

Digital System Model for Asset Management in the Universities in Thai Supply Chain

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Abstract— The article was conducted to develop and to evaluate digital system model for asset management in the universities in Thai supply chain. A samples group in the research study consisted of ten experts consisted of five experts on supply chain management, five experts on digital, Data were analysed by arithmetic mean and standard deviation. The article findings model six elements namely main components, Suppliers, Universities, customers, satisfaction, feedback. The assessment digital system model for asset management in the universities in Thai supply chain using Black-Box technique and The results from experts agreement digital system model for asset management in the universities in Thai supply chain was a high level. The model could be appropriately applied in actual work settings.

Keywords— *Digital System Model, Assets Management, Universities, Thai Supply Chain*

1. Introduction

Nowadays, university assets are of great importance and value, especially in Thailand's supply chain industry. After all, wealth is not only valuable, it also contributes to the accumulation of wealth in college. Wealth is a source of income. They are very important for supply chain equipment and are core business pillars. Therefore, universities must keep their assets in good standing. Understanding the lifespan of an asset is critical to keeping it in good condition. An asset is a series of events that occur, divided into various phases. Assets start with planning and acquisition. [7] thus, The concept of supply chain and digital system are importance because the business and industrial sector needs to be highly competitive due to increasingly high competitions 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 and

assets. The universities, therefore, need to have sufficient information and resources to increase their values and respond to the demand of their customer. Thus, the supply chain process is the key process to support the universities' 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.[1] Based on realization, researcher has decided develop and evaluate digital system model for asset management in the universities in Thai supply chain for application to increase satisfaction for consumers.

2. Related work

Asset management is a systematic approach to managing and realizing value from what a group or entity is responsible for throughout its lifecycle. Applicable to both tangible and intangible assets. Supply chain asset management information systems have the potential to transform organizations and facilitate the emergence of new businesses. Their main goal is to improve information flow and facilitate the decision-making process. Information management systems are one of the few elements of the supply chain that can provide both improved performance and reduced costs. It enables companies to manage critical information in an accessible format to help them make operational and planning decisions. Successful adoption and implementation of software and network technologies contribute significantly to supply chain success by facilitating the flow of information and improving the efficiency of supply chain activities. Logistics activities are key activities in the supply chain and include flow planning, design, implementation and management, storage, etc.

Exchange of materials and information to support basic logistics functions such as procurement, distribution, transportation, inventory management,

packaging and manufacturing. Information technology is an organizational resource, a source of competitive advantage, and a catalyst for organizational change. [8]

An information system for asset management in the supply chain is the goal of every organization. Supply chains and information help companies improve efficiency and reduce organizational costs. By maintaining a reliable supply chain and information, you can add or retain high-value customers and suppliers. The organization undertakes this with the aim of enhancing consumer satisfaction.

3. Research Methodology

3.1 Study the article about an digital system model for asset management in the universities in thai supply chain.

3.2. To design an digital system model for asset management in the universities in thai supply chain.

3.3 Present an digital system model for asset management in the universities in thai supply chain to the experts.

3.4. Create the evaluation tools for evaluate the model's suitability.

3.5 Present the designed pattern to the ten experts consisted of five experts on supply chain management, 5 experts on technology digital.

3.6 Digital system model for asset management in the universities in thai supply chain is modified according to the experts' suggestions.

3.7 Analyze the results of evaluation of the pattern by mean and standard deviation consisting of 5 criteria for evaluation according to the idea of Likert scale.

4. Results

Results about digital system model for asset management in the universities in thai supply chain are shown in Figure 1.

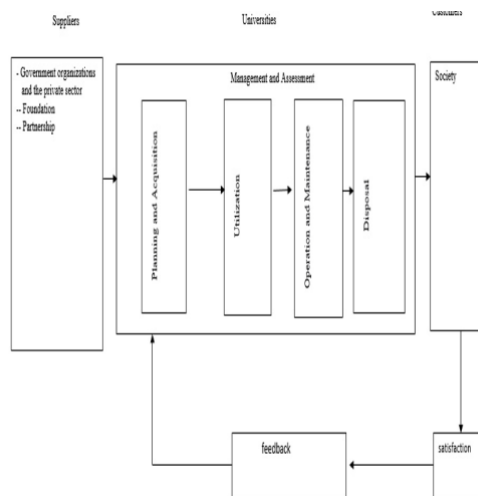


Figure 1: Digital system model for asset management in the universities in thai supply chain

1. Suppliers

Suppliers mean the Government organizations and the private sector, Foundation ,Partnership or assets who receive special quotas or source . They can apply can process and store the data.

2. Universities

Universities means manufacturer. The manufacturer will perform its duty of asset management and evaluation.as follow:

2.1. Planning & Acquisition

First, the need for assets is determined. Requirements planning is performed to accurately understand assets. How many assets do you need if you want to get the job done fast! These types of questions are identified during the planning stage.

Then asset acquisition occurs. This is the early stage of the asset life cycle. At this stage, an attempt is made to purchase the asset at the lowest price, and the purchasing department conducts negotiations.

2.2. Utilization

At this stage, the asset utilization potential is fully exploited. Manufacturing activities are performed, assets require maintenance over time, lose value, and depreciation is used for tax benefits.

2.3. Operation and Maintenance

During this phase, assets are regularly functioning, require maintenance, and have issues fixed. Maintenance activities are performed to improve performance. We also conduct operations aimed at improving plant performance.

If maintenance is not performed on time, it can lead to poor plant performance and increased maintenance costs. Maintenance is performed regularly for the life of the product.

2.4. Disposal or Renewal

When the asset's useful life expires, the asset is disposed of. Executed when an asset's expected useful life ends. This is the final stage of the asset lifecycle. During this phase, equipment cannot be repaired and equipment failures occur continuously, but productivity suffers. However, if the machine is still functioning effectively past its expected life, the asset can be used until it functions effectively. Therefore, you should pay attention to your assets as they can affect your productivity and education business.

3. Customers

Customers are consumers of welfare society assets. Ultimately, supply chain assets add value

5.Satisfaction
Satisfaction refer to evaluate the satisfaction in the services with the customers.

6. Feedback

Feedback is the data obtained from satisfaction analysis. [1],[2],[3],[4],[5],[6],[7]

Table 1: Results for evaluation digital system model for asset management in the universities in Thai supply chain

No	Evaluation Lists	\bar{X}	S.D.	Suitability
1	Main elements	3.68	0.56	High
2	Suppliers	3.63	0.66	High
3	Universities	3.72	0.64	High
4	Customers	3.72	0.46	High
5	Satisfaction	3.72	0.64	High
6	Feedback	3.63	0.67	High
	Total	3.68	0.61	High

Table 1, Experts agreement of digital system model for asset management in the universities in thai supply chain is highly appropriate ($\bar{X} = 3.68$, S.D. = 0.61).

5. Conclusion

Digital system model for asset management in the universities in thai supply chain at the high level The rating mean of 3.68 and standard deviation of 0.61 . The model could be appropriately applied in actual work settings.

6. Discussion

Digital system model for asset management in the universities in thai supply chain is considered to be high appropriate ($\bar{X} = 3.68$, S.D. = 0.61), 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 supply chain and information system also. [2],[3],[4],[5],[6]

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