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REVIEWER'S REPORT

Manuscript No.: IJAR-59840

Title: Beyond Traditional Manufacturing: Redefining Industrial Productivity Through Intelligent Process Optimisation, Digital Engineering, and Resource-Efficient Operations.

Recommendation:

Accept as it is .....

Accept after minor revision.....

Accept after major revision .....

Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity		✓		
Significance		✓		

Reviewer Id: JPR-391

Reviewer's Comment for Publication.

The manuscript presents a relevant and comprehensive review of industrial productivity, focusing on intelligent process optimisation, digital engineering, and resource-efficient manufacturing operations. The integration of firm-level productivity evidence with process-level engineering studies provides a valuable perspective on modern manufacturing practices. The discussion of digital twins, reinforcement learning, process mining, energy-aware scheduling, and material efficiency is informative and supported by relevant literature. The proposed six-dimensional productivity framework and layered capability architecture represent meaningful contributions to the subject. The review methodology, research questions, and overall organisation are clearly presented. However, minor revision is recommended to improve the methodological transparency of the literature selection process, ensure consistency in the presentation of quantitative findings, and strengthen the connection between the reviewed evidence and the proposed framework. Overall, the manuscript addresses an important research area and has good academic relevance and publication potential.