

# Business Process Information Systems Work Program On BP-PAUDNI In Indonesia

Bahar, Taufiq

**Abstract:** Scope of area very large, the use of conventional media socialization and communication that has limited range of space and time, such as: brochures, newsletters, magazines, newspapers, books, radio and television, as well as visit the seminar directly to the location of stakeholders, business process management information which has not been well established, as well as the data management system not well ordered, causing Non-Formal and Informal Early Childhood Education Development Center (BP-PAUDNI) not properly socialized, a partnership is not carried out effectively, especially to stakeholders located in urban areas outside, behind the communication process (response) is not subjected to ineffective, and are not available centralized data bank that provides comprehensive information related to the activities of BP-PAUDNI that can be easily accessed by the general public and stakeholders related. This paper describes a model of Business Process Management Implementation Work Program Development Model Non-Formal and Informal Early Childhood Education (PAUDNI), as a foundation for building Web-based information system that is supported by Communication Network Technology.

**Index Terms:** Early Childhood Education, Information System, Web-Based, Integrated System, Business Processes, Work Program, Model

## 1 INTRODUCTION

Directorate General for Early Childhood Education Non-Formal and Informal (PAUDNI) has established policies and perogram development of early childhood education, non-formal and informal education which includes cultivated fields and widespread target. Based on Presidential Regulation of the Republic of Indonesia Number: No. 67 of 2010 on the position, duties, and functions of the Ministry of State, as well as the organizational structure, duties, and functions of the Ministry of Echelon I of State, Directorate PAUDNI establish policies and programs in Early Childhood Education, Community Education, courses and Training, Education and Education Personnel PAUDNI, and program assessment, development and education quality control. One of the tasks of the Directorate General PAUDNI is improving institutional capacity at the local level through improved Information Management System, in order PAUDNI institutions capable of providing excellent service to all citizens and ensuring certainty and continuity. Center for Development of Non Formal and Informal Education (BP-PAUDNI) serves as a facilitator of resource development in the field of non-formal education and informal at the discretion of the Ministry of National Education. Some of the main tasks performed by the BP-PAUDNI are: reviewing the early implementers, program development, facilitate resource development and the developer's and the management of information systems in the field of non-formal and informal education that is based on self-reliance, excellence, cooperation and wisdom local.

From the results of the initial studies that have been formulated together in late 2012 in the city Banjarbaru between the BP-PNFI Management / Regional IV BP-PAUDNI Banjarbaru (as an organizer), education experts, and academics / campus, which is discussed at the Focus Group Discussion (FGD) in preparation for Development and Cooperation Model Information Effective inter BP-PAUDNI Regional IV Banjarbaru with Stakeholders, produced an initial conclusion, namely: with a very wide area coverage, Program Work BP-PAUDNI not properly socialized with current conditions, as well as the partnership is not carried out effectively, especially to stakeholders who are outside the provincial capital, because it uses only conventional medium of socialization that has limited range of space and time, such as: brochures, newsletters, magazines, newspapers, books, radio and television, as well as visit the seminar directly to the location of stakeholders. With these conditions also cause behind the communication process (response) until the target is not effective, but it needs two-way communication model to realize the work program BP-PAUDNI effective. Coordination with relevant agencies (especially against similar institutions) as well as the work program has not been well-established as a result of the information management business model that has not been well established. Data management is not good because there is currently using the technology Database Application System, so it is not available centralized data bank that can provide comprehensive information related to the activities of BP-PAUDNI that can be easily accessed by the general public and relevant stakeholders. According Hasbullah and Erik Haritman [1], the vast Indonesian region to the remote areas, with diverse geographical conditions and facilities inprastructured conventional communication media such as brochures, newsletters, magazines, newspapers, radio broadcasting, disk files that are sent manual, which is not conducive to the exchange of information in real time, causing the process of delivering information in the context of the work program or learning socialization to the public / community goals to be slow and uneven. Behind communication response also becomes slow, even to not occur. Currently inprastructure communication technology enables a wide variety of communication can be mediated, and communication is increasingly becoming part of the learning and education. Various media communications

- *Department of Informatics Engineering in STMIK Banjarbaru, Indonesia, PH-05114782881.  
E-mail: [baharahman@gmail.com](mailto:baharahman@gmail.com)*
- *Department of Informatics Engineering in STMIK Banjarbaru, Indoneaia, PH-05114782881.  
E-mail: [pa\\_tauw@yahoo.com](mailto:pa_tauw@yahoo.com)*

network in the learning environment has been developed for educational purposes. Global communication networks and the use of computers for intellectual communication will further enhance and expand how people connect, communicate, and build a community [2] [3] [4]. Learners can access the virtual classroom, on-line collaboration groups, and on-line library study room or anywhere else. Participants learn in a global network engaged in collaborative learning projects with colleagues from other areas without any limitation of space and time, share ideas and resources, access information and files in current events, and interact with experts [5]. e-mails Technology on the Internet network providing communication services are very efficient and spontaneous, compared with printed forms of communication that are less structured and less spontaneous. Web technology is one tool that serves to internet media communication forums, displays, introduce-the, and can serve as a medium of information seekers who are needed [6]. Web-based Information Systems offers one of the added value that cannot be obtained by other means. This communication medium offers almost unlimited use of the information in the form of text, images and video illustrations procedures, clinical and biological phenomena in a way that is cost-effective [7]. In addition, options for interactivity with databases or human resources more freely without being restricted by time and place, is a unique feature of the Web technology [8]. Discussion forums via email, video conferencing, and video streaming are models of communication via the web. Web-based programs can also provide static pages such as printed course materials. One of the advantages of using the web to access information is that the web page may contain hyperlinks to the web, allowing access to a large number of web-based information [9]. Research on the use of the web as a medium for effective communication in the delivery and exchange of information, presented in the final section of this literature review: Edhy Sutanta and Khabib Mustafa in the research, entitled The Need for Web Service Data Synchronization Between Information Systems, concluded that the model of a web service an implementation of the concept of interoperability that can be an alternative solution to the process of exchanging data between information systems in organizations. With the ability to process data exchange between information systems, it is possible to synchronize data between information systems [6]. Noraini Che Pa, Rozi Nor and Nor Haizan Yusmadi Well Jusoh in the research entitled A Study on Knowledge Dissemination of Web-based Application Hospital concluded that the sharing of knowledge and knowledge is very important collaboration and can be implemented in a web-based application. Its implementation should be considered by any organization that involves the community. The advent of web technology as a medium to share knowledge and collaborative knowledge effectively, hinted to the organization to be more responsive to changes in technology that can improve public services and the competence of their staff [10]. Submission of information online has its advantages, but a web-based system should not necessarily be seen as a method of choice due to barriers such as instructured inadequate communication networks [11]. Thus, it would require in-depth study on various aspects of web-based information systems before actually implemented.

## 2 Research Methods

### 2.1 Research Location

The research was conducted at multiple institutions / agencies related to BP-PAUDNI IV Regional Kalimantan. Agencies / institutions are: BP-PAUDNI Kalimantan Regional Corridor IV in Banjarbaru ; BPKB-PNFI at the provincial level (3 of 4 offices in the sample), SKB and DINAS PENDIDIKAN at the district / city (20% District / City Regional IV in Borneo )

### 2.2 Data Collection Method

Method used in the process of collecting data and information on the research, namely:

1. unstructured interview the head of BP-PAUDNI, reg-PNFI Chief, Chief LCS, and the Head of Education City / County or authorized staff, to know and understand the work programs associated with the development and implementation / testing models PAUDNI , as well as the implementing mechanism-ness. Likewise, the coordination mechanisms among stakeholders in implementing the work programs.
2. unstructured interviews and literature / documents to the staff of data processing and information related institutions, to know the data and information necessary to create and related programs organized labor, the recording mechanism of the process, as well as media communications network used in the process.

### 2.3 Problem Analysis

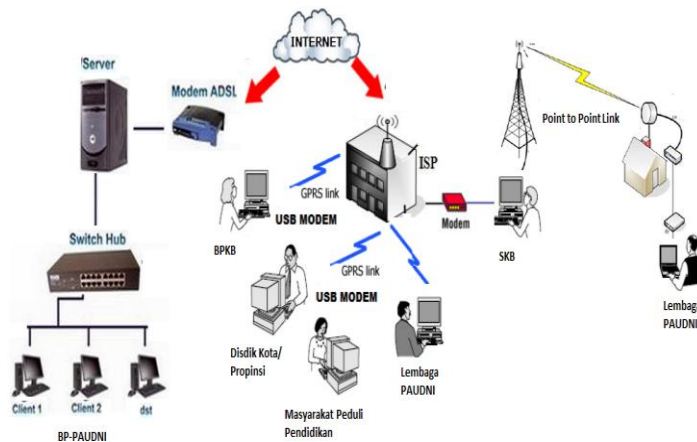
Based on the study results of each agency function related to PAUDNI, as well as the implementation mechanism of the work program and the coordination mechanisms of each agency, can describe some of the problems that occur in management, namely:

- 1 There is some overlap of roles, namely the role of which is owned by BP-PAUDNI and BPKB-PNFI, except for the role (mapping quality) owned by BP-PAUDNI not owned by BPKB-PNFI. Behind the similarity of certain roles / functions held both institutions, there is no coordination between the two agencies in carrying out the work program of each (except on the condition of the funding source BPKB-PNFI work program derived from BP-PAUDNI). Thus, the possibility for the emergence of large programs of work that repeated, especially if the work program in the form of assessment models PAUDNI particular, due to the results of program activities were / are stored and managed in their respective institutions.
- 2 Function Supervision and Monitoring and Evaluation programs PAUDNI models (especially in terms of quality mapping) is carried out by BP-PAUDNI not effective, because only PAUDNI activities programs organized by the reg / SKB is the source of its funding comes from the BP-PAUDNI only which can be supervised and monitored and evaluated by the BP-PAUDNI directly, whereas programs that doing right activities by these institutions (especially PAUDNI programs organized directly by the institutions social forces under the supervision of the Department of Education City / County) with the source of funding does not come from BP-PAUDNI cannot be monitored directly, either by BP-PAUDNI or by BPKB-PNFI as the model development agencies.
- 3 Because each organization does not coordinate with each other (except in a few things that have been described) in





The contents of the main menus on Information Systems Applications *BP-PAUDNI* Work Programme (figure 1) are: Menu announcement will contain information about the cooperation programs offered by *BP-PAUDNI* to stakeholders, information on the status of the proposals, submitted by stakeholders, as well as other information related to the program of cooperation. Login menus is used by stakeholders to be able to submit proposals for work programs are offered through the appropriate permissions Login menus each stakeholder. Login menus can also be used by stakeholders to access contracts and collaborative activities, follow the stages of cooperation activities, to send reports or documents relating to the implementation of collaborative activities, and sends the results of the activities that can be published to the general public. For *Disdik*, login menus is used to perform validation and monitoring of the activities organized by the *BPKB/SKB*. Menu Prgram (*Dikmas, Kursus, Paud*) is used by the General User to see concepts or profile *Dikmas* programs, *Kursus*, and *Paud*. Download menu used by General Users to get the file 's Guide and Technical Guidelines for the implementation of activities *PAUDNI*. Menu News contains information about the activities that are being or will be held by the *BP-PAUDNI* Stakeholder . Forum menu is used by all stakeholders to submit responses to the programs that will work or has been held. Integrated system model that will be operations tested as shown in figure 2.



**Figure 2** Architecture of Integrated Web-Based Information Systems Model

Prototype Web-based System Application Server is installed on *BP-PAUDNI* regional office that acts as a System Administrator. The server acts as a centralized data bank to record all the processes that occur within an integrated system. This server is connected to all *BP-PAUDNI* stakeholders through the Internet. All stakeholders connected to the system with intermediate Internet Service Provider/ISP, while not affordable Stakeholders public network services connected to the system via a network point-to-point system.

#### 4 CONCLUSION

Based on the results of the field study, it can be concluded that there is no synchronization of the work programs of the institutions associated with the development of the program as a result of not using the Model *PAUDNI* Website Technology and Data Communication Networks. This has resulted in ineffective programs *PAUDNI* model development by *BP-*

*PAUDNI*. Use of Website Systems and Data Communication Network Technology will integrate *PAUDNI* work programs, resulting in synchronization and effectiveness of work programs *PAUDNI* model development. It will also make it easier for *BP-PAUDNI* and *BPKB-PNFI* to get a response back from the target communities *PAUDNI*.

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