Communication

BUSINESS
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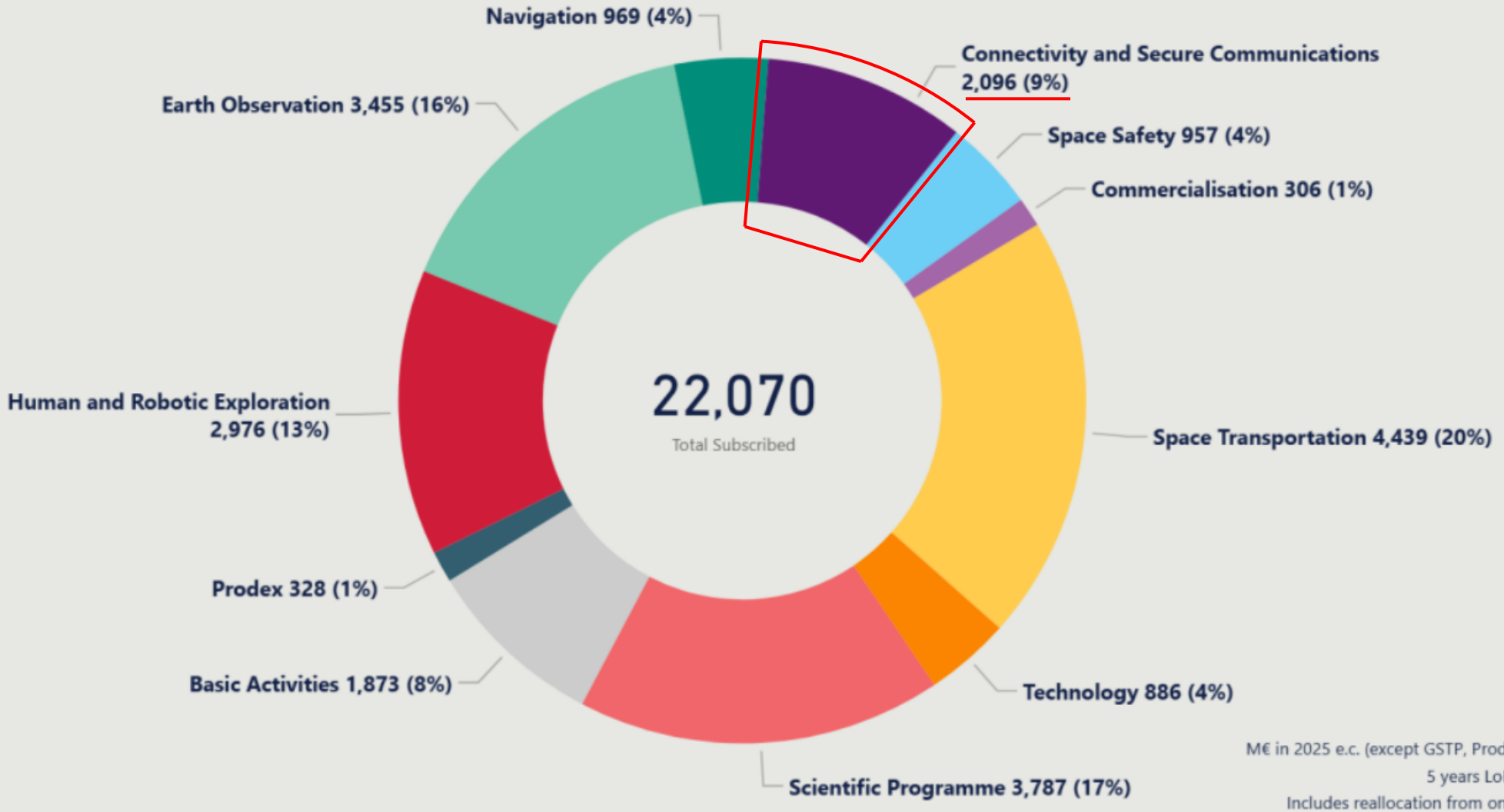
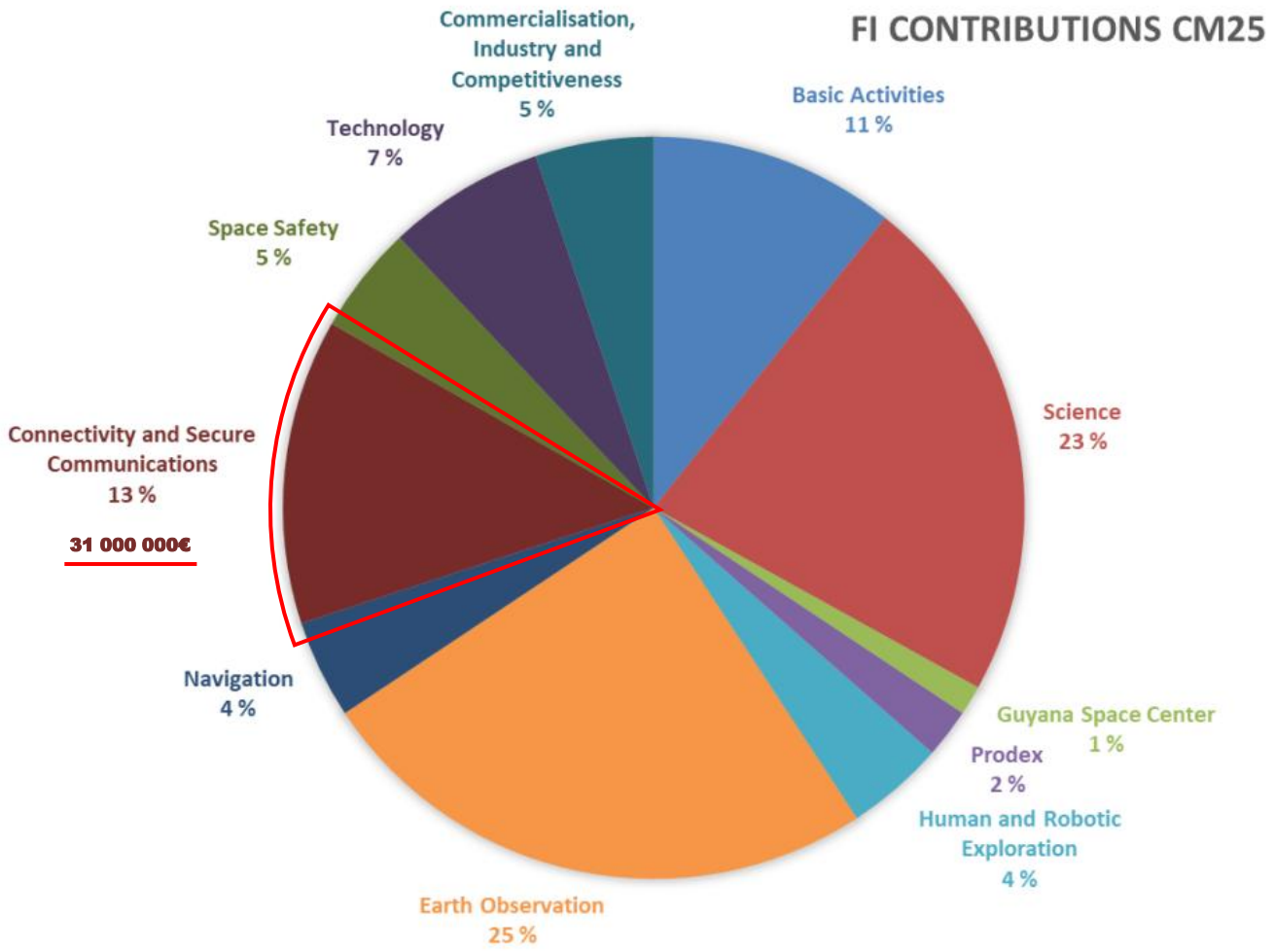
Olavi Keränen, ESA/JCB Delegate
Space Business Forum, 27.2.2026

TOTAL CONTRIBUTIONS PER DOMAIN



M€ in 2025 e.c. (except GSTP, Prodex & LoR in c.e.c.)
5 years LoR and 3 years CSG
Includes reallocation from on-going of 147 M€

FINNISH SUBSCRIPTIONS 2026-2028



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COMMUNICATION SUBSCRIPTION BREAKDOWN

Programme/Programme Line	Subscription
Future Preparation ➢ Plan ahead activities of the ARTES programme	550 000€
Industrial Competitiveness ➢ Generically improve the capabilities and competitiveness of the industry	7 000 000€
Space for 5G/6G and Sustainable Connectivity ➢ Convergence of satellite and terrestrial communication networks	11 000 000€
Optical & Quantum Communication – ScyLite ➢ Intersatellite communication, atmospheric transmission, and quantum key excange	4 000 000€
Space Systems for Safety and Security ➢ Resilient systems for safety and security from space	3 000 000€
Secure Connectivity ➢ ESA Programme Related to IRIS^2: user terminals, Low-LEO	5 000 000€

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OPEN CALLS – COMMUNICATION AND SECURE CONNECTIVITY (1)

Tender Action Number	Activity Number	Title	Tender Type	Closing Date
1-12702	1000042500	BEYOND-EARTH COMMUNICATION NETWORK (ARTES 4.0 SL SPL 3A.215) EXPRO+ RE-ISSUE	Open Competition	03/04/2026
1-13242	1000045338	BEYOND 5G HUB OVER-THE-AIR TECHNOLOGY VALIDATIONS (ARTES 4.0 5G/6G 3F.063) - EXPRO+	Open Competition	07/05/2026
1-12712	1000042509	POINTING AND ACQUISITION SYSTEM FOR BEYOND-EARTH OPTICAL COMMUNICATION (ARTES 4.0 SL SPL 5H.004) EXPRO+ - RE-ISSUE	Open Competition	10/04/2026
1-12943	1000043680	INTELLIGENT SIGNAL MONITORING UNIT FOR PAYLOAD EQUIPMENT AUTONOMY, HEALTH MONITORING, AND RECONFIGURATION (ARTES AT 5C.530) - EXPRO PLUS (RE-ISSUE)	Open Competition	27/04/2026
1-12696	1000042540	MOBILE NETWORK SECURITY ASSESSMENT EQUIPMENT FOR 5G NON-TERRESTRIAL NETWORKS(NTNS) (ARTES 4.0 SPL 4S 3D.033) EXPRO+ - RE-ISSUE	Open Competition	27/02/2026
1-13202	1000045153	5G SPACE USER TERMINAL (ARTES 4.0 SPL 5G/6G 7A.080) - EXPRO+	Open Competition	01/05/2026
1-12968	1000043912	6G NETWORK EMULATOR FOR NON-GEOSTATIONARY SATELLITE CONSTELLATION (ARTES 4.0 SPL 5G/6G 3F.043) - EXPRO PLUS - RE-ISSUE	Open Competition	06/03/2026
1-12167	1000039673	AGILE ULTRA HIGH FREQUENCY (UHF) TO KU-BAND TRANSCEIVER FOR COMMUNICATIONS IN CRISIS SITUATIONS (ARTES 4.0 SPL 4S 7C.092) - RE-ISSUE	Open Competition	19/03/2026
1-12927	1000043666	SCALABLE PROCESSOR ARRAY FOR DIGITAL BEAMFORMING (ARTES AT 5C.526) - EXPRO PLUS - RE-ISSUE	Open Competition	04/03/2026
1-12677	1000042521	MICROLENS ARRAYS FOR INCREASED SENSITIVITY OF CRYOGENICALLY COOLED DETECTORS FOR OPTICALAND QUANTUM COMMUNICATION LINKS (ARTES 4.0 SL SPL 6C.076) EXPRO+ - RE-ISSUE	Open Competition	25/02/2026
1-12571	1000041715	DEMISABLE ELECTRIC PROPULSION THRUSTER FOR LOW EARTH ORBIT TELECOM CONSTELLATION SATELLITES (ARTES AT 4B.186) - RE-ISSUE	Open Competition	27/02/2026
1-13103	1000045011	DIRECT COOLING SYSTEM FOR HIGH PERFORMANCE, HIGH POWER (300W CLASS) TELECOM SIGNAL PROCESSING COMPONENTS (ARTES AT 4D.087) - EXPRO+ RE-ISSUE (1-12828)	Open Competition	16/03/2026
1-12733	1000042657	SPACE DEBRIS COMPLIANT MICROSATELLITE PLATFORM FOR LARGE SATCOM CONSTELLATIONS (ARTES AT 4A.104) - RE-ISSUE	Open Competition	03/03/2026
1-12980	1000044072	REGENERATIVE 5G NEW RADIO PHYSICAL LAYER IP (ARTES 4.0 SPL 5G/6G 5C.532) - EXPRO+RE-ISSUE	Open Competition	06/02/2026
1-12705	1000042555	AUTOMATED PHASED ARRAY FACTORY CALIBRATION FROM RADIATION PATTERN USING ARTIFICIAL INTELLIGENCE (ARTES AT 7B.082) EXPRO+ RE-ISSUE	Open Competition	06/03/2026
1-12936	1000043714	SECURE SOFTWARE DEFINED NETWORKING MODULE FOR SPACE NETWORKS (ARTES 4.0 SPL 4S 3D.034) EXPRO+ RE-ISSUE	Open Competition	13/03/2026
1-13078	1000044833	PROTECTION OF SATELLITE COMMUNICATIONS GROUND SEGMENT FROM INTERFERENCE/JAMMING INITIATED FROM LEO CONSTELLATION(S) (ARTES 4.0 SPL 4S 3D.030) EXPRO+	Open Competition	10/03/2026

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OPEN CALLS – COMMUNICATION AND SECURE CONNECTIVITY (2)

Tender Action Number	Activity Number	Title	Tender Type	Closing Date
1-13052	1000044519	ACTIVE ANTENNA FOR DIRECT SATELLITE-TO-DEVICE 5G/6G COMMUNICATIONS IN FREQUENCY RANGE 1 (FR 1) (ARTES 4.0 SPL 5G/6G 5B.253) - EXPRO+	Open Competition	27/02/2026
1-13025	1000043668	TRANSMIT AND RECEIVE DUAL POLARIZATIONACTIVE ANTENNA BASED ON SCALABLE TILE ASSEMBLYFOR GEOSTATIONARY SATELLITES (ARTES AT 5B.248) - EXPRO+	Open Competition	10/03/2026
1-12996	1000043715	IN-ORBIT SECURE TELECOM LABORATORY (ARTES 4.0 SPL 4S 3E.031)	Open Competition	06/04/2026
1-12964	1000043683	HIGH-ENERGY SOLID-STATE BATTERY CELL FOR SATCOM APPLICATION (ARTES AT 4F.173) - EXPRO+	Open Competition	06/03/2026
1-12966	1000043899	TIME DIVISION DUPLEXING (TDD) KA-BAND IN-ORBIT EXPERIMENT FOR NGSO 5G BROADBAND SERVICES (ARTES 4.0 SPL 5G/6G 3E.029)	Open Competition	16/01/2026
1-12933	1000043713	SECURE SEGREGATED PAYLOAD OPERATIONS GROUND SEGMENT SERVICES (ARTES 4.0 SPL 4S 6A.096) EXPRO+	Open Competition	25/02/2026
1-12829	1000043068	SATELLITE COMMUNICATION TEST-BED ON-BOARD THE INTERNATIONAL SPACE STATION (ARTES AT 3A.118) (ON DELEGATION REQUEST) RE-ISSUE	Open Competition	27/03/2026
1-12767	1000042515	LASER TERMINALS INTEROPERABILITY TESTBED (ARTES 4.0 SL SPL 5H.011) - EXPRO PLUS	Open Competition	09/03/2026
1-12699	1000042508	LOW VIBRATION AND ANGULAR MOMENTUM LASER TERMINAL (ARTES 4.0 SL SPL 5H.003) EXPRO+	Open Competition	16/01/2026
1-12711	1000042517	DRONE-BASED VALIDATION OF OPTICAL GROUND STATIONS (ARTES 4.0 SL SPL 6C.072) EXPRO+	Open Competition	27/02/2026
1-12679	1000042506	PHOTONIC ANALOGUE TO DIGITAL CONVERSIONFOR FUTURE HIGH THROUGHPUT TELECOMMUNICATIONPAYLOADS (ARTES 4.0 SL SPL 5F.053) EXPRO+	Open Competition	30/03/2026
1-12678	1000042518	FAST ADAPTIVE OPTICS SYSTEMS USING ARTIFICIAL INTELLIGENCE FOR OPTICAL COMMUNICATION (ARTES 4.0 SL SPL 6C.073) EXPRO+	Open Competition	30/03/2026
1-12685	1000042545	RETURNABLE TESTBED FOR IN-ORBIT MANUFACTURING PROCESSES FOR LARGE STRUCTURES O TELECOM SATELLITES (ARTES AT 3E.027)	Open Competition	12/03/2026
1-11841	1000037570	5G REGENERATIVE PROCESSOR AND ASSOCIATED SYSTEM TESTBED (ARTES SPL 5G/6G 5A.083)	Open Competition	13/01/2025
1-12347	1000040211	DVB/3GPP HYBRID TERMINAL FOR BROADBAND APPLICATIONS (ARTES 4.0 SPL 5G/6G 7B.078)	Open Competition	25/02/2026
1-12256	1000039684	5G AUTOMOTIVE MAKERSPACE (ARTES 4.0 SPL 5G/6G 3F.010)	Open Competition	17/03/2026
4-40009	1000037569	CIVIL SECURITY FROM SPACE PROGRAMME - STANDARD CALL FOR PROPOSAL	Call for Proposals	15/03/2026

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