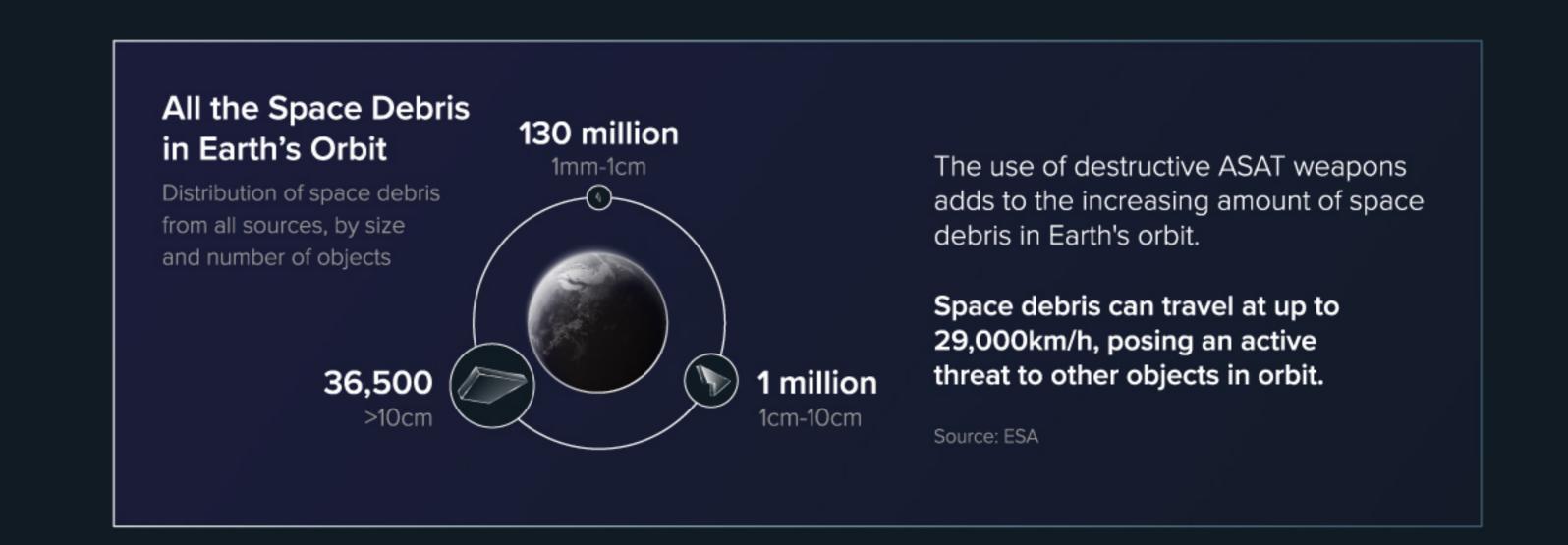
Anti-Satellite Weapons

THREATENING THE SUSTAINABILITY OF SPACE ACTIVITIES



ANTI-SATELLITE (ASAT) WEAPONS are weapons that are designed to deceive, disrupt, deny, degrade, or destroy space systems.





The Impact of Destructive ASAT Weapons

There are two types of destructive ASAT tests:



Weapons that are placed into orbit and maneuver close to a target and attack it by various means, including direct collision, fragmentation, or using robotic arms.

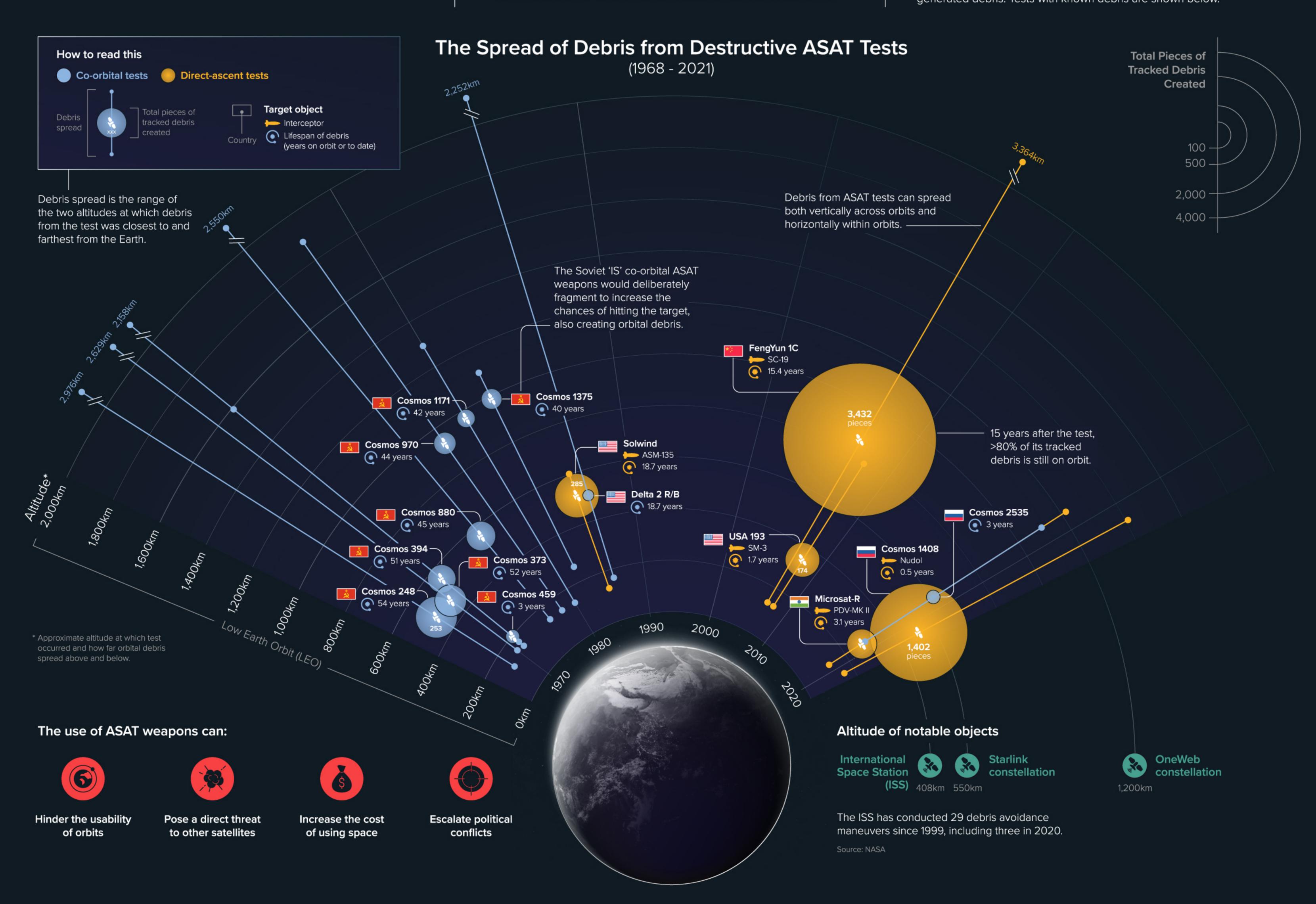


Missiles that are launched from the Earth's surface or from the air to destroy a satellite target.

Types of Direct-ascent ASAT Weapons . U.S. China Russia India Nudol PL-19* SM-3 SC-19 PDV MK-II Note: Missiles not shown to scale. *Illustration is of the canister containing the PL-19 missile; no image of Nudol missile is available.

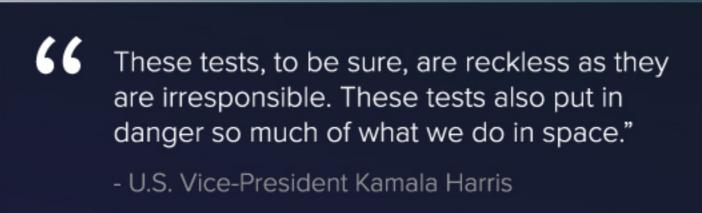
Since 1959, there have been 80 ASAT tests carried out by four countries. Number of tests ■ U.S. ■ Russia/USSR ■ China ■ India 30 20 10 1970s 1960s 1980s 1990s 2000s 2010s 2020-

Destructive ASAT tests generate thousands of debris objects that spread across vast distances. Not all the tests depicted above generated debris. Tests with known debris are shown below.



While space has long had military users, it is becoming increasingly commercial and critical for civilian life.

The U.S. was the first country to pledge against conducting destructive ASAT testing to promote responsible behavior in space. As space activity increases, the threat of destructive ASAT tests requires action from countries around the globe.



Secure World Foundation promotes cooperative solutions for space sustainability and the peaceful uses of outer space.

