

Establishment of mass production technology for a propulsion system using water as a propellant for artificial satellites. (Pale Blue Inc)



City	Year of Establishment	Founder	Website
Kashiwa City, Chiba Prefecture	2020	Jun Asakawa Kazuya Yaginuma Yuichi Nakagawa	https://pale-blue.co.jp

Partner VC	Latest round of Fundraising	Valuation
Incubate Fund	Series B First Close	Non-Disclosure

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○ Business Plan

In the space industry, satellite constellations that coordinate and collaborate multiple small satellites are becoming mainstream. In this project, we aim to develop and demonstrate mass production technology for propulsion systems using water as a propellant. The goal is to establish a system for the mass production of propulsion systems, meeting the demands of satellite constellation operators for cost-effectiveness, short delivery times, and stable quality.

○ Research Outline

In this project, our goal is to establish a mass production system that is cost-effective, has a short delivery time, and maintains stable quality. We are focusing on the following developments:

- ①Reduction of the number of components
- ②Shortening the lead time from order placement to shipment
- ③Establishment of testing methods and procedures suitable for mass production
- ④Stabilization of product quality for mass-produced prototypes

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Aerospace	DMP 2023~2024FY	JPY 499 million	—

As of February,2024