

WHAT IS ACTIVE DEBRIS REMOVAL

Cleaning up our orbit

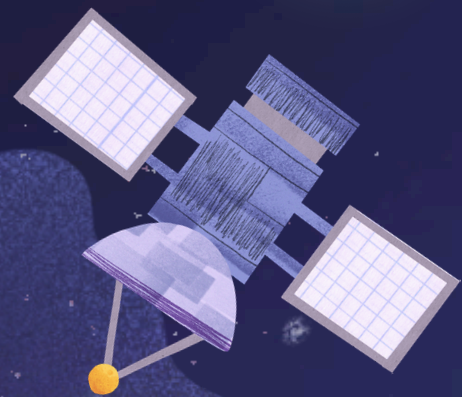
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What is Space Debris?

Satellites perform essential tasks like communication, weather forecasting, navigation, and scientific research.

By 2030, there could be around 60,000 satellites in space.

Space debris consists of satellites that no longer work, or broken up pieces of rockets.



Why is Space Debris a problem?

2

Space Debris is travelling 17,000 mph, which means even the smallest peice of debris can damage satellites we rely on every day.

If left unchecked, debris could make some orbits too dangerous to use.

3

What is Active Debris Removal?

Active Debris Removal (ADR) is the process of finding, capturing and safely removing unwanted objects from space.

Rather than leaving debris where it is, a specialised spacecraft is sent to remove it.



What is In-Orbit Servicing?

4

ADR is one type of in-orbit service. Currently, when satellites run out of fuel or suffer a fault, they are discarded

IOS will change that, allowing satellites to be repaired in orbit, making space more sustainable.

5

Why does it matter?

- ✓ Protect important satellites
- ✓ Support the services we use every day on Earth
- ✓ Create new opportunities for the UK space industry
- ✓ Help ensure space remains accessible and safe for future generations

