

This session will explore the digital transformation of the satcom industry, with a deep dive into the latest trends and technologies that are striving for innovation. A series of keynotes will showcase the latest advancements on Ground Station as a Service (GSaaS), Artificial Intelligence (AI), cloud computing, virtualisation, automation and orchestration of satcom networks.

TIME	TITLE	FORMAT	SPEAKER	ROLE	ORGANISATION
11:00-12:00	Disruptive Business Models	Keynote	Guido Baraglia	Head of Space & Satellite EMEA	Amazon Web Services
	Artificial Intelligence for Satcom	Keynote	Afonso Nunes	Technology Business Development	CGI
	Automation & Orchestration of Megaconstellations	Keynote	Enrique Fraga Moreira	Director of Space	GMV
	Virtualisation of Satcom Systems	Keynote	Stuart Daughtridge	Vice President Advance Technology	Kratos Defense and Security Solutions

## SESSION 6

Title

### TECHNOLOGICAL ENABLERS

Description

The technological enablers in Satcom will be discussed in this session by addressing topics related to the adoption of a NewSpace approach in the Satcom industry, including faster innovation cycles and higher risk, supply chain management for technology and products sovereignty in Europe, standardisation versus vertical integration, and spin-in/spin-off from other markets and domains. Additionally, the session will highlight the importance of early testing and demonstration of technology, to accelerate the adoption of emerging technologies into the Satcom domain.

TIME	TITLE	FORMAT	SPEAKER	ROLE	ORGANISATION
12:00-13:00	Technological Enablers in Satcom: from Consolidation to Disruption	Round Table	<b>Lisa Burke</b>	Journalist ( <b>Moderator</b> )	
			Marc-Henri Serre	VP Telecom Business Line	Thales Alenia Space (TAS)
			Francois Gaullier	SVP Telecommunications and Navigation Systems	Airbus Defence and Space (ADS)
			Geert Adams	VP R&D Programs	St Engineering iDirect
			Piero Angeletti	Head of Radio Freq Payloads & Technology Division	European Space Agency (ESA)
			Roberto Aceti	CEO	OHB Italia

13:00-14:30

NETWORKING LUNCH AT IPOGEI MOTTA



SESSION 7

Title	<b>SPACE FOR A GREEN TRANSITION AND RESILIENCE TO CLIMATE IMPACT</b>
Description	This session will emphasise the role of space technologies and applications in supporting a green transition towards a sustainable future. Starting from the carbon neutral goals set by the European Union's Green Deal, the discussion will focus on the role of space based solutions in monitoring and mitigating the effects of climate change. Experts will discuss the use of satellite technology in disaster management and emergency response, including natural disasters, exploring the potential for space-based applications to support critical infrastructure resilience and citizen safety.

TIME	TITLE	FORMAT	SPEAKER	ROLE	ORGANISATION
14:30-15:30	Space for a Green Transition and Resilience to Climate Impact	Round Table	Emilio Cozzi	Journalist ( <b>Moderator</b> )	
			Barry French	Chief MCO	Inmarsat
			Sebastien Moranta	Accelerator Development Coordinator	European Space Agency (ESA)
			Alessio Leone	Postholder CAMO – Maintenance Executive	ITA Airways
			Daniela Petrovich	Co-founder	Darwin Innovation Group
			Paolo Minciocchi	Chief Executive Officer	e-GEOS



**SESSION 8**

**RESPONSIBLE USE OF SPACE**

Title	<b>RESPONSIBLE USE OF SPACE</b>
Description	This session will provide a series of informative keynotes regarding the sustainable and responsible use of space. Experts will explore the latest opportunities to promote responsible and sustainable use of space with a particular focus on the protection of space assets from risks such as space debris, and the management of scarce resources such as spectrum and orbits. The impact of Satcom activities on astronomy and the importance of ethical considerations will also be examined. In addition, experts will share insights on the latest developments in sustainable space systems, and the opportunities they present for promoting responsible and sustainable use of space.

TIME	TITLE	FORMAT	SPEAKER	ROLE	ORGANISATION
15:30-17:00	Protection of Space Assets	Keynote	Holger Krag	Head of Space Safety Programme	European Space Agency (ESA)
	Spectrum Scarcity	Keynote	Sergio Buonomo	Chief of the Study Group Department at the Radiocommunication Bureau	International Telecommunication Union (ITU)
	Impact in Astronomy	Keynote	Piero Benvenuti	Director of the Protection of Dark and Quiet Sky from Satellite Constellations Interference	International Astronomical Union (IAU)
	Sustainable Space Systems	Fireside chat	Greg Wyler	Founder & CEO	E-SPACE
	Ethics orbiting Near-Earth Space Environment	Keynote	Jacques Arnould	Expert éthique	CNES

17:00-17:30	<b>PLENARY CONCLUSION - OUTCOME &amp; WAY FORWARD</b>
17:30-21:30	<b>SPARKme SPACE ACADEMY EXPERIENCE &amp; DINNER</b>



**FINAL PRESENTATION DAYS 2023 & SPECIALS**

**CASA DELLE TECNOLOGIE**

TIME	FIRST FLOOR	THIRD FLOOR						FOURTH FLOOR			
	ASI AGORA	FINAL PRESENTATION DAYS 2023						MULTI-DISCIPLINARY FORUM			
09:00-11:00	ASI AGORA	NEXT GENERATION SATCOM	MANAGEMENT & CONTROL	NETWORK	ANTENNA & RF	PAYLOAD	PLATFORM	ENERGY FORUM	5G/6G FORUM & METAVERSE	SAFETY & SECURITY FORUM	OPTICAL FORUM
11:00-11:30	COFFEE BREAK										
11:30-13:00	ASI AGORA	NEXT GENERATION SATCOM	MANAGEMENT & CONTROL	NETWORK	ANTENNA & RF	PAYLOAD	PLATFORM	ENERGY FORUM	5G/6G FORUM & METAVERSE	INVESTOR FORUM	
13:00-14:00	LUNCH BREAK										
14:00-15:40		NEXT GENERATION SATCOM	HUB & MODEM	NETWORK	ANTENNA & RF	PAYLOAD	PLATFORM				
15:40-16:10	COFFEE BREAK										
16:10-17:30		NEXT GENERATION SATCOM	HUB & MODEM	NETWORK	ANTENNA & RF	PAYLOAD	PLATFORM				



Room	ASI AGORA				
SLOT	ACTIVITY TITLE	FORMAT	SPEAKER	ROLE	ORGANISATION
9:00 – 9:20	Introduction	Keynote	R. Formaro	Director of Programs	Italian Space Agency (ASI)
		Keynote	To be announced soon	Representative of Basilicata Region/ City of Matera	Representative of Basilicata Region/City of Matera
9:20 – 9:30	Space2Connect Awards announcement	Keynote	A. Tuozzi	Head of EU and EU Member States Relations Unit - International Affairs Directorate	Italian Space Agency (ASI)
9:30 -11:00	New Space Economy	Presentation	<b>F. Pieralice</b>	Telecommunication and Navigation Unit, Italian Space Agency (ASI) ( <b>Moderator</b> )	
			L. Scatena	Secretary General	Fondazione Amaldi
			V. Stanzione	Technical Director	Sitael
			M. Dejana	Head of Institutional Sales	D-Orbit
			A. Pozzobon	Director	Qascom
			E. Bonora	Program Associate	Take-off Accelerator
11:00-11:30	COFFEE BREAK				
11:30-12:20	Quantum Communication	Round Table	<b>G. Varacalli</b>	Head of Telecommunication and Navigation Unit, Italian Space Agency (ASI) ( <b>Moderator</b> )	
			G. Pepe	Full Professor	Physics Department
			D. Calonico	Head of the Division "Quantum Metrology and Nanotech"	National Metrology Institute of Italy (INRiM)
			F.S. Cataliotti	Director of National Institute of Optics	National Research Council of Italy (CNR)
			S. Capeleto	Think Quantum CEO	Officina Stellare/ Think Quantum
			A. Sturiale	Telecom Domain Director Italy	Thales Alenia Space Italy
12:20–12:40	Qubits from Matera to the sky	Presentation	P. Villoresi	Director of Padua Quantum Technologies Research Center	Department of Information Engineering, University of Padua
12:40-13:00	Space Quantum Communications	Keynote	Prof. A. Zeilinger	Full Professor, Nobel Prize in Physics	University of Vienna



Room	NEXT GENERATION SATCOM		
SLOT	ACTIVITY	PRESENTER	INDUSTRY
9:00-9:10	WELCOME TO NEXT GENERATION SATCOM SESSION	Andrew Murrell	EUROPEAN SPACE AGENCY
9:10-10:00	PANEL: HOW GENERATIVE AI IS SET TO REVOLUTIONISE SATCOM	<b>Tomas Navarro (Moderator)</b>	Top-leading expert in Generative AI, SES, THALES ALENIA SPACE, REFLEX AEROSPACE
10:00-10:20	BRINING HAPS INTO SATCOM NETWORKS	Nicolas Chuberre	THALES ALENIA SPACE
10:20-11:00	HOW WILL NEUROMORPHIC PROCESSORS CHANGE SATCOM?	Marisa Lopez, Flor de Guadalupe Ortiz	UNIV OF LUXEMBOURG, UNI POLITECNICA MADRID
11:00-11:30	COFFEE BREAK		
11:30-12:00	MULTI-LAYERED SATCOM SYSTEMS	Mihaly Varga, John O'Connor	INMARSAT, VIASAT
12:00-12:20	ENSURING SATELLITE'S ROLE IN 5G NETWORKS	Nicolas Chuberre	THALES ALENIA SPACE
12:20-12:40	SATCOM MARKET SNAPSHOT	Harriet Brettle	EUROPEAN SPACE AGENCY
12:40-13:00	WHAT DOES A 5G PAYLOAD HAVE TO DO?	Mathieu Arnaud	THALES ALENIA SPACE
13:00-14:00	LUNCH BREAK		
14:00-14:20	TECHNOLOGY "SPIN-IN" OPPORTUNITIES	Sean McCarthy	SATELLITE APPLICATIONS CATAPULT
14:20-15:00	SATNEX V: BUILDING LINKS BETWEEN INDUSTRY AND ACADEMIA	Miguel Angel Vazquez	CTTC
15:00-15:20	THE ROLE OF SATELLITES IN SPECTRUM MONITORING	Fabio Curreli	OHB
15:20-15:40	BLOCKCHAIN FOR SPACE	Álvaro Sánchez Valverde	GMV
15:40-16:10	COFFEE BREAK		
16:10-16:30	WHAT DOES WRC-2023 MEAN FOR THE SATCOM SECTOR?	Frank Zeppenfeldt	EUROPEAN SPACE AGENCY
16:30-16:50	NEW RULES, NEW OPPORTUNITIES	Helena Correia	VDA
16:50-17:00	CLOSING REMARKS		



Room	MANAGEMENT & CONTROL, HUB & MODEM		
SLOT	ACTIVITY	PRESENTER	INDUSTRY
09:00-09:20	UNMANNED AERIAL SYSTEM FOR ANTENNA PERFORMANCE EVALUATION (UAS APE)	Andrian Buchi	QUADSAT
09:20-09:40	SIMULATOR FOR MANAGING INTERFERENCE BETWEEN NGSO CONSTELLATIONS AND GSO	Francesco Barbaglio	ARPSOFT
09:40-10:00	AUTONOMOUS SATELLITE SOLUTIONS (AUTSS)	Rob Hunter	CGI
10:00-10:20	MOBISAT	Pedro Ruiz	INTEGRASYS
10:20-10:40	OPERATIONAL PRODUCT FOR ELECTRIC PROPULSION ORBIT RAISING (OPEPOR)	Serban Anghel	GMV
10:40-11:00	FIJOSAT	David Lochrin	FIJOWAVE
11:00-11:30	COFFEE BREAK		
11:30-11:50	ONE SATELLITE GEOLOCATION SYSTEM	Erwin Greilinger	ATOS
11:50-12:10	PREDICTIVE INTERFERENCE ANALYSIS PIA (SKYMON)	Erwin Greilinger	ATOS
12:10-12:30	TELCO EGSE	Augusto Schaedler	TERMA
12:30-12:50	CYBER SECURITY EGSE	Augusto Schaedler	TERMA
13:00-14:00	LUNCH BREAK		
14:00-14:20	DEMONSTRATOR OF PRECODING TECHNIQUES FOR FLEXIBLE BROADBAND SYSTEMS	Gupta Vaibhav Kumar	UNIV LUXEMBOURG, SES
14:20-14:40	PROTOTYPE RECEIVER FOR SPECTRALLY EFFICIENT TRANSMISSION SCHEMES	Johannes Ebert	JOANNEUM RESEARCH
14:40-15:00	WIDEBAND SOFTWARE DEFINED HUB	Petter Chr. Amundsen	KRATOS
15:00-15:20	AIR INTERFACE DEVELOPMENT FOR ULTRA-LOW POWERED INTERNET OF THINGS SATELLITE APPLICATIONS	Bjarne Risløw	WIDENORTH, SIMULA, NORWEGIAN UNIV OF SCIENCE & TECHNOLOGY, SPACE NORWAY
15:20-15:40	USER TERMINAL WIDEBAND MODEM FOR VERY HIGH THROUGHPUT SATELLITES (VHTS)	Bjarne Risløw	WIDENORTH, UNIV LUXEMBOURG, NORWEGIAN UNIV SCIENCE & TECHNOLOGY, SPACE NORWAY
15:40-16:10	COFFEE BREAK		
16:10-16:30	VHF SHIP BORNE TERMINAL INTEGRATING SURVEILLANCE AND DATA EXCHANGE SERVICES	Nils Nygaard	KONSBERG SEATEX
16:30-16:50	SATELLITE GATEWAY DEVELOPMENT FOR MASSIVE UNCOORDINATED ACCESS NETWORKS	Agostino Isca	MBI, AIRBUS DEFENCE & SPACE



Room	NETWORK		
SLOT	ACTIVITY	PRESENTER	INDUSTRY
09:00-09:20	INTERNET-OF-THINGS TECHNOLOGY DEMONSTRATION	Rob Spurrett	LACUNA SPACE
09:20-09:40	DIAGNOSTIC INTEGRATED NETWORKS OF SATELLITE AND 5G (DINOS5G)	Mirko Ermini	RETE FERROVIARIA ITALIANA
09:40-10:00	CLOUD BASED NON-GEO 5G CBH TECHNOLOGY	Geert Adams	ST ENGINEERING IDIRECT
10:00-10:20	MRC-SAT	Geert Adams	ST ENGINEERING IDIRECT
10:20-10:40	IMPLEMENTATION OF VIRTUALISED NETWORK FUNCTION (VNF) FOR BROADBAND SATELLITE NETWORKS	Michele Luglio	NITEL, CINI, ATHONET, UNIV PADOVA
10:40-11:00	5G SATELLITE CONNECTIVITY FOR COMMERCIAL OFF-THE-SHELF MOBILE PHONES	Mika Lasanen	VTT
11:00-11:30	COFFEE BREAK		
11:30-11:50	SPIN-IN OF 3GPP TERRESTRIAL RADIO ACCESS TECHNOLOGY FOR SATCOM	Alessio Mattioni	RINA CONSULTING, AIRBUS, NITEL, CNIT
11:50-12:10	SATELLITE COMMUNICATION SIMULATIONS AS A SERVICE (SCSAAS)	Jani Puttonen	MAGISTER SOLUTIONS
12:10-12:30	DATA-DRIVEN NETWORK CONTROLLER AND ORCHESTRATOR FOR REAL-TIME NETWORK MANAGEMENT (ANCHOR)	Giada Landi	NEXTWORKS
12:30-12:50	REAL-TIME SATELLITE NETWORK EMULATOR	Duc Pham-Minh	AIRBUS DEFENCE & SPACE, MAGISTER SOLUTIONS, VTT
13:00-14:00	LUNCH BREAK		
14:00-14:20	5G SATCOM NETWORKS FOR REMOTE SERVICES DEFINITION PHASE	Jochum Sluitman	NOKIA SOLUTIONS AND NETWORKS
14:20-14:40	RESOURCE MANAGEMENT TECHNIQUES FOR SATELLITE SYSTEMS BASED ON ACTIVE ANTENNA	Luciano D'Agostina	AIRBUS DEFENCE & SPACE, CNIT
14:40-15:00	FLEXIBLE RESOURCE ALLOCATION TECHNIQUES FOR NGSO CONSTELLATIONS	Marjorie Thary	THALES ALENIA SPACE
15:00-15:20	MISSION CONTROL CENTER (SPACEOPS)	Marjorie Thary	THALES ALENIA SPACE
15:20-15:40	SATELLITE BACKHAULING FOR ENHANCED TERRESTRIAL TELECOMMUNICATION (SATBETT-5G)	Daniel Zirmer	LASTING SOFTWARE
15:40-16:10	COFFEE BREAK		
16:10-16:30	SECURE AND RESILIENT DISTRIBUTED MULTI-TELEPORT, MULTI-OPERATOR CLOUD-BASED SERVICE DELIVERY PLATFORM (SR-C-SDP)	Caroline De Vos	SATADSL
16:30-16:50	TELECOMMUNICATION SATELLITE CONSTELLATION WITH SECURITY ASPECTS	Fabio Curreli, Kolja Auf der Heide	OHB



Room	ANTENNA & RF		
SLOT	ACTIVITY	PRESENTER	INDUSTRY
09:00-09:20	Q/V-BAND ANTENNA FOR AERONAUTICAL APPLICATIONS	Mario Albertini	AIRBUS DEFENCE & SPACE, DIMES UNIV DELLA CALABRIA
09:20-09:40	LOW PROFILE DUAL POLARIZATION ANTENNA FOR PROFESSIONAL MOBILE USER TERMINALS	Domenico Di Lanzo	AIRBUS DEFENCE & SPACE
09:40-10:00	INNOVATIVE BEAM-TRACKING USER TERMINAL ANTENNAS (BUTA) FOR LEO/MEO SATELLITE COMMUNICATION SYSTEMS	Tao Huang	SATRAKA
10:00-10:20	INSIGHT - AUTO-POINTING WIRELESS-POWERED CONSUMER TERMINAL FOR SATELLITE BROADBAND	Przemyslaw Gorski	VIASAT ANTENNA SYSTEMS
10:20-10:40	DEVELOPMENT AND DEMONSTRATION OF Q/V BAND ANTENNA TECHNOLOGY WITH ON-SATELLITE QUALIFICATION	Matt Gale	CALIAN
10:40-11:00	EMBEDDED ANTENNA ARRAYS IN SMALL UAV WING STRUCTURES	Jaco Verpoorte	NLR, ORANGE AIRCRAFT, BARNARD MICROSYSTEMS
11:00-11:30	COFFEE BREAK		
11:30-11:50	RF MEMS BASED KA BAND PHASED ARRAY ANTENNA PROTOTYPE	Andrew Christie	SOFANT TECHNOLOGIES
11:50-12:10	ACTIVE ANTENNAS FOR MEDIUM EARTH ORBIT TELECOM MISSIONS	Benoit Lejay	THALES ALENIA SPACE, RF MICROTECH
12:10-12:30	COST-EFFECTIVE HIGH-GAIN CUBESAT ANTENNAS	Nicholas Sesto Gorella	PICOSATS, ESTECO, UNIV OF TRIESTE
12:30-12:50	COMPACT DIPLEXERS FOR MULTIBAND USER TERMINALS	Luca Pelliccia	RF MICROTECH, SIAE MICROELETTRONICA
13:00-14:00	LUNCH BREAK		
14:00-14:20	RF FEEDS WITH INTEGRATED RF, MECHANICAL AND THERMAL FUNCTIONS	Antonie Calteau	SWISSTO12
14:20-14:40	DEVELOPMENT OF A LOW COST KA-BAND TRACKING ANTENNA FOR DATA RELAY APPLICATION	Philippe Loiselle	MDA
14:40-15:00	COMPACT BI-DIRECTIONAL AMPLIFIER FOR REMOTELY PILOTED VEHICLE APPLICATIONS (RPAS)	Suat Ayozy	HONEYWELL INTERNATIONAL, BRNO UNIV OF TECHNOLOGY
15:00-15:20	DEPLOYABLE ANTENNA STRUCTURES FOR SMALL SATELLITES	Claudio Ferrara	PROGETTI SPECIALI ITALIANI
15:20-15:40	GALLIUM NITRIDE (GAN) KA-BAND HIGH POWER AMPLIFIERS (HPA) FOR VSAT	Niels Kramer	ALTUM RF INTERNATIONAL
15:40-16:10	COFFEE BREAK		
16:10-16:30	SARA SYSTEM X-BAND ADVANCED PAYLOAD	Antonio Montesano	AIRBUS DEFENCE & SPACE



Room	PAYLOAD		
SLOT	ACTIVITY	PRESENTER	INDUSTRY
09:00-09:20	W- TO KA-BAND FREQUENCY CONVERTER	Francesco Vitulli	THALES ALENIA SPACE, UNIV II ROMA TOR VERGATA
09:20-09:40	SURFACE MOUNTABLE FILTERS FOR FREQUENCY CONVERTERS	Francesco Vitulli	THALES ALENIA SPACE
09:40-10:00	KA-BAND GAN LOW NOISE AMPLIFIER	Francesco Vitulli	THALES ALENIA SPACE, UNIV II ROMA TOR VERGATA
10:00-10:20	ACQUA (ADVANCED C TO Q BAND UPCONVERTER ASSEMBLY FOR VHVS SYSTEMS)	Paolo Farilla	THALES ALENIA SPACE
10:20-10:40	ON-BOARD INTERFERENCE GEO-LOCATION SYSTEM	Vicenzo Schena	THALES ALENIA SPACE
10:40-11:00	SINGLE-CHIP FREQUENCY CONVERTER	Francesco Scappaviva	MEC, THALES ALENIA SPACE
11:00-11:30	COFFEE BREAK		
11:30-11:50	ARTIFICIAL-INTELLIGENCE-ASSISTED PERFORMANCE AND ANOMALY DETECTION AND DIAGNOSTIC	Chiara Brighenti	SATE, THALES ALENIA SPACE, UNIV CA FOSCARI VENEZIA
11:50-12:10	A RAD-HARD ALL-DIGITAL FREQUENCY SYNTHESIZER	Hagen Marien	MAGICS INSTRUMENTS
12:10-12:30	KALQ PFM UNITS	Grunde Joheim	KONGSBERG DEFENCE & AEROSPACE
12:30-12:50	ACE CRITICAL DEVELOPMENT	Grunde Joheim	KONGSBERG DEFENCE & AEROSPACE
13:00-14:00	LUNCH BREAK		
14:00-14:20	MINIATURISED KU- AND KA-BAND FILTERS FOR ON-BOARD PROCESSOR-BASED PAYLOADS	Luca Pelliccia	RF MICROTECH, THALES ALENIA SPACE
14:20-14:40	MINIATURISED DIPLEXERS FOR L-BAND MOBILE MISSIONS	Luca Pelliccia	RF MICROTECH, THALES ALENIA SPACE
14:40-15:00	HIGH Q DIELECTRIC RESONATORS	Luca Pelliccia	RF MICROTECH, UNI OF PERUGIA, UNI OF PAVIA
15:00-15:20	AGILE CONVERTERS	Håkan Janson	BEYOND GRAVITY
15:20-15:40	OPTICAL COMMUNICATIONS FOR SCIENTIFIC MISSIONS AND THE DEEP SPACE GATEWAY	Gabriele Dona, Andrea Mourglia	THALES ALENIA SPACE
15:40-16:10	QUANTUM KEY DISTRIBUTION PROTOCOLS FOR SPACE APPLICATIONS	Prof. Paolo Villoresi	UNIVERSITY OF PADOVA
16:10-16:30	CARAMUEL QKD HOSTED PAYLOAD – PHASE A	Pedro Pinto Marin	HISPASAT
16:30-16:50	HIGH-POWER OPTICAL BEAM COMBINER	Matthias Heinzig	FRAUNHOFER GESELLSCHAFT
16:50-17:10	MINIATURIZED LASER-COMM TRANSMITTERS FOR SMALL SATELLITE PLATFORMS	Łukasz Dziechciarzyk	GOOCH & HOUSEGO LTD
17:10-17:30	MULTI USER (>20) ACQUISITION AND TRACKING (MUATS) SENSOR FOR OPTICAL COMMUNICATION TERMINALS	Andreas Hornig	JENA-OPTRONIK



Room	PLATFORM		
SLOT	ACTIVITY	PRESENTER	INDUSTRY
09:00-09:20	CONDUCTIVE PLASTICS FOR SATELLITE PARTS	Antti Kestilä	FMI, AALTO UNIV FOUNDATION, CARBODEON, MAKER3D, UNIV HELSINKI
09:20-09:40	DEVELOPMENT AND QUALIFICATION ACTIVITIES FOR RIT 2X POWER PROCESSING UNIT	Alejandro Fernandez	CRISA SA COMPUTADORAS REDES E INGENIERIA
09:40-10:00	INDUSTRIALIZED DIGITALLY CONTROLLED ACTUATOR (INDICATOR)	Christine Schwarzwaelder	ROCKWELL COLLINS DEUTSCHLAND
10:00-10:20	STAR TRACKER BASED ON FAINT STAR PREDEVELOPMENT FOR TELECOMS	Dan Bhanderi	TERMA
10:20-10:40	CONSTANT CONDUCTANCE HEAT PIPE WITH EMBEDDED LOOP EVAPORATOR - ADVANCED CONTROL LOOP QUALIFICATION	Javier Martin Portugues	IBERESPACIO
10:40-11:00	SPREAD SPECTRUM DEMODULATOR	Grunde Joheim	KONGSBERG DEFENCE & AEROSPACE
11:00-11:30	COFFEE BREAK		
11:30-11:50	MINI HOLD-DOWN RELEASE ACTUATOR	Florian Guenther	SPACE-LOCK
11:50-12:10	DIRECT PRINTING OF MECHANICAL AND THERMAL SENSORS ONTO SPACECRAFT HARDWARE	Sebastjan Glinsek	LUXEMBOURG INSTITUTE OF SCIENCE & TECHNOLOGY, LUXSPACE
12:10-12:30	ACTUATOR WITH HIGH RESOLUTION MAGNETIC BRAKING	Roland Holzbauer	AAC
12:30-12:50	VERY HIGH EFFICIENCY BATTERY DISCHARGE REGULATOR	Søren Kjærulff Christensen	TERMA
13:00-14:00	LUNCH BREAK		
14:00-14:20	PRE-DEVELOPMENT OF PLATFORM ELECTRONICS	Andreas Billström	BEYOND GRAVITY
14:20-14:40	KA-BAND TTC ANTENNA	Andreas Billstrom	BEYOND GRAVITY
14:40-15:00	OPTICAL WIRELESS ON-BOARD DATA TRANSMISSION FOR TELECOM SPACECRAFT	Ernesto Ciaramella	SCUOLA SUPERIORE SANT' ANNA, THALES ALENIA SPACE
15:00-15:20	AVIONICS DEVELOPMENT ON NEW ARM-BASED SYSTEMS ON CHIP	Philippe Charbonnel	THALES ALENIA SPACE
15:20-15:40	SMA COMPATIBLE FAST LOCKING CONNECTOR	Loris Marchignani	PROGETTI SPECIALI ITALIANI
15:40-16:10	COFFEE BREAK		
16:10-16:30	FLEXIBLE COMPACT ARRAY (FCA) - STACK ROTATION RELEASE MECHANISM	Jos De Hoog	AIRBUS DEFENCE & SPACE
16:30-16:50	SMALLSAT SOLAR ARRAY SUBSTRATE TECHNOLOGY	Jos De Hoog	AIRBUS DEFENCE & SPACE
16:50-17:10	AUGMENTED REALITY FOR SATCOM ASSEMBLY, INTEGRATION AND TESTING	Ines Cadilha	LUSOSPACE



Room **INVESTOR FORUM**

SLOT	ACTIVITY TITLE	FORMAT	SPEAKER	ROLE	ORGANISATION
11:30-12:20	Strategic investment into the European Space Sector	Round table	<b>Emily Newton</b>	Telecoms Strategy and Delivery Lead – Emerging Markets, UKSA ( <b>Moderator</b> )	
			Matteo Cascinari	General Partner	Primo Ventures
			Giacomo Gatto	Associate Partner	McKinsey & Co.
			Mattia Pianorsi	SEE Lab Researcher	SDA Bocconi
			Thanh-Long Huynh	Chief Executive Officer	QuantCube Technology
12:20 – 13:00	Impact investors in the European Space Sector	Fireside chat	Daniel Valenzuela	Head of Investor Relations & Impact	World Fund
			Thanh-Long Huynh	Chief Executive Officer	QuantCube Technology
			Gonzalo Martin de Mercado	Business Development Officer	European Space Agency
			Fabio Ranghino	Partner, Head of Sustainability & Strategy	Ambienta SGR



Room	ENERGY FORUM ON SPACE FOR SUSTAINABLE AND CLEAN ENERGY				
SLOT	ACTIVITY TITLE	FORMAT	SPEAKER	ROLE	ORGANISATION
9:00-9:05	Energy Forum - Opening session		<b>Maria Zaretskaya</b>	Business Applications Officer, European Space Agency ( <b>Moderator</b> )	
9:05-9:20	Welcoming speech - Intro to ESA BASS, The Energy Task Force	Keynote	Rita Rinaldo	Head of Projects and Studies Implementation Division	European Space Agency
			Davide Coppola	Head of Space Applications Initiatives - BASS	European Space Agency
9:20-10:30	Session 1: The relevance of innovation and cooperation in the Energy Sector	Presentations + Panel discussion	<b>Beatrice Barresi</b>	Business Applications Officer, European Space Agency ( <b>Moderator</b> )	
			Mark McGranaghan	Vice President of Technology Innovation	Electric Power Research Institute (EPRI)
			Tommaso Maschera	Ventures Director	Plug and Play
			Bhuyan Ranjan	Project Manager, Strategist at TenneT TSO NL	ENTSO-E
			Alfonso Martinez	Non-Executive Director - AREG, Senior Lecturer in Chemical Engineering, Centre for Energy Transition - University of Aberdeen	Aberdeen Renewable Energy Group (AREG)
10:30-11:00	Session 2: Industry testimonials	Presentations	<b>Roberta Mugellesi Dow</b>	Business Applications Officer, European Space Agency ( <b>Moderator</b> )	
			Ciro Lanzetta	CTO	i-EM
			Thomas Heege	CEO	EOMAP
			Gimena Escariz	Account Executive - LATAM & Southern Europe	LiveEO
11:00 - 11:30	COFFEE BREAK				
11:30-12:45	Session 3: The challenges of the energy sector and future trends	Presentations + Panel discussion	<b>Asimina Syriou</b>	Business Applications Officer European Space Agency ( <b>Moderator</b> )	
			Anne-lise Laurain	Innovation Coordinator Europe	Electric Power Research Institute (EPRI)
			Sakshi Circar	Technology Manager - Robotics and Autonomous Systems	Net Zero technology Centre (NZTC)
			Debi Prasad Dash	Executive Director	India Energy Storage Alliance (IESA)
			Oscar Del Castillo Granada	Project Manager - SATCOM	Elia Group
12:45 – 13:00	Closing remarks		<b>Maria Zaretskaya</b>	Business Applications Officer, European Space Agency ( <b>Moderator</b> )	



Room **5G/6G FORUM & METAVERSE**

SLOT	ACTIVITY TITLE	FORMAT	SPEAKER	ROLE	ORGANISATION
09:30-10:30	The 5G Non-Terrestrial Network Standardisation Journey	Interview / QA from Metaverse	Stefano Cioni	Telecommunications System Engineer	European Space Agency
10:15-11:00	Terrestrial Network Infrastructure and Satellite Constellation	Interview / QA from Metaverse	Carlo Filangieri	CEO	Fibercop
11:00-11:30	COFFEE BREAK				
11:30-13:00	Virtual tour of ECSAT and ESTEC 5G / 6G Hubs	Metaverse	Natalie Alves	5G / 6G Hub Coordinator	European Space Agency

Room **SAFETY AND SECURITY FORUM**

SLOT	ACTIVITY TITLE	FORMAT	SPEAKER	ROLE	ORGANISATION
9:00 – 11:00	Space Systems for Safety and Security (4S) programme outlook	Keynote	Christophe Allemand	4S Strategic Programme Line Manager	European Space Agency
	Market perspectives	Keynote	Harriet Brettle	Head of Market Analysis and Business Intelligence	European Space Agency
	Security challenges and emerging satellite communications solutions for Safety and Security	Round table	Mathieu Bailly	CYSEC VP and CYSAT Director	CYSEC
			Christine Leurquin	Director of Strategy for European Institutions, Belgium and Luxembourg	RHEA Group
			Anders Bjørnevik	Project Manager (VDES)	Kongsberg Discovery
	Giovanna Scardapane	Project Manager in Geo-information RPAS solutions	Telespazio		
Open forum: Next Safety and Security satellite communications solutions	Wall of Ideas	All attendees!			



## OPTICAL FORUM

Room	OPTICAL FORUM				
SLOT	ACTIVITY TITLE	FORMAT	SPEAKER	ROLE	ORGANISATION
9:00 – 9:05	Optical Forum Introduction	Intro	Christopher Vasko	Quantum and Innovation Engineer	European Space Agency
9:05 – 9:25	The optical Satcom Market - The Global Context	Keynote	Harriet Brettle	Head of Market Analysis and Business Intelligence	European Space Agency
9:25 – 9:45	Optical & Quantum Communications - Overview on ESA's ScyLight Programme	Keynote	Harald Hauschildt	ScyLight Strategic Programme Line Manager	European Space Agency
9:45 – 11:00	Stakeholders Panel - Optical and Quantum Communication	Round table	Kathelijne Beenen	Advisor Satellite Applications	Netherlands Space Office
			Alberto Tuozi	Relations with EU and EU Member States unit responsible	Italian Space Agency
			Elisabetta Rudi-Gond	CEO	Thales Alenia Space Switzerland
			Pedro Pinto	Head of Broadband Services	Hispasat