The Korea Times

*** CITY EDITION

Established 1950, NO. 22406

www.koreatimes.co.kr

THURSDAY, JULY 20, 2023





Damage restoration

Yoon declares 13 special disaster zones over heavy rain

1588-200 KSREAN AIR

Sonar tech, drones, satellites to detect waste in Incheon waters

Waste detection system under test operation with completion expected before 2026

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Incheon is testing a new waste detection system using drones and satellites, which will maximize the efficiency of locating and removing sea trash.

According to Incheon Metropolitan City, the system, being developed jointly with the Ongjin County government in the city's maritime territory, uses satellites, drones and sonar radar to monitor the country's western coastal waters and pinpoint the location of waste. First, a satellite scans the surface of the water to detect the presence of trash. Then, drones fly to the satellite-designated location for a closer inspection.

Below the waves, sonar radars will monitor for submerged waste resting on the seabed.

system, once having located waste, relays the data to the city government's smart maritime environment



A conceptual image of a new maritime waste collection system being developed jointly by Incheon Metropolitan City and Onglin County

ing vessel now being built by Ongjin County Office.

The Aviation Division under the management center. The center then city government's Maritime Affairs studies the data using AI and dis- and Aviation Bureau said the new patches vessels directly to the tar- system will maximize efficiency in get location to collect the trash. The carrying out the environmentally vessels include one belonging to the oriented task and contribute to the city government which will clean city and country's carbon neutraliza-

to the target locations via the fastest course, the ships can save fuel and as mayor. time in performing their missions.

An Kwang-ho, chief of the Aviation Division, said the system, once fully deployed in 2025 to cover most of the city's waters, will make the sea cleaner. Recovering clean water has

The three-pronged monitoring the area and another trash-collect- tion initiatives. By directing the ships key administrative goals and pledges since last year when he was elected

> The city and county governments began developing the system jointly in 2022. They launched the initiative after winning a project bid opened by the Ministry of Oceans and Fisheries in search of ways to been one of Mayor Yoo leong-bok's neutralize maritime carbon emis-



Officials and volunteers from eight district offices and companies in Incheon clean up a coastal area of Jawol Island in Incheon's Ongjin County, July 8.

sions. The ministry funneled 7 billion won (\$5.5 million) to the local governments for the project to be completed by the end of 2025.

The governments selected Jawol Island in Ongjin County, some 25 kilometers off the west coast, as the to clean the coastal areas and check project's first testbed.

Jawol Island is one of the 100 islands in Ongjin waters, 74 of which are uninhabited. A weeklong test began on July 8 of the satellite and drones to see how well they can monitor and locate trash using virtual dummy trash modules. Their goal for now is to keep the waters around Jawol Island clean using the system's early version especially when tourists are expected at the island's beaches during the remainder of this year's summer.

To help keep Jawol Island clean, officials and volunteers from eight district offices and companies in Incheon, including Ongiin County Office and Incheon Techno Park. visited the island earlier this month how vulnerable the island is to pol-

The authorities plan to include Yeongheung Island, Deokieok Island and other islands in Ongiin County under the system by 2025. Once the ministry's funding is depleted, additional parties like municipal governments, government agencies and companies are to be incorporated into the system management to expand its coverage to all coastal waters of Incheon.