Forum for Approaches to Air Pollution and Climate Action

SPACE SHIFT

Sense the Unseen from Orbit

# Unlocking Global Solutions Through Integrated Satellite Intelligence


Tamao Tada

Chief Business Officer (CBO)

# Space Shift solves social issues on Earth with Space × AI

| | |
|---|---|
| Company Name | Space Shift, Inc. |
| CEO | Naruo Kanemoto |
| Capital (including capital surplus) | 703 million JPY |
| Establishment | 11 December 2009 |
| Number of Employees | 30FTE + 50< interns |
| Location | Inspired.Lab, 6th floor, Otemachi Building<br>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 |

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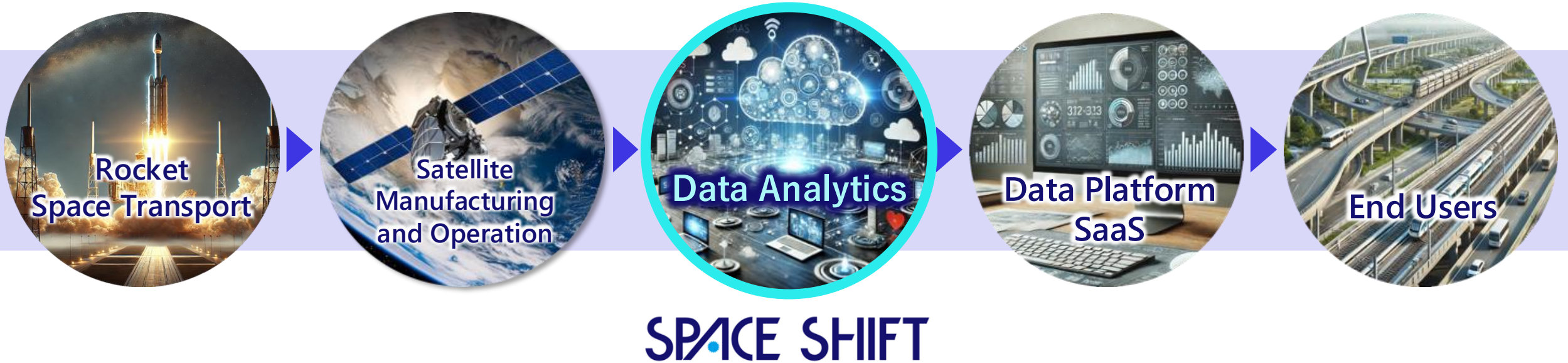
**The number of earth observation satellites has been increasing recently.**
**The key to promoting the utilization of satellite data is transforming big data into valuable information.**




**By focusing on AI analytics development for satellite data processing,**
we turn vast satellite data into actionable insights.

**By providing space-based insights through our high-precision AI-driven data analytics,**
we drive the expansion of the satellite data utilization market.

※ SAR： Synthetic Aperture Rader

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# Space Shift's Solutions by Space × AI

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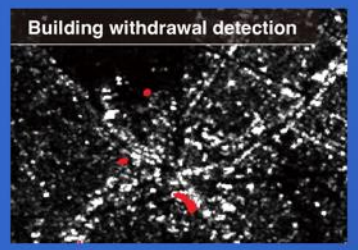

Urban

Forest

Marine

Agriculture

Disaster

Infrastructure

Forest

Energy

Security

Logistics

Agriculture

Insurance

Disaster Response

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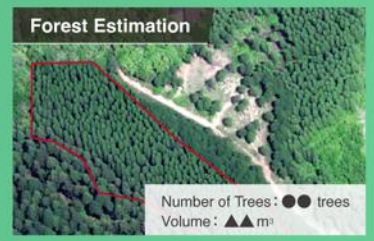


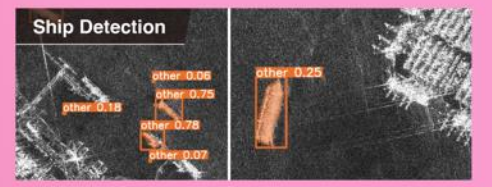

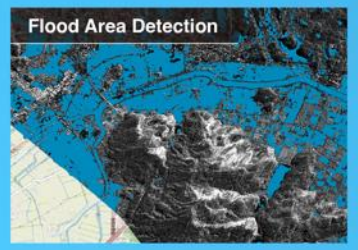


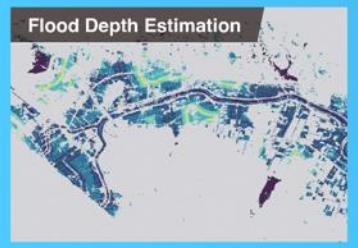


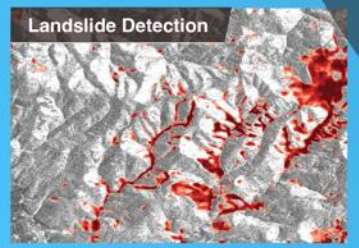

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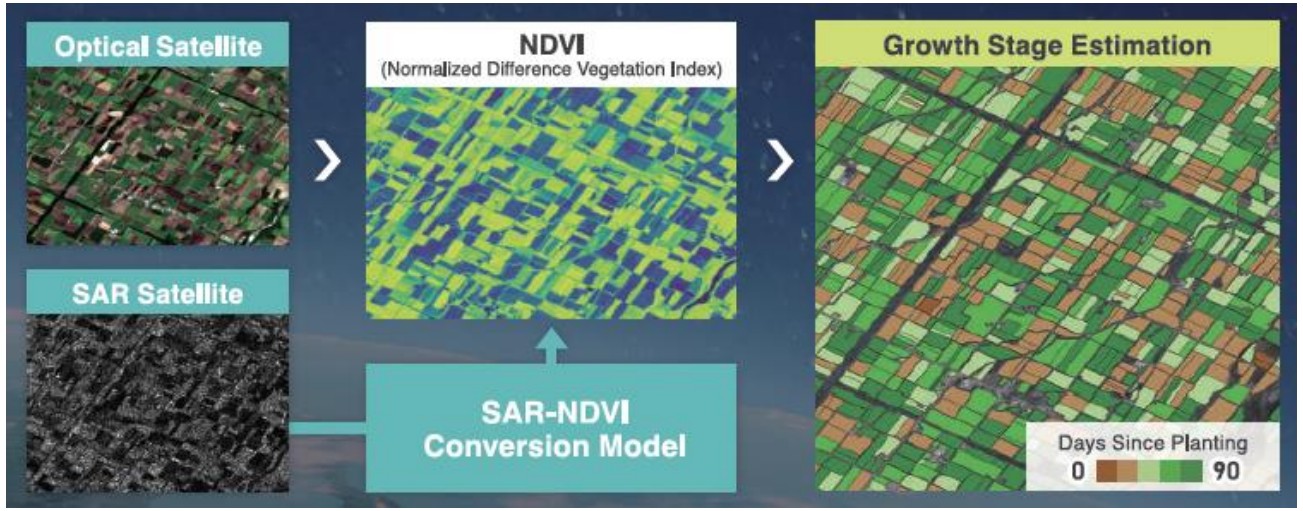
# Utilizing satellite data analytics to achieve sustainable agriculture in Africa




- Estimation of planting/harvesting timing using time-series data
- Estimation of past harvest performance (track record and capability of farmlands)
- Prediction of this year's harvest volume

## Expected Effects

### Access finance Services for farmers

- Utilizing our satellite data analytics AI for credit scoring for farmers, enabling them to access financial services.

### Supply Chain Optimization

- Provide information about harvest timing and expected volumes to food and logistics companies, contributing to the reduction of food loss and GHG emissions, as well as to effective marketing.

### Sustainable Agriculture by satellite data and AI

- Collaborating with local companies and governments in Africa to realize data-driven Smart Agriculture

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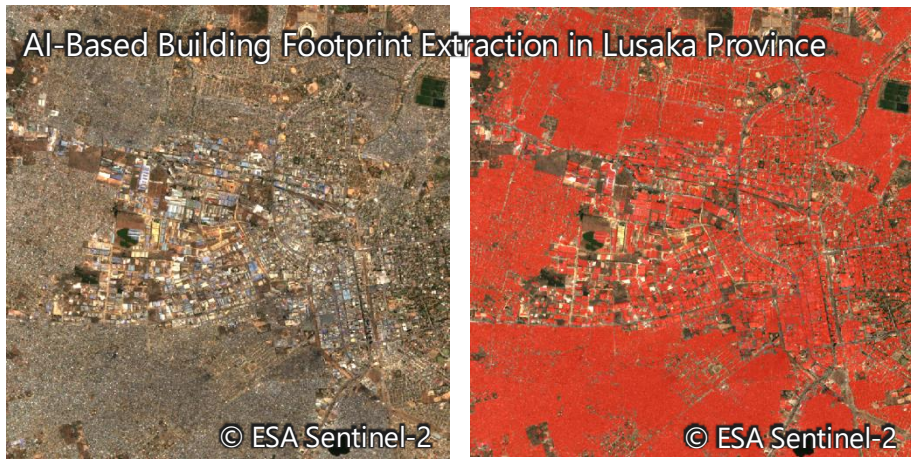
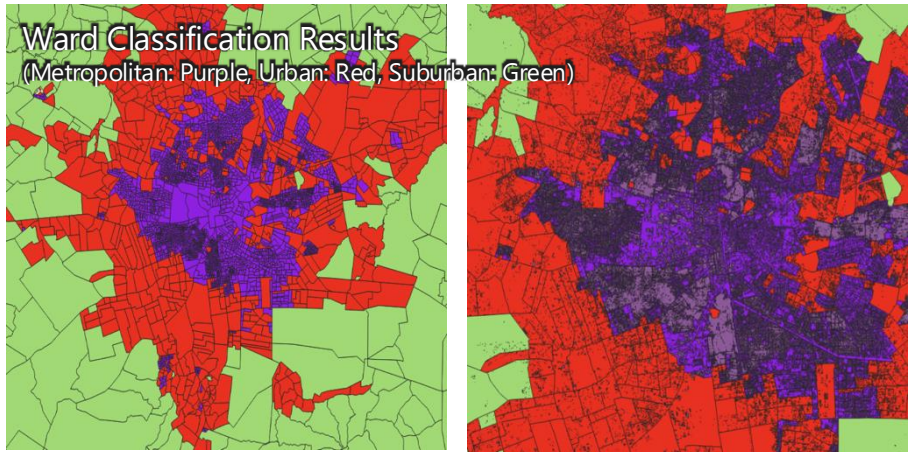
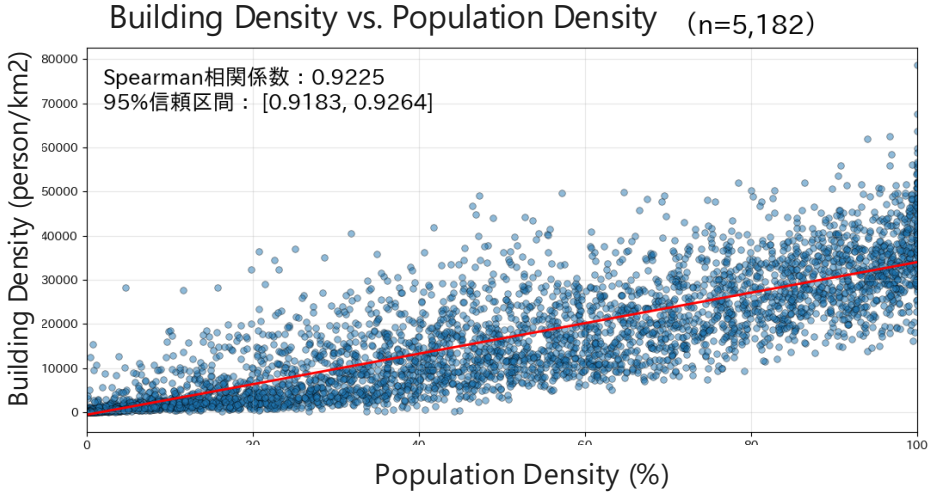
# Population Dynamics Estimation for Water Demand Forecasting Using a Building Detection Algorithm

## Building Footorint by Satellite data




## Analysis of Correlation




## Expected Effects

- By integrating the building detection algorithm, **dynamic water demand estimation becomes possible**
- The methodology is globally scalable and **applicable to water demand master planning in countries worldwide.**

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