

Vision of Future Social Implementation of Rubber Seeds and Research Exchange for Human Capacity Development

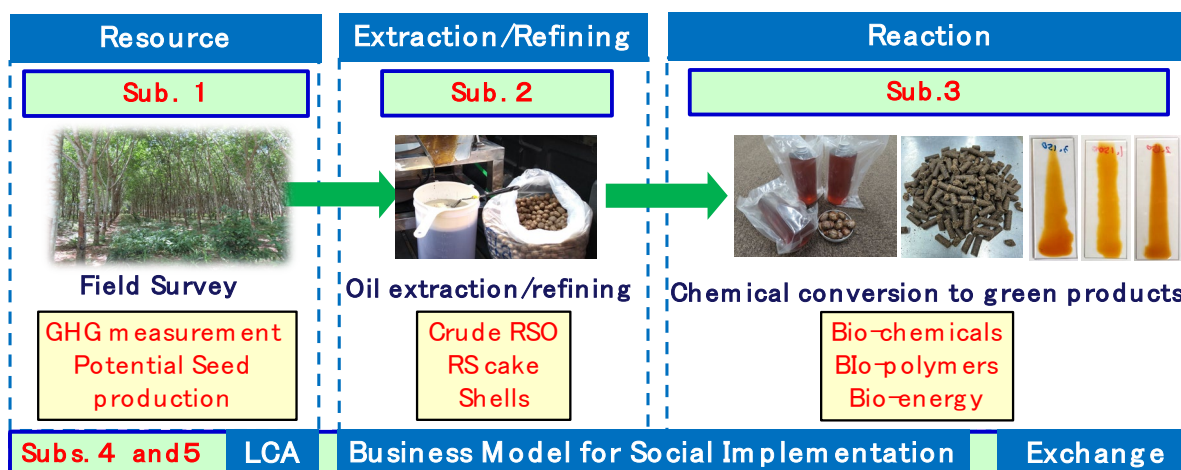
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SATREPS, an international joint project between Thailand and Japan aims to develop a roadmap for the utilization of unutilized rubber seeds—a byproduct of the natural rubber industry—with the goal of providing solutions to global environmental issues, fostering research and development based on a strengthened partnership between the two countries, and ultimately achieving societal implementation. This project will totally cover from field surveys of natural rubber plantations, extraction and refining of rubber seed oil, its chemical conversion, and the demonstration of environmental impact reduction effects through life cycle assessment (LCA), thereby revealing the limitless potential of rubber seeds as a new bio-resource. We will develop individual core technologies through basic research conducted by various research institutions in Thailand and Japan and strengthen collaboration with government agencies and multiple industrial companies to facilitate societal implementation. This project also places a strong emphasis on personnel exchange and capacity building, and research exchanges between the two countries have been underway since the project's launch in 2024.

Through the implementation of this project for utilization of rubber seed, we aim to contribute to the sustainable growth of Thailand's natural rubber industry by pioneering new bio-sources as mitigation measures for global environmental issues, establishing related technologies, and facilitating their societal implementation.



Biography (For Plenary, Keynote, and Invited Speakers)

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Personal History:

Dr. Shinji Kanehashi received his Ph.D from Meiji University, Japan in 2012. He started his industrial career as an outstanding researcher at Water treatment group, New business development division, Kuraray Co., Ltd., Japan, since 2006. After he left the company and received his Ph.D, he started his academic carrier as an post-doctor at the University of Melbourne, Australia, since 2012. In 2015, he moved to Tokyo University of Tokyo University of Agriculture and Technology, Japan as assistant professor, and was promoted to associate professor in 2020.

Research Keyword (3-5 keywords use commas to separate each word):

Biomass Utilization, Polymer Science, Membrane Technology, Separation Technology, Social Implementation