

# IHI Jet Service Co., Ltd.

## Improving visualization and traceability for cross-border supply chain



### Objective of the project

Providing real-time container vessel information using satellite AIS technology to industry's first AI-based digital customs clearance platform, IJS demonstrated services to visualize information and reduce import-related costs by integrating the container vessel information with trade data.

Major ports around the world are experiencing significant disruptions in transportation schedules due to increased cargo traffic and container shortages. The Philippines, where this project was conducted, is no exception, and the time and cost required for import customs clearance is the worst among ASEAN countries.

### Collaboration with local companies/governments

Local partner : HAKOVO PTE., LTD.



HAKOVO cooperated on the following two points.

- Technical: Development of a system to reflect our provided data in the digital customs clearance platform "SmartClear".
- Marketing: System linkage with Shimizu Corporation and government agencies (customs, etc.), which are end users of the demonstration project.

In addition, marketing with companies and government agencies in various countries for future activities.

### Targeted economic/social issues

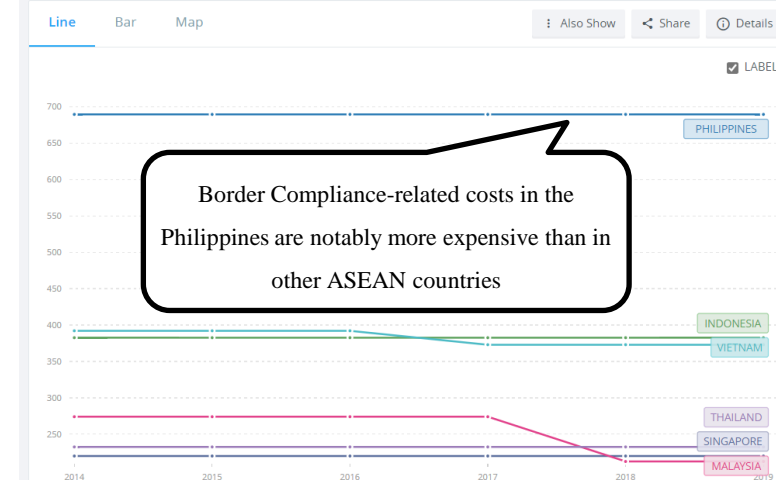
The World Bank reports that Border Compliance (time required from port entry and delivery to import clearance) in the Philippines has deteriorated sharply since around 2018 and is significantly longer than in other ASEAN countries.

In addition, the Border Compliance related costs are prominently high compared to other ASEAN Countries. Currently, import customs clearance information is obtained offline, and import-related documents are obtained/prepared manually. As a result, there are many errors in the trade-related documents, which is one of the causes of high costs.

On that account, a major evolution in international trade from ASEAN to the world will be brought about through the synergy between HAKOVO's industry-first AI-based digital customs clearance platform and IJS's real-time tracking of global containers using satellite AIS technology, which is applied to customs clearance.

Cost to import, border compliance (US\$) - Philippines, Indonesia, Singapore, Malaysia, Vietnam, Thailand

World Bank, Doing Business project ( [doingbusiness.org](https://doingbusiness.org) ).  
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Border Compliance-related costs in the Philippines are notably more expensive than in other ASEAN countries

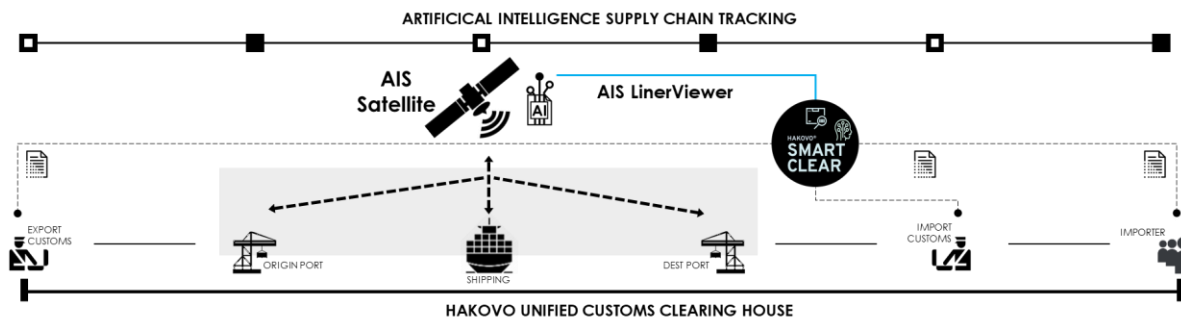
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### Details of demonstration

- HAKOVO provided an AI-based digital customs clearance platform that is not available from existing forwarders or digital forwarders. IJS provided AIS data and container vessel schedule data from our "AIS LinerViewer" on HAKOVO's digital customs clearance platform "SmartClear" through API.
- By digitizing vessel data acquisition at sea, which has not been fully covered, we demonstrated the digitalization in all areas of container logistics procedures.
- The structure of the API is such that the IJS performs the calculation of response data in advance and responds to the requests from "SmartClear" for vessel information in short time.



### Project outcome / Future plans

#### ■ Project Outcome

On February 23, 2022, the linkage between our "AIS LinerViewer" and the partner's digital customs clearance platform "Smart Clear" was completed, and the API data prepared by IJS was reflected in HAKOVO's "Smart Clear," with which the POC was started.

This platform has already been used and proven in the "Davao Project" for the construction of a bypass in Davao City, located on the island of Mindanao in the Philippines, for which Shimizu Corporation has received an order.

In addition, the service has been officially launched as a business from November 1, 2022.

#### ■ Future Plans

At the same time as the official launch of service in the Philippines on November 1, 2022, the service was also started in the Indonesian market, where HAKOVO is headquartered. In addition, HAKOVO plans to conduct a POC with Thai customs/the large conglomerate affiliated with the Thai royal family.

By utilizing the knowledge gained from this successful demonstration project, HAKOVO is considering offering the service not only in ASEAN but also in other countries, with the aim of expanding the service to Saudi Arabia and other countries in the Middle East, as well as to the entire world.

