Abstract

The construction of cities that adapt to natural disasters will result in a ultra-resilient society. With this technology, we focus on oceans, which greatly affect the global environment, to achieve a society that can (i) reduce the environmental load by applying genome editing technology to marine organisms and (ii) adapt to global environmental changes by using weather observation/prediction technologies.

Features

- CO₂ conversion technology in the ocean that is applied genome editing technology to algae, fish, and shellfish
- Improves prediction accuracy of extreme weather, etc. with technology that uses satellite IoT sensors to sense sea areas that could not be observed until now

Application Scenarios

- Fisheries business that enables land-based aquaculture and improves the marine environment
- Utilization of advanced extreme weather forecast information utilizing observation data in primary industries, etc., and provision of disaster information to residents

Roadmaps

- We will promote the demonstration of environmental regeneration/adaptation technologies to achieve ultra-resilient smart cities.

Collaboration Partners

- Regional Fish Institute, Ltd., Okinawa Institute of Science and Technology Graduate University

Exhibitors

- NIPPON TELEGRAPH AND TELEPHONE CORPORATION

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