



NEXT-GEN POLAR **Strategic Missile Warning**

Leveraging decades of experience in missile warning and missile defense, Overhead Persistent Infrared (OPIR) sensors, and ground data processing, Northrop Grumman's Next-Generation Overhead Persistent Infrared Polar (NGP), or Next-Gen Polar, satellites will provide the nation with a resilient capability to detect and track ballistic and hypersonic missiles.

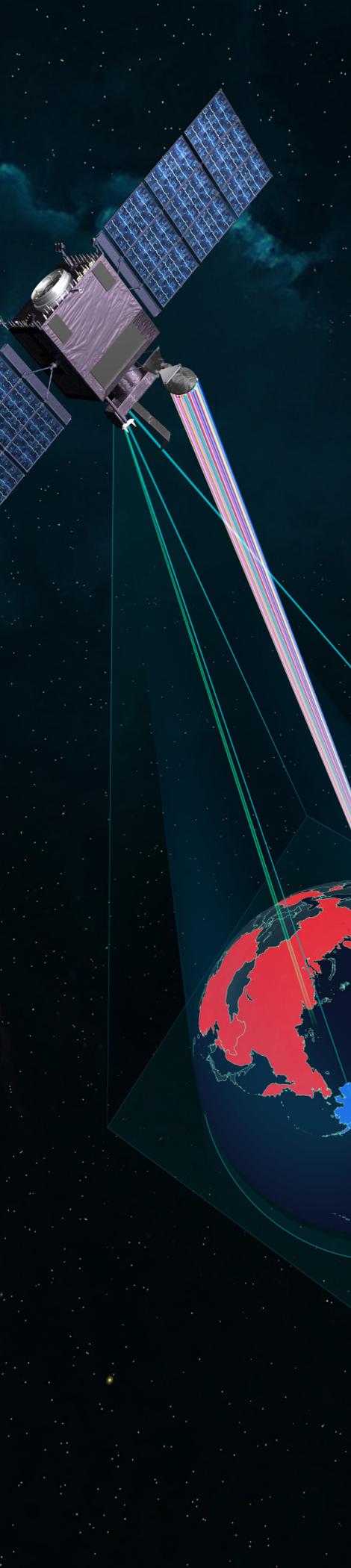
Part of the U.S. Space Force's Space Systems Command's Next-Generation Overhead Persistent Infrared (Next-Gen OPIR) constellation, NGP uses advanced infrared sensors to detect and track ballistic and hypersonic missiles.

NGP is the successor to the legacy Space-Based Infrared Systems (SBIRS) highly elliptical orbit (HEO) hosted payload program.

Operating in highly elliptical orbits, NGP will provide around-the-clock coverage of the Northern Hemisphere, the shortest route for a missile to travel toward the United States and one of the most difficult regions to monitor from space.

NGP's high-resolution imaging and data processing technology will quickly detect and process even the most sophisticated enemy threats. NGP's unprecedented wideband communications will downlink all imaged data in near real time to ensure that these threats are detected and eliminated.

NGP will strengthen the nation's missile warning and tracking, technical intelligence, and battlespace awareness missions to counter adversaries' emerging and advanced missile technologies. NGP is a vital part of the United States' missile warning and tracking space architecture that we can't afford to do without.



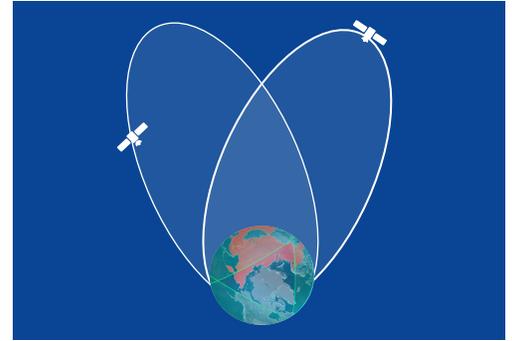
NEXT-GEN POLAR

SURVIVABLE & RESILIENT GROUND SYSTEM

Automated, responsive and ready to stay ahead of missile threats

POLAR SATELLITES IN HIGHLY ELLIPTICAL ORBIT

Persistent coverage of the Northern Hemisphere



MISSION PARTNERS

U.S. SPACE FORCE'S SPACE SYSTEMS COMMAND

Space Systems Command is the U.S. Space Force field command responsible for acquiring, developing, and delivering resilient capabilities to outpace emerging threats and protect our Nation's strategic advantage in, from, and to space. SSC manages a \$15.6 billion annual space acquisition budget for the Department of Defense, working with joint forces, industry partners, government agencies, academic and allied nations. For more information, visit: ssc.spaceforce.mil.

BAE SYSTEMS

BAE Systems is building the Sensor Subassembly (SSA), the key component to Northrop Grumman's Mission Payload (MPL). The MPL consists of the SSA instrument combined with additional Northrop-provided hardware and software. The MPL will be mounted to the spacecraft to provide missile detection and tracking capabilities for the OPIR mission. With expertise in the fields of infrared sensor development and mission data processing, BAE Systems is the ideal choice to design and build the complex payloads for this mission.

NEXT-GEN POLAR QUICK FACTS

SPACE VEHICLES	2 in highly elliptical orbits			
MILESTONES	2018 - Award	2023 - PDR 2024 - CDR	2028 - Launch #1	2030 - Launch #2
Features	24/7 resilient missile warning coverage of the Northern Hemisphere	Higher-resolution threat detection technology	Unprecedented wideband communications	Advanced infrared sensors