In the darkness of the ocean is there a variety of resources that can be utilized to support human life. However, the ocean is complex and dynamic, so a technology is necessary to unravel such complexities and dynamics.

Very little is known and understood about the objects and processes beneath the Indonesia seas, of what depth and quantity as well as their conditions time to time and from one area to another.

Prof. Dr. Indra Jaya, Professor of Acoustics and Marine Instrumentation, Faculty of Fisheries and Marine Sciences (FPIK) IPB, presented it in his scientific oration entitled “Remote Sensing of Marine Dynamics and Resources with Acoustic Technology for the Development of Indonesian Maritime Continent”, Saturday (19/11 ) at Graha Widya Wisuda, Dramaga Campus of IPB Bogor.

Related to this, Prof. Indra described the current status of underwater acoustic technology – a technology that utilizes sound waves to explore the sea resources and environment, including the observation and study of underwater objects and dynamics.

Prof. Indra says, sound waves can penetrate efficiently and effectively the darkness and sea depth of up to thousands of meters. "In contrast, with the help of 'God flashlight ' or the sun, the ocean depths can only be seen at best as much as 50 feet deep, and provided the water is clear, while if murky, it can be seen perhaps only to the depth of 10 to 20 meters. Thus, how can we utilize the underwater riches if we do not know what is in it?" said the Dean of FPIK.

Therefore, says Prof. Indra, in order to accelerate the implementation of Indonesian maritime development, it is necessary to immediately develop a center of excellence (center of excellence) for the development and utilization of acoustic technology at the national level. (mtd)