United Nations/United Arab Emirates High Level Forum (HLF) Space as a driver for socio-economic sustainable development 06-09 November 2017, Dubai, United Arab Emirates

Space as an Arena for Innovation, Integration and Investment The 3S - ROSA Strategy

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Romanian Space Agency - ROSA

• ROSA - National Space Agency established 1995

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- Public organization in the system of the Ministry responsible for Research and Technology
- Representative and Coordinator of space activities in Romania
- Financing agency for research in Space, Aeronautics and Security; STAR Programme (2012 - 2019);
- Coordinator (2004 p) of the Inter-Ministerial (Inter-Agency) Group for Security Research; Public authority responsible (APR) for specific national critical infrastructures; CPA for Galileo PRS;
- Developer and integrator of its own RTD programmes by the ROSA Research Centre (RRC)
- Participant in 17 major ESA programmes, including robotic and human exploration, launcher and science missions

Romanian Space Agency - ROSA

ROSA - national representative for:

- European Space Agency (ESA)
 - Romania the 2nd former socialist country admitted in ESA (2011), first ESA agreement in 1993
- European Union: GNSS Supervisory Authority, GMES Committee, FP7 and Horizon 2020 programme committees for Space, Security research, Aeronautics and Galileo, HSPG, Space Working party, Space Council), GSA - PRS Authority
- UN COPUOS (former chair STS and Committee), OOSA SPIDER
- NATO and EDA specific issues
- IAF, IAA, COSPAR, IISL, GEO, Eurisy, ESPI, other bilateral agreements with national agencies (NASA, CNES, DLR, ASI, China, Ukraine, others).



National Space Strategy

- Defined by means of the RTD policy, with effects on both academia and industry.
- Three constant objectives since the 90's:
 - Participation to international space missions and programmes (in particular ESA)
 - Development of specific national projects
 - Capacity building at national level

Presently ruled by:

rosa

- Romanian Research, Development and Innovation Strategy 2014 2020
- National RTD Plan 2015-2020 (extended to June 2014)
- Law no 262/2011 for the ratification of ESA accession and the STAR Programme
- Romania EU Partnership Agreement 2014 2020: SPACE RO Smart Specialisation

*The three S - NEW

* Science & Technology

- Science and Exploration
- * Field of applications for all areas of science
- * Driver for most technology domains

* Services

- * Telecommunications, Earth observation, PNT,
- Integrated applications: precision farming, telemedicine, disaster management, meteorology,

* Security

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- * Planetary defense, Space weather, Space traffic management (SSA, SST)
- * Disaster management, prevention, recovery
- * Peacekeeping, arms control, illegal trafficking, de-mining, cybersecurity
- * Monitoring of global issues

* The three horizontals

* Human resources

- * Higher education
- * Fundamental for space developments

* Industry

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- * Entities with capabilities of involvement in longer term and higher technology programs, as aerospace, military, information technology;
- * Providing sustainability and independence of programs
- * Essential for space economy and space society

* International Cooperation

- * The major need of all space programs, including the largest ones
- Important for providing the stability regarding national political and financial van conditions - international law ensures the priority of international obligations
- * Most important driver for space diplomacy and space accessibility



* POWER in the post-industrial society

- * Technology
- * Enterprise Innovation
- * Human resources
- * Financial capabilities
- * Geographic resources

* SPACE - contributor to all elements of power! rosa

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Thank you for your attention !



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