For Robot Revolution & Industrial IoT International Symposium 2026:
Data Integration and Industrial AI: Shaping the Future of Manufacturing
Session 1: Industrial Data Spaces: What It Takes to Scale

Initiatives to Scale Industrial Data Spaces in Japan

10 November 2026

CMP Consortium
Hidemi Tomita

CMP Consortium

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Agenda

1. CMP Overview and Development Status
2. RMP Concept

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1. CMP Overview and Development Status

Chemical and circular **M**anagement **P**latform

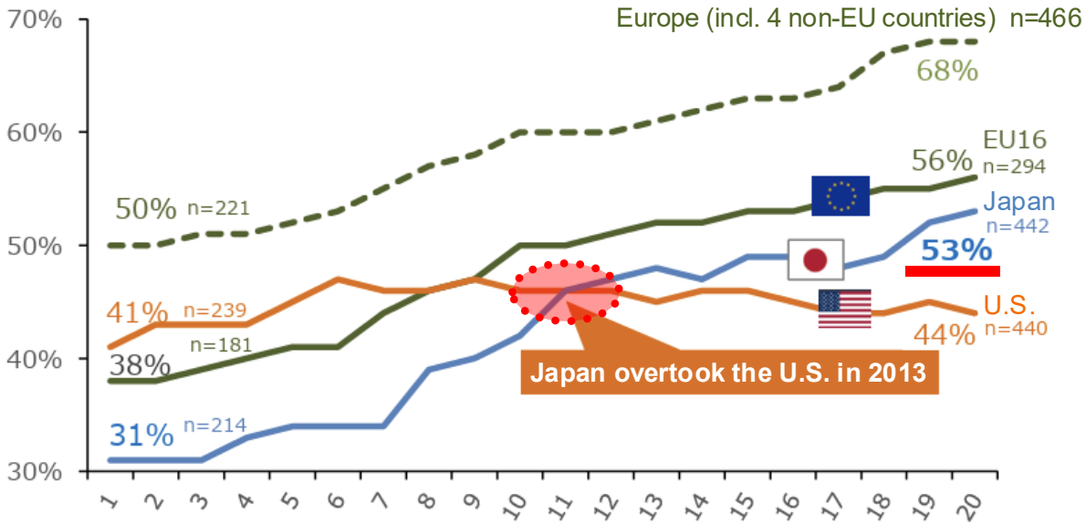
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Manufacturers' Overseas Sales Growth and Global Chemical Regulations

➢ As overseas sales account for a growing share of Japanese manufacturers' revenues, countries worldwide are introducing and tightening regulations on chemicals contained in products to reduce environmental risks. Compliance with these regulations has become essential.

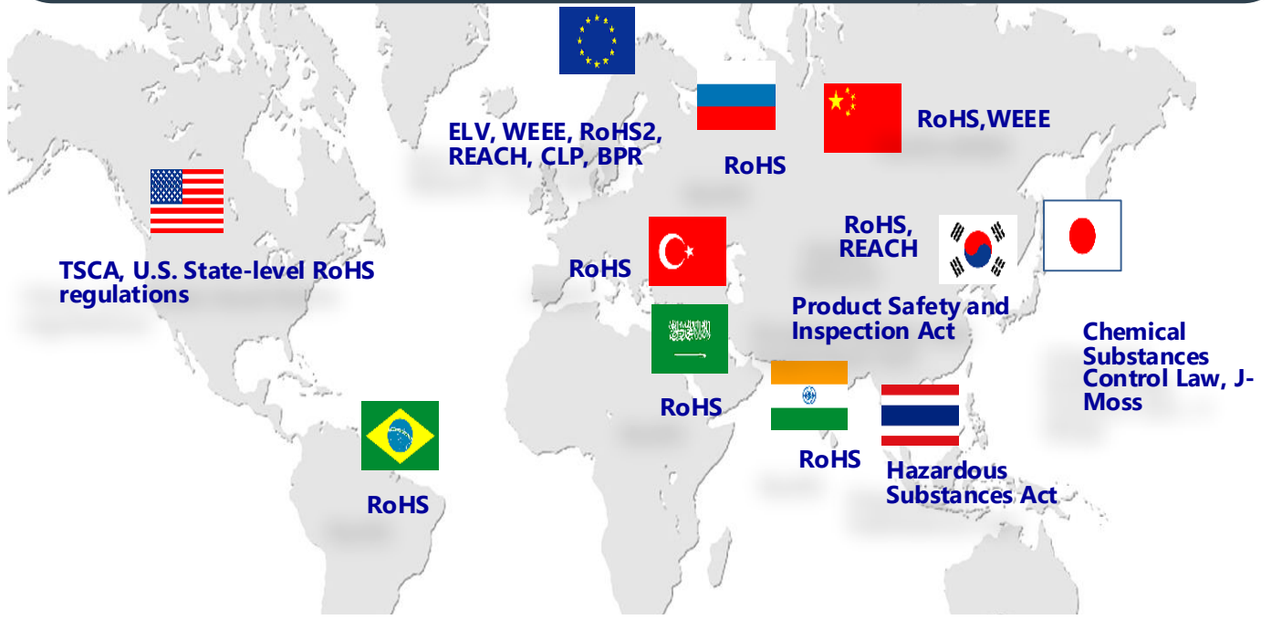
Rising Overseas Sales Share of Japanese Companies

Overseas Sales Share of 500 Major Manufacturers in Japan, the U.S. and Europe



Source: METI, Manufacturing Industries Bureau, "Current Status and Challenges of Manufacturing and Future Policy Directions" (May 2024), excerpt. https://www.meti.go.jp/shingikai/sankoshin/seizo_sangyo/pdf/016_04_00.pdf

Major Global Regulations on Chemicals in Products



- ✓ An electrical or electronic final product is said to contain around 10,000 components.
- ✓ Each component is made of chemical substances. Tracing information upstream through the supply chain is essential to determine whether regulated substances are present.

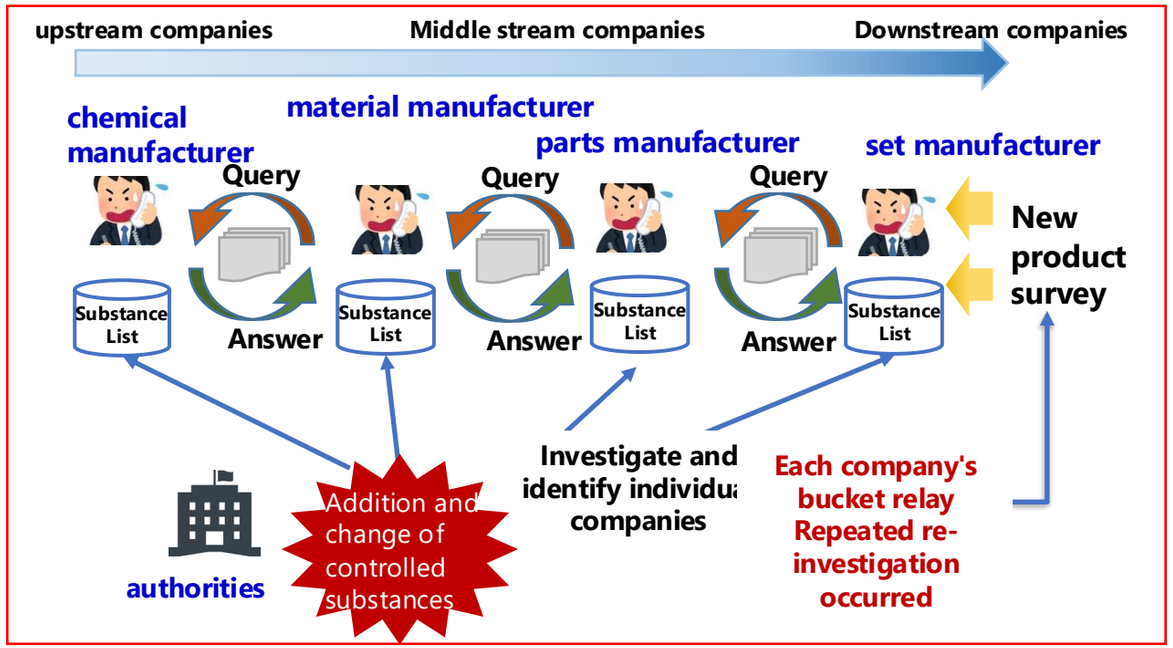
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Concept of CMP

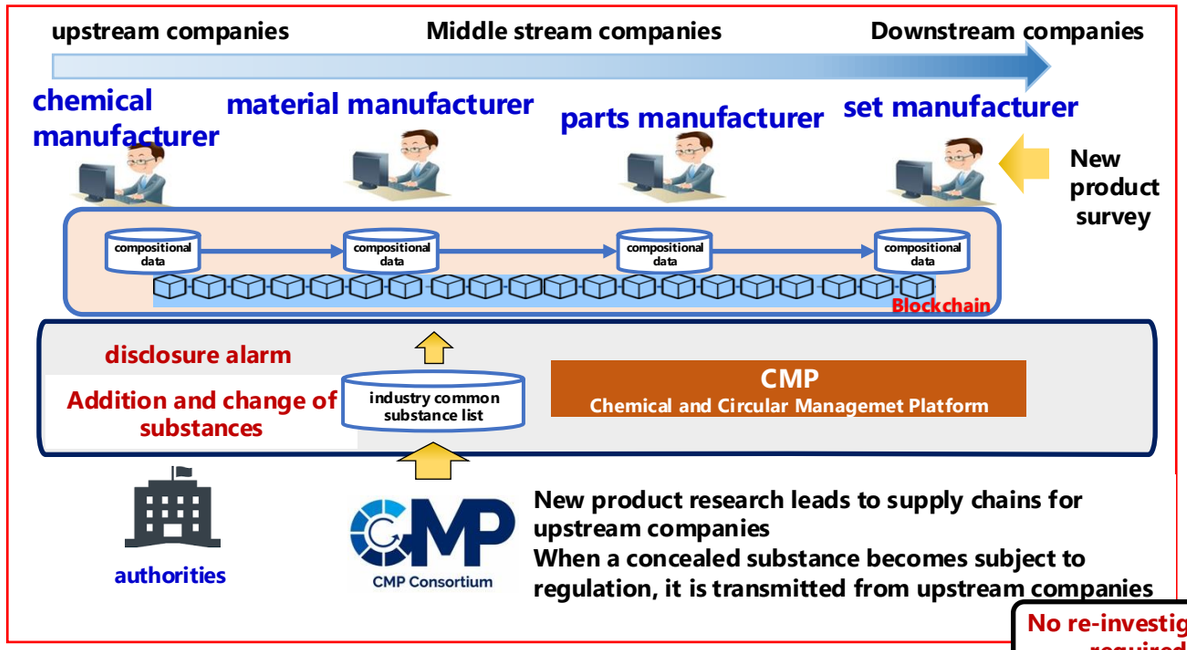
[Benefit]

- Seamless information sharing across the supply chain, without company-by-company relays;
- Less need for repeated investigations when regulations change; and
- Expanded information sharing to support resource circulation, including recycled materials.

[Current Information Transmission]



[Aiming Information Transmission]



Achieved at least 25% reduction in workload (CMP Task Force survey)*

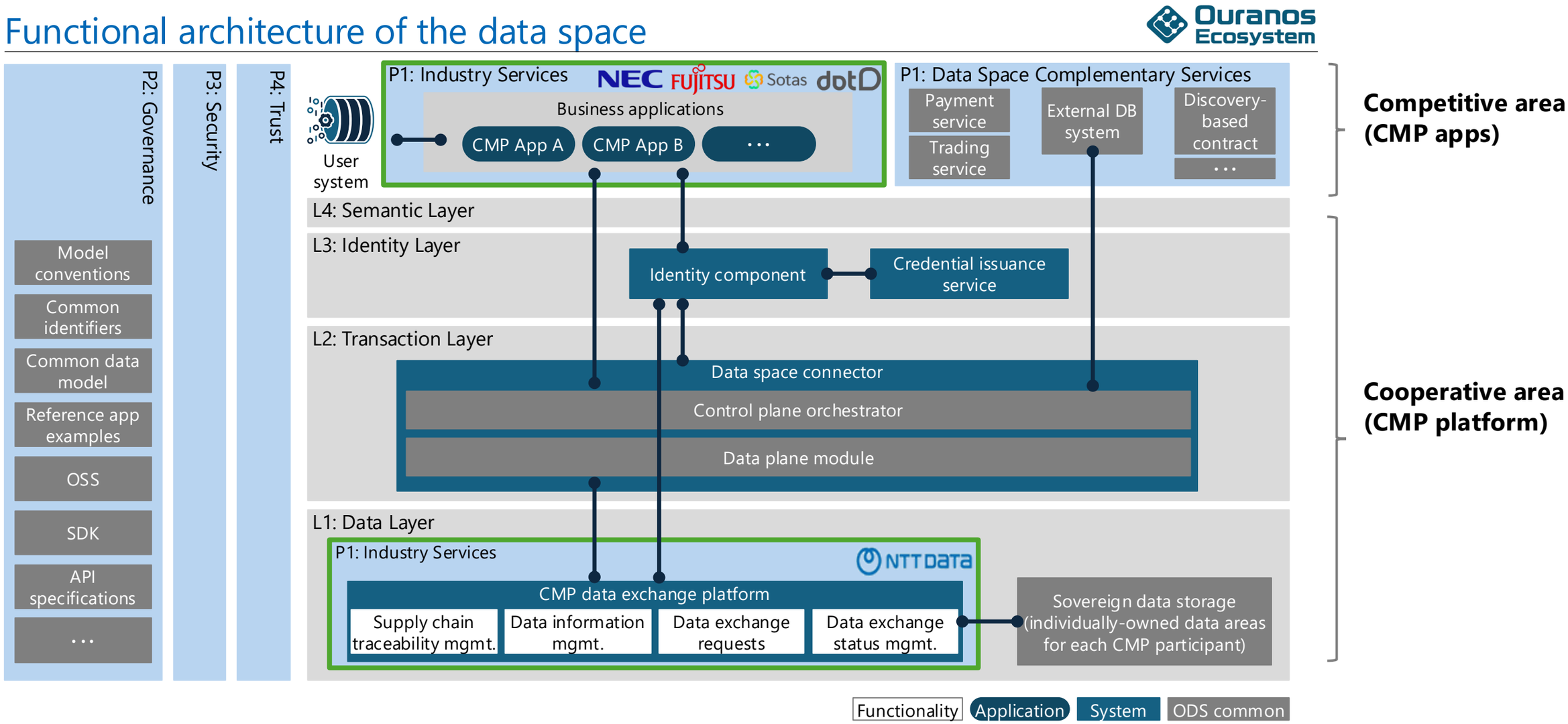
*Survey results from the CMP Task Force prior to the establishment of the consortium

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Integration with the Ouranos Ecosystem

➢ CMP is realized through integration with the Ouranos Ecosystem proposed by METI.

Functional architecture of the data space



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Preparation for Future Environmental Information Sharing

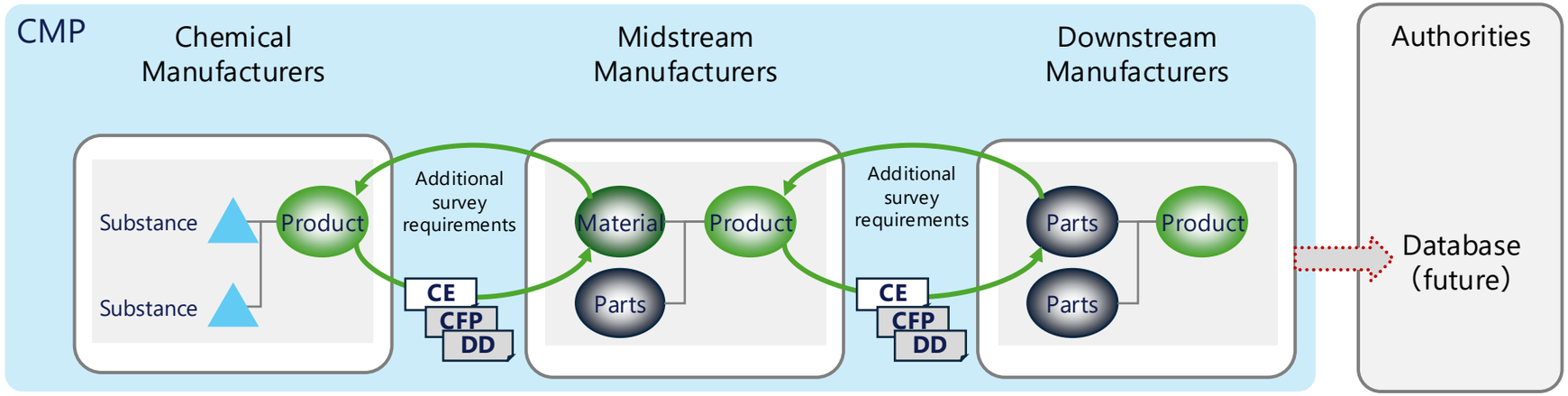
➢ CMP supports not only resource circulation but also future environmental information sharing requirements.

Needs

- Supply chain surveys will be required not only for chemical substances but also for recycling information and carbon footprint (CFP).

CMP Approaches

- Once product, part, and material chains are established through chemical substance surveys, the same supply chain can be used for various additional surveys.



Points:

By establishing product supply chains within CMP, additional information can be shared on the same supply chain, enabling smooth and cost-effective support for future digital product information sharing.

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CMP Launched on 1 October 2026

- CMP launched on 1 October 2026 after the platform vendor and two application vendors completed certification.



1 October 2026

Launch of CMP Services for Information on Chemical Substances in Products and Resource Circulation

Secure information sharing across supply chains to streamline regulatory compliance

CMP Consortium

The CMP Consortium launches services for the Chemical and circular Management Platform (CMP), a platform for information on chemical substances in products and resource circulation that supports the traceability of chemical-substance information, on 1 October 2026.

The service links trading relationships across the supply chain, from raw materials to finished products, with information on chemical substances in products. It allows necessary information to be sent to designated partners, reduces companies' workload and supports timely responses to chemical substance regulations.

The service refers to the Open Data Spaces (ODS) architecture of the Ouranos Ecosystem promoted by METI and the Digital & AI Systems Design Center (DADC) of IPA. With cross-border supply chains in mind, it also refers to IEC/ISO 82474. Starting with the automotive and electrical/electronics industries, it envisages use across a broad range of industries.

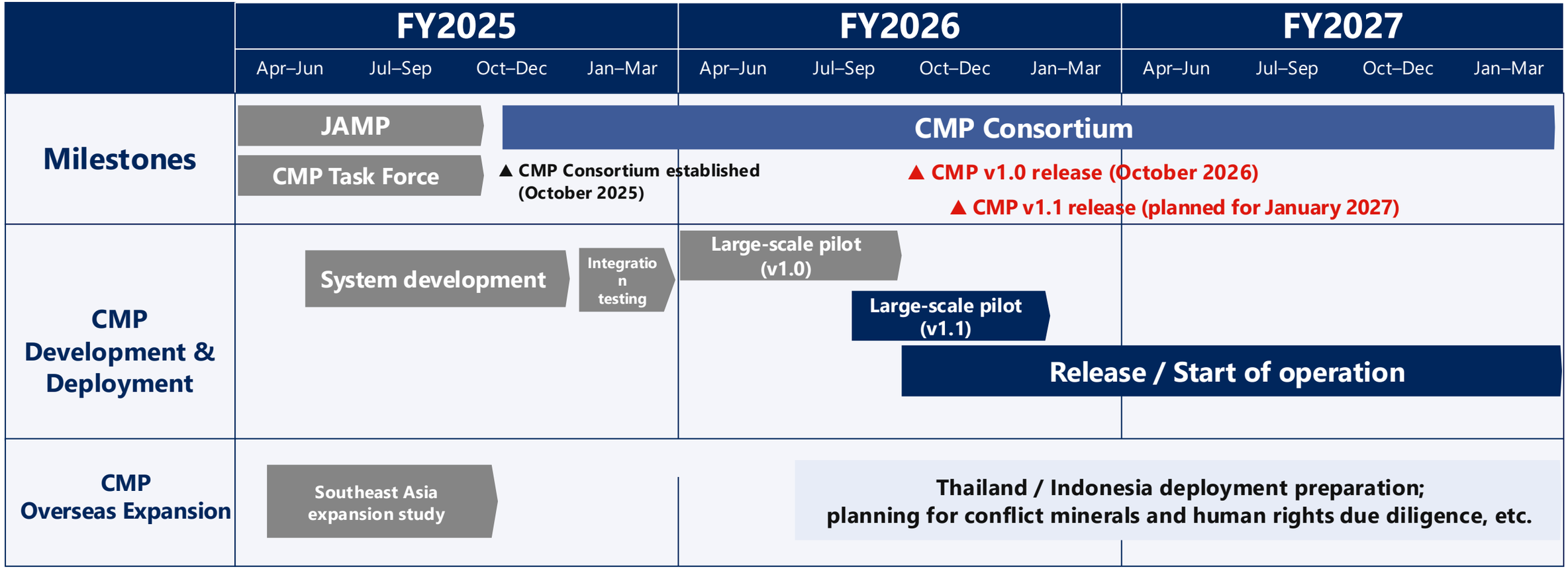
The platform aims to expand beyond chemical-substance information to resource circulation and other types of company-to-company information sharing. Companies across industries contribute to CMP, led by the Consortium's 580 member companies, including Canon Inc. and Toyota Motor Corporation.

Note: This is a provisional English translation of an excerpt from the original Japanese press release. In the event of any discrepancy, the Japanese original shall prevail. Source: CMP Consortium, press release dated 1 October 2026 (Japanese original): https://cmp-consortium.com/wp-content/uploads/2026/10/CMP%E3%82%B5%E3%83%BC%E3%83%93%E3%82%B9%E9%96%8B%E5%A7%8B_%E3%83%97%E3%83%AC%E3%82%B9%E3%83%AA%E3%83%AA%E3%83%BC%E3%82%B9_20261001.pdf

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CMP Overall Schedule

As of October 2026



- ✓ **Schedule: Large-scale pilot (v1.0; approx. 500 companies) completed; full-scale operation began in October 2026.**
- ✓ **Adoption: A fee-waiver scheme for SMEs is being planned to encourage their participation (NEDO project).**
- ✓ **Overseas expansion: Studies to prepare deployment in Thailand and Indonesia have been under way since FY2026.**

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2. RMP Concept

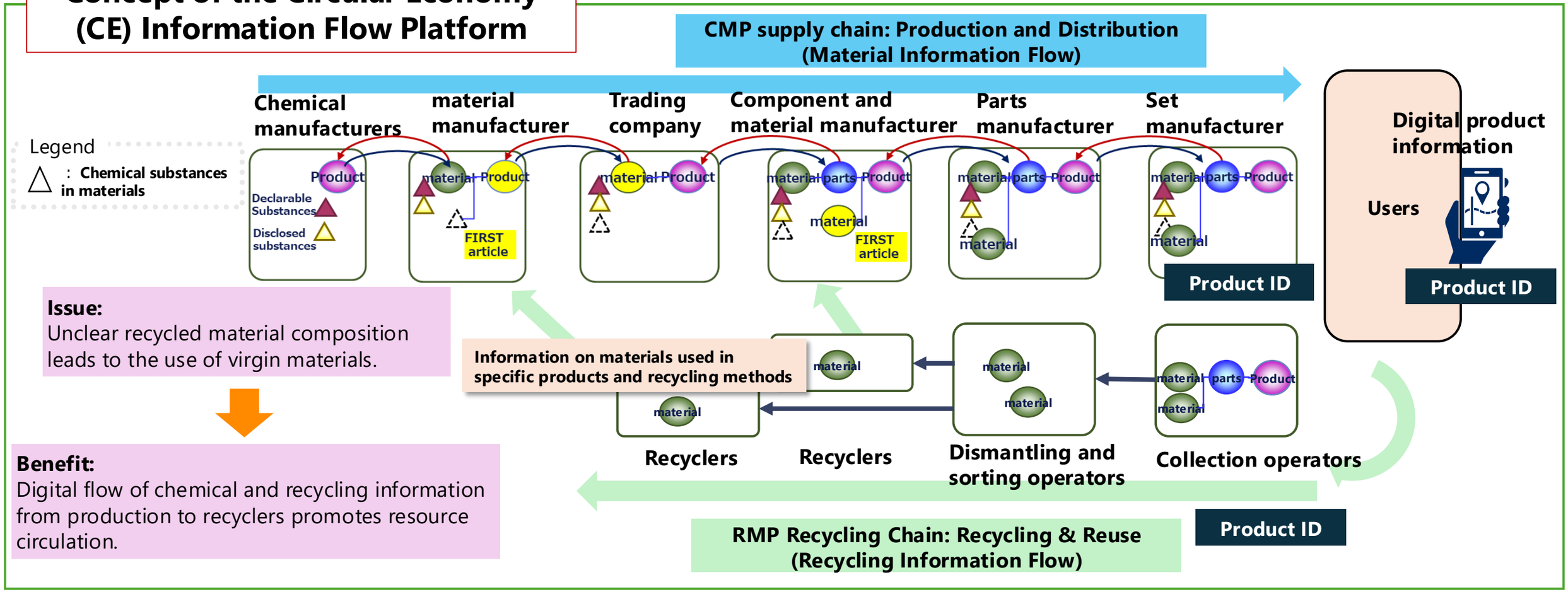
Recycle Management Platform

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Expansion to a Circular Economy Platform

- CMP enables digital sharing of material and chemical information and feeds it back to material manufacturers.
- This promotes the use of recycled materials instead of virgin materials.

Concept of the Circular Economy (CE) Information Flow Platform



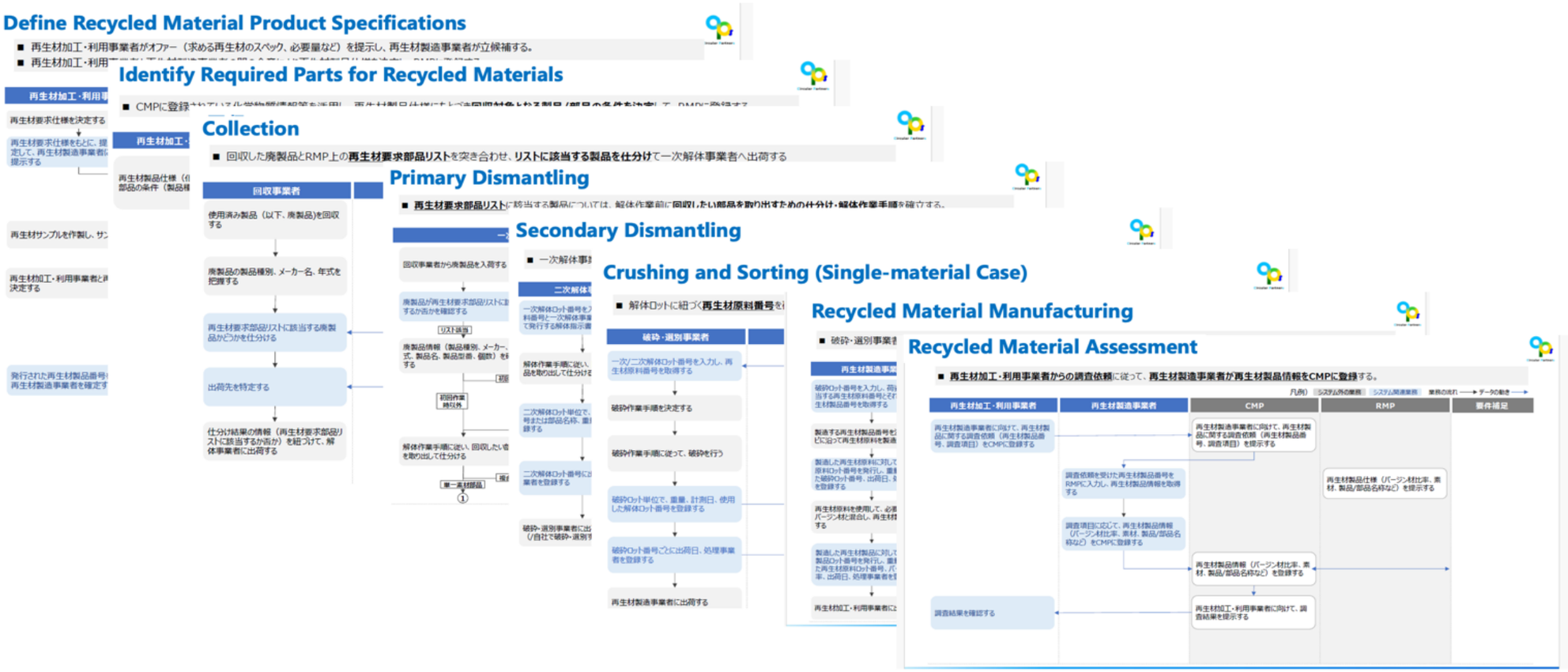
Business requirements are being planned under the Circular Partners initiative of METI.

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RMP Development Status

Business Process Flow (Conceptual)

- ✓ At the start of the process, upstream parties define requirements, and recycled material manufacturers identify the products and parts to be collected.
- ✓ After end-of-life products are collected, key steps are removing hazardous parts and sorting and tracking the weight of parts used as recycled material inputs.

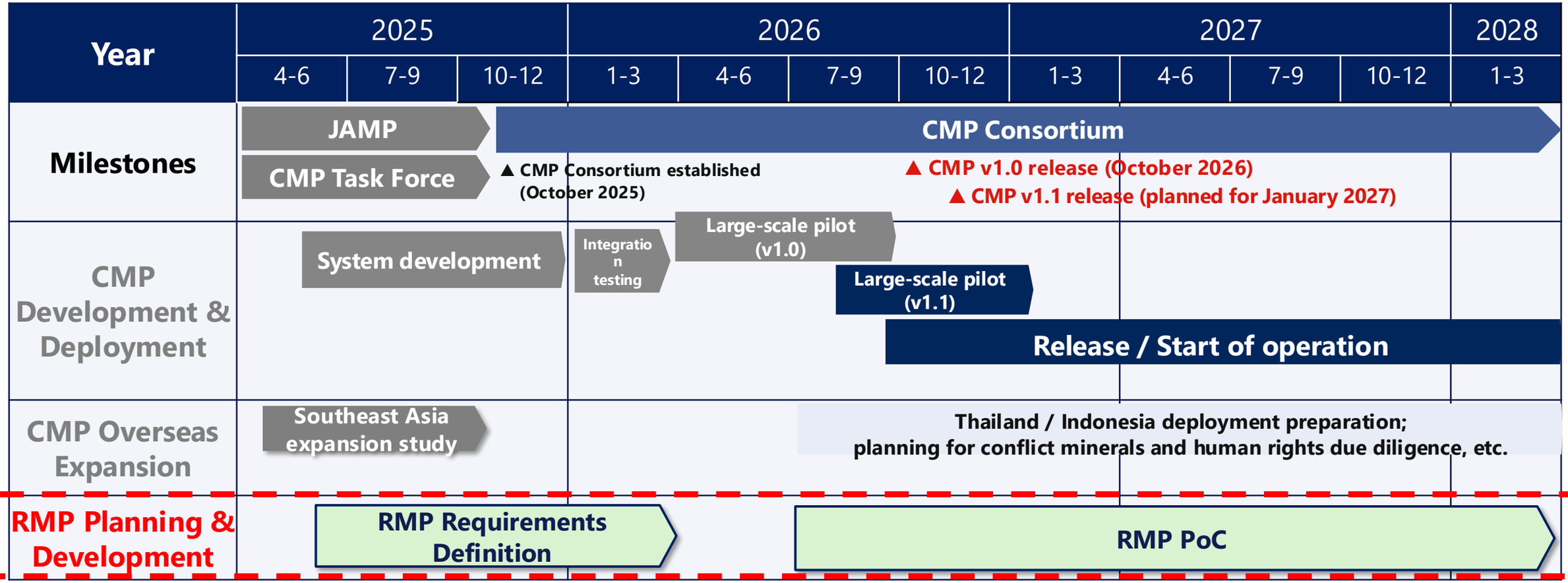


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RMP Development Status: Schedule

As of October 2026



- ✓ **2026 plan: RMP PoC will be conducted till 2027, based on the 2025/2026 requirements definition.**
- ✓ **Design & development plan: Based on the PoC results, basic design and development are planned from 2028 onward.**

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Thank you.



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