An Update on the UK Space Agency’s Active Debris Removal Activities

Jennifer Barry\textsuperscript{a}  
Jodie Howlett\textsuperscript{a}, Jason Forshaw\textsuperscript{b}, Valentin Valhondo\textsuperscript{c}

\textsuperscript{a}UK Space Agency, \textsuperscript{b}Astroscale Ltd, \textsuperscript{c}ClearSpace Today Ltd

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UK Commitment to Space Sustainability

National Space Strategy
Ten Point Plan

**Point 6:** “Lead the global effort to make space more sustainable”

Corporate Plan
Value Proposition

**Sustainability Priority:** “Deliver capabilities to track objects in orbit and reduce and remove debris; lead global regulation and standard-setting to make space activities more sustainable”

UK Leadership in Space Sustainability

“Position the UK as a global leader in space sustainability”

ARTEMIS Accords

Section 12 covers orbital debris
Overview of UK ADR

2. Removal of $\geq$ two UK-licensed satellites from LEO

Clients must be **defunct** & **unprepared** for capture

2026 launch

Compliant with **IADC guidelines**

Servicer to be **refurbishable**
COSMIC
Cleaning Outer Space Mission through Innovative Capture
CLEAR
Clearing the LEO Environment with Active Removal

• b
Top-Level Concept of Operations

COSMIC Concept of Operations (CONOPS) [1]

CLEAR Concept of Operations (CONOPS)
Conclusion

3 x Phase 0/A feasibility studies successfully delivered

Phase B progressing well
- Both System Requirements Reviews (SRRs) successfully passed
- Breadboards developed and TRL raising activities undertaken
- PDRs due in early 2024

The UK is funding addition related technology and study research and development to support ADR
Thank you

Jennifer Barry
jenny.barry@ukspaceagency.gov.uk

Office of the Chief Engineer
OCE@ukspaceagency.gov.uk


IN-ORBIT SERVICES TO SHAPE THE FUTURE OF SUSTAINABLE SPACE OPERATIONS [3]
References

