

Development of a small hybrid thruster for a small spacecraft (Letara Ltd.)



City	Year of Establishment	Founder
Sapporo, Hokkaido	2020	Shota HIRAI Landon KAMS Harunori NAGATA

Partner VC	Latest round of Fundraising	Valuation
SBI Investment	Pre-Seed	Non-Disclosure

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○ Business Plan
Spacecraft such as satellites need propulsion systems with high thrust for large-scale space travel, but until now they have used extremely dangerous propellants that are toxic, flammable, and explosive. Letara, a start-up company from Hokkaido University, has been researching and developing a hybrid chemical propulsion technology that uses plastics as fuel. By applying this technology, we will realize the world's first innovative propulsion system that simultaneously satisfies safety and thrust and gives small satellites freedom of movement.

○ Research Outline
This R&D will build on the hybrid chemical propulsion technology that has been developed at Letara and optimize it to fit into a small size. Using the technology officially licensed from Hokkaido University, we will develop a safe and high thrust hybrid chemical propulsion system fueled by plastic, and conduct a PoC for commercialization.

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Aerospace	STS 2023～2024FY	JPY 236 million	—