

General Incorporated Association: “Kyoto University PCSEL Research Center”

[Founded in December 2024]

Bringing Kyoto University's innovative
“PCSEL” technology to industry

Contributing to the realization of a smart
society and achieving carbon neutrality

Activities

R&D (applied research and social implementation)
Networking and outreach · Device provision
Equipment lending and technical support · Education

Contact

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<https://ku-pcsel-center.or.jp/en>

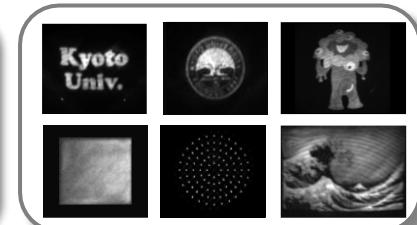
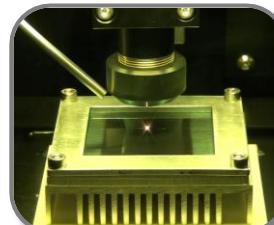
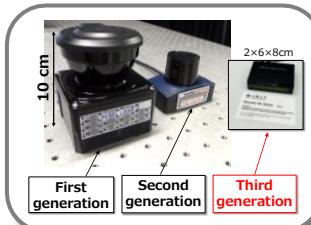
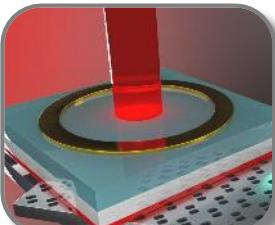


京都大學
Kyoto University
Center of Excellence for PCSELs
植キャンパス

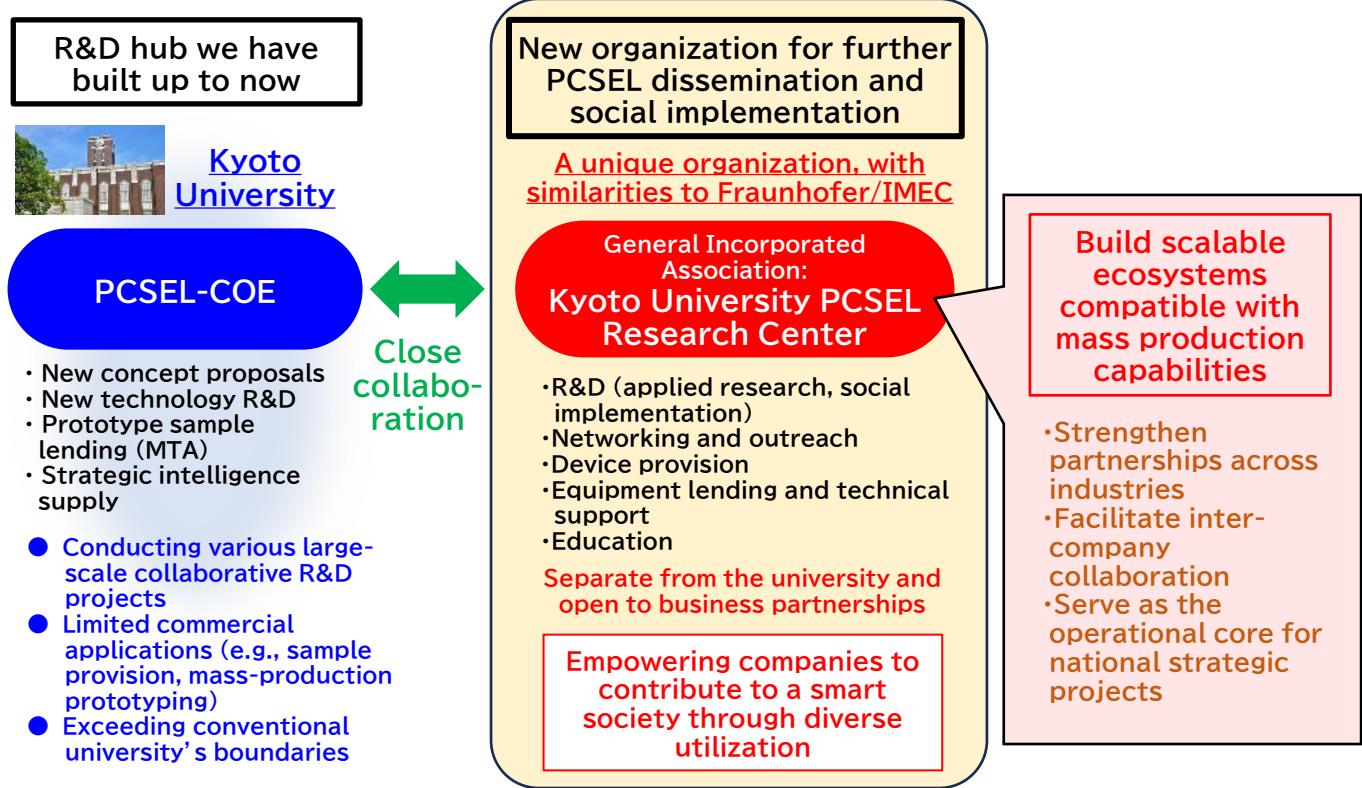
Kyoto University

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Concept of a Bridging Organization



The Necessity and Purpose of Establishing a Bridging Organization

Previously in Japan, it was possible to smoothly advance business by having companies' in-house research laboratories develop prototypes of various products based on research outcomes from academia such as universities, and then transferring those prototypes to business divisions. However, recently, the number of companies with laboratories capable of producing such prototypes has declined, creating a gap between academia and corporate business divisions. As a result, even if promising technologies exist, it has become difficult to smoothly advance business development. On the other hand, in Germany, bridging organizations such as the Fraunhofer Institute have long existed to smoothly connect academia and corporate business divisions, serving as a core to fill the gap in commercialization. The Netherlands' IMEC and Taiwan's ITRI also play similar roles.

The newly established General Incorporated Association "Kyoto University PCSEL Research Center" aims to produce various prototypes of PCSELs, to provide them to a wide range of companies and institutions, and to enable the business use of PCSEL manufacturing equipment (including technical guidance for manufacturing), in collaboration with Kyoto University. This will allow companies to minimize initial capital investment for mass production and to achieve smooth commercialization. Furthermore, through networking activities and human resource development, this Center will work to build an ecosystem for PCSEL manufacturing, utilization, and related technologies, so that PCSEL technology can be widely disseminated throughout society.

By adopting the form of a General Incorporated Association, this organization aims to widely disseminate PCSEL technology to a broad range of companies and institutions, distinguishing itself from startups and ventures that focus solely on the success of individual businesses. In the future, it is envisioned that such Associations can be also established at various other academic institutions with outstanding technologies. By connecting multiple Associations, a uniquely Japanese bridging system can be realized.