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Press Release Template for all project partners.

RemaNet: A new European project to boost manufacturing through digital innovation.

Milan, March 6, 2024 - *Remanufacturing is a process that restores used products or components to a "like-new" condition, offering substantial benefits in terms of resource efficiency, environmental impact, and economic value. However, remanufacturing is still not widespread practice facing several challenges such as lack of standardization, data availability, and collaboration among different actors.*

To address these issues, a new European project called RemaNet has been launched, with the aim of enabling a widespread dissemination of the concepts of remanufacturing, recycling, material saving and functional upgrading by implementing a factory-integrated digital platform able to extend the remanufacturing value chain.

RemaNet is funded by the European Union's Horizon programme and will run for 36 months, until December 2026. The project involves 25 partners from 8 countries, representing the entire remanufacturing value chain, including research institutions, technology providers, industrial end-users, and cluster-organisations.

The project's lead partner is the Department of mechanical engineering of the Politecnico di Milano (Polimi) - a leading technical Institute in Italy and Europe with a strong expertise in manufacturing engineering and digital technologies.

[Fill in the description and role of your Institution here, if you wish, or delete this paragraph]

The project kick-off meeting was hosted by Polimi in Milan on the 6th of March. The meeting brought together all partners and stakeholders to discuss the objectives, structure, and activities of the project.

The main goal of RemaNet is to establish a new remanufacturing business model by creating a community, where different actors can make available their specific know-how and contribute to any step of the remanufacturing process. To achieve this, the project will develop a digital platform. Its main goals are to provide a standard for manufacturing and re-manufacturing with an integrated and easy-to-use infrastructure. The platform aims to foster a reliable and secure data flow, access, and use at all levels, from the shop floor and further along the value chain.

Horizontal digital tools will be developed for the platform to enable the matching of supply and demand. This will allow the exchange of required skills in the form of human resources or digitised, formalised knowledge in a secure data format.

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Vertical digital tools are also being developed to enable the integration of production and process data. Another part of the platform will be advanced tools for monitoring, forecasting and full traceability of material information flows. A final benefit is that the platform will allow state-of-the-art remanufacturing technologies to be found in one place.

The project will show the effectiveness and impact of the platform and the digital tools for four industrial use cases. These cases span across various sectors and products, including gas turbines, gearboxes, sheet metal parts, and electric motors. The use cases will demonstrate how the platform supports the remanufacturing process by identifying the product status and potential. In addition, the platform supports the selection of the best remanufacturing strategy, the execution of remanufacturing operations and the validation of remanufactured product quality and performance.

The project will also assess the transferability potential of the platform and the digital tools to other sectors and products, as well as the environmental, social, and economic benefits of the remanufacturing approach. The project will exchange with relevant stakeholders, such as policy makers, standardization agencies, industry associations, and potential end-users, to ensure the dissemination, exploitation, and sustainability of the project results.

RemaNet is expected to create outstanding impacts for the European manufacturing industry, such as increased competitiveness, resource efficiency, circularity, and innovation.

Follow us on LinkedIn to learn more about our remanufacturing use cases, our digital platform, and our transferability potentials:

https://www.linkedin.com/company/remanet-remanufacturing-network

Contact:

Marco Albertelli, RemaNet Project Coordinator, Politecnico di Milano, Milan, Italy

marco.albertelli@polimi.it

Viktor Klein, RemaNet Communication and Dissemination Manager, Umweltcluster Bayern, Augsburg, Germany

viktor.klein@umweltcluster.net

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