

Special Session :

How to manage vehicles in a circular economy -Toward utilizing DPP (Digital Products Passport)

Organized by
Japan Society of Material Cycles and Waste Management (JSMCWM)
and SIP “Circular economy system” project

DX technology and infrastructure is being discussed and developed around the world to shift to the circular economy society. For example, in Japan, the SIP Circular Economy Project (*) has been launched, and research are underway for several products and materials through the value chain, with the aim of creating a Japanese version of digital information sharing system like digital product passport (DPP).

Particularly noteworthy are efforts to request greater use of recycled plastics in vehicle (automobile) manufacturing. In particular, Japan's vehicle export destination is Australia (0.33 million units/year), which ranks second after the United States (1.54 million units/year). On the other hand, a considerable number of used vehicles are exported from Japan to island countries in Pacific, and environmental pollution caused by end-of-life vehicles (ELV) has become an issue.

Therefore, in this session, we will provide an overview of the state and trends of ELV management required for a recycling-oriented society and economy, and the current state of ELV recycling in Japan, Pacific, and Asia. We will then discuss the possibility of management that also utilizes a digital information sharing system and discuss the future of ELV management. The aim is to gain perspectives for joint research and business development and build a network.

*Council for Science, Technology and Innovation(CSTI), Cross-ministerial Strategic Innovation Promotion Program (SIP), the 3rd period of SIP “Circular economy system”(Funding agency: Environmental Restoration and Conservation Agency)(JPJ012290), Japan

Program

Chair: Prof. Misuzu ASARI, Research Institute of Humanity and Nature, Japan
Prof. Ma. Brida Lea D. Diola, University of the Philippines Diliman, Philippine

Opening remarks by Prof. Masaki TAKAOKA, Kyoto University, Japan ([Overview and Brief Introduction on SIP CE](#))

Keynote

“End-of-Life Vehicle Recycling in Japan” by Prof. Eiji HOSODA
Vice Chancellor for Humanities and Social Sciences and Professor ,
Department of Economics, Tokai University
President, Japan Automobile Recycling Promotion Center



Panel discussion

- ✓ **“Current environmental challenges in the automobile industry”** by Risa (Lisa) Oya, Recycling based Society Group, Environmental Affairs and Engineering Management Div. TOYOTA MOTOR CORPORATION
- ✓ **“International comparison of End-of-Life Vehicle Recycling in the Asian Countries”** by Prof. Misuzu Asari, Research Institute of Humanity and Nature, Japan

- ✓ **“Towards a circular economy for end-of-life vehicles management in Thailand”** by Associate Prof. Kriengkrai Techakanont, Faculty of Economics, Thammasat University, Thailand
- ✓ Prof. Masaki TAKAOKA, Kyoto University, Japan

Remaining time for Q&A and discussions