## KITAZAWA LAB.

## [Marine Food / Energy Utilization and Ecosystem Preservation]

Large-Scale Experiment and Advanced-Analysis Platform

Marine Ecosystem Engineering

Dept. of Systems Innovation, Graduate School of Engineering

http://mefe.iis.u-tokyo.ac.jp/index\_e.html

## **Utilize Marine Food / Energy and Preserve Ecosystem**

We are engaged in research on the use of food and energy resources in harmony with the marine ecosystem. We are conducting a water tank model experiment to investigate the interaction between structures and aquatic lives, simulation by a hydrodynamic and ecosystem coupled model, and an easy-to-use monitoring system for observing the aquatic lives. In the ocean, there are many issues that cannot be predicted by experiments and numerical analysis, so we will elucidate the issues for social implementation by field demonstrations. With the achievement of the SDGs and the realization of Society 5.0 in ocean use, we will aim for food and energy security, revitalization and sustainable development of the aging region.

