



J S C V Y M P E L

JSC VYMPPEL is a leading company engaged in development, installation and testing of unique air and space defense systems, including early warning and space monitoring systems.

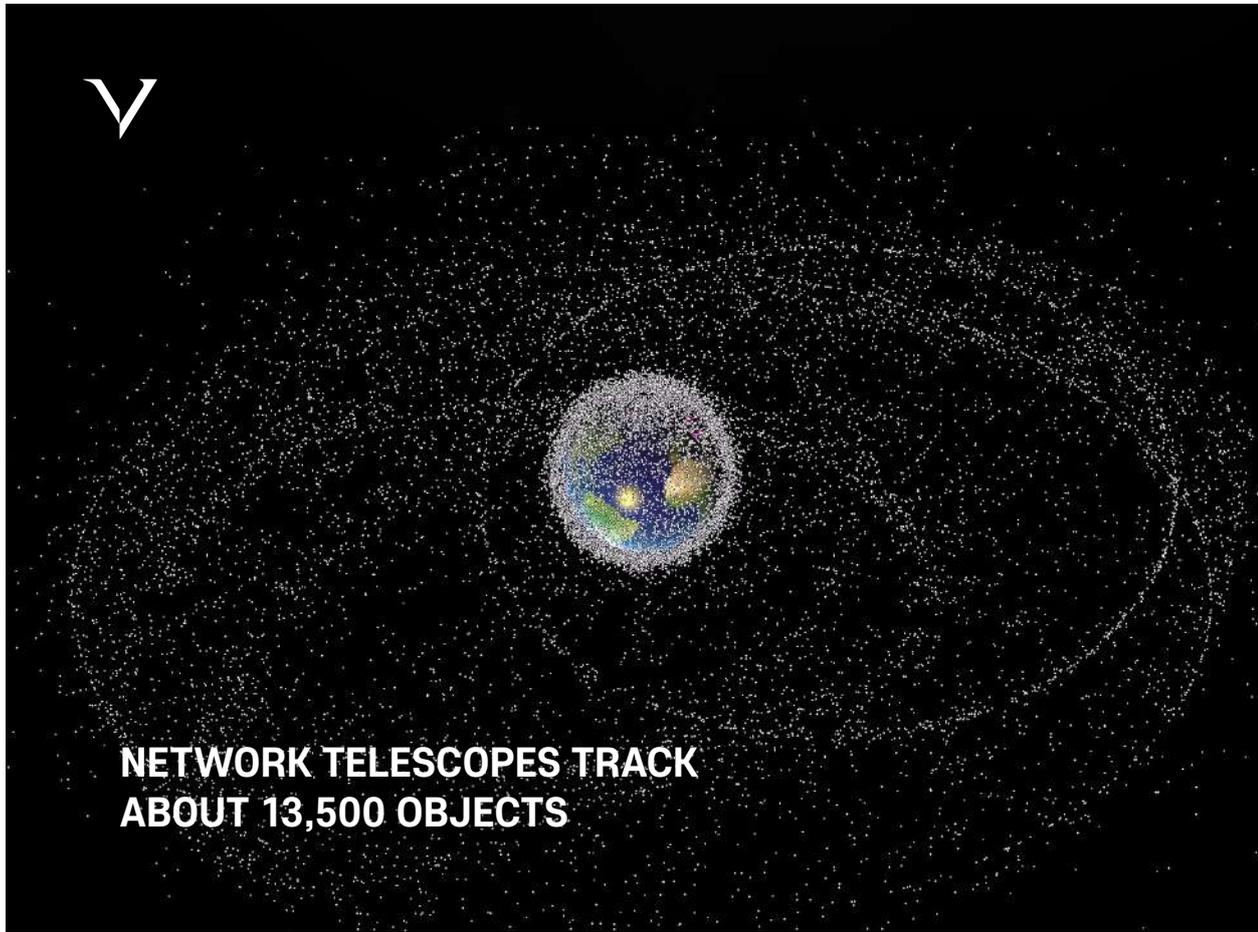
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# OPTICAL NETWORK FOR MONITORING NEAR-EARTH SPACE OBJECTS

Guarding the cosmos for the world

Experience — Knowledge — Development — Reliability — Consistency

To ensure situational awareness in near-Earth space, JSC VYMPPEL created a network of optical robotic telescopes for monitoring near-Earth space objects (SO) and the Information Analytical Center that conducts observation planning with telescopes, collecting data on the results of observations, their fusion, joint processing, analysis and storage in the database.



## NETWORK TELESCOPES TRACK ABOUT 13,500 OBJECTS

Currently, the network of JSC VYMPEL includes 13 telescopes located throughout the world

The network specializes in monitoring near-Earth space objects with high angular velocities in low and medium orbits and in non-apogee sections of highly elliptical orbits. Priority is given to space objects for which there is a shortage of measurements from existing means of observation: man-made objects descending from orbits, SO lost during emergency launches, dangerously approaching SO, etc.

Image frames are processed in telescopes with effective suppression of the observation background, which allows observation of low-contrast SO, as well as the operation of telescopes at dusk. The accuracy of the network's telescopes is monitored daily by observing reference satellites, which are tracked by the International Laser Ranging Service.

