

"10 ปี adiCET กับการพัฒนาพลังงานเพื่อท้องถิ่น"

A Model of Community Data System Management Process by Digital Community Center and Citizen Involvement



Eakkarath Panyathp¹ , Nuttiya Tantranont¹ , Orasa Tetiwat² and Hathaithip Sintuya¹

¹Chiang Mai Rajabhat University and ²Naresuan University

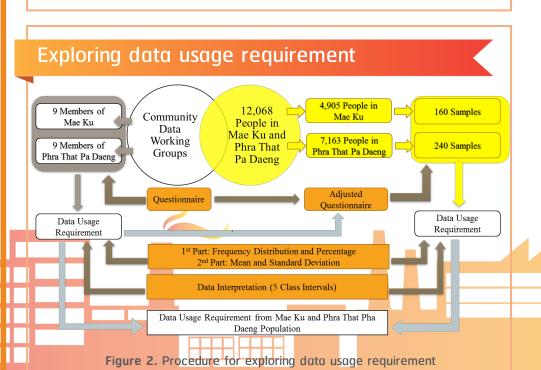
Key Findings

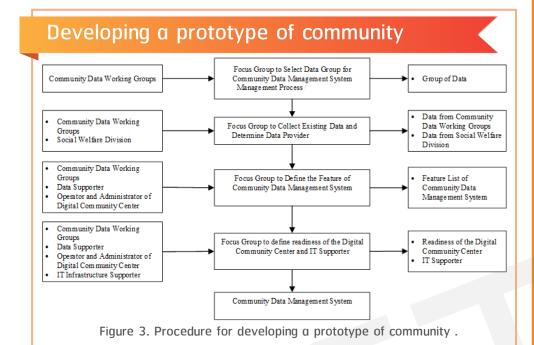
- 1. Community data usage requirement.
- 2. Community data management systems.
- 3. Community data system management process.

Introduction

This research was conducted according to the environmental issues in Mae Tao Basin area. The study aimed to encourage community citizen in the study area to use data to solve problems and develop their communities. The objectives of this research were: to study community data usage requirement, to develop a prototype of community data management system, and to establish a structure of community data management system with the digital community center and people involvement.

Research framework Evaluation Community Data Working Group <u>Community Citizen</u> Community Data Usage Requiremen Served for Defining Used for Features of Community Data General Community Data Problem-related Data Data Community-related Research Community Specification and Requirement Management System for IT Infrastructure Requirement Community Data from Local Government Account and Role Community Data Service of Local Used for define Data Collection Life Cycle Data Type Defining a Model of Community Related People Data System Management Process ITIL Lite Digital Community Center ervice Operation Concept General Operation Process A Draft Model SWOT Operation Reviewed Used for Reviewe **Community Data** Community Data Working Group System Management **Process Model** Experts Figure 1. Conceptual research framework





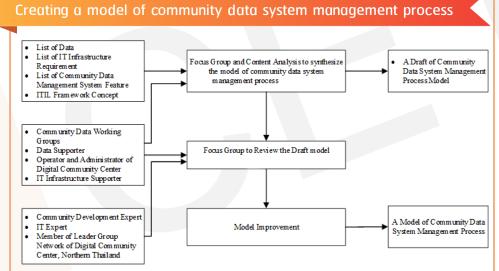


Figure 4. Procedure for create a model of community data system management process by digital community center and citizen involvement

Results and Conclusion

Community data usage requirement included 8 essential items and 6 additional data required by the community. The prototype of community data management system was divided into two web-based subsystems developed using the MVC architecture shown in Figure 5(a). A research survey was conducted to evaluate the system. Results showed that users were satisfied with the overall system at a high level. Community data system management process shown in Figure 5(b) consisted of 7 components: community data working group, the operator and the manager of the Digital Community Center, providers, community data, process, IT infrastructure, and facilitators.

