

Center for Integrated Underwater Observation Technology

[Fusion of Ocean Cyber and Physical Systems]

Graduate School of Frontier Sciences; Ocean Technology, Policy and Environment

Graduate School of Engineering; Systems Innovation, Mechanical Engineering,

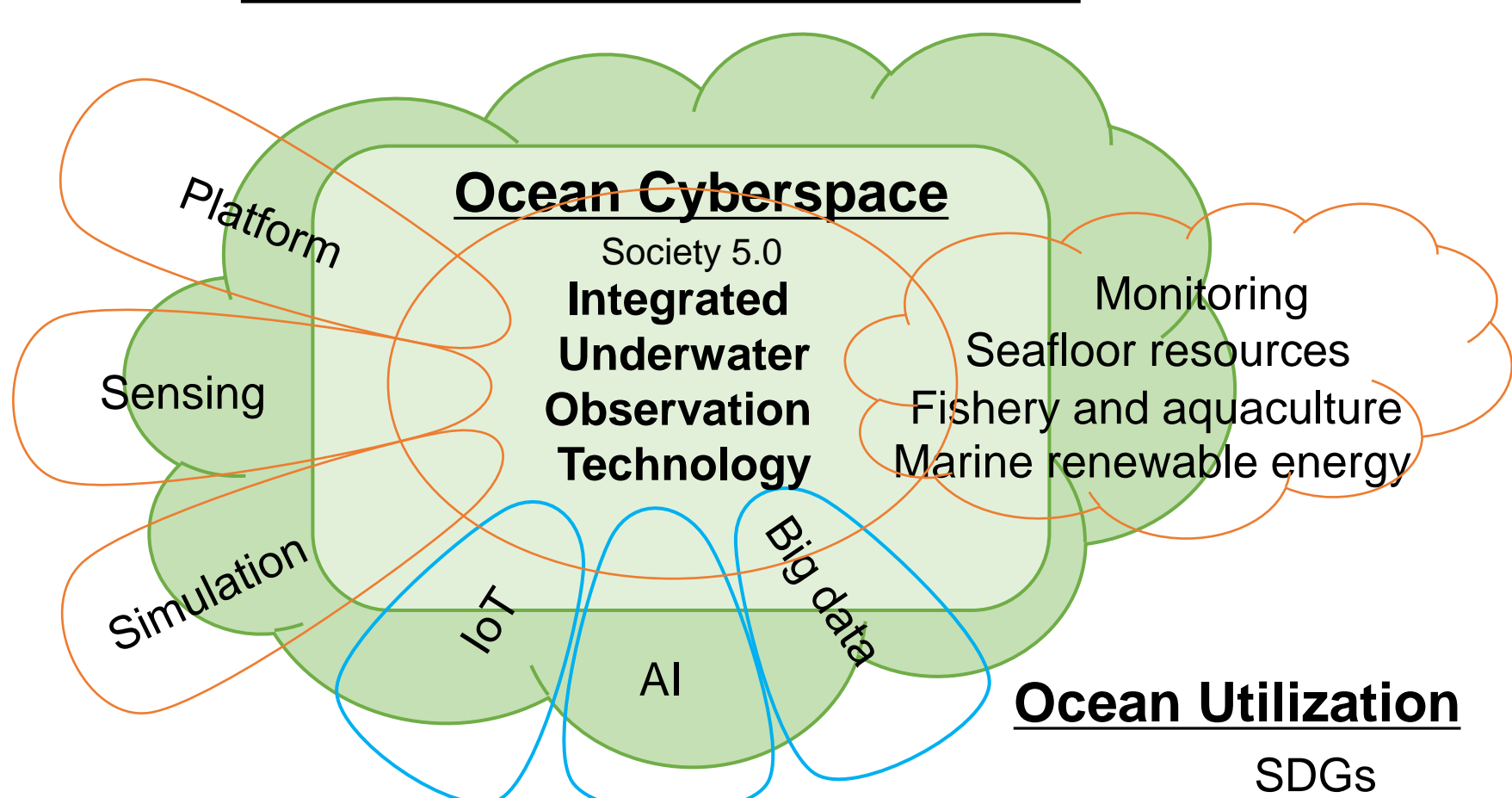
Electrical Engineering and Information Systems, Information and Communication Engineering

Graduate School of Interdisciplinary Information Studies; Interdisciplinary Information Studies

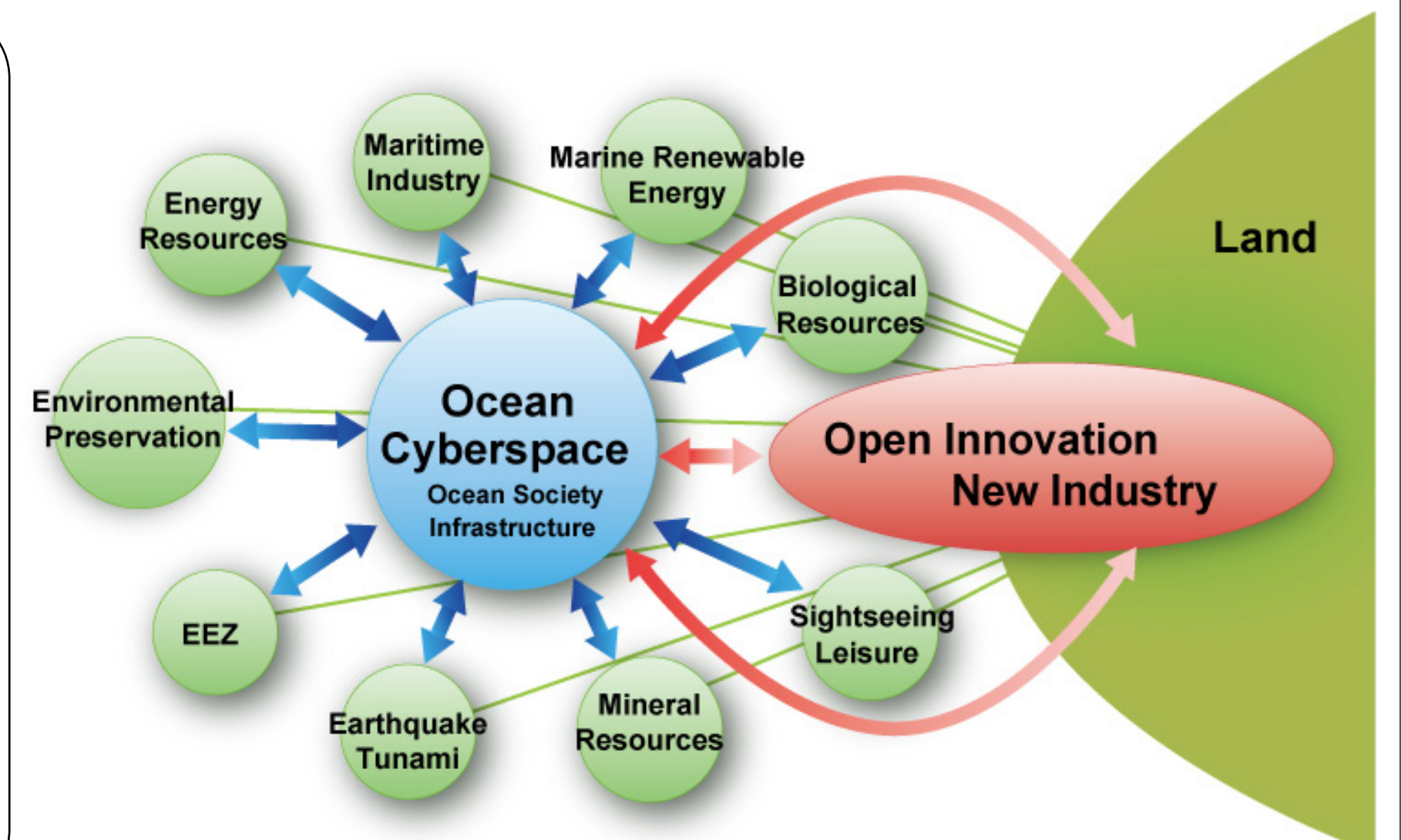
<http://seasat.iis.u-tokyo.ac.jp/>

Toward the Construction of Ocean Social Infrastructure

Ocean Social Infrastructure



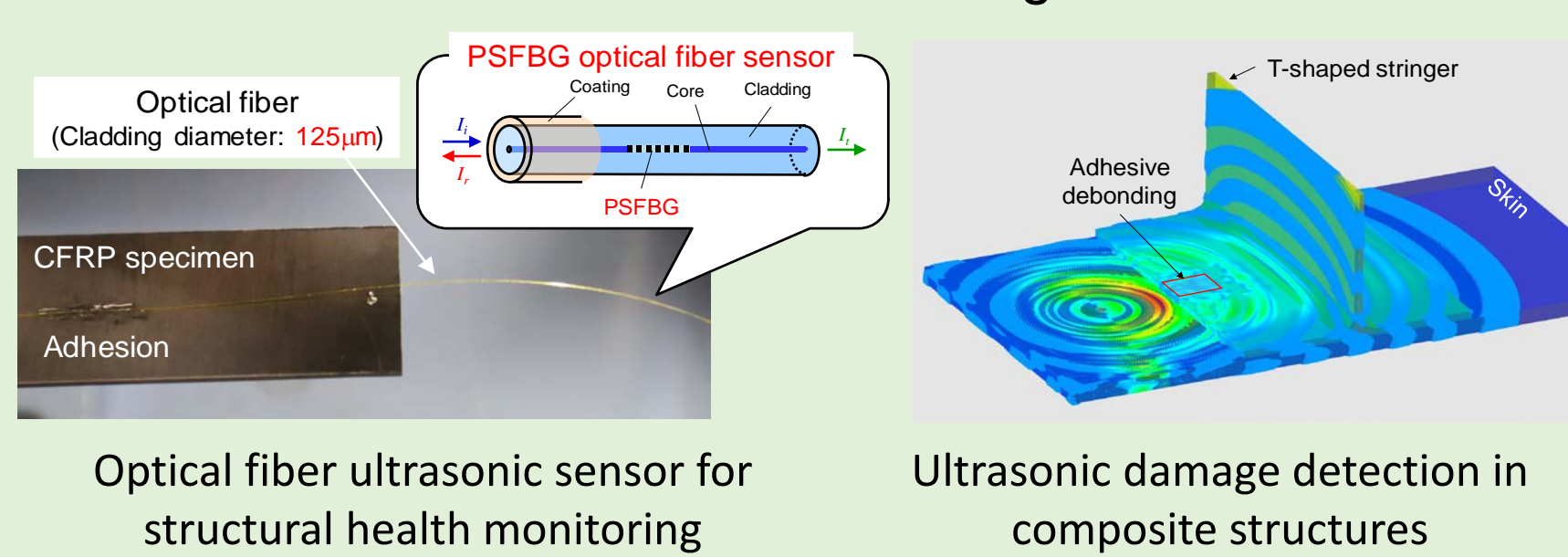
Based on integrated underwater observation technology, we aim to create an ocean cyberspace (virtual space) that is integrated with the physical space of the ocean (real space) and is free from the restrictions of access difficulties by incorporating IoT, artificial intelligence (AI), and big data technology.



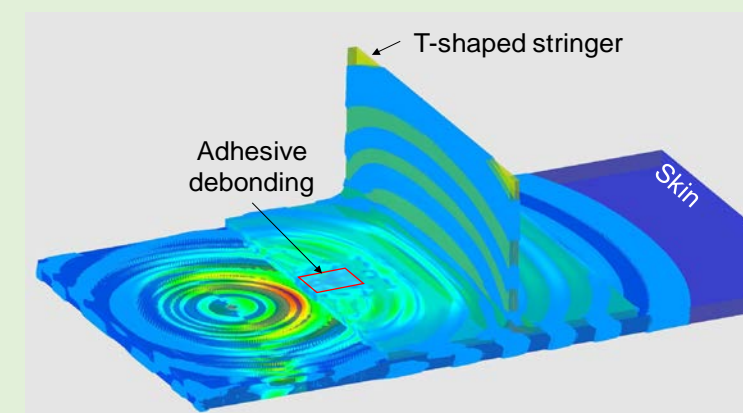
RHEEM Chang-Kyu Lab. Ocean Environmental Engineering



OKABE Yoji Lab. Structural Health Diagnostics



Optical fiber ultrasonic sensor for structural health monitoring



Ultrasonic damage detection in composite structures

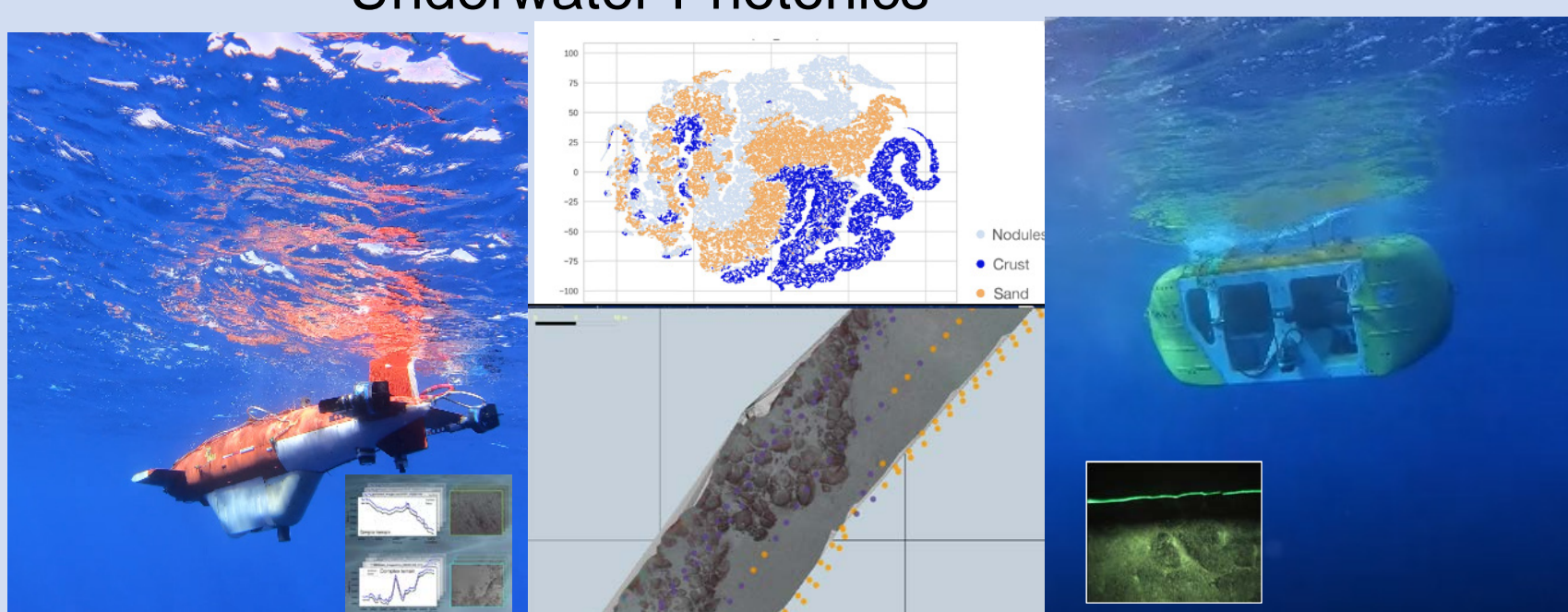
Ocean Cyber-Physical System

OISHI Takeshi Lab. Spatiotemporal Media Engineering

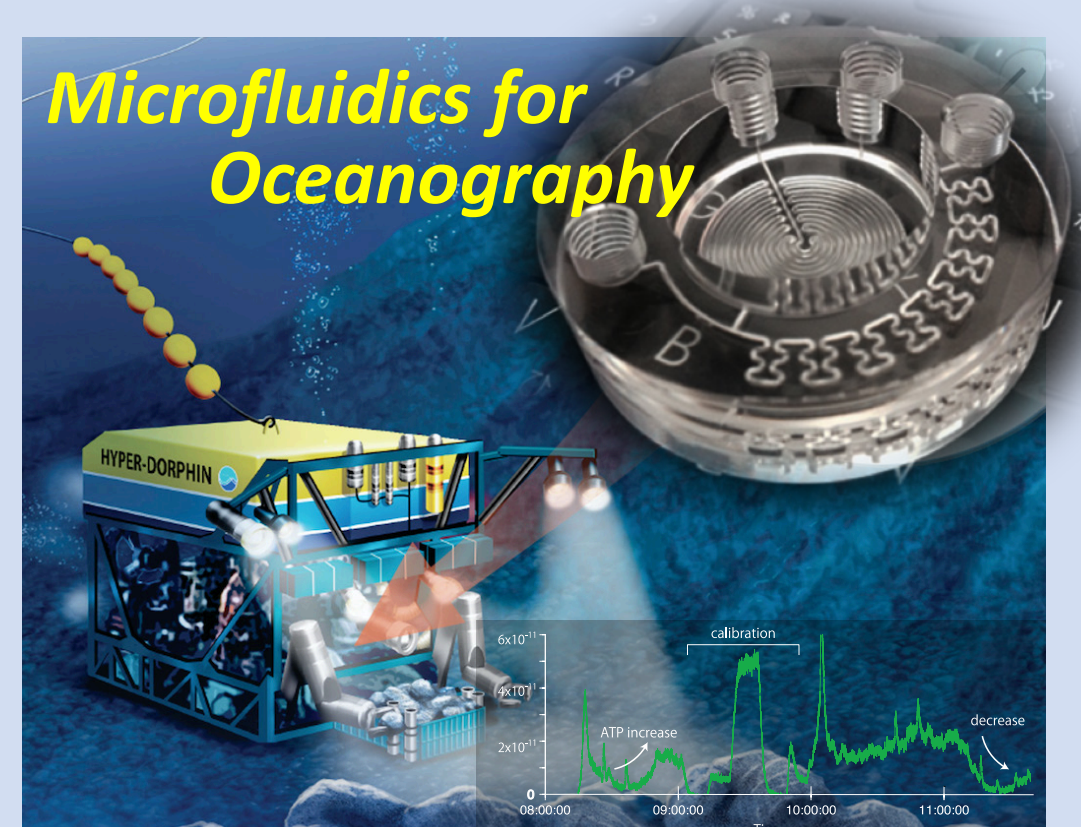


Tele-operation of Humanoid Robot

THORNTON Blair Lab. Underwater Photonics

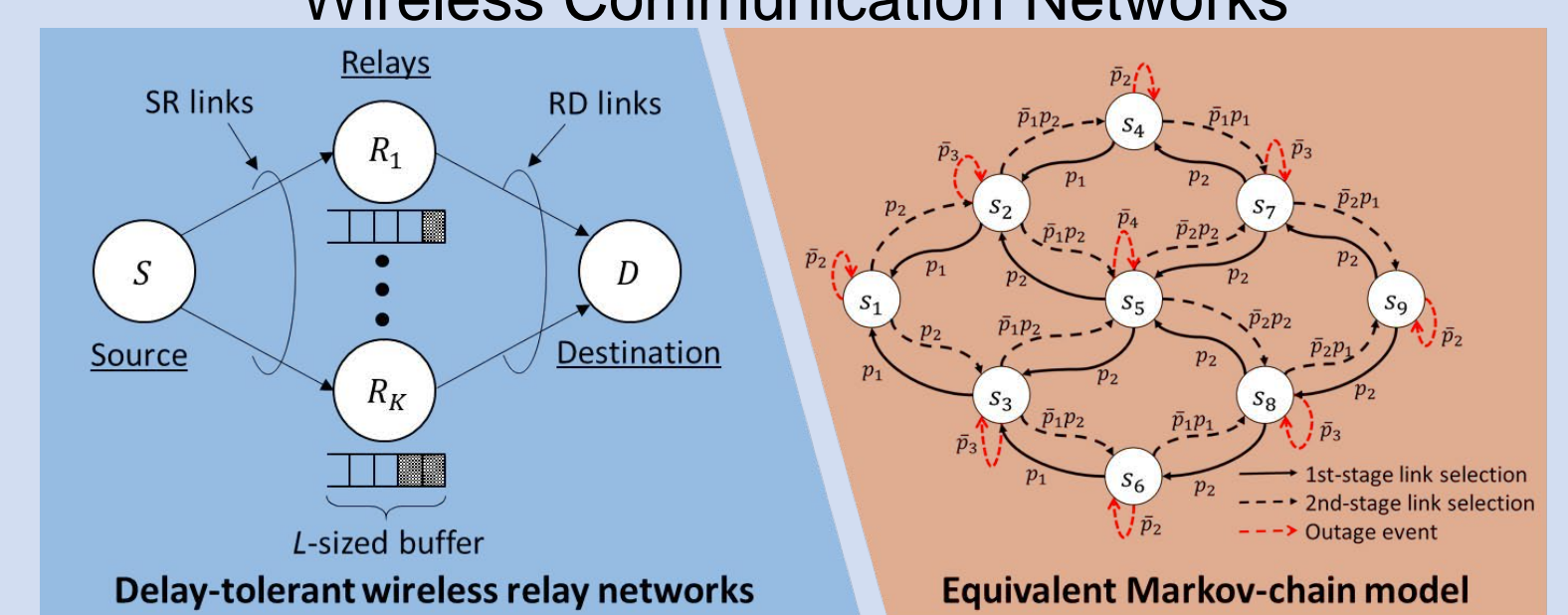


FUKUBA Tatsuhiro Lab. Multi-modal Ocean Sensing Systems

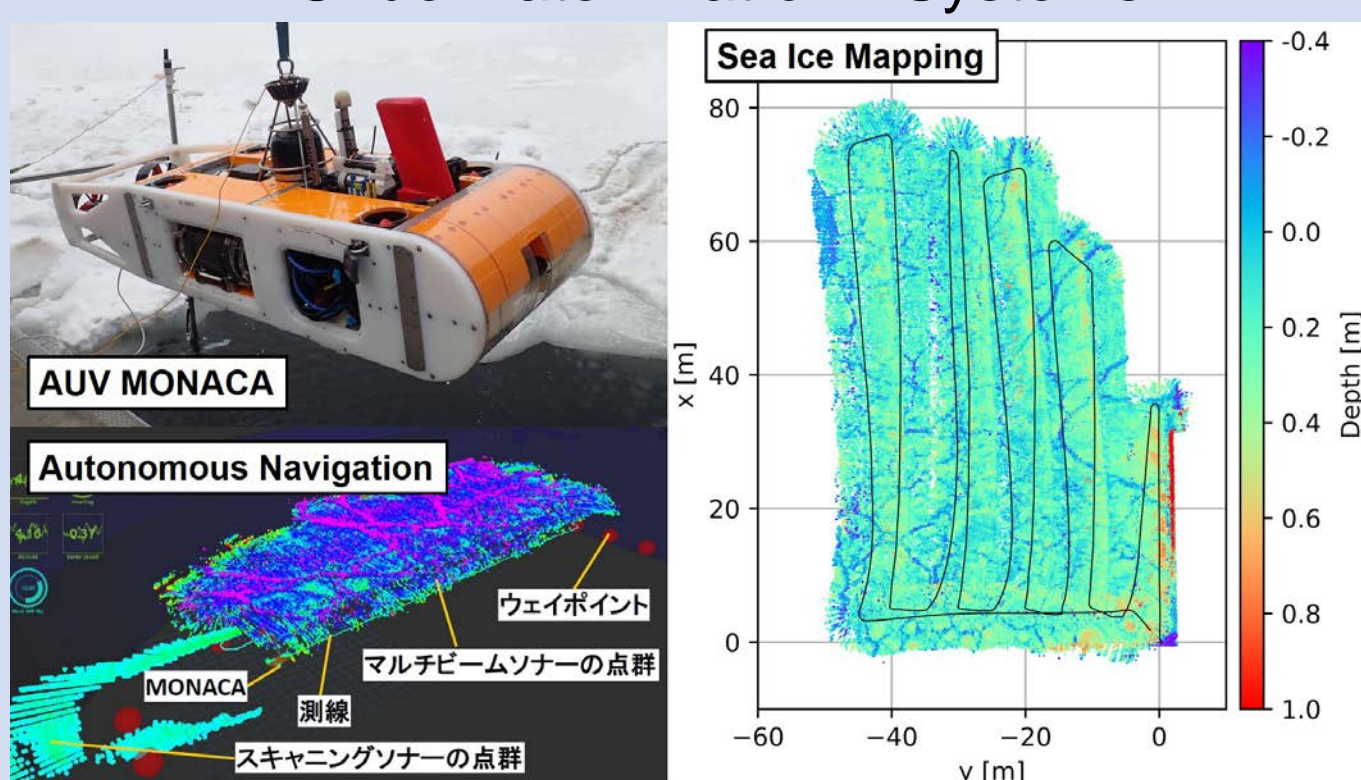


Ocean Sensing System

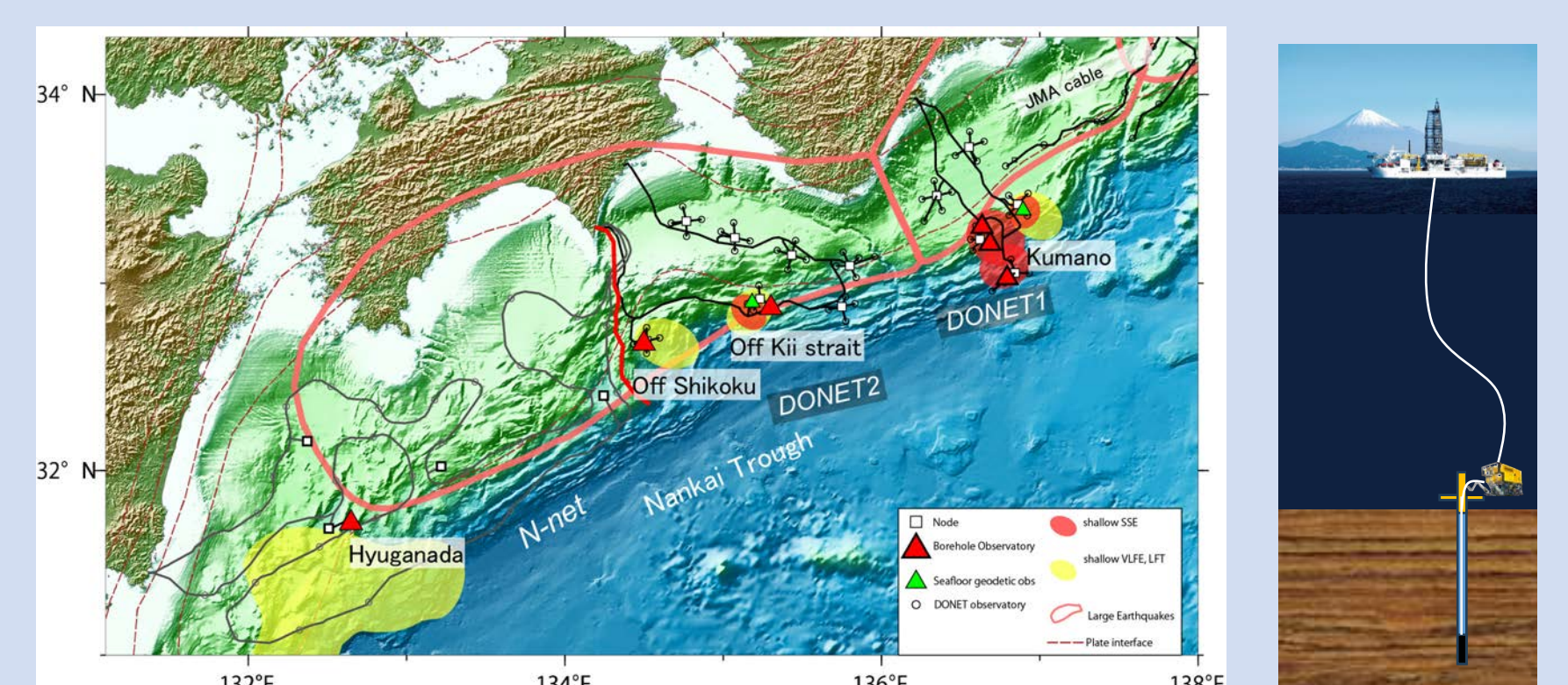
SUGIURA Shinya Lab. Wireless Communication Networks



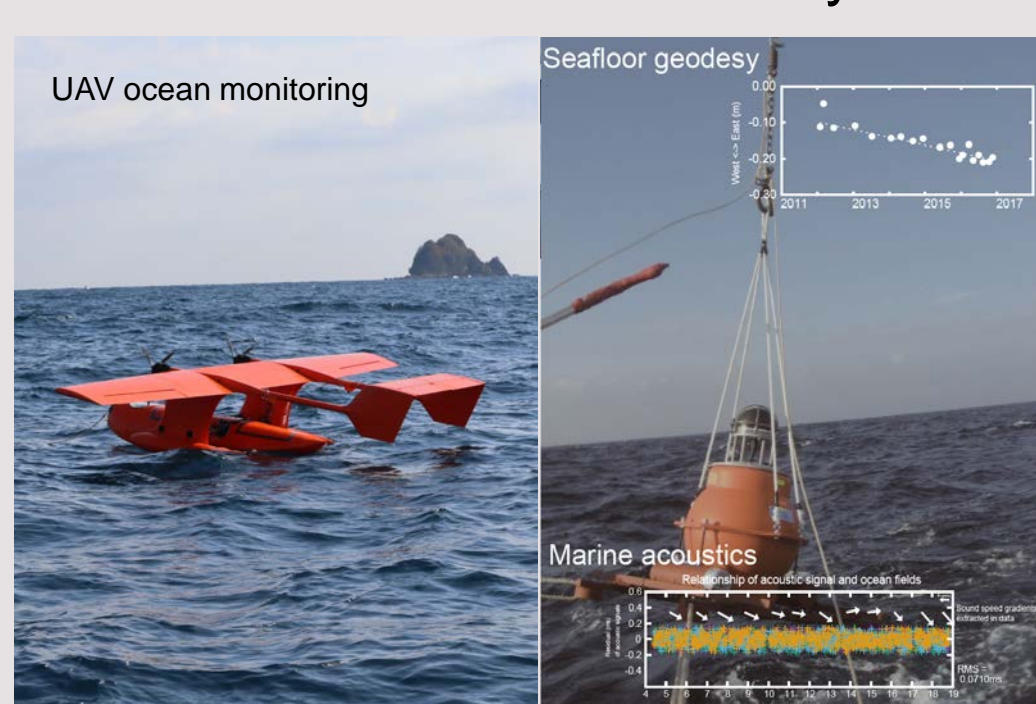
MAKI Toshihiro Lab. Underwater Platform Systems



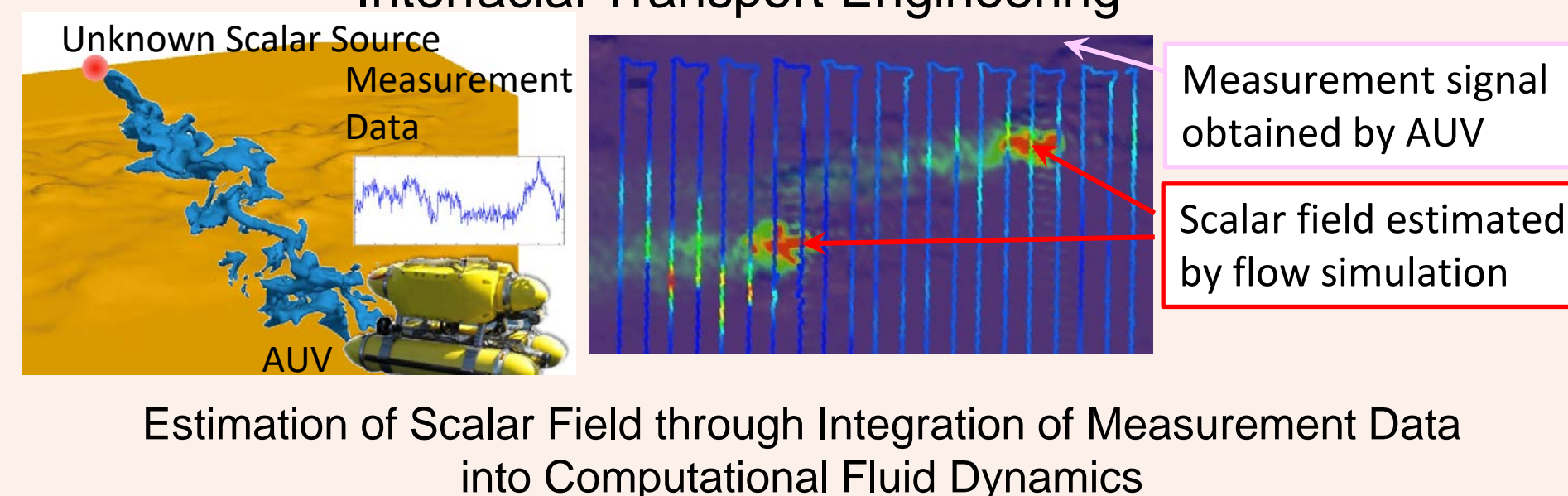
ARAKI Eiichiro Lab. Seafloor Observation



YOKOTA Yusuke Lab. Underwater Information System



HASEGAWA Yosuke Lab. Interfacial Transport Engineering



Estimation of Scalar Field through Integration of Measurement Data into Computational Fluid Dynamics

Ocean Information Fusion

KITAZAWA Daisuke Lab. Marine Ecosystem Engineering

