Digital Model for Procurement Management in Thai Supply Chain

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Abstract—An aim of the paper is to study and to assess digital model for procurement management in Thai supply chain. A samples are ten experts in the field of information and supply chain. The data is analysed by means and standardized deviations. The paper consists of seven elements namely main elements Suppliers, Producer, Finished goods and Customers and Satisfaction. The assessment about digital model in supply chain for the cargo maritime transport management in Thailand using Black-Box technique. The research findings revealed that digital model for procurement management in Thai supply chain is appropriate at the high level, the ten experts agreed.

Keywords—Digital model, procurement management, Thai supply chain

1. Introduction
Procurement is important to organizations today. The process of buying goods and services keeps the business going. Businesses use procurement because it saves them money and leads to higher profits. Sourcing also ensures that your business needs are met, helping your business grow. Procurement is becoming increasingly important as companies expand their products and services to meet customer needs. Supply management is the process of controlling processes related to the procurement of goods, services, products, and materials to meet business needs. Companies in various industries rely on supply management to manage their supplier relationships and ensure raw materials are sourced at the optimum cost. This is continuous process control from receipt of raw materials to shipment of finished products. [31] So, A concept about supply chain management digital systems is applied to the procurement system. It will be optional because the business needs to be highly competitive due to increasingly high competition from both within and outside the country. In order to be highly competitive, organizations in the sector need to have personnel with knowledge, ability, and skills who can work efficiently to increase output. The organizations, therefore, need to have sufficient data and resources to increase their values and respond to the demands of their clients. Thus, the supply chain and digital process is a key process to support the organization’s whole activities system from upstream to downstream. It enables the organization to promptly check the information system to ensure that the organization operates smoothly and effectively based on the determined strategies. [2] and [3] Base on the realization, the researcher has decided to investigate and evaluate the digital procurement management model in the Thai supply chain in order to ensure customer satisfaction.

2. Related work
Digital system for procurement management in Thai supply chain
Digital system for procurement management in Thai supply chain has the capacity to alter organizations and encourage the formation of new ones. It is made up of seven components, or primary components. providers, producers, All elements can provide more performance at a lesser price. It lets organizations to save important information in an accessible format and aids in decision-making for operations and planning. Software and network technology adoption and successful deployment play a significant role in the success of the supply chain by enabling information flow and increasing the effectiveness of supply chain activities.[30]

3. Research Methodology
3.1 Investigates a digital model for procurement management in the Thai supply chain.
3.2 Develop a digital model for procurement management in the Thai supply chain
3.3 Identification of ten experts for evaluation of a digital model for procurement management in Thai supply chain for improving

3.4. Make a questionnaire to evaluate the model’s suitability.

3.5 Present digital model for procurement management in the Thai supply chain to the ten experts consisted of five experts on supply chain, five experts on digital.

3.6 Analyze the results of evaluation digital model for procurement management in Thai supply chain by mean and standard deviation consisting of 5 criteria for evaluation according to the idea of Likert scale.

4. Research results

Research results about digital model for procurement management in Thai supply chain are shown in figure 1.

**Figure 1**: Digital model for procurement management in Thai supply chain

1. Suppliers

Suppliers refer to Raw material, The parts, Component, Capital, Labour, Management, Machinery to the producer. They can record in the computer system.

2. Producer

Producer means a company, factory, or other private organization. It fulfills its duty to transform raw materials and incoming sticks into finished products. Service Providers fulfill their obligations to perform material and performance evaluations for each activity, including quotations/requests for quotation (RFQs), negotiations, and contract execution. 4) Pre-distribution, on-site inspection, post-delivery inspection, post-delivery inspection.

3. Finished goods

Finished goods refer to the products received by the customer.

4. Distributor

Distribution includes the steps taken to move and stock products from the supplier tier to the customer tier in the supply chain

5. Customers

Customer means the end-of-process component of the model. They include society. Ultimately, the final product adds value to the supply he chain.

6. Satisfaction

Satisfaction means information from surveys. [1], [2], [3], [4], [5], [6], [8] and [31]

<table>
<thead>
<tr>
<th>No</th>
<th>Evaluation Lists</th>
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<th>S.D.</th>
<th>Suitability</th>
</tr>
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<tr>
<td>1</td>
<td>Main elements</td>
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<td>1.17</td>
<td>High</td>
</tr>
<tr>
<td>2</td>
<td>Suppliers</td>
<td>3.64</td>
<td>1.18</td>
<td>High</td>
</tr>
<tr>
<td>3</td>
<td>Producer</td>
<td>3.70</td>
<td>0.82</td>
<td>High</td>
</tr>
<tr>
<td>4</td>
<td>Finished goods</td>
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<tr>
<td>5</td>
<td>Distributor</td>
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<td>0.84</td>
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</tr>
<tr>
<td>6</td>
<td>Customers</td>
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<td>0.82</td>
<td>High</td>
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<tr>
<td>7</td>
<td>Satisfaction</td>
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<td>3.65</td>
<td>0.94</td>
<td>High</td>
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</table>

From the table 1, The experts found that digital model for procurement management in Thai supply chain is highly appropriate ($\bar{X} = 3.65, S.D. = 0.9$).

5. Conclusion

Digital model for procurement management in Thai supply chain is appropriate at the high level development. The rating mean of 3.65 and standard deviation of 0.94, which means that the model is appropriate at the high level. The model could be applied in support the tasks.

6. Discussion

Digital model for procurement management in Thai supply chain is considered to be high appropriate ($\bar{X} = 3.65, S.D. = 0.94$, and the design was corresponds to the research of Chansamut and Piriyasurawong has studied supply chain and information system about educational [1] In addition, with the study of Chansamut suggesting that technology in supply chain. [2],[3],[4],[5],[6],[7],[8],[9],[10],[11],[12],[13],[14],[15],[16],[17],[18],[19],[20],[21],[22],[23],[24],[25],[26],[27],[28],[29].

7. Recommendation

Digital model for procurement management in Thai supply chain is considered to be high appropriate if possible it should be case studies of an organization that implement the model and efficiently.

Reference


[2] Chansamut, A. Supply Chain operation Model in Digital for Curriculum Management Based on Thailand


[31] Tiwari, T.C.2022 Procurement and supply Chain management – The perfect joint at the perfect time.