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Your article profile in International Journal of Industrial Engineering & Production Research

International Journal of Industrial Engineering and Production Research

Tue, Apr 23, 2024 at 3:30

<ijie@iust.ac.ir>

PM

Reply-To: International Journal of Industrial Engineering and Production Research <ijie@iust.ac.ir>

To: "dianretnosd@ukwms.ac.id" <dianretnosd@ukwms.ac.id>

Dear [Dian Dewi](#)

Reference to the manuscript titled:

Title:**The Product-Service Systems Supply Chain Agility Readiness: an Exploratory Analysis of a Development of Construct and Instrument**

Please find attached a copy of the referee reports on the above article for your perusal.

I request you to follow the comments of the reviewers and provide a suitable response to each reviewer's comment and send it to me via email address ijie@iust.ac.ir within the next 10 days at the latest.

In order to increase the quality of the journal, I expect you to do the necessary professional editing on your article and make sure that your manuscript is free of any grammatical errors and English language bias.

**Sincerely Yours,
Mohammad Saidi- Mehrabad
Editor in Chief**



D.N. Dian Retno Sari Dewi P. , ST., MT. <dianretnosd@ukwms.ac.id>

Your article profile in International Journal of Industrial Engineering & Production Research

D.N. Dian Retno Sari Dewi P. , ST., MT. <dianretnosd@ukwms.ac.id>

Sun, Apr 28, 2024 at 3:29 PM

To: International Journal of Industrial Engineering and Production Research <ijie@iust.ac.ir>

Dear Editor in Chief
Mohammad Saidi - Mehrabad,

Hope this email finds you well. Thank you so much for giving the review back to us. I've included the revised paper based on the reviewer's feedback in the attachment. Furthermore, there's an additional file addressing the reviewer's comments that significantly contributed to the journal's enhancement.

Best regards,
Dian Dewi
[Quoted text hidden]

2 attachments

 **IEPR AfterReview4.docx**
113K

 **IEPR Review comments.docx**
30K

Authors : Dewi, DRS et al
 Title : The Product-Service Systems Supply Chain Agility Readiness: an Exploratory Analysis of a Development of Construct and Instrument

Responses to the Reviewer

The authors gratefully acknowledge the comments and suggestions of the referees. In the revision, we have made major changes on our article to consider all the questions raised by the referees. This revision includes modifications to the original contents and the clarifications of the questions. This document outlines the amendments made to the manuscript in view of the valuable insights provided by the reviewer who required revisions. The below provides the comment of the reviewer, followed by a description of the amendment undertaken.

Revisions based on Reviewer 1 comments

No	Comments	Actions by the authors
1	Research questions are not given in the introduction of paper	<p>Revised. The authors appreciate the advice by the reviewer. Thank you for your suggestions.</p> <p>We have addressed this now with adding changes in the introduction section. We add two research questions in the last section of introduction.</p> <p>Here are the research questions:</p> <p><i>RQ1</i> How to create a tool for assessing the readiness of PSS SCA?</p> <p><i>RQ2</i> Do the six capabilities, which encompass collaboration, knowledge transfer, service partner development, information sharing, logistic integration, and supply chain agility, form part of the instrument for assessing PSS SCA readiness?</p>
2	Problem description is not perfect; for example, there are some assumptions or features in the rest of the paper so that the reader can not understand	<p>Revised. The authors appreciate the advice by the reviewer.</p> <p>We have addressed this now with separate lines in the new paragraph so that it is clearer about statement of the problems. Also, it is located directly below the research</p>

		<p>questions.</p> <p>Here is the statement: Hence, this study aims to develop the construct and instrument for measuring the PSS SCA readiness through the six capabilities that the stakeholders in the SC build to deliver PSS. Six capabilities include collaboration, knowledge transfer, service partner development, information sharing, logistic integration, and SCA.</p>
3	<p>Research gap is not clear; in fact, a table should be given to represent the key features of the reviewed researches and the current research so that one can compare them and finds the contributions of the current paper</p>	<p>Revised. The authors appreciate the advice by the reviewer. Thank you for your suggestions.</p> <p>We have addressed this now with a significant adding paragraph in the introduction section. We refrain from including a table due to the journal's requirement of limiting the page count to ten. However, we explicitly address the research gap at the conclusion of the introduction section. Kindly comprehend the reason behind our inability to incorporate a table.</p> <p>Here is the new paragraph that we add to make research gap clear:</p> <p style="padding-left: 40px;">In its competition with other companies, manufacturers focus on supply chain management to ensure that their products remain competitive and agile. Several previous studies have identified the capabilities needed, including collaborating with key suppliers, internal and external integration, logistics process integration, and information sharing [4, 9–12].</p> <p style="padding-left: 40px;">Creating and delivering a combination of products and services necessitates a supply chain that previously concentrated solely on products to pivot its attention towards both products and services [13]. Consequently, with the aid of other</p>

		<p>stakeholders in the supply chain, particularly service partners, it significantly aids in addressing the manufacturer's incapacity in downstream network capabilities, specifically services. Research conducted by Story et al [14] for 19 UK manufacturers indicates that essential capabilities are required, including PSS innovation, customer-centric design, cooperation with service partners, and assistance for service partners. Ultimately, all these crucial capabilities can only be adequately met by providing service partner development and transferring knowledge to them.</p> <p>Several other studies have also confirmed the same findings, emphasizing the importance of knowledge transfer and service partner development, especially to achieve effective alignment between products and services [15–17]. Specifically, it is mentioned that service partner development can be accomplished by providing detailed training related to the products. Additionally, service partners can assist manufacturers in the implementation of services closely linked to understanding customer expectations and market characteristics.</p> <p>There has been limited exploration of a model that combines the supply chain capabilities of manufacturers, and service partners to provide PSS. The supply chain of products focuses on product distribution and product supply chain management, while the supply chain of services is limited to the development of supply chain management focused on services, primarily on the downstream supply chain. This study explores the capabilities needed from both the product and service aspects, an area</p>
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		that has been relatively underexplored until now.
4	The English writing of the paper needs minor improvements	The authors appreciate the advice by the reviewer, minor improvements by checking grammar has been done. Thank you for your comments.
5	How can you guarantee that the validity of this approach? furthermore, in section 3, I suggest bringing a figure in order to show the steps of the research	<p>Revised. We have addressed this now with significant changes in section 3 (Research method) with added figure 1. Step of the research. We hope that with this flowchart, the research steps can be visualized more clearly.</p> <p>Furthermore, to ensure the validity of this approach, we have adopted the instrument development procedure from Lewis, Templeton and Byrd (2005).</p> <p>Reference: B. R. Lewis, G. F. Templeton, and T. A. Byrd, "A methodology for construct development in MIS research," Eur. J. Inf. Syst., Vol. 14, No. 4, (2005), pp. 388–400.</p>
6	The abstract should clearly show the necessity, the problem and its challenges and finding of the research.	<p>Revised. We have addressed this now with revised version of abstract, by showing the necessity, problem and challenges of the research.</p> <p>ABSTRACT Supply chain agility (SCA) has emerged as a significant focus for industries and businesses, serving as a cornerstone for gaining a competitive edge and playing a pivotal role in supply chain management. This importance is further underscored in the context of Product–Service Systems (PSS), which involve the development of both products and services. Despite the existing body of research on SCA and PSS, there has been a notable dearth of empirical studies examining the readiness of PSS SCA. This study makes a substantial contribution by developing a valid and</p>

		<p>reliable framework to assess the readiness of PSS for supply chain agility. The process involves defining domains, generating items, analyzing agreement among raters, testing for response bias, and conducting exploratory and confirmatory factor analyses. Using structural equation modeling, the model's validity and reliability were evaluated through an online survey with 405 participants from official motorcycle service partners. The findings identify six key capability constructs: collaboration, knowledge transfer, service partner development, information sharing, logistic integration, and supply chain agility. This examination of PSS SCA readiness and its constructs provides a validated tool for industry practitioners to enhance their supply chain agility.</p>
7	<p>The managerial insights are not sufficiently profound, then readers cannot obtain useful information from them.</p>	<p>Revised. We have addressed this now with adding sentences in last paragraph in the introduction section and conclusion.</p> <p>Here is the sentence added in introduction:</p> <p>This research could help practitioners understand the factors that influence the company's agility as a network and how to improve agility in its SC, including This involves determining how to prioritize capabilities according to the standard loadings obtained from this study.</p> <p>Here is the sentence added in conclusion:</p> <p>Further, the standard loadings of items related to supply chain capabilities to gauge the importance of each capability in enhancing SCA can also be used by the practitioners to determine the priority based on the resources.</p>
8	<p>Findings, limitations, and recommendations of this paper can be discussed more in the conclusion section</p>	<p>Revised. We have addressed this now with adding sentence in last paragraph in conclusion section to explain more about</p>

		<p>findings, limitations and recommendations.</p> <p>Here is the revised conclusion version:</p> <p>This study has revealed the capabilities required for PSS SC agility readiness. It proposes 29 PSS SCA measurements with six capabilities: collaboration, knowledge transfer, service partner development, information sharing, logistics integration, and supply chain agility. The model is developed based on the capabilities shared among SC networks, including service partners, intermediaries, and manufacturers, to improve supply chain agility readiness. Further, this study contributes to the theory by improving knowledge about the power of capabilities built in the SC network collaboration among stakeholders. Likewise, this study clearly defines each capability construct that contributes to improving supply chain agility readiness. Finally, this study contributes a ready instrument whose item parameters are adequately validated based on DC theory. As a result, the practitioner can utilize the instrument for planning and decision-making, managing and measuring the current capabilities to move forward with improved capabilities. Further, the standard loadings of items related to supply chain capabilities to gauge the importance of each capability in enhancing SCA can also be used by the practitioners to determine the priority based on the resources.</p> <p>Given the knowledge-intensive nature of the motorcycle industry, it's crucial to establish long-time collaboration and transfer of knowledge and service partner development that reflects the capability of the SC to cooperate in delivering PSS. Likewise, information sharing, logistic integration and supply chain agility are the other three capabilities to shape the PSS SCA readiness.</p>
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		<p>Despite contributions having been explained, the instrument measurement in this study has been dedicated to the motorcycle industry in Indonesia. Thus, broader industries and geographical areas may have resulted in different outcomes. Also, the dynamic changing of an environment may affect capabilities over time, which should be looked at in future research using the study's longitudinal approach. To the best of our knowledge, research examining capabilities in the SC network is developing, so only a few studies have focused on developing PSS SC agility readiness capability. Thus, this study provides rigorous theory and validated PSS SC agility readiness instruments.</p>
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Mon, Apr 29, 2024 at 1:38 PM

Dear author

Hello

good day

Dear author, please send the details of the other authors of the article [A-10-2878-1 - \[ART-1929 \]](#) to the International Journal of Industrial Engineering and Production Research as soon as possible.

First name :

Last name:

Country :

Organizational email :

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Degree:

Address:

Many thanks



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Thu, May 2, 2024 at 2:49 PM

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Thank you

Dian Dewi

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