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株式会社Synspective

Company Description

Synthetic Data for Perspective
Our cutting edge technology, data analysis and UI/UX have been developed and customised to suit your business needs.

Mission: Synthetic Data for Perspective

Vision: Efficient, accountable and resilient world

Our service
We combine satellite data with our customers' data to provide and jointly develop new data solutions that are expected to generate synergies and benefits.
Synspective is available as a subscription-based "Solutions" and as a prototype "β Solutions".

Solutions

- **Land displacement monitoring**

Our unique inSAR* analysis detects fluctuations over a large surface area, in chronological order, with SAR satellite data which has a millimetre-level accuracy.
You can reduce the time and costs of traditional observation or management techniques.
*InSAR - Interferometric SAR. The technology to detect land displacement with millimetre accuracy.

β Solution

- **Facilities monitoring**

Using this product, our clients can assess the activity of the facility, as well as receive an alert when abnormal activity is detected.

- **Instant flood damage analysis**

Water body detection for disaster risk reduction.While optical images are mostly subject to cloud coverage and weather conditions, our SAR satellite can extract data under any weather condition.

- **Solar potential area mapping**

Using our area mapping capabilities, clients can find suitable locations for solar power plants or for roof top solar power facilities.

Satellite
Our Satellite: StriX
Named after “Strix uralensis”, the scientific name of the owl, our 100kg class SAR satellite can gather data 24 hours a day, 7 days a week, regardless of weather conditions.
The owl is known for its keen eyesight, and like its animal namesake, the StriX satellite constellation can target data with a ground resolution of 1-3m, single polarized (VV), and a swath width of more than 10-30km.
The StriX observation modes are Stripmap and Sliding Spotlight mode and each satellite has an SAR antenna that is 5 meters in length and stowed during launch. The simple design of the satellites allows for affordable development of the constellation.

The development of the SAR originally began as part of the Japanese government’s program called ImPACT (Impulsing Paradigm Change through Disruptive Technologies Program). As a result, the development team consists of experienced members and reviewers from space and consumer product industries with universities and space agencies.

Where Satellite Development Meets Data Analysis

- **Solution-driven development**

Our ability of agile satellite development and an agile analytics development approach sets us apart from others in our industry. Our reputable teams combine developmental goals with our clients' specific needs in order to deliver the highest quality service in data analysis.

- **Global Monitoring System for Society's Needs**

In order to maintain a reliable knowledge of the global economy, we are in the process of developing a global monitoring system which will be launched in 2020 and 2021, these will be the first generation of satellites, StriX-α and StriX-β.

The second generation of satellites are four satellites that allow for commercial data acquisition. These satellites will be built in an industrialized manner and will reflect an updated experience, as well as cater to updated customer needs.
These satellites will achieve the daily monitoring and data extraction of major Asian cities.

The third generation would be the creation of an SAR satellite constellation of more than thirty satellites which will collate the data of all metropolitan centres on a daily basis.

Company Details

Head Office
Japan

Main Business
衛星データを使用したソリューションサービス、小型SAR衛星の開発と運用

President
Motoyuki ARAI

Established
2018年2月22日

Capital
2,950 Million JPY

URL
https://synspective.com/

Offices

Main Office
THE BREW KIYOSUMISHIRAKAWA 1F
3-10-3 Miyoshi, Koto-ku
Tokyo, Japan, 1350022