

Laelaps: Premier Rideshare Spacecraft Hosting KMI's Tech Suite for OOS & SAML

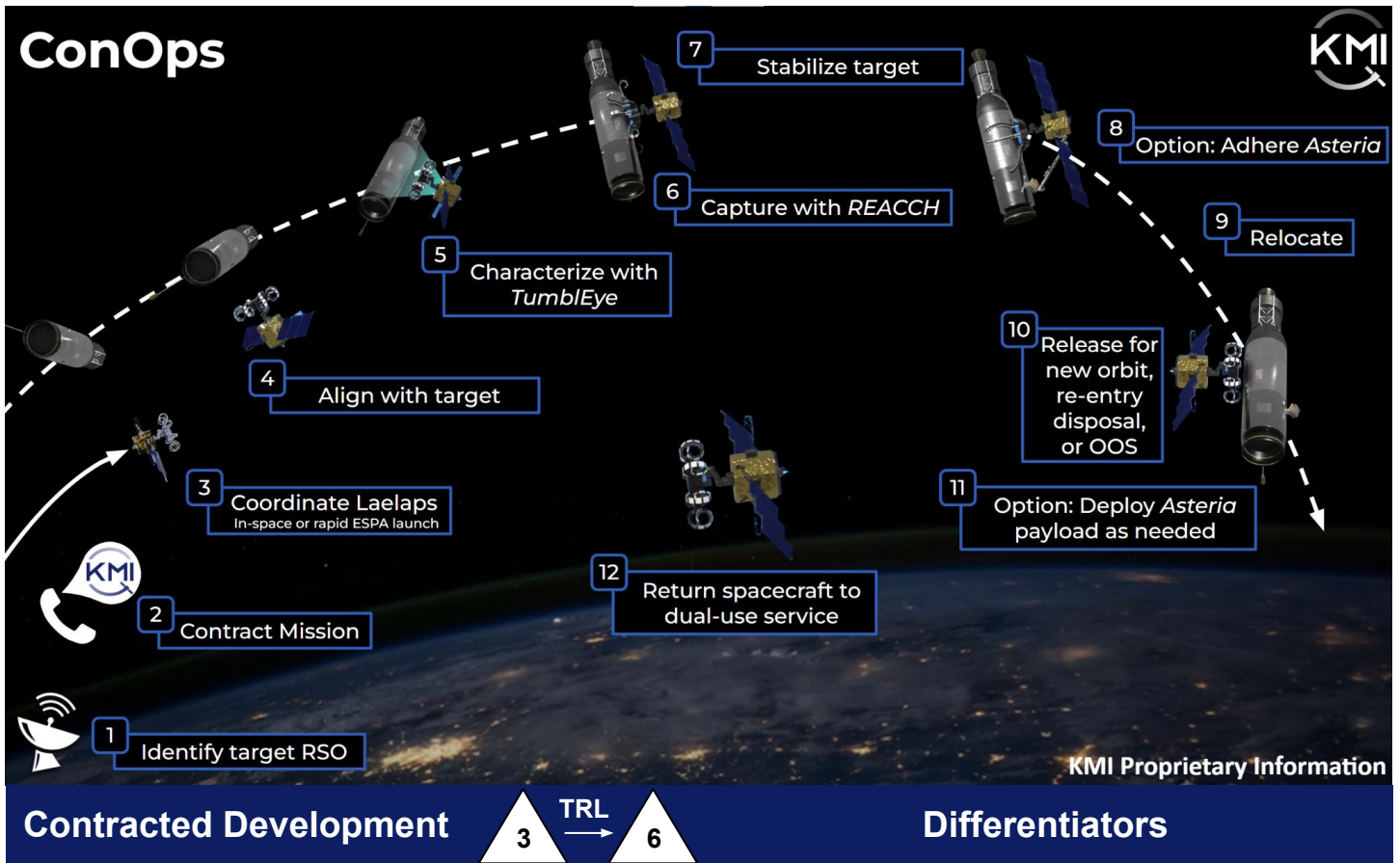
Laelaps is the spacecraft optimized for On-Orbit Servicing (OOS) and Space Access, Mobility, and Logistics (SAML). Using software efficiencies via TumbEye, ubiquitous capture via REACCH, and a separate deployable tagging device via Asteria, KMI will be able to retrieve, tag, and relocate objects with varying surfaces and geometries by 2026. KMI's technologies shown in the ConOps below include:



TumbEye: Machine vision software to determine Resident Space Object (RSO) tumble.

REACCH: Tentacle-like biomimicry docking hardware to secure RSO regardless of surface or shape.

Asteria: Secondary attachment module to secure additional payloads onto unprepared RSO surfaces.



Current: Analytical/experimental proof of concept.

Near term: System prototype demonstration in an operational environment.

Future: Operational service with completed missions.

2023-2024: Air Force Direct-to-Phase-II SBIR
Raw Resource Salvage and Shipment with Laelaps Autonomous Spacecraft

- **Legacy-compatible**, capable for unprepared and uncontrolled objects
- **Repeatable** for thousands of attachments
- **Responsive** launch with ESPA rideshare
- **Efficient** for time and resources in orbit

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UEI: DDLRDJ2PBS71
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 Valid **DD2345**