

REVIEWER'S REPORT

Manuscript No.: JNBMS- 051

Title: Artificial Intelligence and the Future of Global Supply Chain Logistics.

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	✓			

Reviewers Id: JPR-233

Reviewer's Comment for Publication.

The manuscript addresses a highly relevant and timely topic concerning the role of Artificial Intelligence (AI) in transforming global supply chain logistics. The paper provides a broad overview of major AI applications, including demand forecasting, inventory optimization, warehouse automation, transportation and route optimization, predictive maintenance, supply chain risk management, procurement, and customer service. It also discusses emerging technologies such as autonomous vehicles, digital twins, generative AI, AI-blockchain integration, edge computing, and sustainability-oriented optimization.

The manuscript is generally well organized and written in a clear and accessible manner. The discussion appropriately recognizes both the opportunities and limitations associated with AI adoption. In particular, the sections on data quality, workforce transition, cybersecurity, algorithmic bias, infrastructure costs, regulatory uncertainty, and model fragility provide a balanced perspective rather than presenting AI as an unconditional solution. The emphasis on human-AI collaboration and the need for governance is also appropriate and adds practical value.

The manuscript has good potential for publication; however, several minor revisions are recommended before acceptance.

Major points requiring attention:

- Research methodology should be clarified.** The paper describes itself as providing a comprehensive examination of AI in supply chain logistics, but it does not clearly explain whether it is a systematic literature review, narrative review, conceptual paper, or industry-based review. The authors should explicitly state the review methodology and, if applicable, explain the literature/database selection criteria, search strategy, inclusion/exclusion criteria, and period covered.
- The academic literature base should be strengthened.** A considerable portion of the discussion relies on reports and forecasts from organizations such as Gartner, McKinsey, Fujitsu, and the World Economic Forum. These sources are useful for industry trends, but the paper would be

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academically stronger if more peer-reviewed journal articles and empirical studies were incorporated, particularly when making claims about performance improvements, AI adoption, employment effects, sustainability, and resilience.

3. **Some quantitative and industry claims require stronger supporting evidence.** Statements concerning reductions in inventory, fuel consumption, stockouts, disruption response time, and other measurable benefits should ideally be supported by specific empirical studies, reported figures, or clearly identified case studies. General statements about "significant benefits" should be appropriately qualified where direct evidence is limited.
4. **References and in-text citations should be carefully cross-checked.** All citations appearing in the manuscript should have corresponding entries in the reference list, and all references should be cited in the text. The use of sources such as "World Economic Forum, 2026a/b/c" should be verified for consistency. The authors should also ensure that all URLs, publication dates, report titles, and organizational authors are accurate and formatted according to the required referencing style.
5. **The distinction between current applications and future expectations could be improved.** Some forecasts regarding autonomous logistics, agentic AI, robot-centric warehouses, and autonomous decision-making are presented alongside established applications. The authors should more clearly distinguish technologies that are already commercially deployed from those that remain at the pilot, experimental, or forecast stage.
6. **The paper would benefit from greater critical synthesis.** Much of the manuscript is descriptive. A stronger analytical comparison of AI approaches, their applicability in different supply-chain contexts, implementation requirements, and trade-offs would increase the scholarly contribution. For example, a summary table comparing AI applications, required data, expected benefits, implementation barriers, and maturity levels would substantially improve the paper.
7. **SMEs and developing economies deserve greater attention.** The manuscript acknowledges that smaller organizations may face greater implementation barriers, but this issue could be discussed more substantially given the importance of SMEs in global supply chains and the digital infrastructure disparities across countries.
8. **Minor language and formatting corrections are required.** There are several missing spaces, punctuation problems, and formatting inconsistencies in the manuscript, such as "adoptiondata governance," "benefitslower costs," "disruptionssuch as," "systemsallow," and "futuredecade." Section numbering also contains inconsistencies such as "4a," "4b," and "7a." These should be standardized before publication.

Overall Assessment

The manuscript is relevant, well structured, and potentially valuable to researchers, practitioners, and policymakers interested in AI-enabled supply chain transformation. Its broad coverage of both established and emerging AI applications is a strength. The discussion of risks and the emphasis on human oversight, governance, resilience, and sustainability further enhance its practical relevance.

The principal limitation is that the manuscript currently provides more of a broad narrative overview than a rigorous academic review or systematic synthesis. Strengthening the methodological description, peer-reviewed literature base, empirical evidence, citation consistency, and critical analysis would significantly improve its scholarly quality.

Recommendation: Accept after minor revision.