

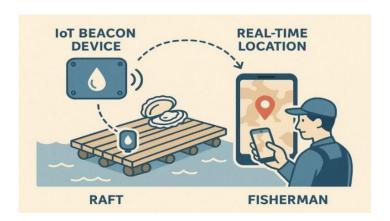
To all members of the press

I-NET Corp.

# Advancing the Visualization of Oyster Rafts through Satellite, AI, and IoT Technologies —Selected for a Joint Research Project in the Marine and Maritime Fields by Kure City and Hiroshima University

I-NET Corp. (TSE Prime: Code No. 9600, Head Office: Yokohama, Kanagawa, Representative Director and Executive President: Tomomichi Saeki, hereinafter referred to as "I-NET") has been selected to participate in the FY2025 Marine and Maritime Joint Research Project conducted by Kure City, Hiroshima Prefecture and Hiroshima University. In collaboration with Hiroshima University, SeatecHIROSHIMA Ltd. ("SeatecHIROSHIMA"), and Marin Craft Kazenoko Co.,ltd. ("Marine Craft Kazenoko")—collectively referred to as the "participating organizations" —I-NET will work to visualize the status of oyster aquaculture by leveraging satellite data and IoT technologies. Furthermore, by applying AI technologies to enhance detection accuracy, the project aims to enable optimal raft management and more efficient fishery operations.

This industry-academia initiative also contributes to safer vessel navigation and disaster risk reduction, supporting the sustainable development of the marine industry.



### 1. Project Overview

	<del>-</del>	
Project Title	FY2025 Marine and Maritime Joint Research Project – Type B: Research and	
	Development of New Technologies	
	(Kure City & Hiroshima University "Town & Gown" Initiative)	
Research Theme	Development of an Optimal Oyster Raft Management and Navigation Safety	
	Support System through Satellite Remote Sensing and On-site Device	
	Integration	
Research Period	2025 to August 2026	



Participating	Hiroshima	Leads the overall project and serves as the core in satellite
Organizations and	University	data analysis. Utilizing expertise in SAR satellite image
Key Roles		interpretation, the university will develop high-precision
		detection algorithms powered by AI technologies.
	SeatecHIROSHIMA	Responsible for hardware development, including
		enhancements to the low-power beacon device "IKAK,"
		aiming to create a practical prototype capable of
		maintenance-free operation for one year and stable long-
		term use at sea.
	Marine Craft	Oversees field testing and collaboration with local fishery
	Kazenoko	operators. Promotes a community-based operational model
		and facilitates location data sharing via smartphone
		applications.
	I-NET	Designs and develops the overall system infrastructure,
		including cloud services and IoT platforms. Integrates
		satellite and beacon data to build a visualization system
		and implements the data coordination framework.
Project Location	Coastal waters aro	ound Kure City, Hiroshima Prefecture

# 2. Project Highlights — Visualizing Oyster Rafts through Satellite, AI, and IoT Technologies

This project integrates Hiroshima University's satellite analysis expertise with SeatecHIROSHIMA's device technologies to develop a high-precision detection system that visualizes the location and quantity of oyster rafts in real time.

High-Precision Detection	Hiroshima University applies AI technologies to improve oyster raft	
with Satellite × AI	detection accuracy to over 85%, enabling identification of individual rafts	
	even in densely crowded sea areas.	
Practical Deployment of	SeatecHIROSHIMA is developing a low-power beacon device that operates	
"IKAK" Field Device	maintenance-free for a full year, ensuring stable long-term performance at	
	sea.	
Community-Driven	Local fishers and vessel operators share data via a smartphone app,	
System Development	demonstrating a new community-led model for maritime safety.	

# 3. Background — Unseen Risks in One of Japan's Leading Oyster Farming Regions

The coastal waters around Kure City in Hiroshima Bay are among Japan's most prominent oyster farming areas. However, frequent collisions between vessels and oyster rafts—especially during nighttime or foggy conditions—pose serious risks to both fishers and vessel operators.

Current nautical charts do not provide real-time raft location data, and even local authorities lack accurate information on the total number and placement of rafts.



### 4. Expected Outcomes — Regional Model for Balancing Maritime Safety and Sustainable Aquaculture

By accurately tracking the location and operational status of oyster rafts, the project will help prevent collisions and protect lives. It also enables precise monitoring of aquaculture resources, contributing to sustainable marine resource management. Early detection of drifting rafts and marine debris will reduce both environmental impact and economic losses.

Enhanced Maritime	Real-time identification of hazardous zones during vessel navigation	
Safety	helps prevent collisions.	
Advanced Aquaculture	Digital monitoring of raft placement and activity enables more	
Management	efficient operations.	
Reduced Environmental	Early detection of drifting rafts and debris minimizes repair and	
and Economic Losses	removal costs.	
Regional DX Model	Promoting a "Marine DX" model through collaboration among	
Creation	government, academia, and industry in Kure City, with potential for	
	nationwide expansion.	

## < Overview of I-NET>

Company name: I-NET Corp.

Location: 13F YOKOHAMA SYMPHOSTAGE West Tower, 5-1-2, Minatomirai Nishi-ku, Yokohama

Business: Information processing services, system development services and product sales

Official website: https://www.inet.co.jp/

#### < Inquiries >

For Project Details: Yoshikawa, Space Solution Division

TEL: 81-3-5480-3500 E-mail: sales-space@inet.co.jp

For Media: Enjoji, Fukui, Ito, Corporate Strategy and Investor Relations

TEL: 81-45-682-0806 E-mail: infomc@inet.co.jp

DISCLAIMER: This document was prepared using our machine translation, and no manual modification has been made to the translated contents. This document is to be used solely as a reference and in cases where any differences occur between English version and the original Japanese version, the Japanese version shall prevail. The consolidated financial statements in this document are unaudited