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Analysis of the Impact of Government Information Operation on Emergency Management Information System Application

Yumei Chen^{a*}, Yuming Lin^b

^{a,b}*School of Management, Jinan University, Guangzhou, 510632, P.R.China*

Abstract

This study used qualitative and quantitative validation to explore a combination of research methods. Using correlation analysis, principal component analysis and hierarchical multiple regression analysis of the 293 samples were analyzed for government departments within Emergency Management Information System (EMIS) applications, five-impact factor model analysis is conducted including Management factors within the organization, the supplier of the product technology standard, the external technical environment factors and the information technology sector to support service capabilities of government departments within EMIS applications have a significant impact.

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Keywords: Emergency Management Information Sysytem; Information System; Government Information Operation

1. Introduction

With the global political and economic integration, government management and service functions become more electronic, automation, and paperless. Emergency Management Information System (EMIS) is rapidly developed in a number of countries especially in developed countries. Using the Internet technology to improve government organization; reorganizing the public process and management; changing management functions of government agencies; improving work quality and efficiency; had a

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E-mail address: kate970911@gmail.com.

profound impact in establishing an efficient, well-coordinated, and standardized administrative system [1]. EMIS plays an important role in promoting national government reform, improving government efficiency, enhancing the effectiveness of the role of government work.

2. Literature Review

Dependent variable of this study, "EMIS success" index system is a measure of DeLone and MeLena information systems based on the successful model to determine the evaluation system used to measure six dimensions: system quality, information quality, personal influence, organizational the impact of user satisfaction and system usage, etc., and relative to the general information system has its unique composition of the description.

This study first in order to implement the impact factors for ERP-based, coupled with the sector-specific patterns and other factors applicable to adjustments proposed by the government sector-specific factors, to form the hypothesis of this study. If these elements with the common law, then the Chinese management style, management system have determined that we will have some special "element" [2]

ERP implementation in the study were, Holland [3] believes that the successful implementation of ERP require enterprises to process-oriented, and all departments must follow the same, unified processes, ERP's real benefits can only be obtained from the organizational change. Therefore, the implementation of the ERP is a business project (business project), rather than the technical project (technology project). Holland ERP system implementation critical success factors include strategic factors and tactical factors at two levels, the former also includes senior management support, the development of the will (business vision), the project timetable (project schedule), "remains" system (legacy system) , ERP implementation strategy; the latter, including user participation (client consultation), staff (personnel), user acceptance (client acceptance), monitoring and feedback, communication, questions (trouble shooting), ERP, and software configuration (configuration). Estsve [4] that, ERP project failure rate is high, mainly due to the project manager is usually too concerned about the technical and financial issues, while ignoring the non-technical issues (non-technical issues). Therefore, Estsve from four dimensions to describe the ERP system implementation of the impact factors: strategic, tactical, organizational and technical.



Fig. 1. Impact Model of Government Information Operation to EMIS

Business-critical success factors in the study were the theory, because the basic characteristics of different companies to key success factors will affect the importance of cognitive [5,6], so when "internal end-users," that is, each the basic characteristics of government departments are not at the same time, it

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