



# Prof. Naoto Kobayashi

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## Recent R&D in photonics: Victories Project and Trend of Photonics Industry in Japan



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### **Abstract:**

A ten-year-project for photonics named Victories was performed in 2008~2018 in Japan. This project was aimed to produce an innovative technologies to realize a network with an enormous capacity and with small power consumption by using a dynamic optical path network technology. To realize this technology, a new vertically integrated technologies ranging from optical devices, transmission systems, and networks were developed. This talk will give an outline of the project and also introduce recent trend of photonics industry in Japan.

### **Biography:**

Naoto Kobayashi received his B.S. degree in Physics in 1973, M. Eng. degree in Nuclear Engineering in 1975, and Ph.D. degree in 1978 from Kyoto University, Japan. In 1978, he joined the Electrotechnical Laboratory (ETL), MITI (Ministry of International Trade and Industry). He has been engaged in research on quantum beam material interaction, semiconductor materials and photonic devices. In 2001, he was appointed as the Director of Photonics Research Institute of the National Institute of Advanced Industrial Science and Technology (AIST). From 2003 to 2009 he has been Vice President of AIST. Since April 2009, he is professor at Center for Research Strategy (CRS), Waseda University. He is currently Associated Director of CRS and Deputy Dean of Research Council, Waseda University. He is also chairman of the Committee of Optoelectronics Industry Trends of OITDA (Optoelectronics Industry and Technology Development Association).