Dec, 2020
Interstellar Technologies Inc.

Rocket Development Startup “Interstellar Technologies,” to Establish a New Company, “Our stars Inc.” , Entering the Satellite Business Field.

To expand into three businesses: Innovative communication satellites, Earth observation satellites, and Space experiment satellites with recovery capsules.

Obihiro, Hokkaido - Tuesday, December 25, 2020
Interstellar Technologies Inc（Memu Taiki Town Hokkaido, JAPAN, CEO: Takahiro Inagawa, hereinafter referred to as “IST”） is a rocket development startup with a mission to “create a future where everyone can reach space.” IST is pleased to announce that it will establish a subsidiary company, Our stars Inc (hereinafter referred to as “Our stars”), and enter the satellite business in early 2021.

IST has been developing the sounding rocket “MOMO” and the small-satellite launch vehicle “ZERO” under the product concept of “the world’s most affordable and convenient launch vehicle. In recent years, rocket development companies worldwide have been using their rockets to develop new satellite projects. The emergence of a vertically integrated business model in which rocket development companies use their vehicles to launch their satellites has brought a significant revolution in the space industry.

【Outline】

- Company name : Our stars Inc.
- Establishment date : Early 2021
- Executive officers : Takafumi Horie (President), Takahiro Inagawa (Officer)
- Business activities : Proposing business using satellites and other technologies
  Research & development, manufacturing, and operation of satellites
- Capital: Established as a wholly-owned subsidiary of IST.

Bring a significant revolution by a vertically integrating rocket and satellite.

Conventional space utilization includes three fields: "Satellite Communications" such as satellite telephony and BS/CS broadcasting, "Earth Observation (remote sensing)" represented by meteorological observation and information gathering satellites, and "Space Experiments" on the ISS (International Space Station). Together with "Our stars," IST will bring technological innovation to the three fields of space utilization by combining small rockets and small satellites with building a platform in space. One of the advantages of a rocket development company providing satellite services is that it can optimize both the rocket and the satellite, for example, by customizing the vehicle to meet the satellite's specifications, thus providing end users with cheaper, faster, and more convenient services.

The three main advantages of rocket development companies also developing services utilizing satellites are as follows.

- **Reasonable**

By developing satellites optimized for "ZERO," we can reduce the satellite structure's margin and separation parts. As a result, we can achieve lower service fees for end-users.

- **Speedy**

Satellite constellations require a long time to place the satellite into orbit. By providing a one-stop service for both launch vehicles and satellites, we can secure launch vehicle production and launch opportunities according to plan, thus enabling the early construction of a satellite constellation.

- **Precise**

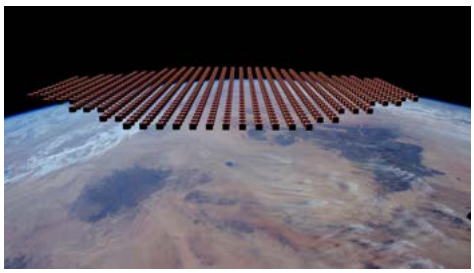
Small rockets are suitable for delivering satellites with pinpoint accuracy to specific satellite orbits such as low orbit (150km~200km). By integrating the service with the launch vehicle, we can precisely deliver satellites to the desired trajectory.

Service

Service 1

Communication satellite service using nano-satellite auto-formation flights

Thousands of nano-satellites the size of ping-pong balls will orbit in a desired formation. Each satellite cooperates with the others to function as a large antenna, achieving communication performance superior to large satellites. This service will create a communication network that enables satellite communication even from small antennas on the ground. The overall function will be maintained even if some satellites break down since the antenna consists of hundreds and thousands of satellites.



Service 2

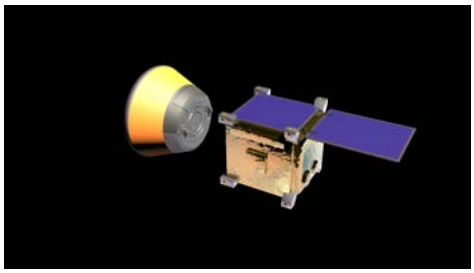
Earth Observation Service by Very Low Altitude Remote Sensing Satellites

Nano-satellite orbits at a very low altitude (150km~200km) to observe the Earth's surface. Since it orbits at a very low altitude, it can take high-resolution photographs. Conventional high-resolution (less than 1m) satellites are high-performance and expensive, but Japanese space agencies have already developed high-resolution and very-low-altitude satellites. Integration with the launch vehicle is key to delivering the satellite to the specific orbit of very low altitude and is one of our company's strengths as a rocket company.

Service 3

Providing opportunities for Space experiments (zero-gravity experiments) in the post-ISS era. Space Experiment Satellite + Recovery Capsule

With a weight of around 100 kg, the satellite will provide a zero-gravity environment for future experiments in space with our space experiment satellites. The ISS (International Space Station) will be reviewed for future operations by 2024, and we will provide a zero-gravity environment for future experiments in space with our space experiment satellites. We will make space experiments even more accessible by enabling early and frequent experiments.



Company Profile

- Company Name : Interstellar Technologies Inc.
- Location : Memu 690-4 Taiki Town Hokkaido, JAPAN 089-2113
- Business Outline : Development of rocket vehicle, Launch service provider.

Contact

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