

Harada Vehicle Design Co., Ltd.



- ❑ Address: Miyoshi-shi, Aichi Prefecture
- ❑ Employees: 100 people
- ❑ Established in 1998
- ❑ Business: Manufacturing Solution Provider

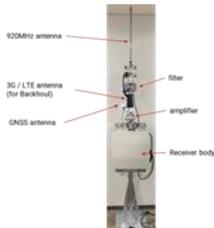
<https://www.hvd.co.jp/>

Outline of the demonstration project

- Project of Marine Debris Tracking System in Thailand

Cooperation with local companies/governments

- Local Partner: Asia Technology Industry Co., Ltd.
- Details of Cooperation and Collaboration: Establishment of demonstration system and carrying out the experiment. Building a cooperative relationship with the local government and Chulalongkorn University.



Targeted economic/social issues

- It is estimated that about 8 million tons of marine plastic waste is discharged every year, with about 30% of this coming from Southeast Asian countries. In Thailand, use LPWA (Low Power Wide Area - low power consumption and long-distance communication) to track and collect garbage.

Details of demonstration

- The unique and differentiating features of the products and services developed in this project are the inexpensive public network service developed by Sony that utilizes GNSS, and the connection of various devices over a wide area.
- Efficient survey and collection of marine debris is realized by releasing drifting PET bottles loaded with GNSS receivers and LPWAs from rivers to grasp the inflow routes, drifting/casting ashore and the abundance of marine plastic waste within a 100 km radius.

Expected outcome of beneficiary effects

- If the demonstration experiment confirms its effectiveness, it will open up a new business market for collecting marine plastic litter in Thailand and other ASEAN countries. It is expected to spread by providing low-cost services.