

UN COPUOS
Scientific and Technical Subcommittee
Fifty-sixth session



**Regional Educational Centre
for Space Science and
Technology Affiliated with UN**

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State Space Corporation "Roscosmos"

Russia is one of the leading spacefaring nations



Rocket & space industry
Rocket & spacecraft manufacturing



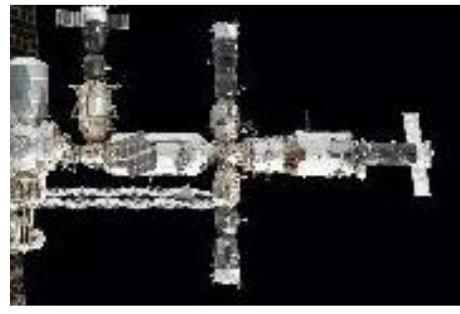
Launching services



Cosmodromes:
Plesetsk,
Baikonur (rent),
Vostochny



Human spaceflights



Ground stations and facilities



Ground test facilities



Receiving and primary data processing



Design and R&D



Planetary exploration and astrophysics



Russian Federal Space Programme Results and Prospects:

2015

SPACECRAFT

Communication, broadcasting and relay:	32
Earth observation:	8
Fundamental space research:	1

HUMAN FLIGHTS

ISS RS modules: **5**

Total 128 SC launched in 10 years

Formation and maintenance of future orbital spacecraft constellations, providing services for the socio-economic development, scientific researches and international cooperation, emergency protection, implementation of human spaceflight program, designing and producing launch vehicles and equipment, laying scientific and technical groundwork for advanced space systems.

Groundwork has been laid for development of a new - generation manned transport complex as a part of the complex of manned spacecraft for missions to the Earth orbit and beyond.

The first stage of the construction of the supporting infrastructure of the Vostochny cosmodrome has been almost completed.

2025

SPACECRAFT

Communication, broadcasting and relay:	41
Earth observation:	23
Fundamental space research:	4

HUMAN FLIGHTS

ISS RS modules: **8**

Total 155 SC launched in 10 years

The first (robotic) phase of the lunar program includes 3 missions: Luna-Glob (Luna 25), Luna-Resurs-1 (Luna 26), Luna-Resurs-1 (Luna 27).

Space Launch Complex for light, medium and heavy class LVs at Vostochny. Starting development of prospective LV (including super-heavy class).

The state party of fundamental international space law Instruments:

- 01 The Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, including the Moon and Other Celestial Bodies
- 02 The Convention on International Liability for Damage Caused by Space Objects
- 03 The Agreement on the Rescue of Astronauts, the Return of Astronauts and the Return of Objects Launched into Outer Space
- 04 The Convention on Registration of Objects Launched into Outer Space

Fundamental importance for all space actors – both states, international organizations and private entities

ROSCOSMOS human capacity-building

98 enterprises **200 000** employees



ROSCOSMOS ACADEMY

- Space industry training center established in 2017
- Internal provider for ROSCOSMOS human capacity building

ROSCOSMOS and Russian universities: appropriate departments and educational programs in 23 main universities

International space law educational programs:



MGIMO

The international space law course is conducted at International Law School



Peoples' Friendship University of Russia

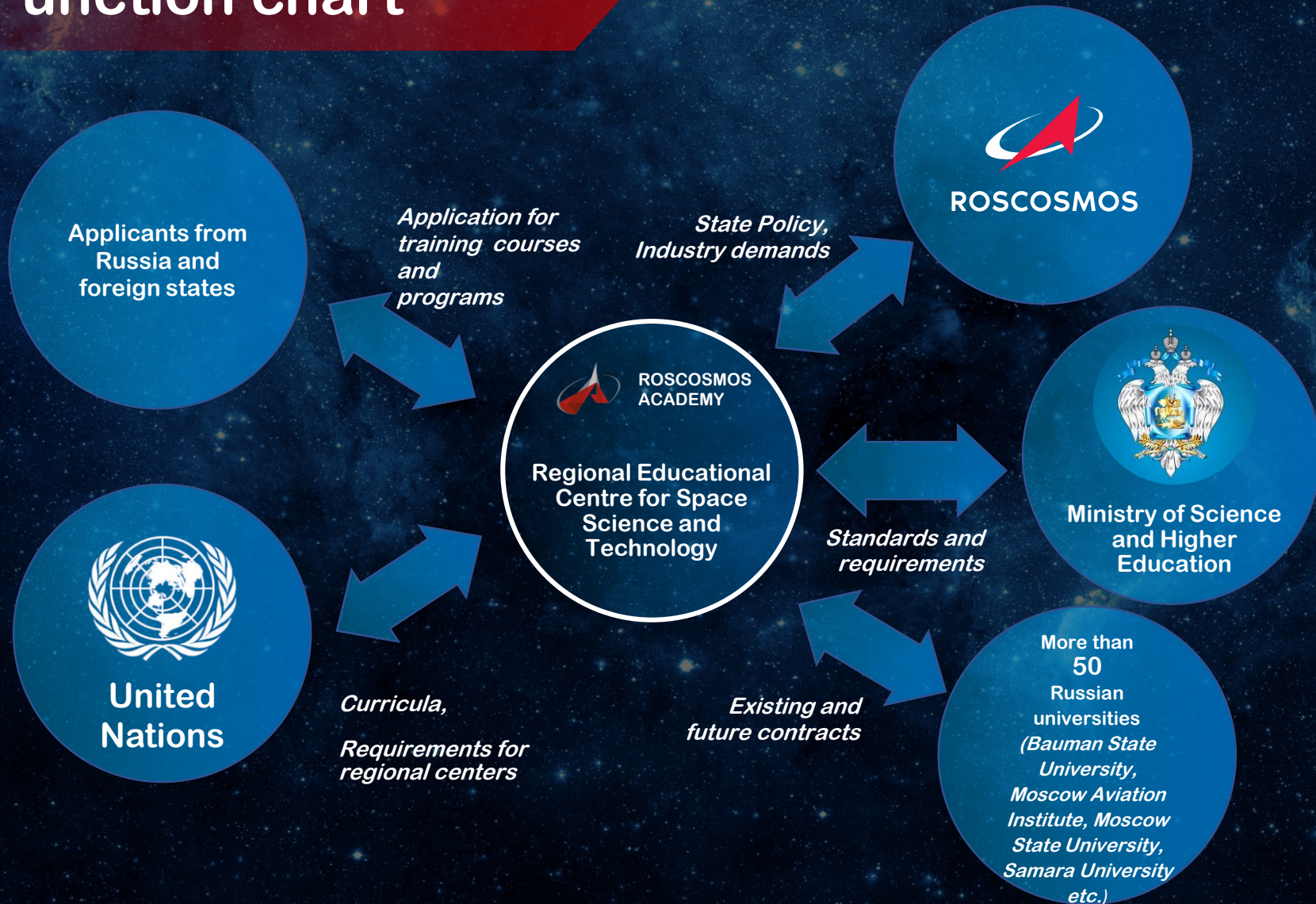
The Department of International Law of the Peoples' Friendship University of Russia provides a course on international space law



Samara University

Establishing a Research Institute on International Space Law

Function chart



Key objectives

Building a community of skilled specialists in the field of international space activities and international space law

Creating a mechanism for exchange of expert opinions on key issues of international space law improvement

Searching for common ground on areas of concern in the field of international space policy and law

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Key steps



Launching the center
operator –
ROSCOSMOS
Academy



Examination and analysis
of educational programs,
consolidation of key
components



Signing of relevant
agreements with Russian
universities



Drafting educational plans and
training programs



Development of funding
mechanism

First results

The analysis of existing Russian educational programs in the field of international space law and the assessment of possibilities of their extending have been conducted

01

Possible directions for the implementation of specialized educational programs have been discussed with relevant departments of the Ministry of Science and Higher Education

02

The draft concept on center operator (ROSCOSMOS Academy) activities has been developed

03

Benefits for key stakeholders: What each stakeholder will get?

UNOOSA

- A reliable partner for UNOOSA - affiliated Regional Centre located in European part of the world and supported by one of the key players of space industry – ROSCOSMOS
- Reinforcement of the existing network of regional centres

Ministry of Science and Higher Education

- Opportunity to ensure transparency of state policy in space education and science
- Opportunity to use internationally recognized standards for curricula and training materials

State Space Corporation “Roscosmos”

- Transparency of state policy in space field
- Additional way to engage with potential partners from emerging countries
- Promotion of space technologies

Higher Educational Institutions

- Opportunity to take part in the development of training courses without involvement in administrative and organizational issues
- Cooperation with international partners (universities, space agencies etc.)

Potential participants

- Qualified academic and administrative staff, excellent facilities for education

Thank you for your kind attention!



ROSCOSMOS