



Welcome to our 2nd NEWSLETTER!

We are excited to bring you the latest updates from **RENÉE**, an EU-funded project, launched in January 2024. Coordinated by the [Laboratory for Manufacturing Systems and Automation](#) and a strong consortium of European partners, RENÉE is shaping the future of remanufacturing based on key technologies such as **advanced robotics, AI, Digital Product Passports (DPPs), and sustainable inspection strategies.**

To summarize the end of the first year, one of the highlights was the **2nd General Assembly**, held on **November 21st & 22nd, 2024, in Odense, Denmark.** Hosted by the **Robot Technology team at the Danish Technological Institute**, this event brought together all project partners to review progress, discuss key developments, and engage in hands-on workshops.

From refining the **RENÉE framework and hardware specifications** to planning the **integration of results into real-world applications**, the consortium continues to push the boundaries of **sustainable and AI-driven inspection technologies.** Participants also explored **Potential Inspection Strategies (PSD), DPPs**, and updated the **Key Exploitable Results (KERs)**, setting the foundation for future innovations.

A big thank you to all our partners for their dedication and collaboration! We look forward to keeping you updated as RENÉE moves forward, transforming challenges into opportunities for European industry and sustainability.



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Conferences & Fairs

Several representatives of **RENÉE EU-funded project** took center stage at several prestigious conferences and fairs, showcasing its cutting-edge contributions to AI-driven **inspection strategies, digital product passports, and sustainable manufacturing solutions.**

✓ [34th CIRP DESIGN Conference](#) (3-5 June 2024) – Sharing insights on AI in remanufacturing - [RENÉE Paper](#)

✓ [FAIM 2024](#) (18-22 June 2024) – Contributing to discussions on flexible automation and intelligent manufacturing - [RENÉE Paper](#)

✓ [88th Thessaloniki International Fair](#) (7-15 September 2025) – Featuring RENÉE at a dedicated **booth/banner display**, connecting with key industrial stakeholders.

✓ [European Manufacturing Conference \(EMC\) 2024](#) (24 and 25 September 2024) | co-organized by EFFRA and MANUFUTURE-EU and EIT Manufacturing – Represented in the **expo area**, engaging with industrial leaders.

✓ [Sustainability Day at TU/e](#) (3 October 2024) – Presenting RENÉE's role in fostering sustainability in manufacturing.

✓ [ESAIM 2024 – Advancing AI in Manufacturing](#) (15 October 2024)

RENÉE's project coordinator, the **Laboratory for Manufacturing Systems and Automation (LMS)**, successfully organized the **2nd European Symposium on Artificial Intelligence in Manufacturing (ESAIM 2024)**. Sponsored by two project partners, **EIT Manufacturing South East** and the **Teaching Factory Competence Center**, the event brought together leading AI experts and researchers to discuss AI applications in manufacturing - [RENÉE Paper](#)

✓ [35th CIRP DESIGN Conference](#) (2-4 April 2025) – Sharing insights on "De-Production model combining R-Strategies and D-Strategies in product and production systems life cycles: Application to Remanufacturing.

✓ [InnoHive 2025 by EIT Manufacturing](#) (8-10 April 2025) - RENÉE was proudly showcased at InnoHive 2025 by EIT Manufacturing event in Brussels, highlighting its impact on innovation, sustainability, and circular economy in manufacturing through a dedicated screen presentation in the expo area.

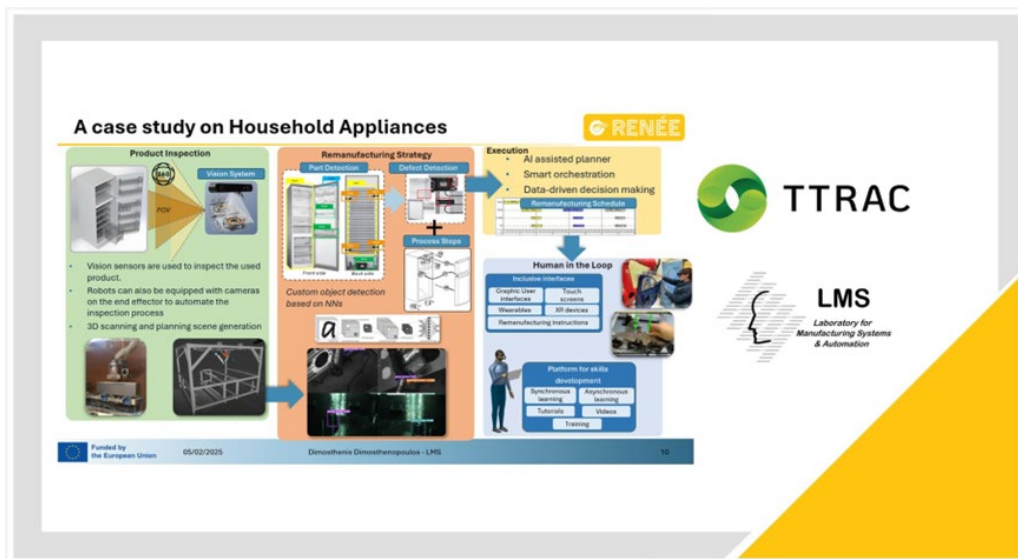




Clustering: Strengthening Collaborations

We are excited to share the success of the **TTRAC Synergy Workshop**, held on **February 5th, 2025**, where **RENEE EU-funded project** joined forces with sibling projects to explore synergies and maximize impact!

As part of the **TTRAC cluster**, RENEÉ collaborates with similar initiatives to drive forward innovation in **AI-powered inspection, digital product passports, and sustainable re-manufacturing**. During the workshop, each project team presented their key objectives, use cases, and expected outcome, paving the way for **collaboration opportunities** and strategic alignment.



Working Groups & Workshops

RENEÉ at European Robotics Forum 2025 (25-27 March 2025)

The **RENEÉ EU-funded project** participated in three impactful workshops during the [European Robotics Forum \(ERF\) 2025](#), held in Stuttgart, Germany. Our partners actively contributed to discussions on **human-robot collaboration, Industry 5.0, and ethical innovation**, showcasing RENEÉ’s mission to shape a resilient and sustainable future for European robotics.

Through insightful presentations and dynamic exchanges, the RENEÉ consortium demonstrated how ethical principles, and inclusivity can be embedded into advanced robotic technologies. The workshops provided a valuable opportunity to **connect with the wider research and innovation community, reinforcing RENEÉ’s role in the evolving robotics landscape.**



RENÉE at EFFRA WG Circularity

(22 November 2024)

RENÉE presented Flexible Remanufacturing using AI & Robotics at **EFFRA WG Circularity** (22/11/2024), highlighting AI-driven circular value chains in EU industry.

RENÉE at AIM-NET Workshop: AI in Remanufacturing

(19 December 2024)

The RENÉE EU Project joined the **AIM-NET Workshop** on AI-driven remanufacturing and circular strategies, presenting cutting-edge research on AI-driven process planning and orchestration in remanufacturing.

Key Focus: Leveraging reinforcement learning, Generative AI, and LLMs for smarter, more adaptive remanufacturing processes.



RENÉE EU-funded project Report - EFRA Highlights the Future of Human-Centric Remanufacturing!

EFRA spotlights **RENÉE EU EU-funded project**, advancing AI, robotics, and digital tools for smart, sustainable remanufacturing.

Key Highlights:

- AI & robotics for adaptive remanufacturing
- Digital twins for optimized production
- Workforce upskilling for future industry needs
- Real-world pilots in e-mobility, robotics & appliances

This Horizon Europe initiative strengthens Europe's circular economy & industrial leadership.

Read EFRA's full post [here](#).

RENÉE: Advancing Flexible, Human-Centric Remanufacturing



Visit our Website for more details

[Website](#)