



## 2024 Q2: System Checks & Success

KMI has taken a healthy lead on tasks for the team, technology, and traction as we prepare for the ISS demonstration later this year. This growth has welcomed new members to our organization, developed relationships internal and external, and critically, continued to advance the crucial components necessary for in-space activities. Investors, partners, and customers continue to seek out our activities, drawing the #SpaceRangers across the country and continents as we remain focused on #KeepingSpaceClearForAll.

### Growth:

- ◇ KMI's technology development is making substantial strides. As of May 2024, our REACCH hardware has undergone Fit and Function testing at the NASA Ames Research Center, CA, in preparation for the ISS flight hardware handover this summer. This milestone marks the latest step in demonstrating the removal, relocation, and restoration of vital in-space assets by KMI.
- ◇ Employee Additions & Updates
  - [Gabby Muehlenbeck](#), Design & Communications Coordinator
  - [Preksha Madhva](#), Robotics Engineer
  - [Rose Schopfer](#), Internal Program Developer
  - [Cameron Penny](#), Business Relations Lead
  - Additional student interns will be working with KMI through [Innovate Marquette Smartzone](#) on Legislative Space, Robotic Actuation R&D, and Orbital Archiving, and through [Michigan Works](#) on Accounting & Bookkeeping
  - Current Space Rangers have expanded their roles, with [Dustin Walker](#) as National Security Relations Lead, [Maria Berishaj](#) as Mathematician, and [Mike Lundy](#) as HR & Project Management Associate following his [SkillBridge internship](#).

### Awards, Selections, & Successes:

- ◇ Awards
  - Recognized in the [Fast Company's 2024 Most Innovative Companies](#) in space list.
  - Named one of the [2024 Michigan 50 Companies to Watch](#), recognized by [Michigan Celebrates Small Business](#). This marks our third consecutive year receiving accolades from MCSB having received Best Small Business awards in [2022](#) & [2023](#).
- ◇ Selections
  - Following our concept summary submission, KMI was selected to submit a full proposal to the ISS [NLRA 2024-4](#): Technology Advancement and Applied Research Leveraging the ISS National Lab for demonstrating [Asteria](#), similar to ongoing REACCH efforts to ISS.
- ◇ Successes
  - Updates to our project [Fresnel](#) on the [Privateer Space Wayfinder](#) platform, advancing our commitment to transparent and efficient pricing for active debris removal (ADR). This [collaboration](#) with Privateer has refined the way pricing is determined for multi-target missions, ensuring sustainable operations in the orbital environment.
  - Announced a mutually supportive crucial [partnership](#) with [BlackStar Orbital Technologies Corporation](#). This marks an advancement in orbital debris mitigation technology, following signed agreements and included among multiple priced Letters of Intent for future efforts, resulting in a committed satellite retrieval mission by 2027.



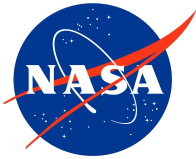
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### Submissions:

- ◇ KMI is looking to the future, having submitted the following:
  - DoD STTR 24.A Phase I (partnering with Northern Michigan University)
  - DoD SBIR 24.1 Phase I (partnering with LeoLabs)
  - NASA SBIR-2024-Phase I (partnering with Southwest Research Institute)
  - NRO BALISTA (AOI 1)
  - NRO BALISTA (AOI 2)
  - SDA STEC BAA Special Notice - Commercial Disposal Service Study



### Outreach:

- ◇ For early learners our efforts have continued by partnering with [noun](#) to empower students to become critical thinkers and problem solvers, on and off Earth. This partnership created the [noun air & space news](#), news for inspirational educators and aspiring space enthusiasts, and an educational design event named [RoboKitty](#) to encourage STEAM in elementary. KMI Space Rangers also visited the Upper Michigan [NICE Community School District](#) to inform educators and students alike.
- ◇ In higher education KMI has continued to support the local university, and the alma mater to many Space Rangers and the co-founders: [Northern Michigan University](#) (NMU). This includes supporting the [3 Minute Thesis](#), [Celebration of Student Scholarship](#), [NMU Majors fair](#), and NMU/MARESA High School Career Day events.

### Upcoming Conferences & Events:

#### December 2023

- ◇ At the [NewSpace Nexus](#) LaunchPad in Albuquerque, NM, Troy M. Morris presented and joined the celebration of the successful first year of the [NewSpace Ignitor](#) program at the [NewSpace Nexus ShowSpace Summit](#).

#### January 2024

- ◇ Hardware technology samples were shown by the Space Rangers attending the [Spacecom 50th Space Congress](#), including Maria Berishaj, Liza Fust, Austin Morris, and Troy M. Morris in Orlando, FL. KMI unofficially won “the friendliest booth” by attendees.

#### February 2024

- ◇ Traveling to New Zealand, Adam Kall and Austin Morris attended the [Orbital Debris Remediation Summit](#) hosted by [Secure World Foundation](#) in partnership with [LeoLabs Space](#).
- ◇ In Phoenix, AZ, Dustin Walker attended the [DARPA Connect Pop-Up](#) to further our ongoing engagements with innovation solicitations.
- ◇ In relation to ongoing fundraising, Troy M. Morris had the pleasure to meet with potential investors across Europe, including stops in Portugal, Spain, Germany, Switzerland, and the United Kingdom, with the majority of current investment still from sources within the USA.

#### March 2024

- ◇ KMI was invited by partners to visit [Lloyd's of London](#), discussing re-insurance, space insurance, and the (hopefully metaphorical) intersection of space debris.



- ◇ Troy M. Morris presented at the [Oxford event](#) of the Creative Destruction Lab Space Stream, of which KMI is both an alumni and invited participant to support current space entrepreneurs.
- ◇ Sam Cassidy and Zack Champion gave a guest lecture with [AIAA](#) at [Michigan Technological University](#), in Houghton, MI.

#### **April 2024**

- ◇ With our largest-yet attendance at the [39th Space Symposium](#), the KMI Space Rangers Maria Berishaj, William Payne III, Liza Fust, Cameron Penny, and Troy M. Morris connected with peers, partners, providers, and customers at the annual Colorado Springs event.
- ◇ Liza Fust, KMI's Director of Operations, was accepted to virtually attend the [Space Generation Advisory Council's Space Generation Fusion Forum](#). At SGFF, students and young professionals from around the world “fuse” their unique perspectives and backgrounds to formulate solutions to global problems of interest and importance to the space community.
- ◇ Participating with space industry experts, Troy M. Morris joined [NewSpace Chicago's](#) panel on The State of In-space Servicing, Assembly, and Manufacturing (ISAM) event.
- ◇ Hosted by [Arkisys](#) in Los Alamitos, CA, KMI supported and presented at an invitational space servicing demo attended by SpaceWERX, USSF, and Aerospace Corporation officials.

#### **May 2024**

- ◇ As a program alumnus, KMI participated in the final [Creative Destruction Lab Space Stream](#) event before the graduating Super Session of all entrepreneurial cohorts in June.
- ◇ Preksha Madhva attended the [Automate 2024](#) conference in Chicago, IL, with a focus on emerging trends and technologies in the robotics field.
- ◇ KMI is presenting at the [IAA Conference on Space Situational Awareness \(ICSSA\)](#) at Embry–Riddle Aeronautical University in Daytona Beach, FL. The first paper is titled “Orbital Debris Remediation via Collection Station,” written by Bao-Minh Hoang and Adam Kall, and presented by Troy M. Morris. The second was delivered as an invitational Keynote Address, titled “Keeping Space Clear & Knowing Where It Isn't,” written by the KMI Space Rangers.
- ◇ Corinne Moore will be attending the [RPO Workshop](#) and [Cosmic Convergence](#) events in Logan, UT, to meet and learn with fellow industry members.
- ◇ KMI will receive a [50 Companies to Watch](#) award at the [Michigan Celebrates Small Business](#) gala in East Lansing, MI, with multiple team members attending our 3rd straight ceremony
- ◇ Troy M. Morris and Cameron Penny will be attending the [2024 State of the Space Industrial Base \(SSIB\)](#) conference in Albuquerque, NM.

#### **Upcoming in 2024**

- ◇ KMI will be at [ISSRDC](#) (July 30 - August 1, 2024) in Boston, MA.
- ◇ The REACCH [microgravity ISS testing](#) will launch in late 2024. Further announcements nearer to the scheduled launch, and following demonstration, will be made prior to those events.
- ◇ KMI will participate and assist in planning [CONFERS GSSF&E](#) in Arlington, VA (Nov 13 - 14).

Stay tuned for our future events and ongoing opportunities!

We thank you for your continued engagement and look forward to sharing even more with you throughout the year. With your support, KMI can accomplish our mission of  
**#KeepingSpaceClearForAll.**