



# Russian Astronautics

- Russian Space Agency (Roskosmos) is one of the space leaders in the world among China, EU, Japan, USA
- Today only Russia and China are capable to carry a man into space
- Overall budget is 2,8\$
- Active work for the expansion of ISS





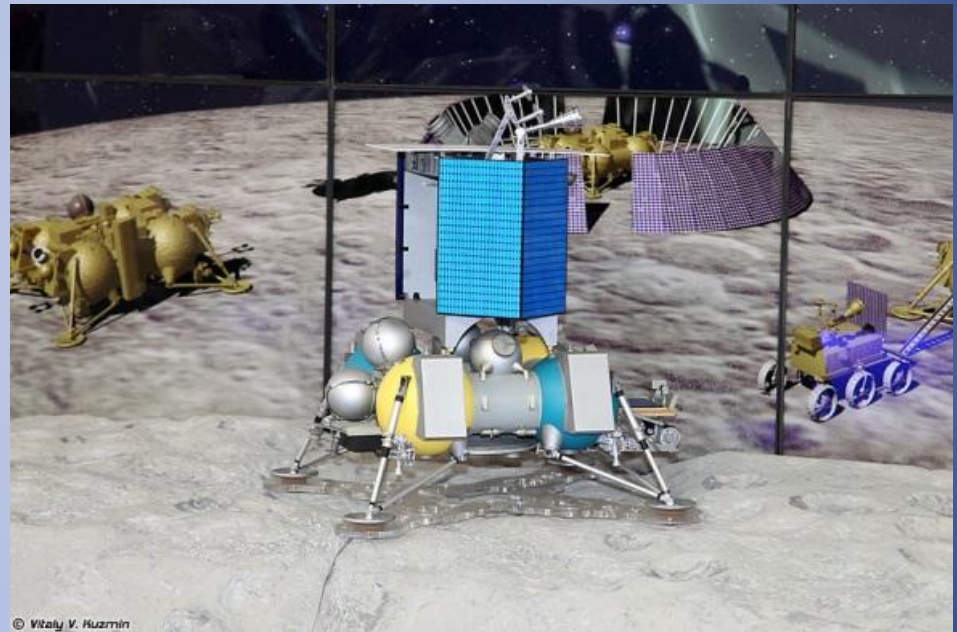
# Systems of satellite navigation

- The global satellite navigation systems have only Russia and USA
- 28 satellites now on orbit ( incl. GLONASS)
- Weather, communication, military satellites



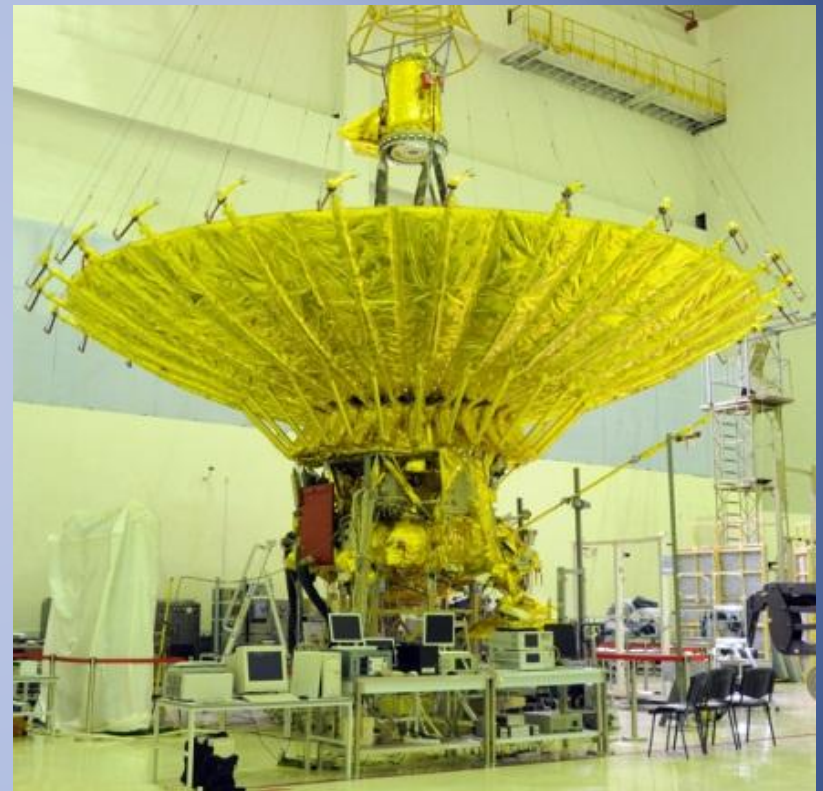
# Automatic interplanetary station

- Modern AIS often constructed in international cooperation
- Russian AISs searched water on the moon, and now discovering it on Mars.
- Currently, work is underway on missions to the Moon ("Luna-Globe", "Luna-Resource") and a joint project with ESA ExoMars



"Luna-Resource" 2013

- "Radioastron" a program at the forefront of global scientific knowledge
- X-ray telescopes are gamma "Spektr-RG" and UV "Spectrum-UV"
- Operated biological satellite 'Bion' last flight in 2013 ( 19.04.2013 10:00 UTC)



"Radioastron"