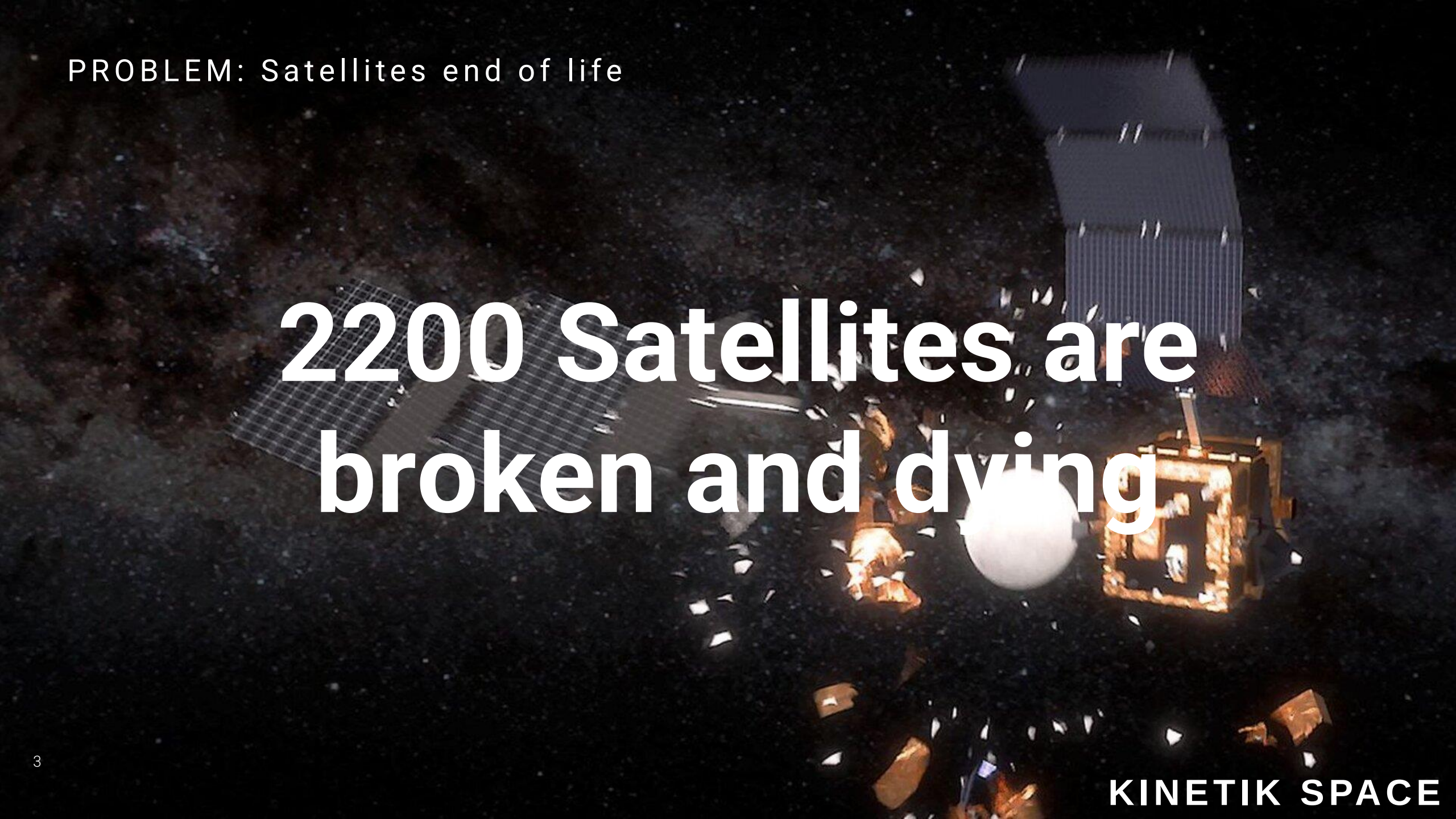
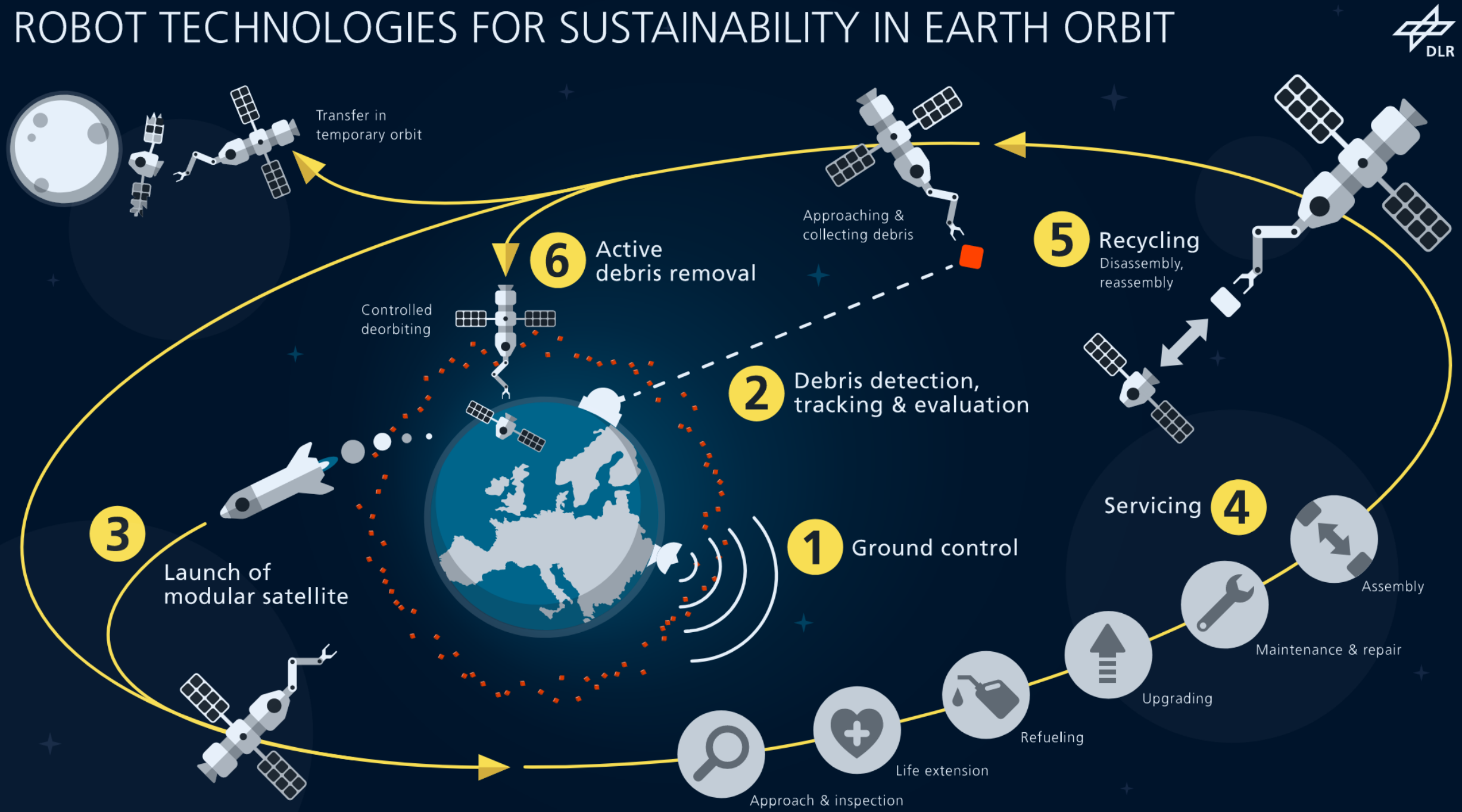
THE HEART OF MOTION IN SPACE

PROBLEM: Satellites end of life



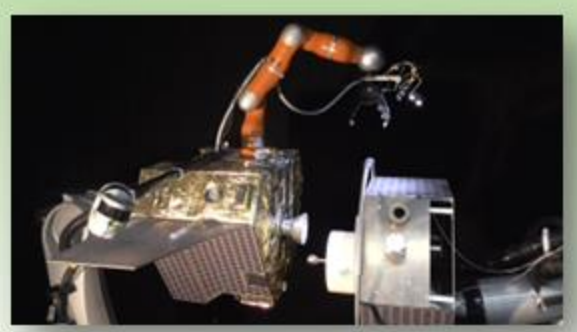
2200 Satellites are broken and dying

ROBOT TECHNOLOGIES FOR SUSTAINABILITY IN EARTH ORBIT

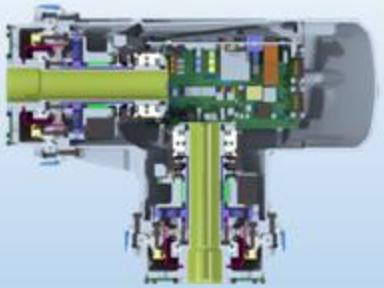


Modular fully compliant robotics arms including app. and control software

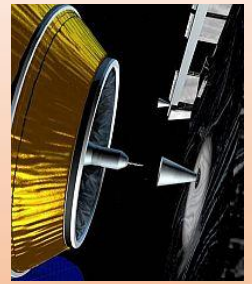
Rendezvous and docking software and simulator



KINETIK SPACE



Motion modules and controllers



End-Effectors and complex tools

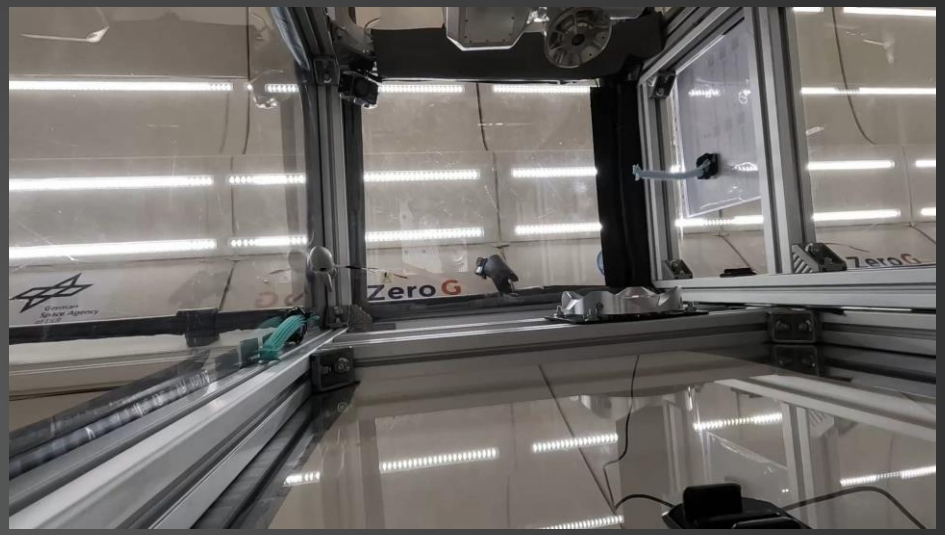
DLR-RMC: Overview space projects

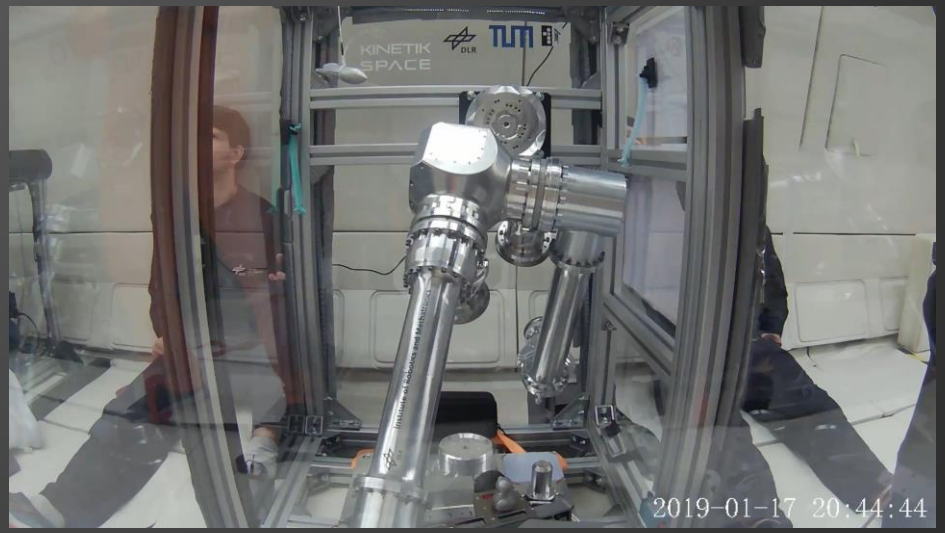
- ROTEX (1993): The first remotely controlled robot in space
- GETEX (1994): The first VR teleoperated robot in space
- ROKVISS (2005 – 2010): Robot at the outside of the ISS based on LWR technology
- KONTUR-2: Telepresence experiments (ISS ←→ Earth)
- CAESAR: Robot Arm for On-Orbit Servicing
- Spacehand: 4-finger Hand for On-Orbit Servicing
- MMX: Small-rover on mars moon Phobos




DLR

SpaceDREAM Parabolic Flight Campaign
Zero-G demonstration





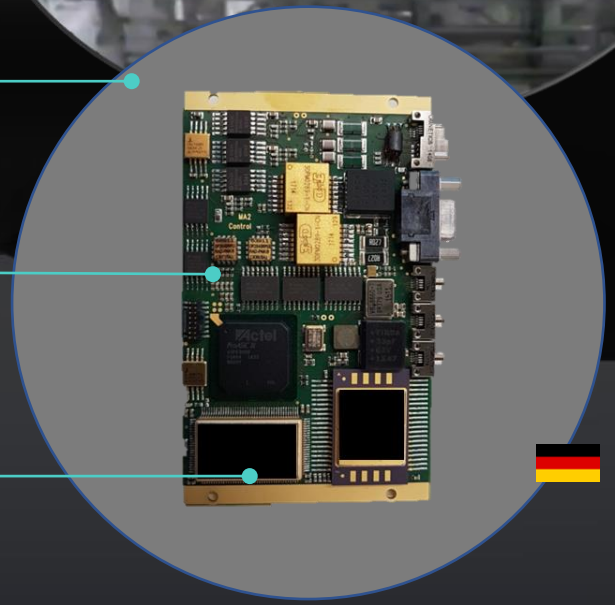
USP

Unique space torque sensor technology

Fully modular design

Patented technology

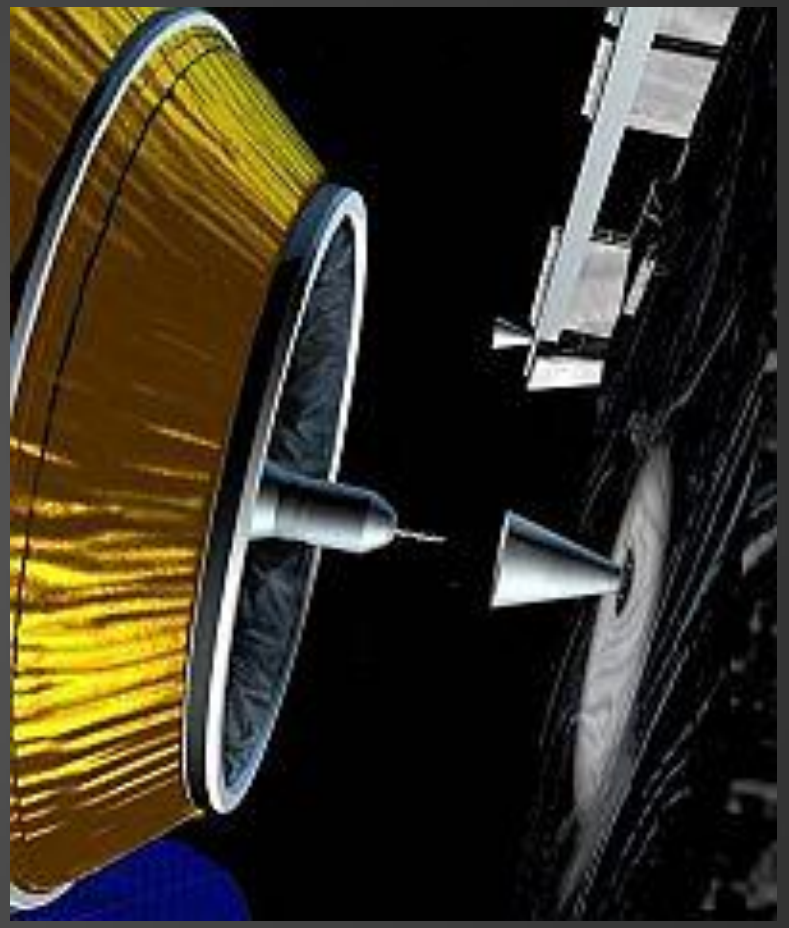
Unique control algorithm



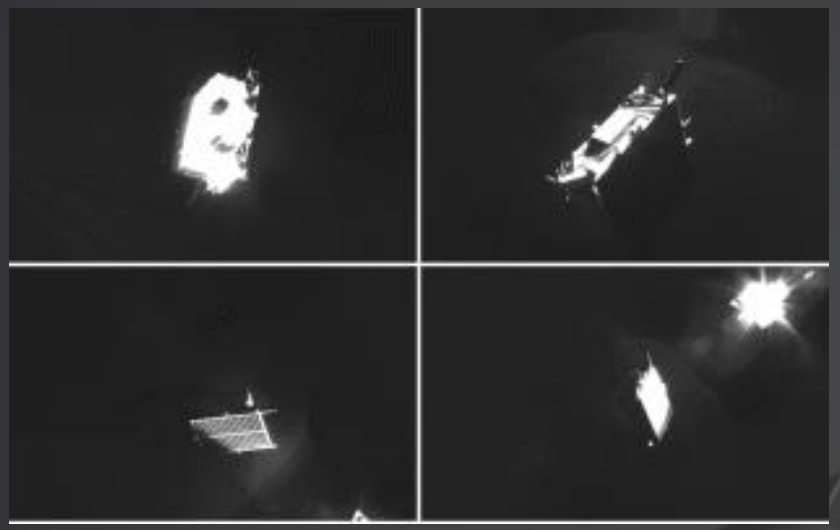
Full customer integration support

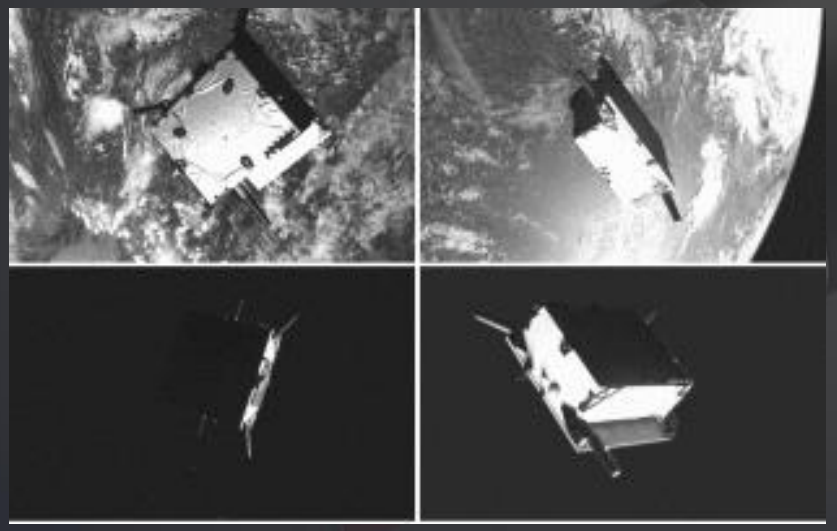
Backed by proven space technology from **German Aerospace Center**
+ Flight system know-how

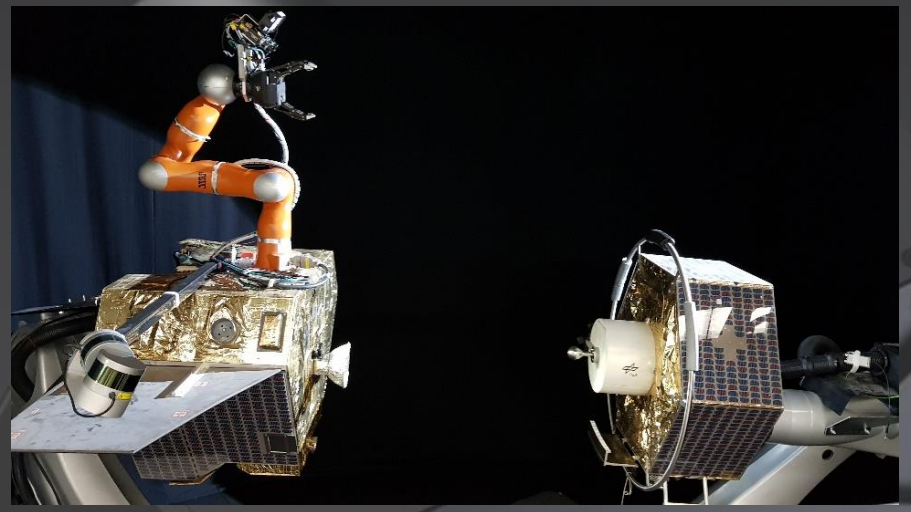
CAPTURE TOOL
For simple docking/life extension

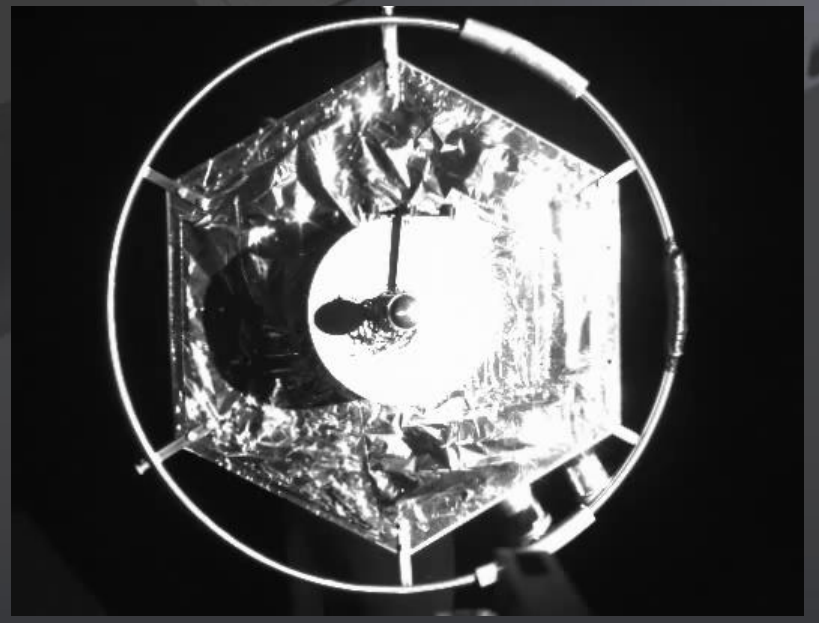


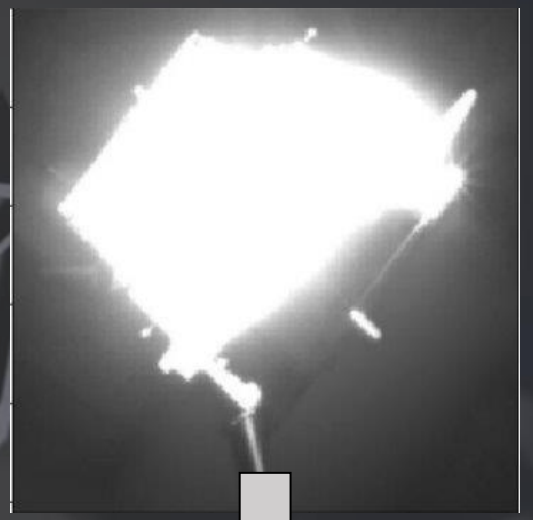
END-To-END OPS: AUTONOMIE (DLR)











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Contact details:
Maximilian Maier
maier@kinetik.space
+49 176 80 10 62 06