

Space demonstration of hybrid chemical propulsion using plastic as fuel (Letara Ltd.)



City	Year of Establishment	Founder
Hokkaido Sapporo city	2020	Shota HIRAI Landon KAMPS Harunori NAGATA

Partner VC	Latest round of Fundraising	Valuation
Incubate Fund Co., Ltd.	Seed	Non-Disclosure

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○ Business Plan
By utilizing hybrid rocket technology that employs a solid fuel and a liquid oxidizer, and using plastic as the fuel, we aim to develop a propulsion system that offers thrust comparable to that of liquid propulsion systems, while eliminating the risk of explosion. This results in a safe and high-thrust solution. By addressing the issues of explosiveness, danger, and high cost inherent in existing engines, our mission is to develop cutting-edge engines for fast and safe space travel.

○ Research Outline
In the initial market, the goal of this project is to conduct a subscale space demonstration, with the aim of eventually providing a propulsion system for maneuvering in space that enables safe orbital transfers. This system will initially target small spacecraft with a mass of 200 kg or less, and later expand to support larger spacecraft exceeding 200 kg.

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Aerospace	PCA 2025～2026FY	JPY 998 million	Europe