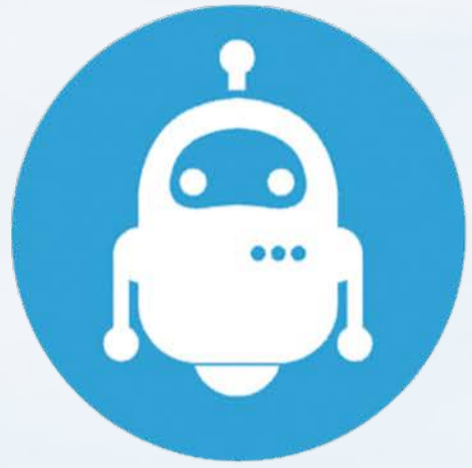# THORNTON LAB

[Ocean Perception Laboratory]

Center for Integrated Underwater Observation Technology
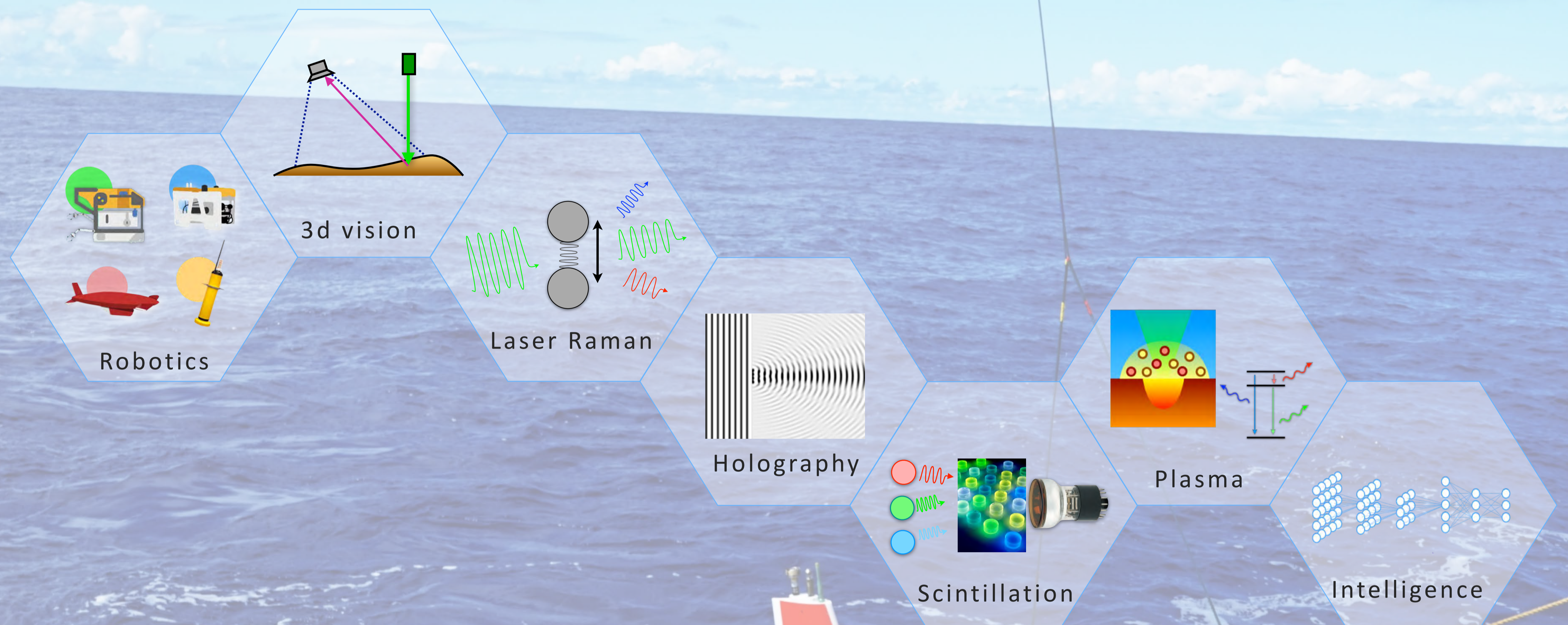
Underwater Photonics

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

http://ocean.iis.u-tokyo.ac.jp

Underwater sensing is the raw material of how we perceive the ocean. Our research aim to develops scalable methods for visual and in-situ chemical seafloor observation through improved sensing and autonomy. We are dedicated to deploying systems in the field and overcoming bottlenecks in information flow from data-collection through to human insight.

Robotics

3d vision

Laser Raman

Holography

Scintillation

Plasma

Intelligence

Our group collaborates closely with the University of Southampton in the UK, Australian Centre for Field Robotics in Australia and the the Schmidt Ocean Institute in the USA to maximise the global impact of our research and ensure our members can conduct research effectively in an international environment.

Institute of Industrial Science, The University of Tokyo