



## **PRESS RELEASE**

### **Revolutionising Heavy Metal Component Manufacturing A Midway Achievement Overview**

The ENGINE Project, an ambitious initiative aimed at transforming the manufacturing landscape for heavy metal components, is proud to announce the completion of its first significant phase. Over the past 10 months, the project has moved from initial planning and specifications to the groundbreaking implementation of its core developments, setting a new benchmark in manufacturing excellence.

At the heart of ENGINE's innovation are three foundational components: the ENGINE Exchange, ENGINE Toolbox, and ENGINE Production. These components represent a leap in data management, simulation, AI solutions, and real-time production monitoring that pave the way for a more efficient and defect-free manufacturing paradigm.

#### **Milestone Achievements**

In a demonstration of commitment to technological excellence, ENGINE marked a pivotal milestone in Q4 2023 by delivering the MVPs of its foundational components. This achievement underscores the project's commitment to translating early efforts into substantial technical advancements. A key highlight was the successful demonstration of the whole ENGINE system in November 2023, showcasing its potential in simulating, analysing, and optimising the manufacturing chain – from steelmaking to end-user applications.

#### **Towards a Sustainable Future**

The ENGINE Project is not only advancing technical frontiers but is also shaping the future of manufacturing with its consideration of sustainability and business implications. The project has made significant strides in defining Key Exploitable Results and preliminary exploitation plans, demonstrating its potential to exceed current industry standards through digital workflow and monitoring advancements. ENGINE's journey reflects its commitment to surpassing the state-of-the-art in data management and simulation. By establishing a comprehensive workflow that traces material and product manufacturing causality across critical steps, ENGINE sets a new standard for the industry. The achievements of the ENGINE Project offer valuable insights for the development of future manufacturing strategies, promoting digitalisation, standardisation, and best practices. This places ENGINE at the forefront of efforts to achieve sustainable and defect-free manufacturing across Europe.



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