Innovation in India AVRIST 01/20/2021

Space Research and Space Industries

Round table

coordinated by Pierre-Bruno Ruffini

India, a unique player of the « Space Club » Isabelle Sourbès Verger, CNRS

Space as a part of Science, Technology and Innovation Policy (STIP)

Space has been an integral part of India's S&T policy since the 1960s

 From this point of view, India is a well known member of the so called "space Club"



1983 Aryabata

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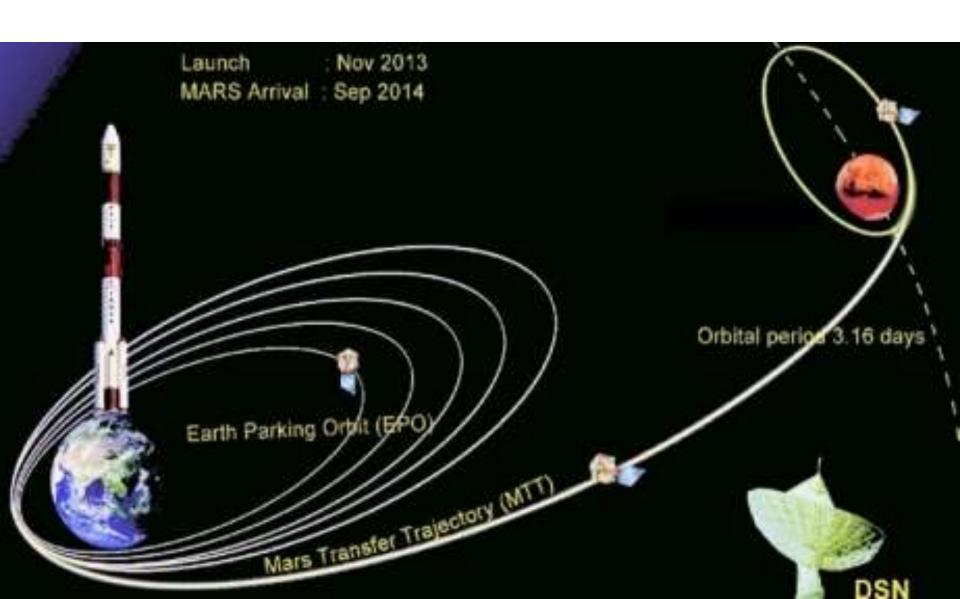
ONE THOUSAND RUPEES

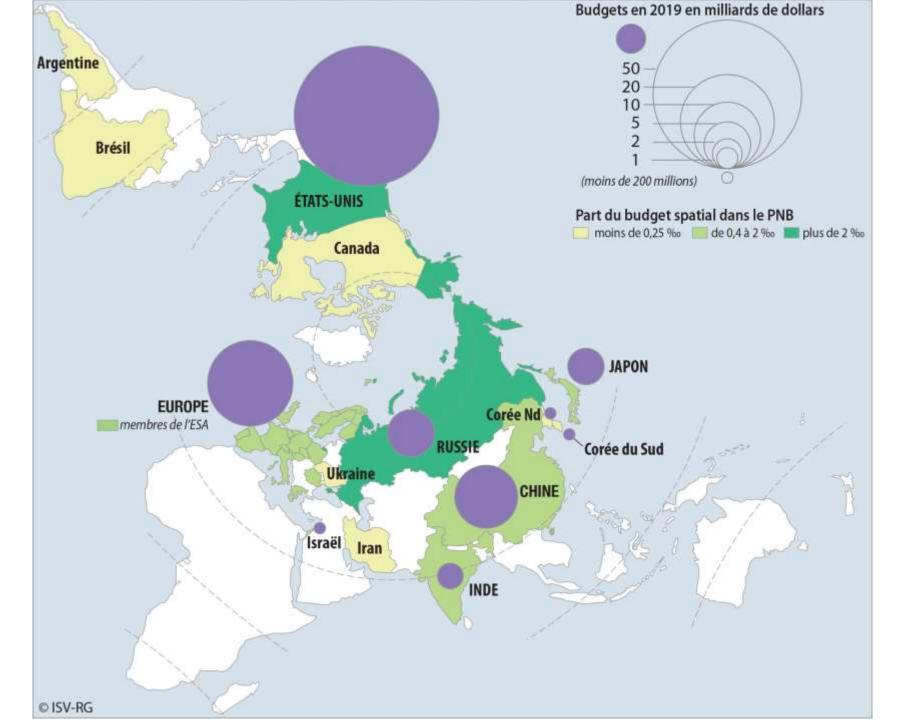
2000

2016 Mangalyaan



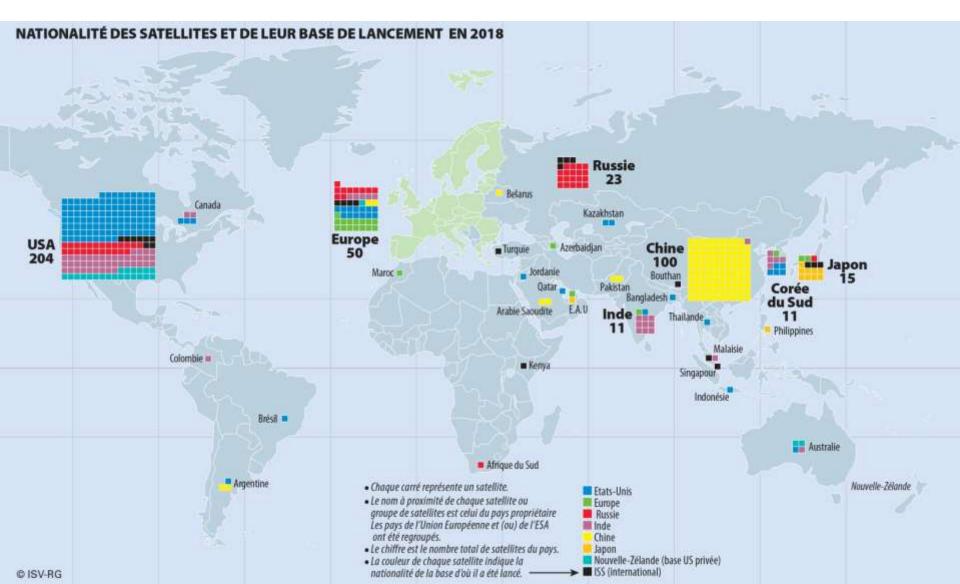
Amazing Mars missions





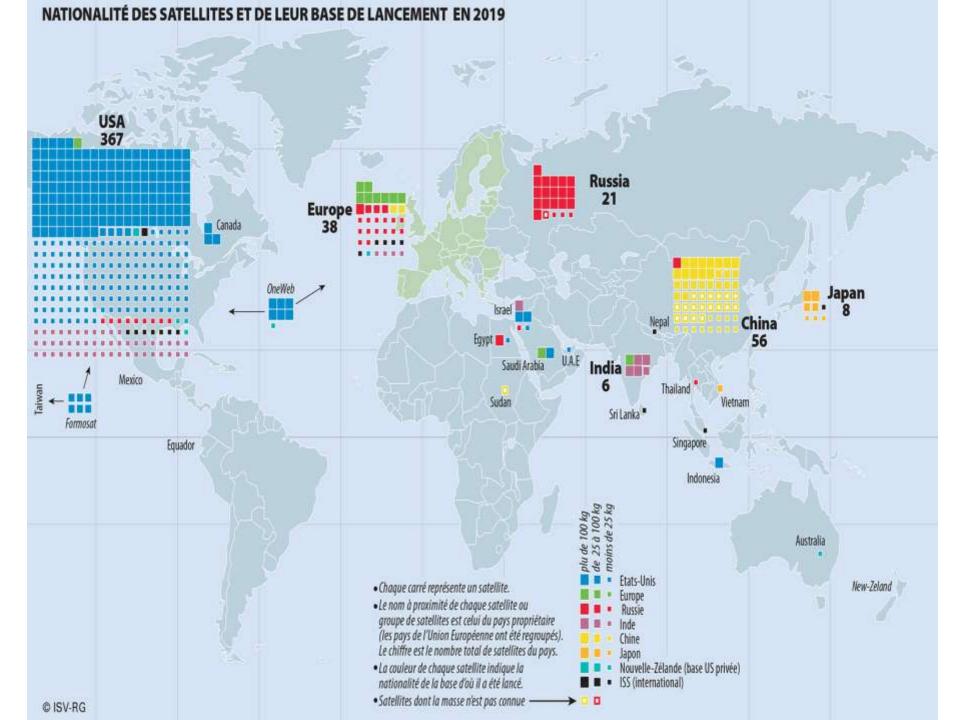
In 2020 almost 3,000 operational satellites : half US, 15% Chinese, 8% Russian, 2% Indian

2018 launches

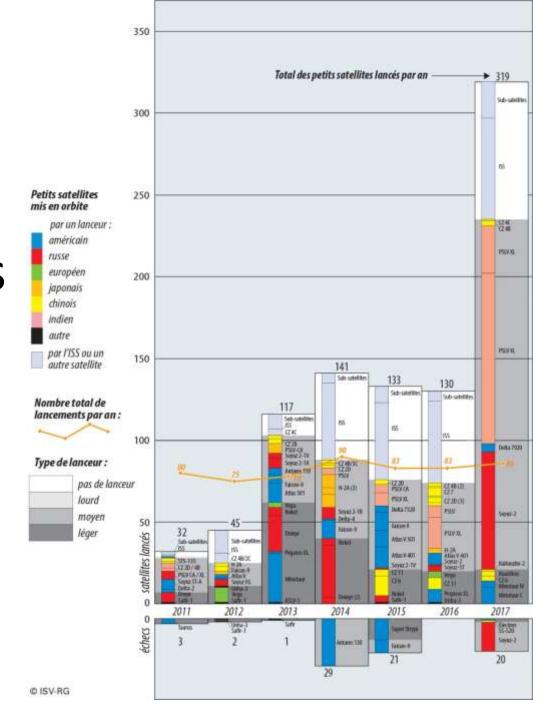


Space and STI policy

- Space has a natural role to play in 10. et 11. of STI policy such as "to strengthen India's competitiveness in STI and promote science diplomacy internationally / at a global level so that the nation continues to maintain a competitive edge in science, technology, innovation and research, globally".
- Space duly mentioned in the Chapter 6: Technology Development and Indigenisation



PSLV advantages to launch small satellites



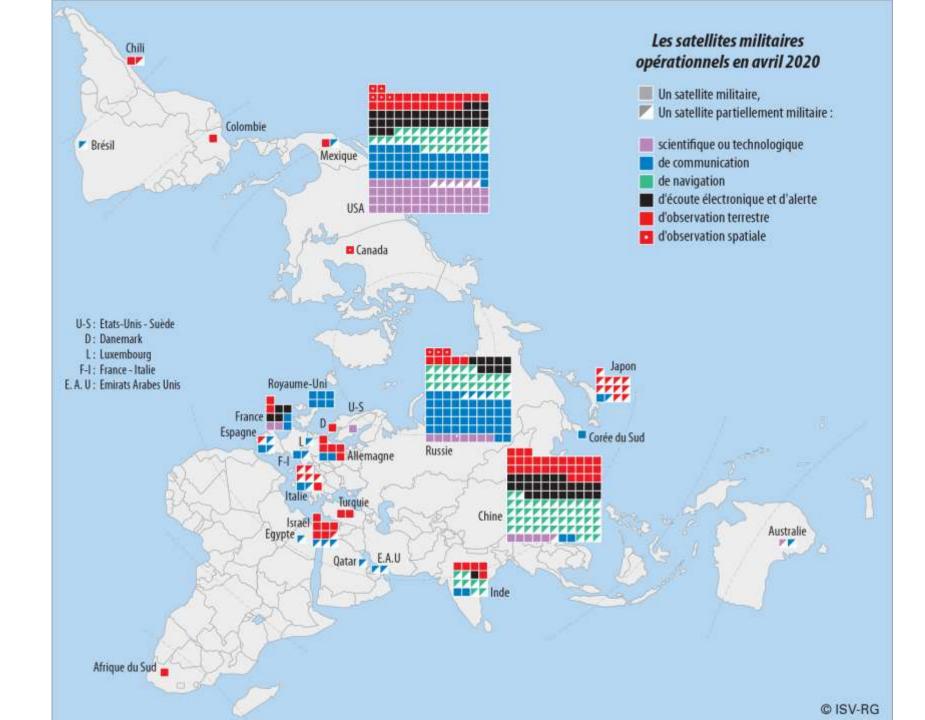
New challenges for space

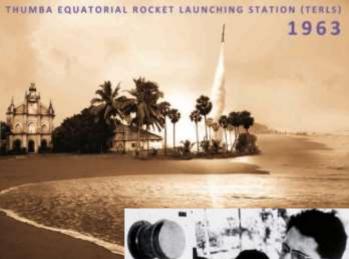
Military space ISRO/DRDO

Manned flights

R&D focus

Commercialisation and private industries













"Manned space mission for 2022" 75ème anniversaire

