



ROSCOSMOS

International Workshop
“Space Policy and Law for Social Development in Asia”

Recent developments of space policy in the Russian Federation

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Space policy governance structure in Russia



INTERNATIONAL SPACE LAW

4 Space Treaties (except for the 1979 Moon Agreement) + generally accepted principles of international law

23 framework intergovernmental agreements

50+ multilateral and bilateral agreements

30+ interagency agreements



**Constitution
of the Russian
Federation
(1993)**

FEDERAL LAWS and CODES

On Space Activities (1993, as amended)

On navigation (2009, as amended)

On licensing of specific activities (2011)

Civil, Customs, Tax, Air, Land, Penal, Administrative, etc. Codes

REGULATIONS BY THE PRESIDENT AND THE GOVERNMENT

On the Federal Space Programme of Russia for 2006-2015 (2005)

On the Federal Task Programme “Global Satellite Navigation System” for 2012-2020 годы (2012)

On the maintenance, development and use of the GLONASS system (2008)

On the equipment of transport vehicles with GLONASS/GPS means (2008)

REGULATIONS BY THE FEDERAL MINISTRIES AND AGENCIES

Roscosmos:

- **Administrative regulation on licensing of space activities (2012)**
- **Administrative regulation on registration of space objects (2010)**
- **Administrative regulation on cosmonaut selection and training (2010)**

Ministry of Transport:

-Order on equipment of transport vehicles with GLONASS or GLONASS/GPS means (2010)

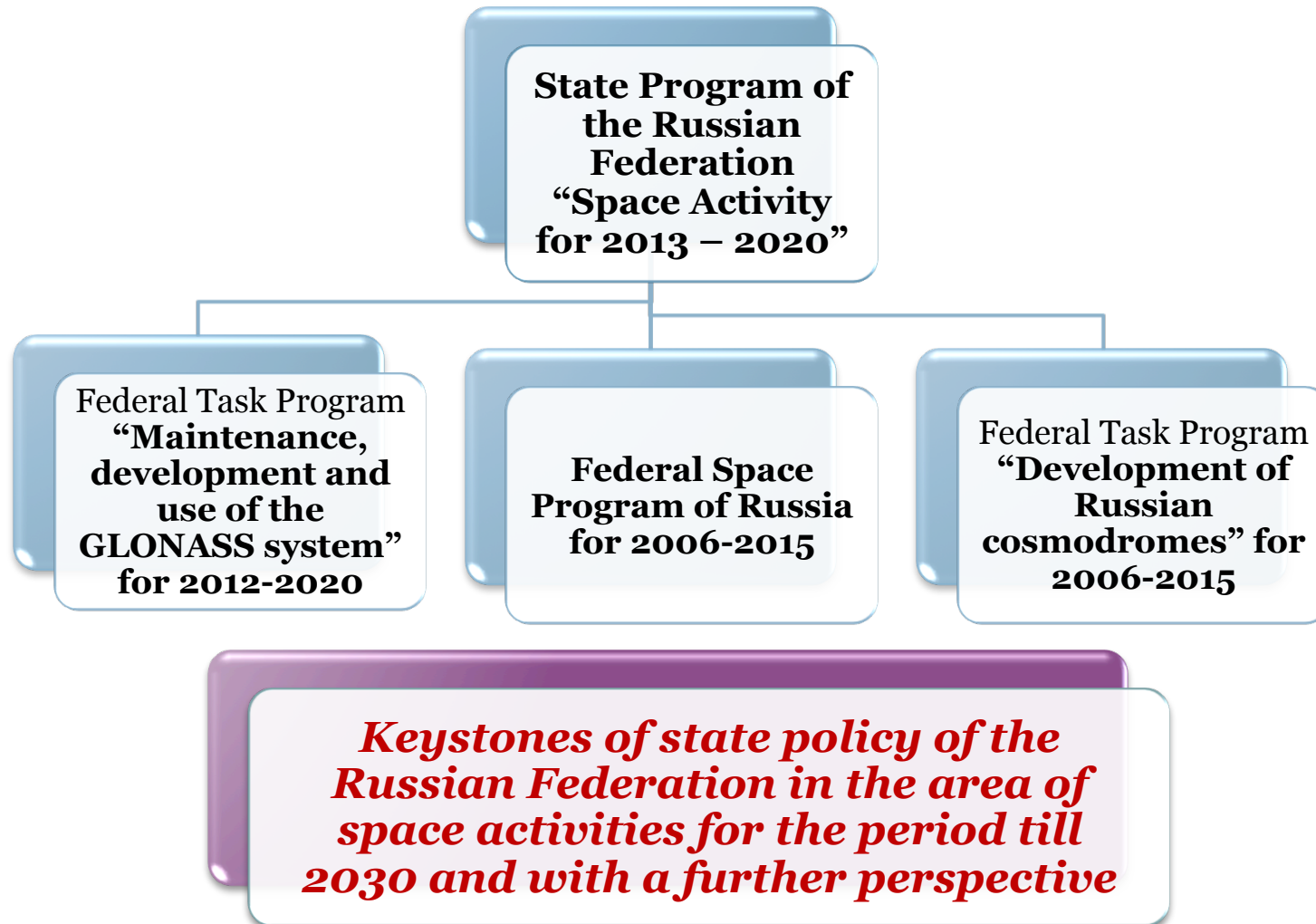
Ministry of Economic Development:

-Order determining the geodetic and cadastre equipment to be equipped with GLONASS or GLONASS/GPS means (2012)

The general aim of the Russian space policy is “development of the economy, science, technology, strengthening of defence and security of the Russian Federation and further widening of international cooperation”.

(Preamble of the *1993 Law of the Russian Federation*
“*On Space Activities*”)

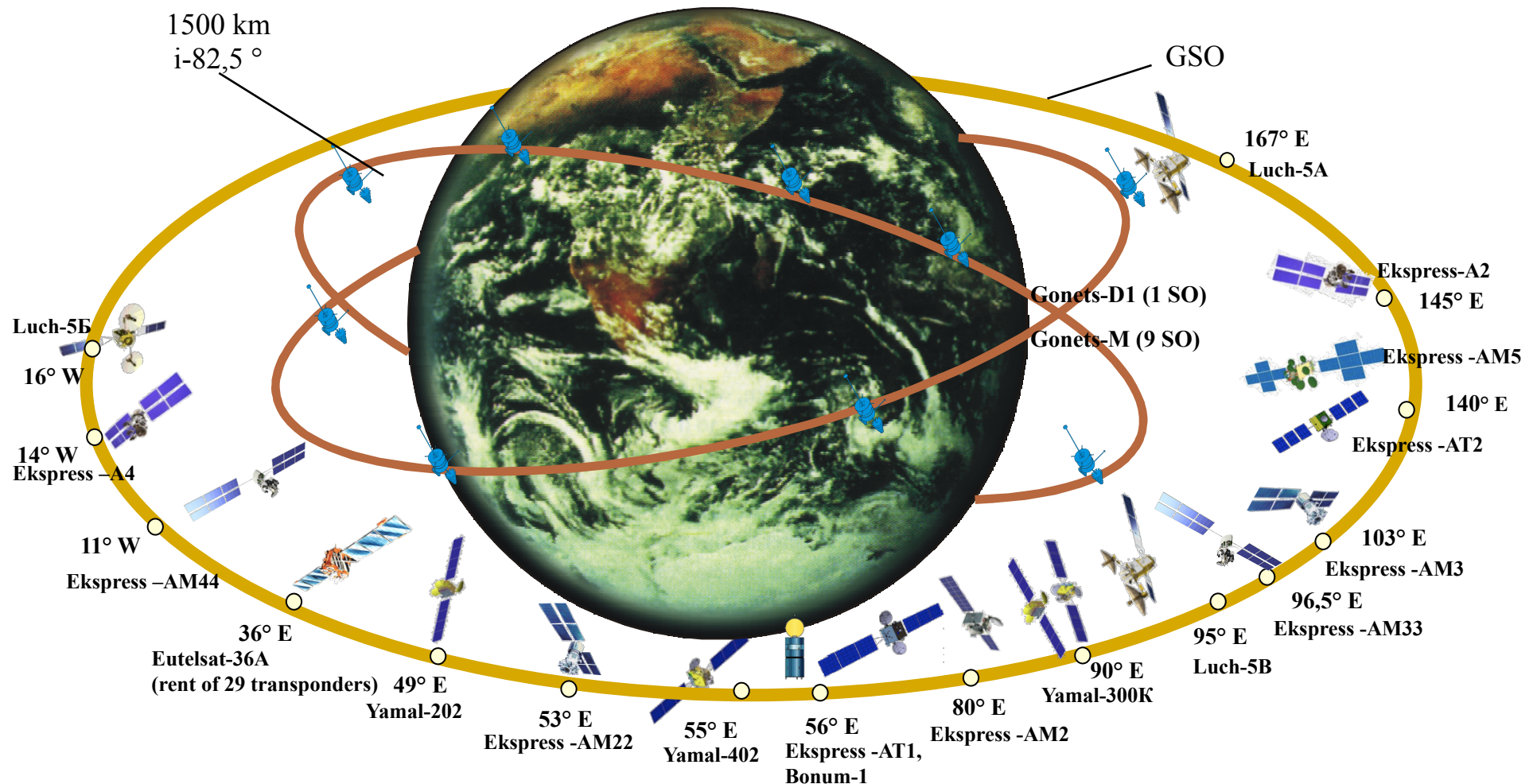
Main space policy documents of Russia



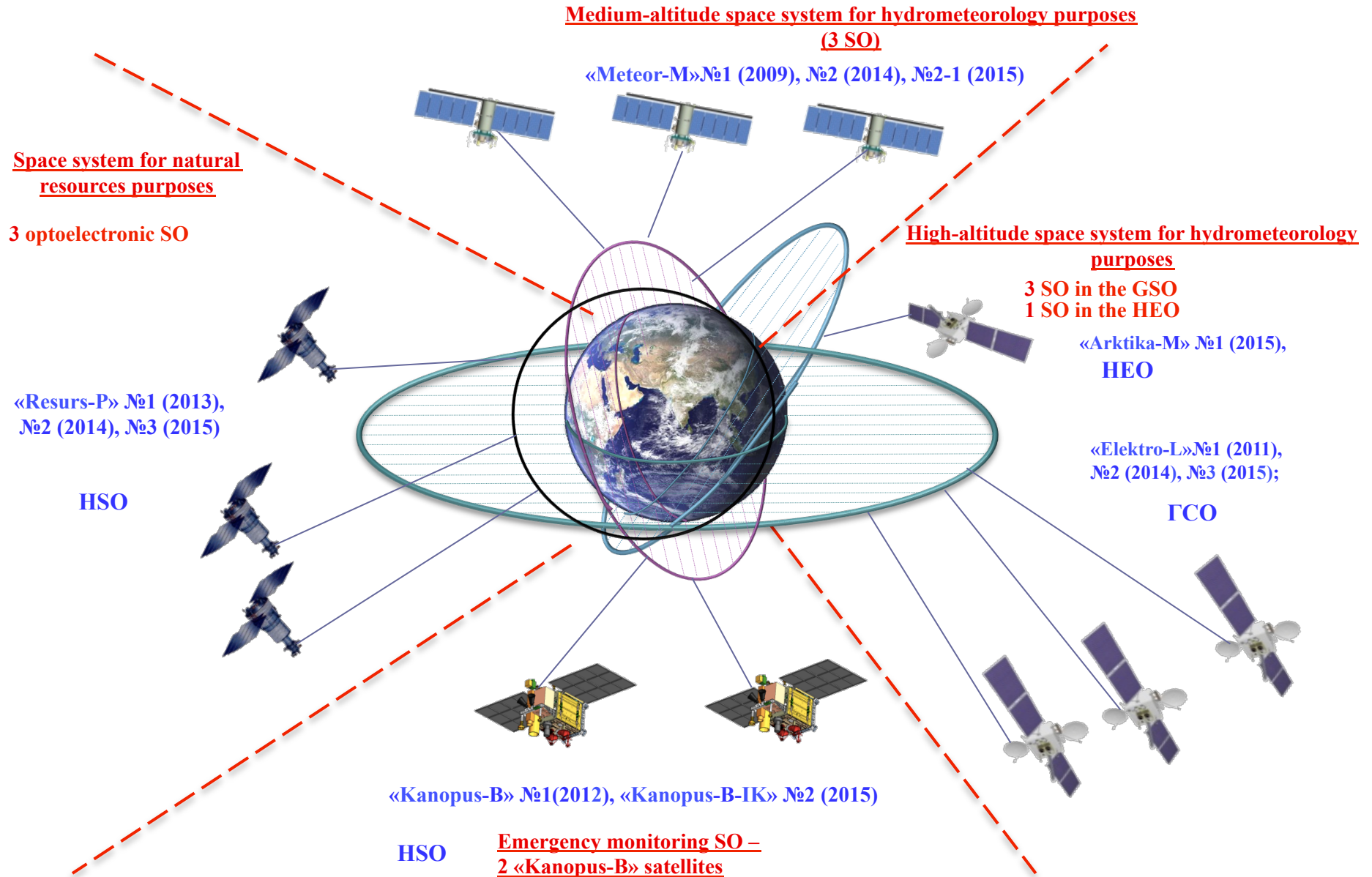
Keystones of state policy in the area of utilisation of **space activity results in the interests of modernising the economy of the Russian Federation and the development of its regions for the period till 2030 (TASKS):**

- competitive development of the Russian Federation, its administrative subjects;
- development of hi-tech and knowledge-intensive sectors of the national economy;
- enhancement of the efficiency of state, territorial, regional and sectoral governance;
- development of domestic market of space products and services, including by means of the active involvement of small and medium-size enterprises in the area of utilization of space activity results;
- widening of representation of the Russian enterprises in the global space market;
- accumulation and use of competitive advantages of the Russian Federation in the field of SAR utilization

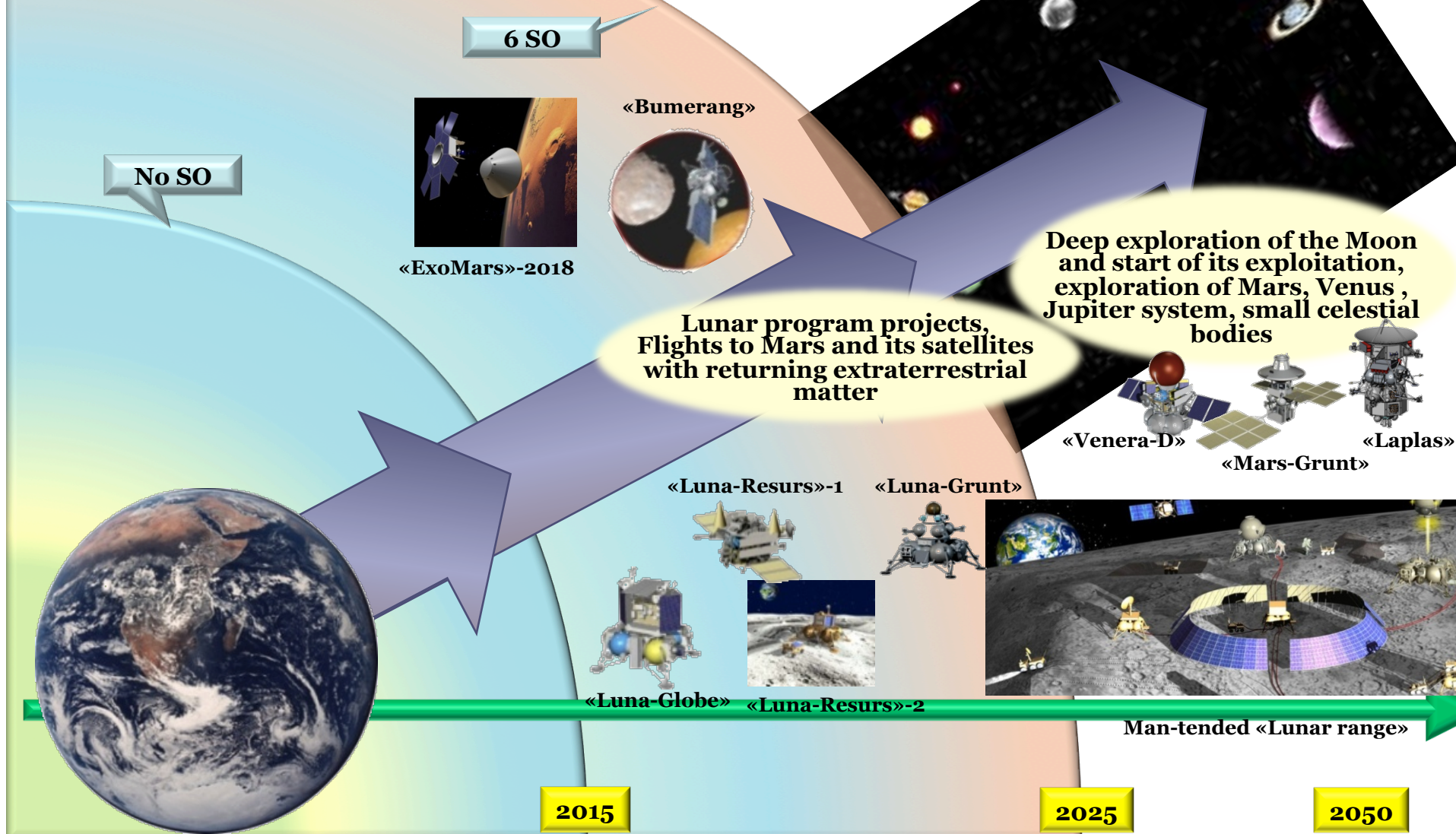
Orbital constellation of communications, broadcasting and retransmission satellites



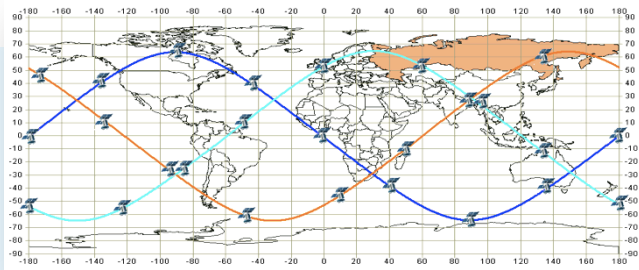
Orbital constellation of remote sensing satellites (2015)



Deployment and maintenance of scientific spacecraft constellation in the interests of exploration and exploitation of the Moon, research of planets, their satellites and small bodies of the Solar system



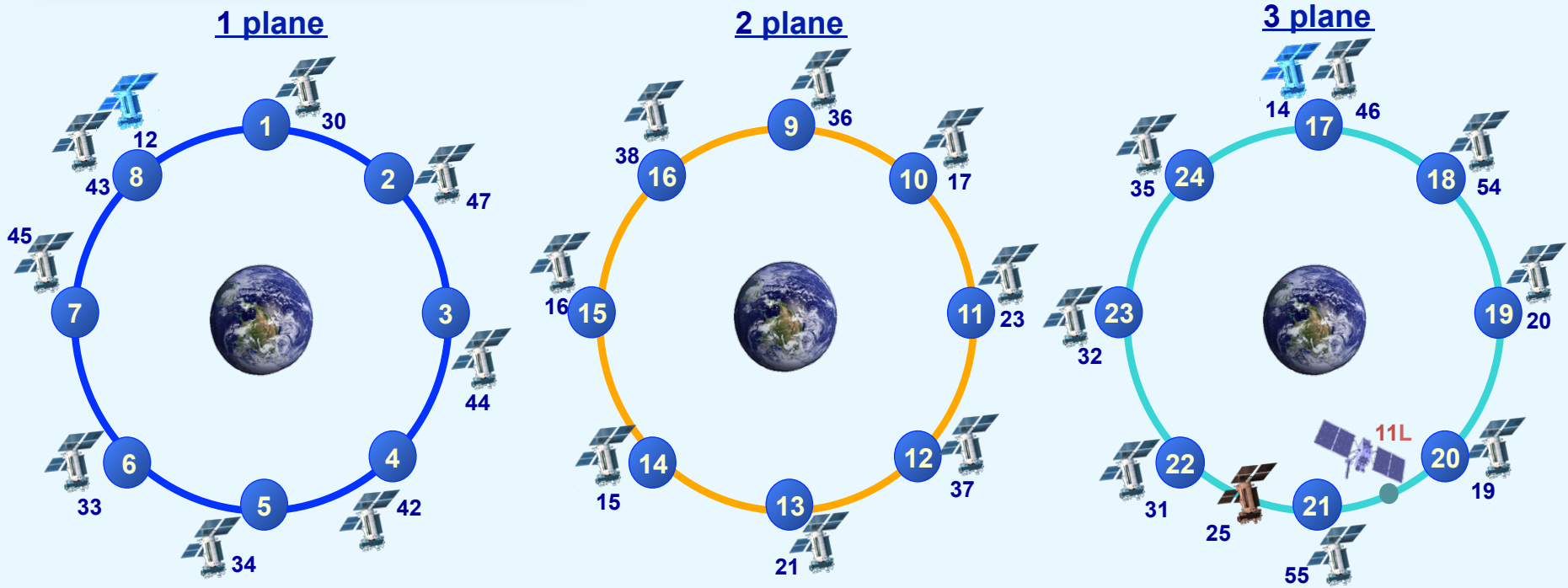
Orbital constellation of the GLONASS system



28 SO in the orbital constellation

«GLONASS-M» - 27
«GLONASS-K» - 1

- used as intended..... - 24 SO
- undergo technical maintenance (tested)..... - 1 SO
- orbital reserve (OR)..... - 2 SO
- in flight test program (FTP)..... - 1 SO



Обозначения:

- SO «Glonass-M», used as intended

- SO «Glonass-M» in orbital reserve

- SO «Glonass-M» tested

- SO «Glonass-K» № 11L

Application of the GLONASS system in the interests of scientific and social-economic development

Transport



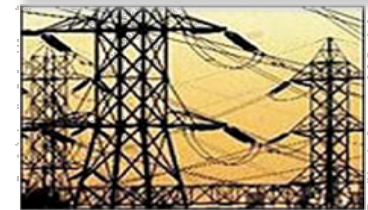
Communications and data transmission



Personal navigation



Energy



Geodesy



Oil and gas transportation



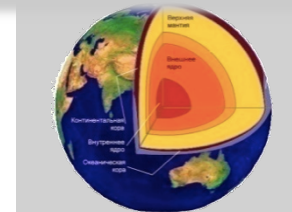
Agriculture



Cartography and land management

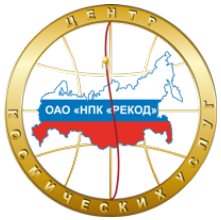


Fundamental Earth sciences



Engineering

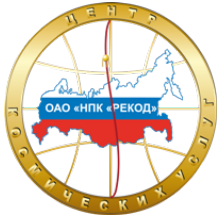




“Space Hydropower Station”

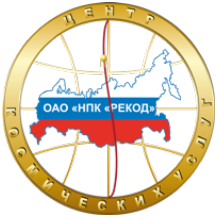
(example – Nizhnekamskaya hydropower station)



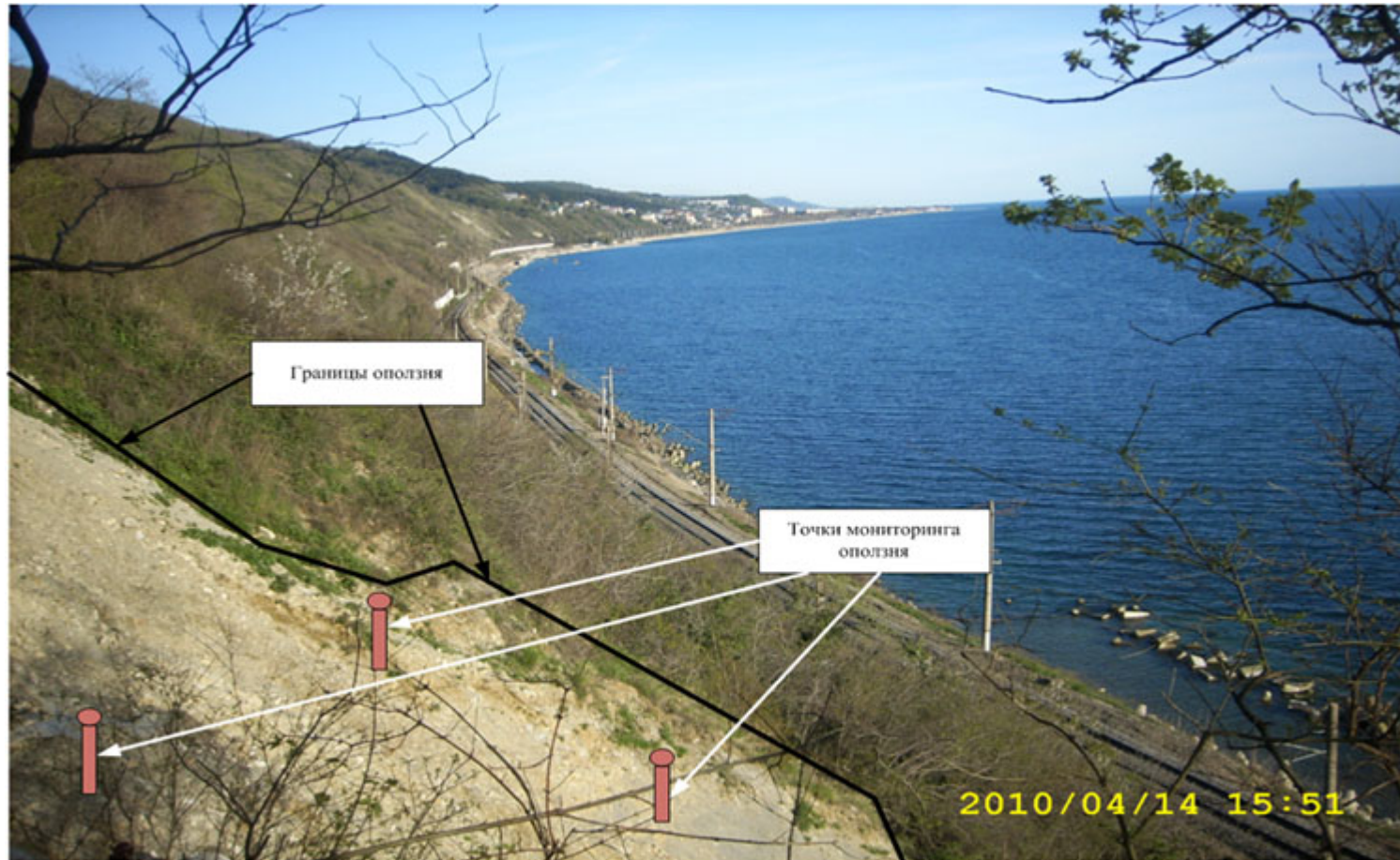


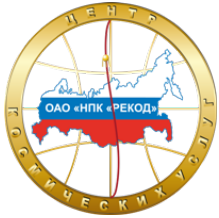
“Space Bridge” (example – Krasnoyarsk)





“Space Railway” (example – Tuapse-Adler railway)

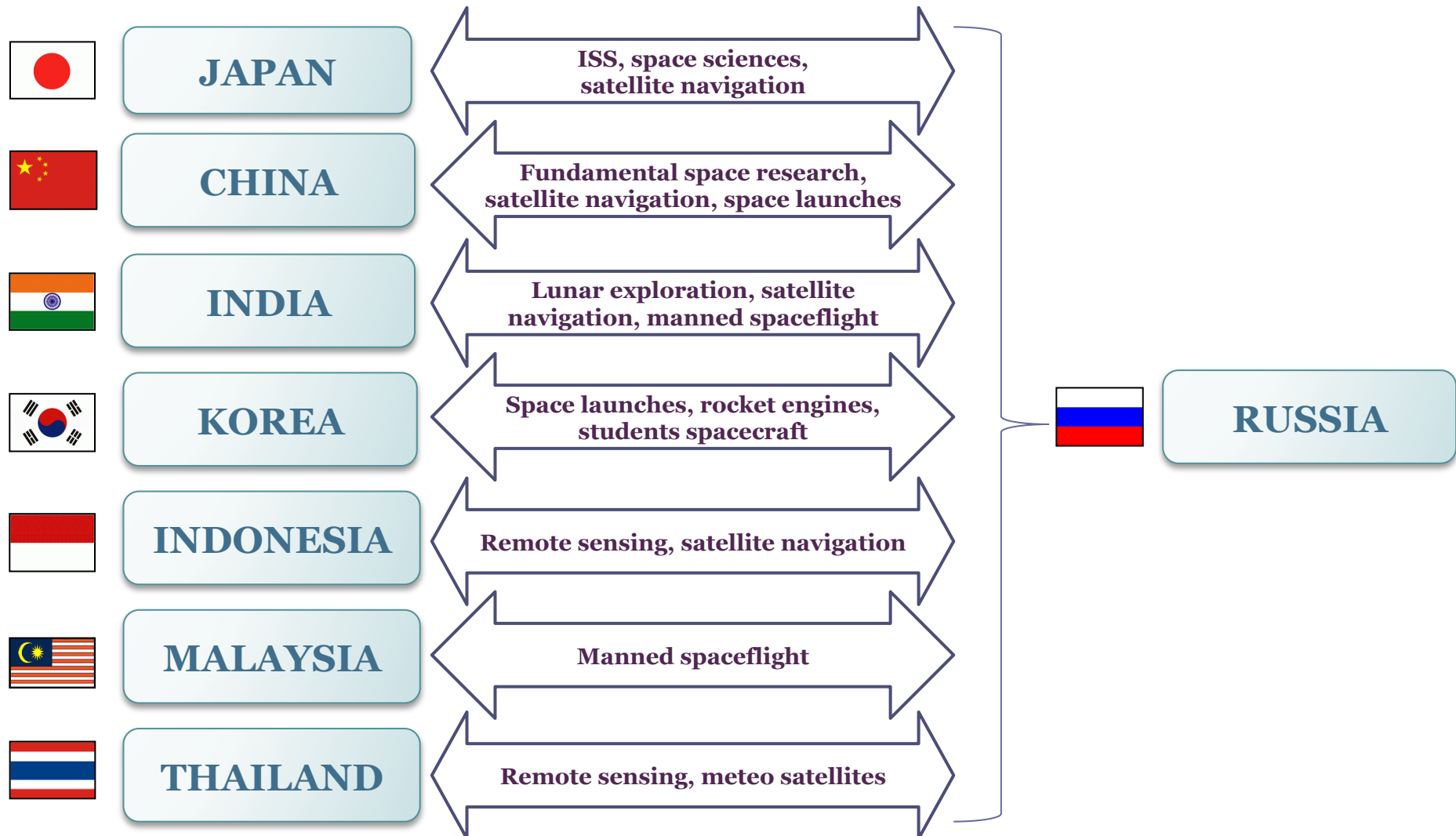




“Space Safety Corridor” (example – Tatarstan)



Regional space cooperation of Russia (1)



Regional space cooperation of Russia (2)





“Rockets themselves are not a purpose; the real purpose is to make the people’s lives better”

Konstantin Tsiolkovskiy



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**Thank you for your
attention!**