



Joint Company 'Research and Production
Corporation
'Space Monitoring Systems, Information &
Control and Electromechanical
Complexes' named after A.G. Iosifian'



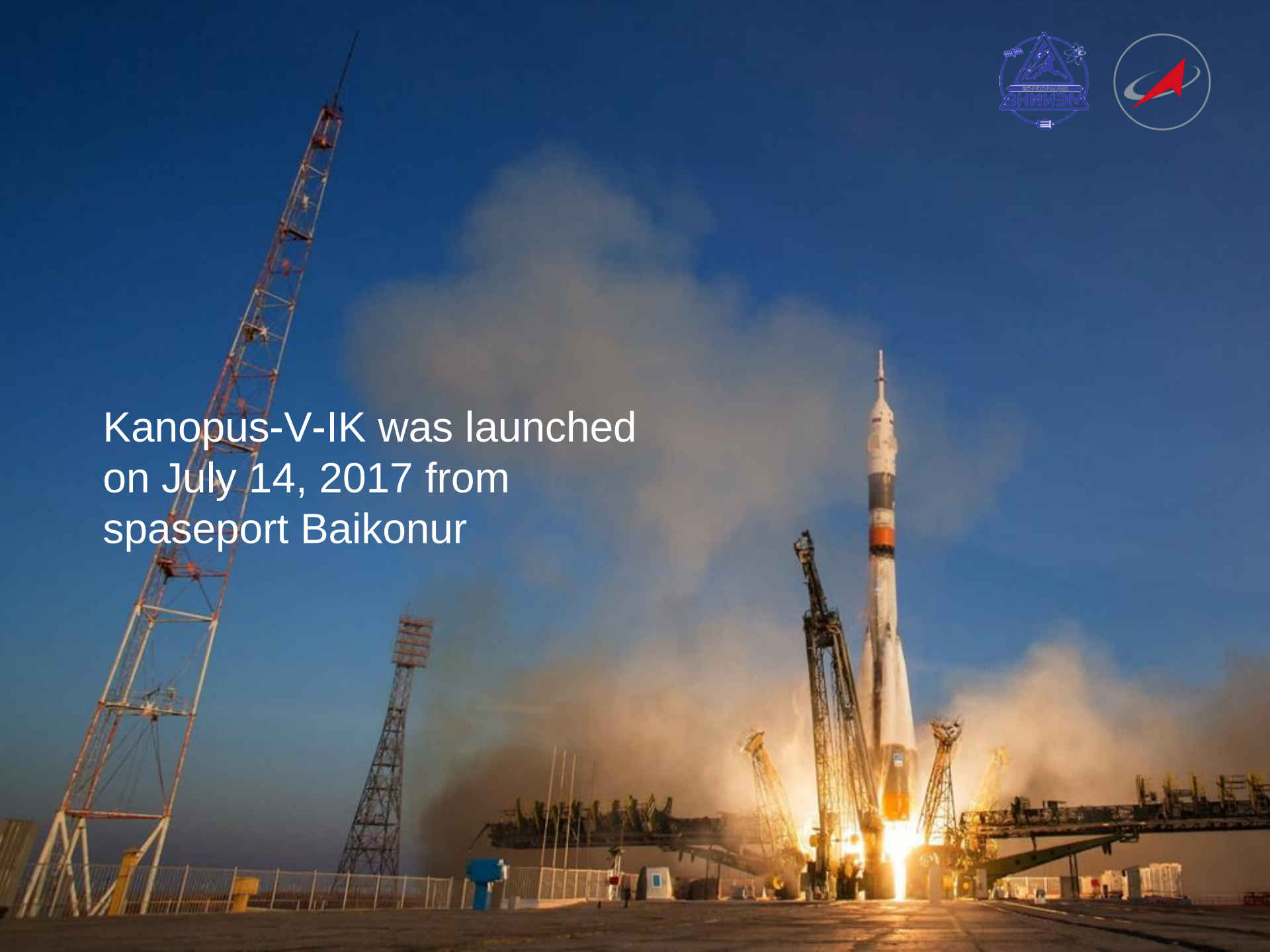
'VNIIEM Corporation' JC

Space system **Канопус-V-IK**

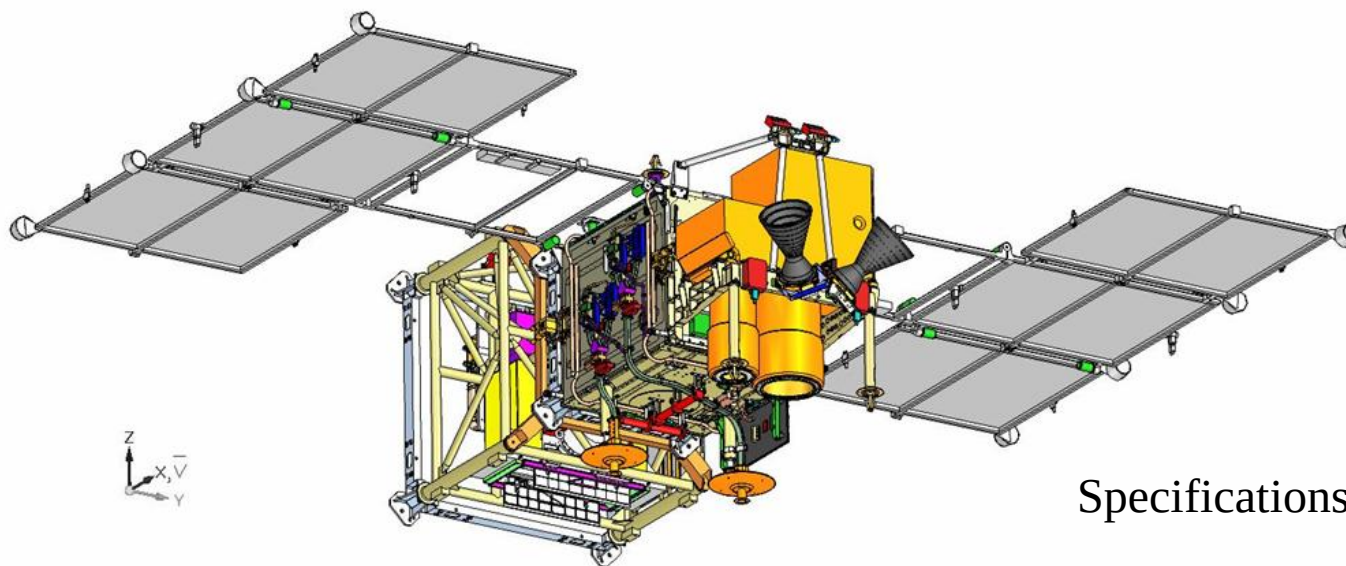




Kanopus-V-IK was launched
on July 14, 2017 from
spaceport Baikonur



SC Kanopus-V-IK

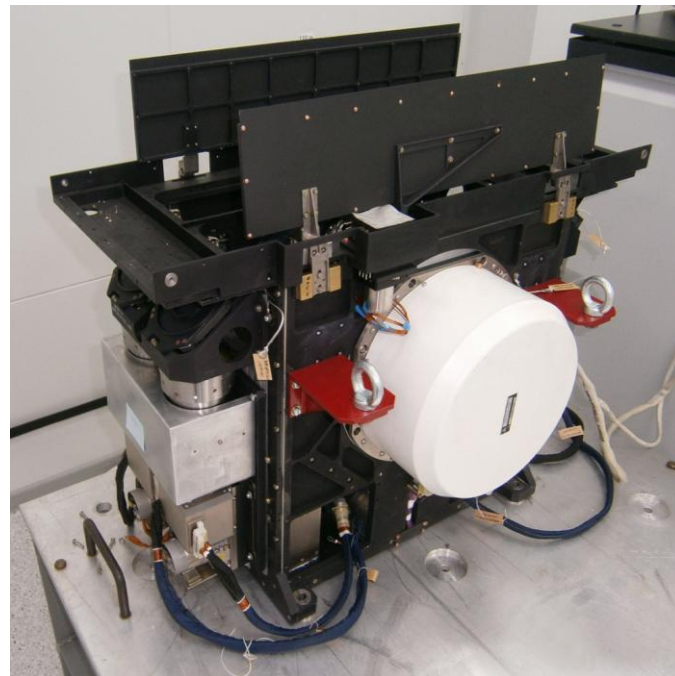


Specifications:

Mass: ~ **600 kg**
Regime: **sun-synchronous**
Apogee: **516,7 km**
Perigee: **512,9 km**
Inclination: **97,4 degrees**
Period: **94.8 minutes**
Mission duration: **5 years**



MSS & PSS



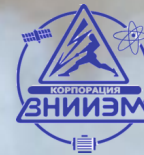
MSU-IK-SR

- PSS (Panchromatic Imaging System):
- MSS (Multizone Imaging system)
- MSU-IK-SR (Infrared equipment)

Key performance features of small satellite Kanopus-V-IK



	PSS	MSS	MSU-IK-SR
Number of spectral channels	1	4	2
Spectral range, μm	0,54 ... 0,86	0,46 ... 0,52 0,51 ... 0,60 0,63 ... 0,69 0,75 ... 0,84	3,5 ... 4,1 8,4 ... 9,4
Resolution, m	2,5	12	200
Swath width, km	23	20	2000



Tasks and problems

Detect pockets
of forest fires



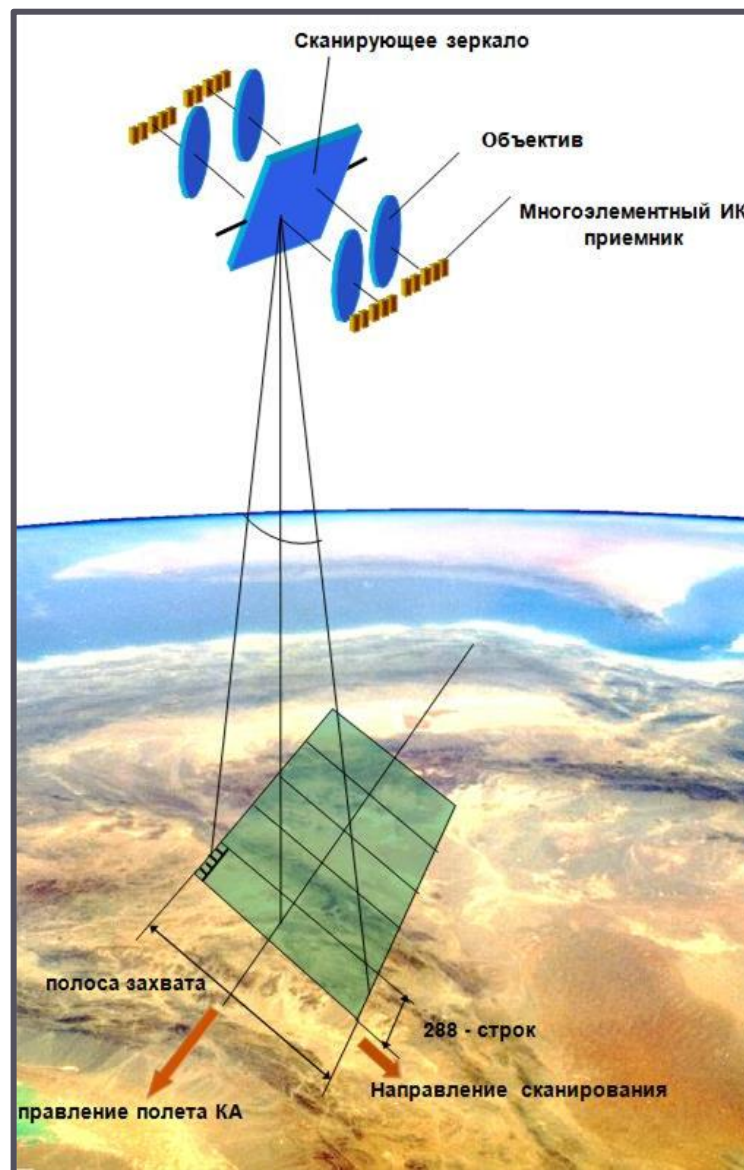
Monitoring of industrial facilities





Monitoring of natural emergencies

PRINCIPLE OF IMAGING





Results

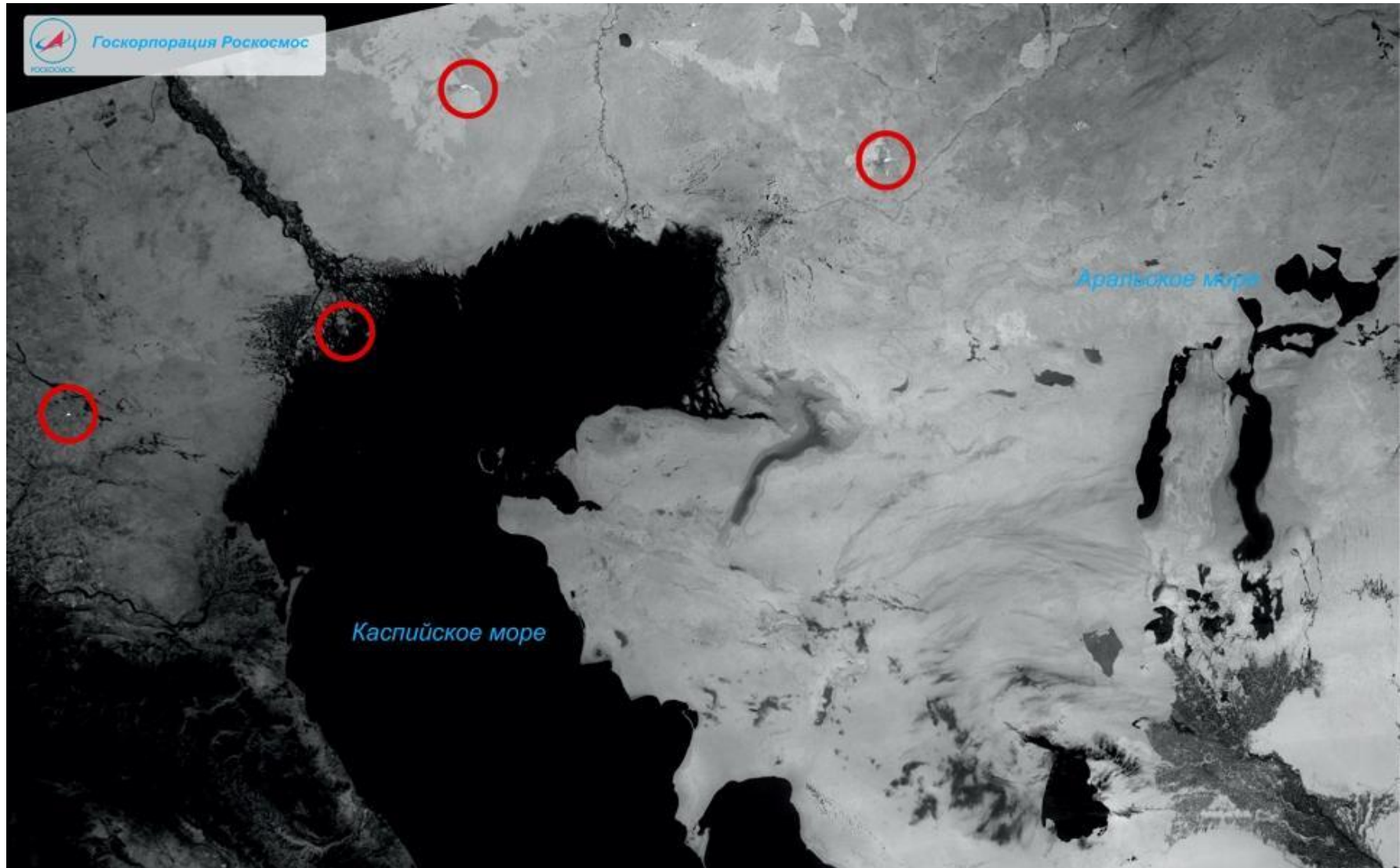
Panchromatic image



Multispectral image



Image from MSU-IK-SR





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Thanks for your attention!