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IINO KAIUN KAISHA, LTD.

**IINO is managing CO2 emission by AI-powered CII optimization tool developed by US start-up company Bearing.**

Reduction of greenhouse gas (GHG) is one of the biggest challenges the global maritime industry is facing today and as a part of the effort to achieve that goal, a Carbon Intensity Indicator (CII)\* regulation is going to come into effect from January 2023. Under the CII regulation, shipping companies will be required to operate vessels in an even more efficient and environmentally-friendly way.

Being a member of global maritime industry, IINO Kaiun Kaisha, Ltd. (IINO) has set environmental sustainability as one of the core objectives of its mid-term business strategy, implementing various measures to reduce the emission of greenhouse gases.

As part of its recent attempt for greener shipping, IINO has decided to start adopting an AI-powered CII optimization tool newly developed by Bearing, a Silicon Valley-based technology startup. IINO has collaborated with Bearing on the development of the CII optimization tool by feeding its ship operation and management expertise into Bearing's AI-powered performance model. This newly developed CII optimization tool features the following functions:

**Functions:**

- ① Estimate of real time CII rating and simulation of future CII rating under various operating scenarios, factoring in the impact of sea and weather conditions.
- ② Economic impact calculator, quantifying the measures to be deployed to vessels in order achieve the targeted CII rank for each vessel.
- ③ User-friendly interface that can be operated intuitively.



IINO and Bearing are continuing to work together to enhance and further develop the CII optimization tool and other AI powered tools that contribute to greener shipping.

#### About Bearing, Inc.

Bearing is a Silicon Valley-based technology startup backed by the AI Fund (founded by Andrew Ng, a leading pioneer in AI) and Mitsui & Co., Ltd. focused on streamlining shipping operations through an AI-enabled platform. At the core of Bearing's technology are highly-accurate ship performance models built off of a diverse set of real-world data. These AI-powered models allow Bearing to predict metrics like fuel consumption with more accuracy than the conventional models in the industry today.

\*CII(Carbon Intensity Indicator) regulation intends to promote continuous energy-saving vessels operation by evaluating and rating vessels' annual fuel efficiency results grading on a scale of A-E, and if they fall below a certain level, they will be required to submit an improvement plan and be certified by the authorities.

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