



SPACE SHIFT

Sense the Unseen from Orbit

**Satellite-Based
Land & Green Monitoring for
Smart Cities**

Space Shift Inc.

Space Shift solves social issues on Earth with Space × AI

Company Name	Space Shift, Inc.
CEO	Naruo Kanemoto
Capital	703 million JPY
Establishment	11 December 2009
Number of Employees	30FTE + 50< interns
Location	Inspired.Lab, 6th floor, Otemachi Building 1-6-1 Otemachi, Chiyoda, Tokyo 100-0004 Japan
Other Locations	Tottori, Japan/ US / EU(Planning)
Web site	https://www.spcsft.com/en
Business fields	Development of software for satellite data analysis, business related to the analysis of satellite data, consulting related to space business



Space Shift focuses on developing AI for data analytics to provide solutions with high precision and efficiency.



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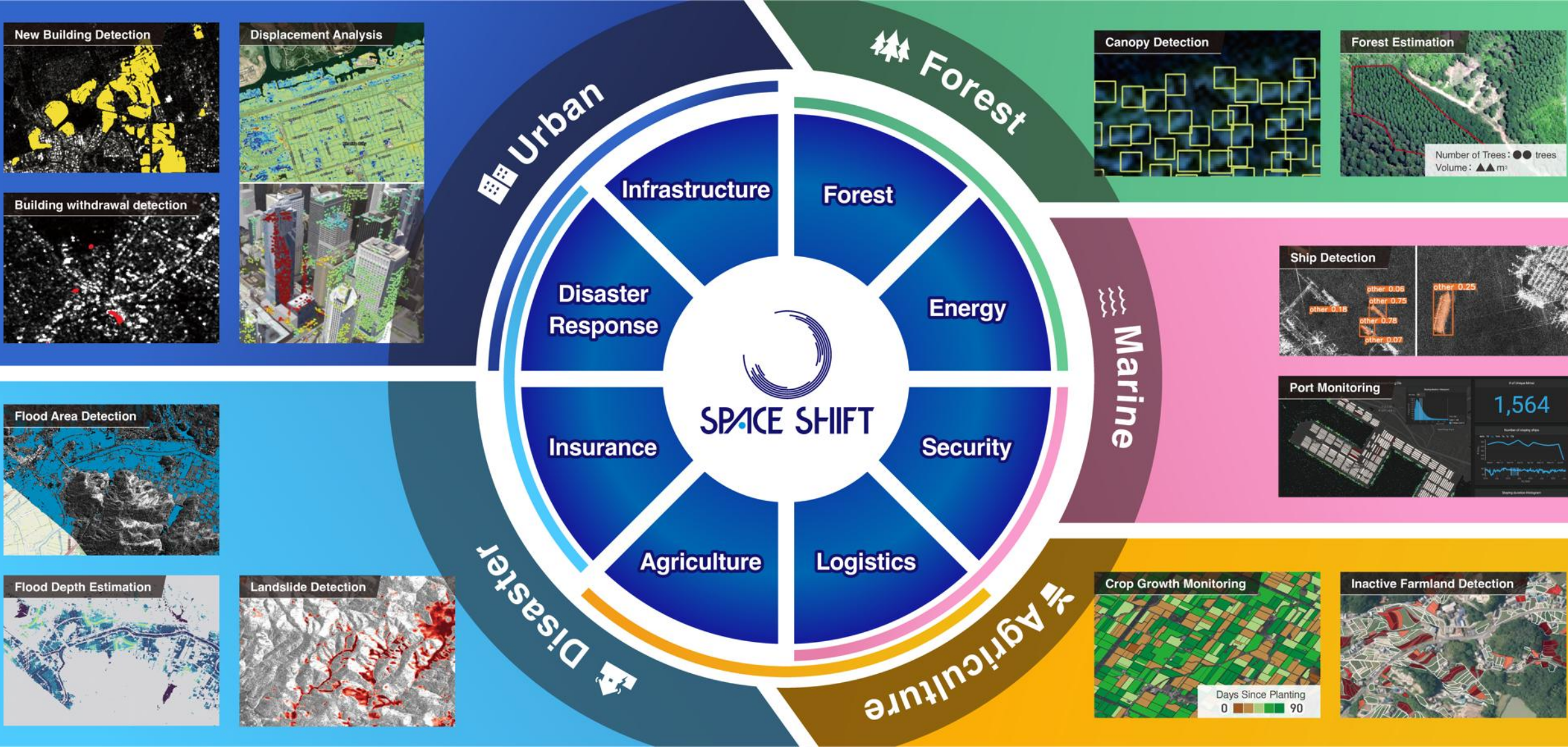


By focusing on AI analytics development for SAR satellite data processing,
we achieve high-precision analysis



By creating an environment where satellite data can be used efficiently,
we lead the expansion of the satellite data utilization market.

※ SAR : Synthetic Aperture Radar



Leverage satellite data to monitor Land Coverage, Idle Farmland, Tree Health, contributing to the planning and operation of smart cities.

Satellite-Based Land & Green Monitoring

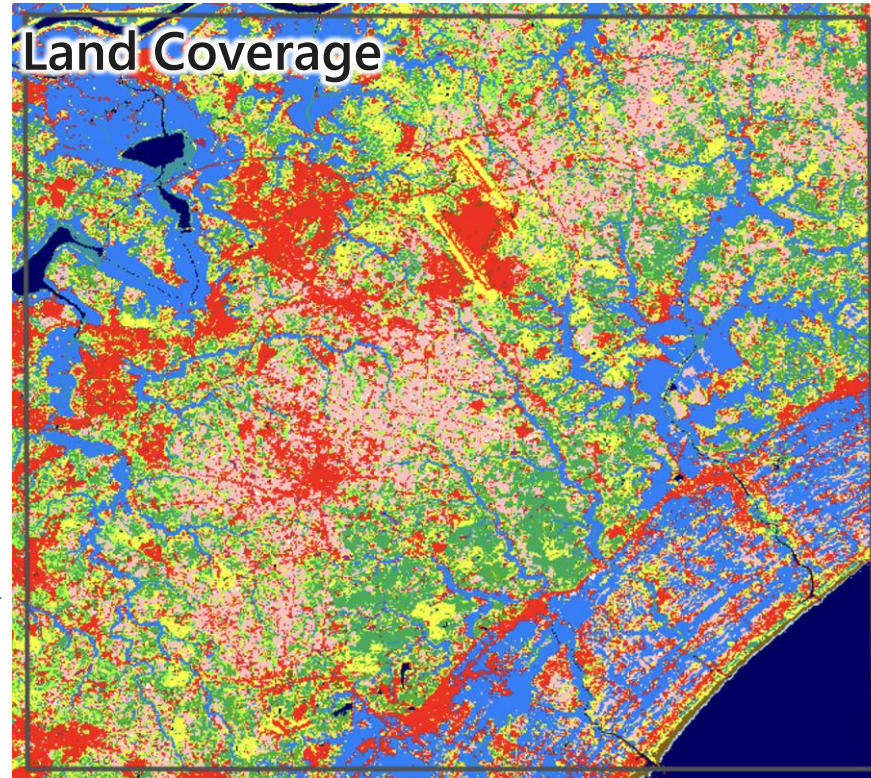
Land Cover

Idle Farmland

Tree Health

Planning and Operating Smart cities

Land cover is classified into 18 categories, referring to JAXA's Land Use and Land Cover Maps. By identifying the overall characteristics of a city, urban planning can be carried out more efficiently.



Legend (18 Types)

Water	EBF	Wetland
Built-up	ENF	Greenhouse
Paddy	DNF	Rock reef
Cropland	Bare	Building
Grassland	Bamboo	Road
DBF	Solar	Railway

Land cover analysis specialized for building detection.
Reduces aerial photography costs and the burden of on-site surveys.



Aerial Photography
Cost reduction



On-site survey
Burden reduction

Idle farmland is a growing issue in Japan, driven by the rapid aging of the farming population. Identifying areas with a high likelihood of idle farmland enables effective farmland utilization.

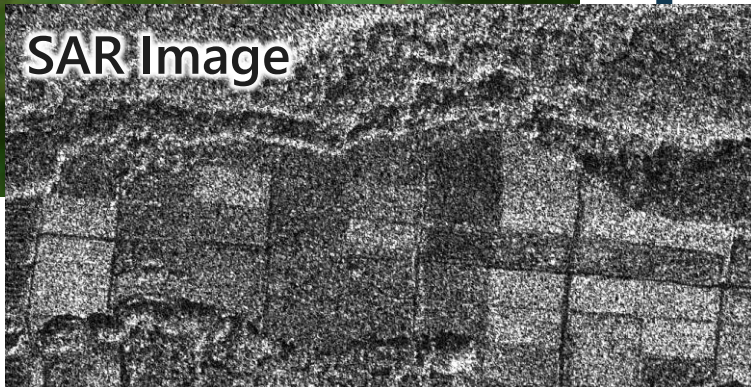
Onsite Picture



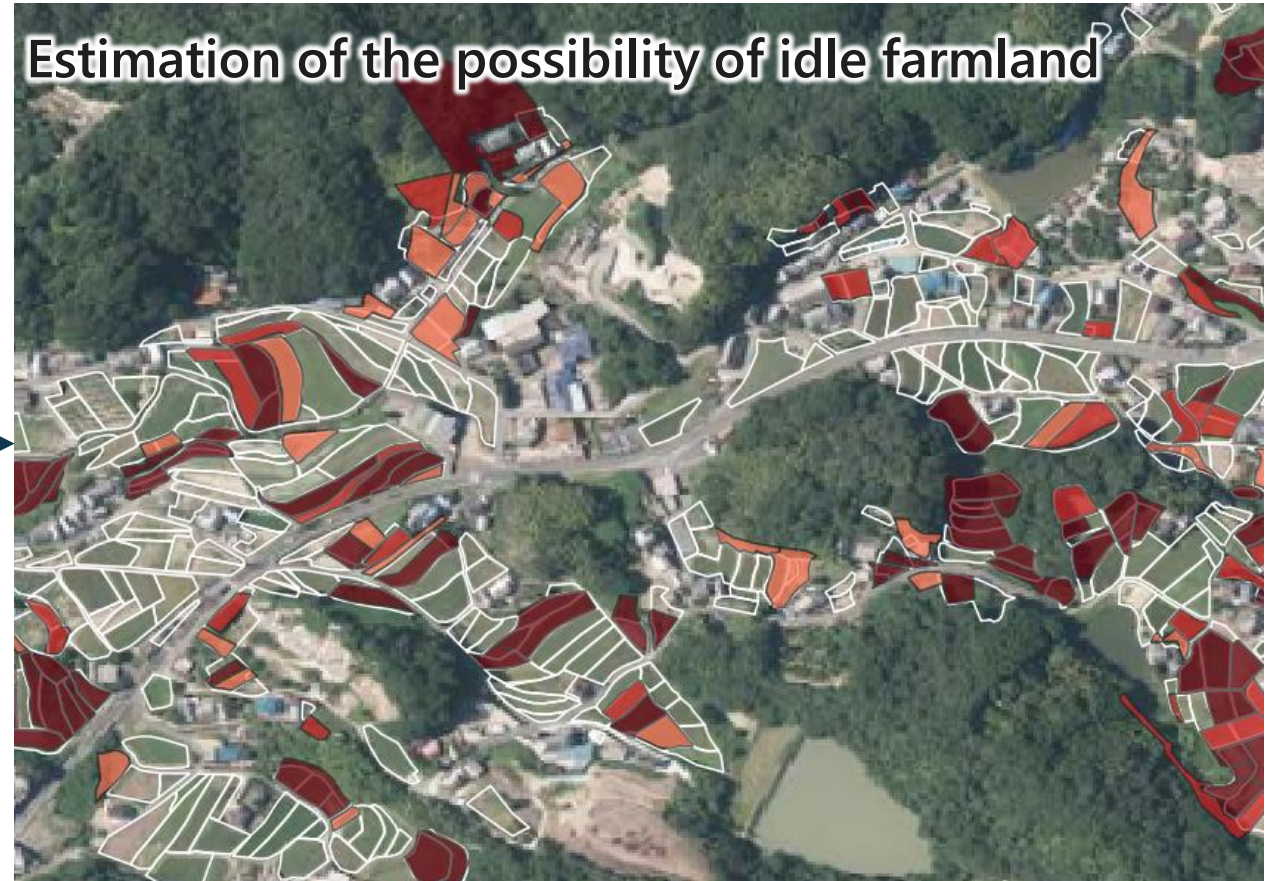
Optical Satellite



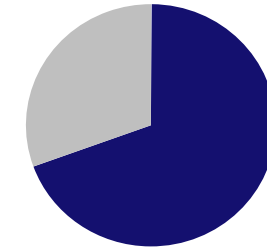
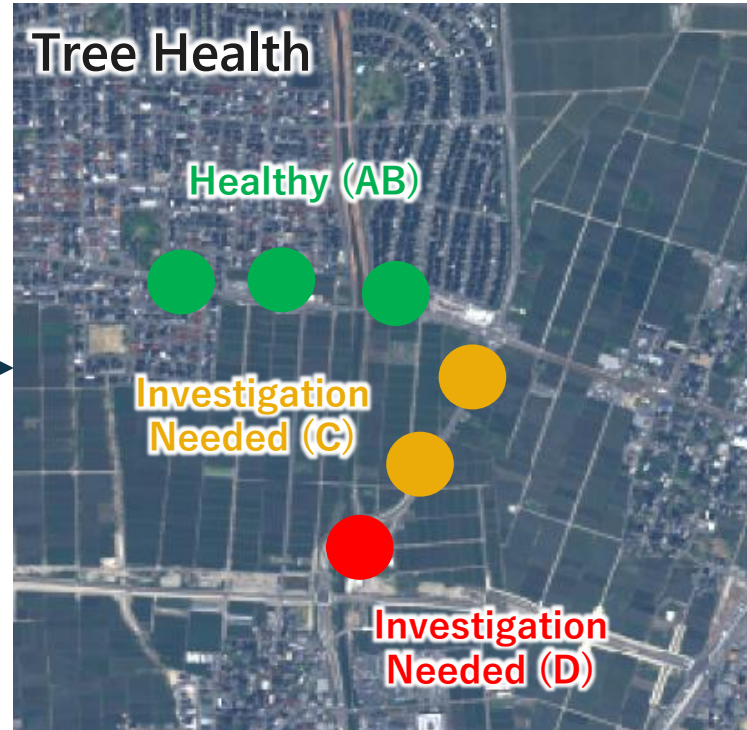
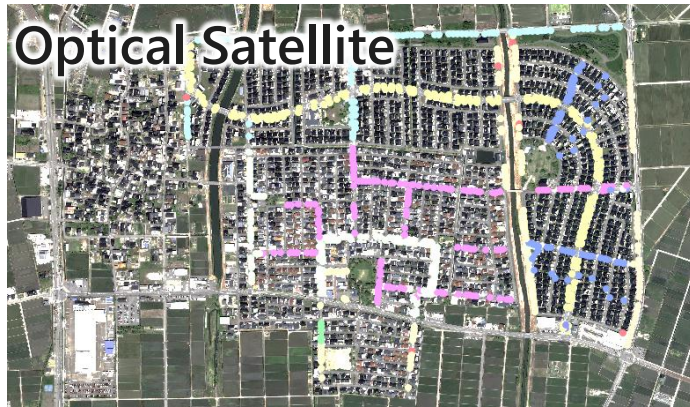
SAR Image



Estimation of the possibility of idle farmland



Aging street trees have increased the risk of fallen-tree accidents. By classifying tree health into four levels, an experiment achieved an accuracy rate of 65–75% and may reduce workload by up to 40%.



Accuracy Rate
65-75%



Survey Workload
reduction ~40%

Satellite monitoring supports every stage of urban planning:
assess the city, utilize idle land, manage green assets.

Land Cover

Assess / Survey

Land use and building mapping

Up-to-date land and building data for zoning review, with fewer aerial surveys

Idle Farmland

Target / Utilize

Underutilized land inventory

Find under-used parcels early and target them for reuse or consolidation

Tree Health

Manage / Safeguard

Street tree risk assessment

Inspect high-risk trees first, preventing accidents with ~40% less workload

Planning and Operating Smart Cities

Next step: Start with a pilot in your city

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