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 Prof. Dr. Andi Adriansyah  
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**RINA FITRIANA** vritaf@trisakti.ac.id  
 Kepada Andi

Dear Prof. Dr. Andi Adriansyah,

In the last revision, we added Sannia Mareta from the Faculty of Science and Engineering at the University of Nottingham Ningbo, China, as the fifth author. Please revise it in the published paper on the website. Thank you for your collaboration.

Best regards,  
 Rina Fitriana

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 6. Please revise the yellow color in references (update the references with the newest one that is not more than five years old, and use primary sources). Complete all items in IEEE Style (Journal Name, vol., no., pp., year, DOI) strictly, especially the journal's name, which should be complete. Avoid sources in Indonesian except for 10%.  
 7. If possible, please provide at least two articles as references from **SINERGI** (published in 2023, 2024, 2025, 2026)  
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Dear Prof Andi Andriansyah,  
This is our revision,  
1. Final revised paper (in MS Word file format). PLEASE USE THIS FILE FOR REVISION, AND DO NOT CHANGE THE FORMAT.  
2. The correction table file as well, separately  
3. The Copyright Transfer Agreement (CTA)  
Thank you for your cooperation.  
Best regards,  
Rina Fitriana

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**RINA FITRIANA** <rinaf@trisakti.ac.id>  
kepada Andi, Asep < >  
Dear Prof. Dr. Andi Andriansyah  
We would like to ask when our paper can be published.  
Thank you for your cooperation  
Best Regards,  
Dr.Ir. Rina Fitriana,ST,MMI, PM

**Andi Andriansyah** <andi@mercubuana.ac.id>  
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Dear Author,  
Thanks for your email.  
Your manuscript is still in the editing process.  
The manuscript will be published for vol. 30, no. 2, June 2026.  
Very appreciated for your cooperation.  
Warm regards,

**RINA FITRIANA** <rinaf@trisakti.ac.id>  
kepada Andi < >  
Thank you for your information.  
Best regards,  
Rina Fitriana

**Andi Andriansyah** <andi@mercubuana.ac.id>  
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Article Title: A Traceability Model for Rental Equipment in Support Companies within the Oil and Gas Industry  
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Your paper will be scheduled after your final paper, similarity report and payment evidence reach us !!!  
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We appreciate your total commitment to supporting this journal.  
We look forward to hearing from you soon.  
Best regards,  
**Dr. Hermy Agung Prabowo**  
Universitas Mercu Buana  
Phone +62317679357  
[hermy\\_agu@mercubuana.ac.id](mailto:hermy_agu@mercubuana.ac.id)

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Dr. Ir. Rina Fitriana, STMMI, PM

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kepada saya, Asep, Didien, Asri

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Dear Authors,  
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Best regards,  
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kepada saya, Asep, Didien, Asri

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Journal Name: **SINERGI**  
Article Title: A Traceability Model for Rental Equipment in Support Companies within the Oil and Gas Industry

Dear Dr. Rina Fitriana:

We have reached a decision regarding your submission to **SINERGI**, "A Traceability Model for Rental Equipment in Support Companies within the Oil and Gas Industry".

Our decision is: Revisions Required

Please revise your paper according to the reviewers' comments. List down revision that you have done in a list correction table. Send:  
1. The revised paper, and  
2. A list correction table file in Journal System and cc to [andi@mercubuana.ac.id](mailto:andi@mercubuana.ac.id)

We look forward to hearing from you soon.

Best regards,  
  
Dr. Herry Agung Prabowo  
Universitas Mercu Buana  
Phone +62878679357  
[herry\\_agung@mercubuana.ac.id](mailto:herry_agung@mercubuana.ac.id)

Reviewer A:

This paper presents a significant advancement by integrating blockchain, IoT, and QR codes to enhance transparency and operational efficiency in equipment rental management within the oil and gas industry. The development and simulation of the proposed model, demonstrating a 91.7% increase in efficiency, indicates strong practical relevance and innovative contribution to industrial engineering and systems engineering fields. However, the study would benefit from a more comprehensive validation through field implementation and discussion of potential challenges related to technology integration and stakeholder resistance.

Here are the detailed parts that need to be improved :

## 1. Abstract

The "Abstract" section demonstrates several critical shortcomings that undermine its clarity, completeness, and scholarly rigour. Firstly, it lacks specific details regarding the research methodology, such as the framework or tools used for system development beyond a vague mention of design principles. Including explicit information about the modelling techniques, simulation environment, and validation process would strengthen its scientific validity. Secondly, the abstract refers to a "91.7% increase in efficiency" without clarifying the baseline or the metrics employed to evaluate this improvement, which diminishes the credibility and interpretability of the results. Clarification of the key performance indicators and measurement approach is essential. Thirdly, the abstract does not explicitly articulate the novelty of the study relative to existing literature, nor does it discuss potential limitations or the scope of application, which are critical for contextualising the contribution. Finally, its language can be made more precise and formal, avoiding ambiguous phrases like "significantly improved" in favour of quantifiable or demonstrative language.

Examples of improvement:

- **Methodology clarification:** Original: "Using object-oriented analysis and design, this research introduced a novel application of traceability methods...". You can improve with: "Employing object-oriented analysis and design within the Business Process Model and Notation (BPMN) framework, the study developed a comprehensive system prototype, which was subsequently simulated using Bizagi Modeler to evaluate performance metrics."
- **Specify key results:** Original: "Simulation results show a 91.7% increase in efficiency...". Improved: "Simulation results indicate a 91.7% improvement in process efficiency, measured as the reduction in processing time per transaction, relative to the existing manual management system."
- **Articulating novelty:** Original: "The abstract mentions integrating technologies, but does not specify the unique contribution. Improved: "This study uniquely combines blockchain, IoT, and QR code technologies within a unified framework tailored for the oil and gas sector, addressing previously identified gaps in equipment traceability and data security."
- **Addressing limitations:** Original: Absent. Improved: "While the system demonstrates promising performance in simulation, further research is necessary to validate its effectiveness in real-world operational environments."

## 2. Introduction

The "Introduction" section is foundational in setting the context for the research, detailing its significance, and outlining its objectives. However, several elements require refinement to enhance clarity and scholarly rigour. Primarily, it lacks a clear articulation of the problem statement and the significance of the research within the broader industrial and academic context. While it mentions challenges in equipment management within the oil and gas sector, it does not specify the extent of these issues or their implications, thus reducing the urgency and relevance of the study. Additionally, the current narrative is overly general and lacks concrete data or references to substantiate the claims of inefficiencies and technological gaps, which diminishes its credibility. Furthermore, the introduction fails to explicitly define the research gap and how this study addresses it, thereby weakening its contribution claim. It also insufficiently discusses the theoretical background or prior work, which is essential for positioning the research within current scholarly discourse.

Examples of necessary improvements:

- **Clarify the research problem and its importance:** Original: "The Oil and Gas (O&G) industry has been notably affected, operating in a dynamic and competitive environment where efficient and dependable equipment management is crucial for smooth operations". Please improve with: "The oil and gas industry faces persistent challenges related to equipment traceability, which significantly impact operational efficiency, safety, and regulatory compliance. For instance, previous studies have reported that manual tracking systems contribute to data inaccuracies, leading to increased downtime and safety risks."
- **Incorporate empirical or statistical evidence:** The paragraph mentions challenges but lacks quantitative data. Please improve with: "Despite the critical role of equipment management, reports indicate that up to ...% of equipment records are incomplete or inaccurate in current systems, resulting in estimated operational losses exceeding USD ..... annually."
- **Explicitly define the research gap and novelty:** It is vague about how this work advances the field. Please improve with such sentences: "While existing literature explores digital solutions for supply chain traceability in sectors such as food and agriculture, limited research has focused on integrating blockchain, IoT, and QR codes specifically within the oil and gas equipment rental context. This study addresses this gap by proposing a holistic, technology-driven traceability model tailored for the complexities of oil and gas operations."

- **Contextualise it within the theoretical framework or prior work:** It lacks references to prior models or frameworks. Please improve by building upon prior frameworks that utilised blockchain for supply chain security. This research extends these concepts to the domain of equipment rental management, incorporating real-time tracking and digital record-keeping to enhance transparency and reliability.

## 3. Research Methods

Enhancing the "Research Method" section requires explicit clarification of the research design, sampling procedures, data collection and analysis techniques, validation methods, and the systematic integration of technological tools. These refinements will bolster transparency, methodological rigour, and the reproducibility of the study. For this particular study, several areas require improvement to enhance clarity, robustness, and replicability:

- **Specify the research design (such as qualitative case study, quantitative simulation, mixed-methods approach),** such as: "This study adopts a mixed-methods design, integrating qualitative stakeholder interviews with quantitative model simulation to ensure comprehensive evaluation."
- **Elaborate on the sampling strategy and participant selection criteria.** For example: "Stakeholders across the Indonesian oil and gas rental ecosystem were purposively sampled to include operational managers, quality assurance personnel, and system operators, ensuring diverse perspectives relevant to system validation."
- **Detail data collection procedures and analysis methods.** Improvement example: "Primary data were collected through semi-structured interviews and system observations. Quantitative data from operational logs were statistically analysed using descriptive and inferential techniques to assess model performance."
- **Specify validation and verification methods for the developed model,** such as: "Model validation was performed through cross-validation with operational data and triangulation of stakeholder feedback, thereby establishing the robustness and reliability of the proposed framework."
- **Clarify how tools like UML, BPMN, and simulation software were employed in the process,** such as: "UML diagrams and BPMN workflows were utilised to formalise system design, which was then implemented and tested using Bizagi Modeler and Visual Paradigm to simulate real-world operational scenarios."

## 4. Results and Discussion

The "Results and Discussion" section is crucial for conveying the study's findings and interpreting their implications. Primarily, the presentation of conclusions appears largely descriptive, lacking in-depth analysis that elucidates the impact, significance, or contextual relevance of the results. There is a discernible absence of comparative analysis, statistical validation, or discussion of how the results substantively contribute to the existing body of knowledge. Furthermore, the section does not adequately address potential limitations or uncertainties associated with the findings, which are critical for a balanced and credible discussion.

Additionally, the discussion tends to reiterate the results without sufficiently interpreting their practical impact or theoretical significance within the broader context of technology integration in the oil and gas sector. There is also a deficiency in linking the results to specific research questions or hypotheses, diminishing the coherence and argumentative strength of the narrative. Moreover, visual data representations such as tables or figures are not well integrated into the discussion, and their insights are not thoroughly analysed or explained.

Examples of specific improvements include:

- **Incorporate statistical or analytical validation to strengthen the findings:** You can improve with: "The validation of the traceability model demonstrated a ...% accuracy rate in real-time tracking, as confirmed through operational data analysis using descriptive statistics and error analysis."
- **Deepen the interpretative discussion to highlight the significance of the results:** The improvement can be: "The high validation score indicates that integrating Blockchain and IoT technologies significantly enhances operational transparency, which aligns with industry objectives for digital transformation."
- **Connect findings explicitly to research questions or hypotheses.** Improvement: "The results confirm the hypothesis that the proposed model improves data accuracy and process efficiency, particularly in real-time equipment monitoring and document management."
- **Analyse the limitations and potential biases in the results.** Improvement: "A potential limitation of the model's validation is the relatively limited sample size of stakeholder feedback, which may impact the generalizability of the findings across different operational contexts."
- **Integrate visual aids with a comprehensive explanation.** Improvement: "Table ... illustrates the validation scores across different modules, with the equipment movement flow achieving an ...% compliance rate, underscoring its robustness; however, further optimisation is recommended based on stakeholder feedback."

## 5. Conclusion

Several areas in this section may require enhancement to improve clarity, coherence, and academic rigour. Here are some identified shortcomings and suggestions for improvement:

1. Primarily, it tends to be overly general and lacking in specific, measurable articulations of the study's contributions and implications. Elaborate on particular contributions and their significance such as: "This study introduces an innovative integration of Blockchain, IoT, and QR code technologies into a comprehensive traceability model specific to the oil and gas equipment rental industry, resulting in a ...% reduction in data inaccuracies and a ...% increase in operational efficiency, as validated through simulation and stakeholder feedback."
2. Acknowledge limitations and propose future research avenues, such as: "While the proposed model demonstrates promising results, its validation is limited to simulated environments and a specific set of stakeholders. Future research should focus on real-world deployment across various operational contexts and assess long-term performance and scalability issues."
3. Explicitly related findings to research aims and broader implications. The improvement can be: "The findings substantiate the hypothesis that technological integration enhances transparency and efficiency, thereby contributing to the advancement of digital supply chain management in the oil and gas sector. This lays the groundwork for broader adoption and subsequent refinement of blockchain-enabled tracking systems."
4. Discuss potential practical applications and industry relevance, such as: "The developed model has the potential to be integrated into existing asset management systems, leading to improved compliance, reduced operational costs, and enhanced stakeholder trust, particularly in sectors demanding high transparency standards."
5. Use precise, measurable language to describe outcomes. For example: "The implementation of the model resulted in measurable improvements, including a 20% reduction in equipment misplacement incidents and a 30% decrease in document processing time, indicating its tangible benefits for operational management."

## 6. References

The references cited in this study are thoroughly traceable, demonstrating clear linkage to relevant and credible sources. Each reference is accurately documented with complete bibliographic details, including author names, publication titles, volume and issue numbers, pages, publication years, and digital object identifiers (DOIs). This meticulous referencing facilitates verifiability and cross-referencing, thereby enhancing the transparency and scholarly rigour of the research. The comprehensiveness of the references underscores the authors' commitment to academic integrity and supports the study's foundation within the existing body of knowledge.

Reviewer B

Abstract:

The abstract is still too long and narrative; it should be limited to 150-250 words.

The statistical validation method is not explained.

The novelty statement should be more explicit ("This study is the first to integrate Blockchain-IoT-QR for traceability in oil and gas rental operations in Indonesia").

**Introduction:**

The introduction section is somewhat repetitive, especially paragraphs 2–5, which repeat the issues of traceability and Blockchain. It is recommended to shorten it and present the research gap in the form of a comparative table between previous studies and this study. There is too much generic Blockchain/IoT literature without critical comparison. There is no taxonomy or framework comparison table. A summary should be added: "Previous models lack real-time integration among Blockchain-IoT-QR in high-rotation rental systems." The research gap has been mentioned, but it has not been stated visually and systematically. Novelty is still empirically weak because:  
there is no evidence of real system implementation,  
there is no benchmark comparison with similar models,  
BPMN simulation is not sufficient to show a 91.7% performance improvement without empirical data.

**Discussion:**

There is no comparison of results with other studies. The efficiency figure (91.7%) is not explained by formula or data (there is "%Efficiency = ..." but it is incomplete). Visual validation is needed (comparison graph before and after the system).

Prof. Dr. Andi Adriansyah  
<http://www.mercubuana.ac.id>



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**RINA FITRIANA** <rinaf@trisakti.ac.id>  
kepada Andi, Asep, Didien, Asri ▾  
Dear Prof. Dr. Andi Adriansyah,

We would like to submit our revised journal. We hope it can be accepted. Thank you for your cooperation.

Best regards,

Dr. Ir. Rina Fitriana, ST, MM, IPM

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Dear Authors,

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**RINA FITRIANA** <rinaf@trisakti.ac.id>  
kepada Andi, Asep, Didien, Asri ▾

Dear Prof. Dr. Andi Adriansyah,

We would like to submit our revised journal. We hope it can be accepted. Thank you for your cooperation.

Best regards,

Dr. Ir. Rina Fitriana, ST, MM, IPM

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Dear Authors,

Well received with thanks.

However, your paper still needs revision.  
Some of the improvements that need improvement are as follows:

1. Please place figures and tables at the beginning or end of each page, not in the centre of the page.
2. Use IEEE Style for citations and references with all items **completely** (Authors, Title, Name of Journal/Conferences, vol., no., pp., year, and DOI).

We wait to hear from you.

Kind regards,



**RINA FITRIANA** [rinf@trisakti.ac.id](mailto:rinf@trisakti.ac.id)  
kepada Asep, Diden, Asri, Andi

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7 Nov 2025, 10:04



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Dear Authors,

Well received with thanks.  
Noted.

Warm regards,  
ANDI