

# KALL MORRIS INC

## KEEPING SPACE CLEAR FOR ALL

Orbital debris threatens critical space-based technology through collision, loss of service, degradation, and destruction. With an ever increasing amount of satellites in orbit, there is an even greater amount of debris, with no active debris removal yet to occur. There are over 34,000 pieces of trackable objects in orbit, and estimates to maintain our current level of risk require ADR of 5-7 significant pieces per year.

**WHY** With an intrinsic optimism for a safe, sustainable, diverse use of outer space, KMI was founded to address orbital debris so as to allow a future use of space.

**HOW** As a start-up, KMI works from first principles, interdisciplinary perspectives, and the utilization of state-of-the-art technologies for efficiency in achieving goals. With no debris removal yet accomplished, KMI is entering as an achievable, affordable, and scalable solution to the exponential growth of space debris.

**WHAT** Our Active Debris Removal (ADR) effort is led by focusing on proprietary machine learning algorithms with advanced multi-element end effectors to characterize unknown objects and capture unprepared debris on initial approach in space. Combined with advanced technology recently made available, our systems are capable to handle debris removal missions, both large and small, sustainably.

As orbital policy and economic drivers shift and change, so has the debris of rocket bodies and previous missions. These targets are unable to avoid collisions, while also unable to provide rendezvous information or secure attachment. This is where KMI technology can solve the unknown and capture the uncontrolled.

### **About KMI**

Founded by graduates of Northern Michigan University after years in industry, KMI is growing in Michigan, and with our partners worldwide. KMI is a start-up with established expertise, and is a small business with a global mission, **keeping space clear for all.**

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