

Interputnik Overview

Basic Info

- Interputnik International Organization of Space Communications established in 1971
- Establishment Agreement registered with the UN Secretariat
- Member states from Europe, Africa, Middle East, Latin America and Asia
- Signatories
 - National Satellite Operators
 - Telecommunications Administrations
 - National Telcos
 - National Teleports & Service Providers

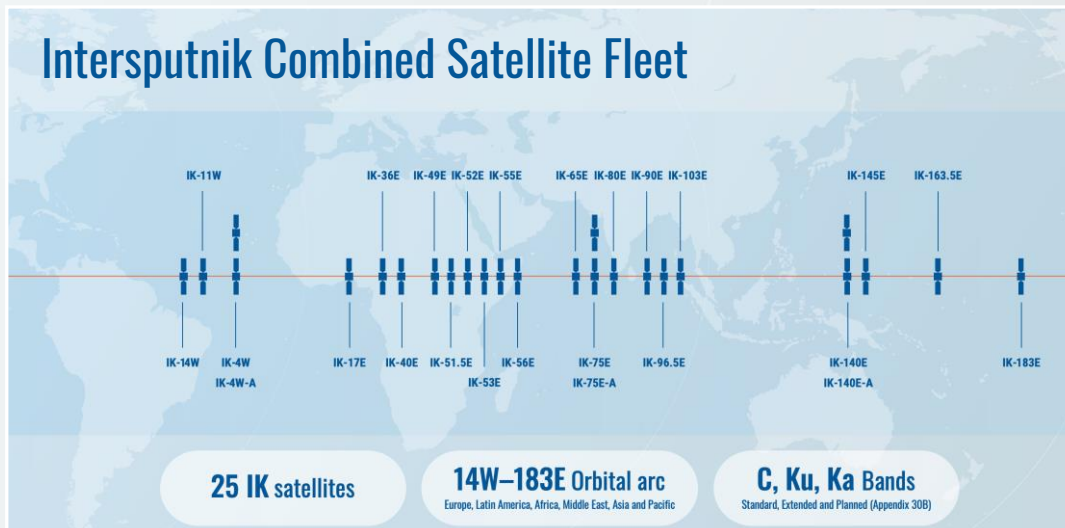
Interputnik Service Portfolio

- Satellite Bandwidth Leasing
- Teleport Services
- TV broadcasting
- SatCom Networks
- National satellite procurement projects support
- Sat infrastructure design & deployment
- Consulting & Training

Cooperation with International Organizations



Interputnik Combined Satellite Fleet



Interputnik Consolidated Ground Facilities



Key Technological Advancements and Innovations in SatCom Industry

Making satellite connectivity more affordable – increasing bandwidth/supply or reducing costs

In SPACE

- Digital Flexible Software Defined Satellites

- Cooperation models with domestic coverage filings
- Satellite configuration change on the fly
- 84% of sats in next 10 years

- Small GEO satellites

- New entrants
- Lower pricing

- Launch

- More players
- Reusable rockets

- NGSO constellation progress

- Starlink, Kuiper, more to follow
- Serial mass production of sats
- Pricing pressure on GEO
- Inter Satellite Links

- Next Gen GEO VHTS

- More price pressure

Key Technological Advancements and Innovations in SatCom Industry

Making satellite connectivity more affordable – increasing bandwidth/supply or reducing costs

On GROUND

- CPE RF
 - Multi - Orbit/Frequency
 - Flat Panel Antennas
- Virtualized Infrastructure
 - Distributed Teleport, VSAT Hub
 - Teleport/Hub - as-a-Service
 - SD-WAN
 - Cloud
- Enhanced CPE performance
 - Higher modulation
 - More Bits/Hz
- New Services & Applications
 - Direct-2-Device
 - Satellite IoT
 - Precise Farming
 - Use of Artificial Intelligence
 - 5G
 - Hybrid video delivery solutions