

**ZACROS Launches a Nine-Company Demonstration Project for a
Collaboration between Arterial and Venous Industries to
Advance Plastic Packaging Resource Circulation
(Ministry of the Environment Commissioned Project)
Verifying the Conditions for Establishing a Collaborative Platform for the
Commercial Implementation of Delamination and Deinking Technologies**

Tokyo, Japan, August 5, 2026 — ZACROS Corporation, headquartered in Bunkyo-ku, Tokyo, along with its Representative Director and President, Taku Shimoda, announces its participation in a Collaboration between Arterial and Venous Industries (*1) Model Demonstration Project, conducted as part of the Ministry of the Environment's "FY2025 Survey and Study Project on the Plastic Resource Circulation Strategy." This demonstration involves nine companies involved in the resource circulation of flexible packaging materials, and aims to verify the feasibility and conditions for establishing a collaborative creation platform (hereinafter referred to as "PF") model in which multiple companies jointly utilize equipment and technologies, with a view to the commercial implementation of delamination and deinking technologies currently being developed by several of the participating companies.

■ Background

The resource circulation of plastics is becoming increasingly important worldwide from the perspectives of resource depletion, waste reduction, and countermeasures against marine plastic pollution. In Japan, based on the Plastic Resource Circulation Strategy and the Act on Promotion of Resource Circulation for Plastics, collection and recycling efforts have been progressing; however, challenges remain in expanding collection volumes, establishing advanced recycling technologies, and improving the quality of recycled plastics (hereinafter referred to as "recycled materials") while expanding their use. Expanding the use of recycled materials requires establishing a framework that can simultaneously ensure quality, cost competitiveness, and stable supply. In response to these challenges, the development of advanced material recycling technologies, such as delamination and deinking, has been progressing in recent years. At the same time, in addition to the technologies themselves, building collaborative relationships and operational frameworks among businesses is also an important factor for the commercial implementation of these technologies.

Against this backdrop, this demonstration project is being carried out as part of the Ministry of the Environment's "FY2025 Survey and Study Project on the Plastic Resource Circulation Strategy" (*2). This demonstration is led by Mitsubishi Research Institute, Inc. as the overall coordinator and, in collaboration with nine major companies involved in the resource circulation of plastic (packaging) materials, will verify the feasibility of a "collaborative creation PF model" in which companies across the resource circulation value chain jointly utilize technologies and equipment.

This demonstration involves the participation of RM TOHCELLO CO., LTD., Kyoisha Chemical Co., Ltd., ZACROS Corporation, Dai Nippon Printing Co., Ltd., Toyo Seikan Co., Ltd., TOPPAN Inc., Howa Sangyo Co., Ltd., Hosokawa Yoko Co., Ltd., and Mitsubishi Chemical Corporation (listed in Japanese alphabetical order).



This demonstration is conducted as part of the Ministry of the Environment's "FY2025 Survey and Study Project on the Plastic Resource Circulation Strategy."

Fig. Implementation Structure of This Demonstration Project
(Created by Mitsubishi Research Institute)

■ Overview of the Demonstration

This demonstration project verifies the effectiveness and feasibility of a "collaborative creation PF model," in which multiple Arterial and Venous Industry operators jointly utilize equipment and technologies, with a view to the commercial implementation of delamination and deinking technologies. In addition, the project will conduct demonstrations of the delamination and deinking technologies utilized under the PF model, testing them under common conditions, and will identify challenges associated with their commercial implementation.

A key feature of this demonstration is that it is not intended to evaluate or compare

the performance of individual technologies, but rather to verify the feasibility and challenges of a collaborative creation PF model premised on the joint utilization of equipment and technologies, for delamination and deinking technologies being developed by multiple companies. Specifically, the following initiatives will be carried out:

(1) Evaluation of the Effectiveness of the Collaborative Creation PF Model

The demonstration will compare a scenario in which individual companies utilize their own equipment and technologies with a scenario in which equipment and technologies are shared under the collaborative creation PF model, verifying the impact of each approach on the quality, cost competitiveness, and supply stability of recycled materials. In addition, the project will examine the entire supply chain—from collection through to recycling—clarifying the roles and collaborative structures among the relevant operators, as well as the operational challenges involved in jointly utilizing equipment and technologies.

(2) Demonstration of Delamination and Deinking Technologies Using Common Shared Samples

For the delamination and deinking technologies currently being developed by multiple companies, delamination and deinking processes and evaluations will be conducted using multiple common shared samples for each technology, in order to identify challenges and points for consideration toward the formation of the collaborative creation PF. The common shared samples will be designed to consist of flexible plastic packaging materials, based on discussions among the participating companies, taking into account market scale and the significance of the demonstration.

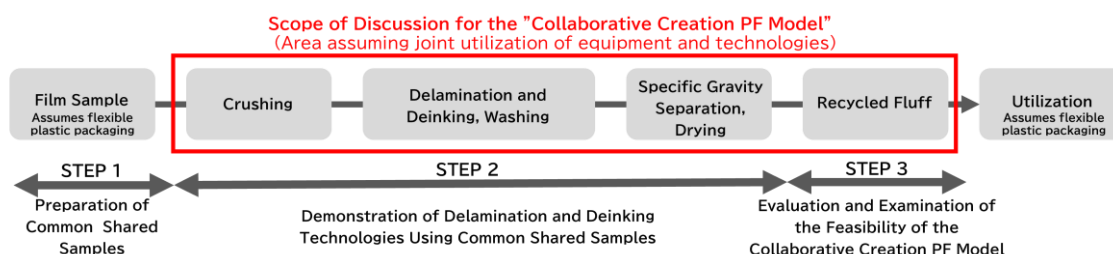


Fig. Conceptual Image of the Demonstration of Delamination and Deinking Technologies Using Common Shared Samples
(Created by Mitsubishi Research Institute)

■ ZACROS's Role

As both a participant in plastic packaging and film-related businesses and a developer of delamination and deinking technologies, ZACROS will contribute to this demonstration by providing samples and expertise, and by supporting the evaluation and verification of results. In addition, through collaboration among the nine participating companies, ZACROS will participate in discussions on the collaborative creation PF model—which is expected to improve the quality of recycled materials, ensure stable supply, and enhance cost competitiveness—and will work to clarify its feasibility and operational challenges. Notably, ZACROS is the only company participating in this demonstration project that independently handles both plastic packaging and the development of delamination and deinking technologies.

■ Future Plans

In addition to addressing the structural challenges that hinder the expanded use of recycled materials, ZACROS is working to build a resource circulation system that spans from collection and recycling through to expanded utilization. In particular, ZACROS regards the collaborative creation PF model—in which Arterial and Venous Industry operators collaborate to jointly utilize equipment and technologies—as one of the most promising approaches for improving the quality of recycled materials, enhancing cost competitiveness, and ensuring stable supply.

Going forward, ZACROS will leverage the insights gained through this demonstration to support the commercial implementation of effective resource circulation models and expand the use of high-quality recycled materials. Through these efforts, ZACROS aims to contribute to the advancement of a circular economy and the broader adoption of recycled plastics.

■ For additional information

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■ Related news release

Develops Recycling Technology for Laminated Films Used in Flexible Packaging

URL: https://ssl4.eir-parts.net/doc/7917/ir_material12/255296/00.pdf

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- *1 Collaboration between Arterial and Venous Industries: An expression that likens economic activity to blood circulation, in which industries that process natural resources to manufacture and distribute products are referred to as "arterial industries," while industries responsible for the collection, sorting, reuse, recycling, and proper disposal of waste—thereby returning resources to society—are referred to as "venous industries." This term refers to collaborative efforts between these two types of industries to circulate resources.
- *2 Ministry of the Environment's "FY2025 Survey and Study Project on the Plastic Resource Circulation Strategy": Mitsubishi Research Institute Begins Survey and Study on the Plastic Resource Circulation Strategy
<https://www.mri.co.jp/news/press/20260421.html>
(Mitsubishi Research Institute, Inc. News Release, April 21, 2026)