



**Badan Pusat Statistik
Statistics Indonesia**

Implementation of Information Technology for Statistical Activities in BPS – Statistics Indonesia

**Presented by
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Introduction (1)

- ◆ BPS' activities should aim to provide complete, accurate, and current statistical data in order to support national development (Statistical Law – 1997)
- ◆ BPS realizes that the support of Information and Communication Technology (ICT) is very important and strategic. Combined with the zero growth of the government officials, lack of human resources, and the geographical nature of Indonesia, appropriate ICT applications will achieve an efficient statistical undertaking

Introduction (2)

- ◆ ICT should support statistical activities in all forms : planning, data enumeration, data processing, data analysis, and data dissemination
- ◆ The ICT facilities should be reasonably current and advanced in order to meet the outlined challenges and aim
- ◆ The human resources in the field of ICT should also be given appropriate training in using and developing the needed applications and infrastructures
- ◆ A carrier path in the form of IT specialists has also been developed along with the necessary trainings in order to entice and motivates BPS' IT staff

Condition

- ◆ ICT development at BPS still focus on strengthening data processing and dissemination
- ◆ ICT implementation in data collection (field enumeration) is still less developed due to the community condition
- ◆ Data collection mainly use interview approach using hardcopy form (questionnaire)
- ◆ Only in particular condition ICT has been used : (1) using telephone line to clarify data given by the respondent, (2) using SMS for real-time data-price, (3) data electronic transformation for export-import raw data

Main Focuses

- ◆ Infrastructure and Capacity Development
- ◆ Internal Managerial Information System Application Development
- ◆ Integration of Statistical Data Processing System
- ◆ Data Dissemination Development
- ◆ IT Human Resource Development

Overview of ICT Development Plan (1)

◆ Infrastructure and Capacity Development

- Providing the necessary infrastructure in which the data can be transferred quickly from the field to data processing centers
- Flow of statistical information to the users, such as other government branches and private sectors should also be given emphasis, because of rising demands

◆ Internal Managerial Information System Application Development

- BPS should have a form of Managerial Information System application to internally support every phase of statistical activities
- The much-needed application should be tailored to meet the internal business processes and rules as outlined by the government

Overview of ICT Development Plan (2)

- ◆ Integration of Statistical Data Processing System
 - Statistical data processing are not handled within a single organizational unit, they are handled by subject matter units with coordination handled by Unit of Statistical Information System
 - Decentralized data processing approach also presents complexity in the form of disparate data processing methodologies, which will affect the integration of the statistical data within a single statistical data warehouse
 - BPS should have a strong policy in statistical data processing integration involving methodologies, storage, and access of data within BPS

Overview of ICT Development Plan (3)

◆ Data Dissemination Development

- There are greater accessibilities of information with an explosion of media used to disseminate information ranging from the Internet to CD-ROM
- Also, there are rapid growth of inter-institution electronic business
- It is necessary for BPS to have an efficient and effective method to disseminate statistical data

Overview of ICT Development Plan (4)

- ◆ IT Human Resource Development
 - Human resource is crucial in supporting the IT development within BPS
 - Series of training is needed in order to develop appropriate and efficient ICT applications within BPS organizational structure
 - Clear career path is also necessary for IT specialists in order to give them the much needed motivation and room for innovations

Overview of Activities (1)

- ◆ Infrastructure and Capacity Development, 2005 - 2009
 - Greater bandwidth and network services within BPS offices for statistical data processing services
 - Better connectivity through private network linking BPS offices throughout Indonesia
 - Replacing outdated hardware and software procured before the year of 2009
 - Keeping up with the demand of statistical information from other government institution in Indonesia and abroad, and private sectors.

Overview of Activities (2)

- ◆ Infrastructure and Capacity Development ... (Cont.)
 - Meeting the security challenges with up-to-date policies and equipment. Security challenges grows with each step of technological advances
 - Supporting licensed software policy within BPS by gearing development using Open Source products where necessary

Overview of Activities (3)

◆ Internal Managerial Information System Application Development

The bulk of Managerial Information System Application Development will be enhanced. The development will provide BPS with:

- Series of application for managing human resources, supplies, finance, and other processes similarly available in enterprise resource planning software. The resulted applications will be used internally to manage the statistical business process done by BPS
- Updated applications as dictates by newer government rules and regulations replacing outdated applications used by BPS

Overview of Activities (4)

◆ Integration of Statistical Data Processing System

The development will be conducted throughout the five-year period of 2005 – 2009. The development will be focused on the followings:

- Development of Statistical Data warehouse, and data mining applications
- Development of unified statistical data processing policies supporting the distributed data processing methods in use by BPS
- Data capture technologies for 2010 Population Census. Various studies will be conducted in the application of such technologies in the upcoming Population Census

Overview of Activities (5)

◆ Data Dissemination Development

The development will be conducted throughout the five-year period of 2005 – 2009. The development will be focused on the followings:

- Development of electronic publication as a complement of printed publication
- Enhancement of website features and contents
- Extension of dissemination facilities with the ability to customize information, such as search, access, and presentation tools

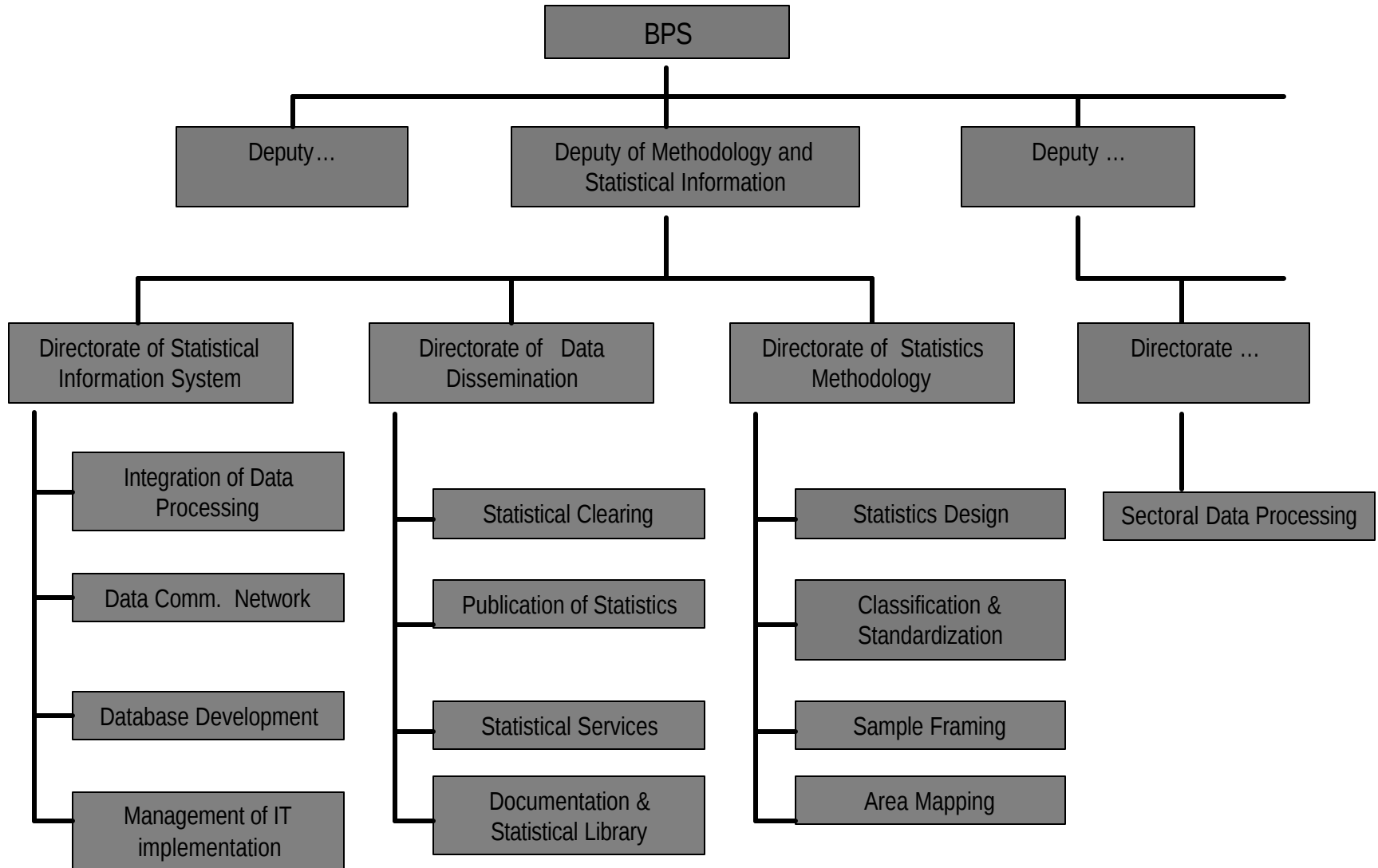
Overview of Activities (6)

◆ IT Human Resource Development

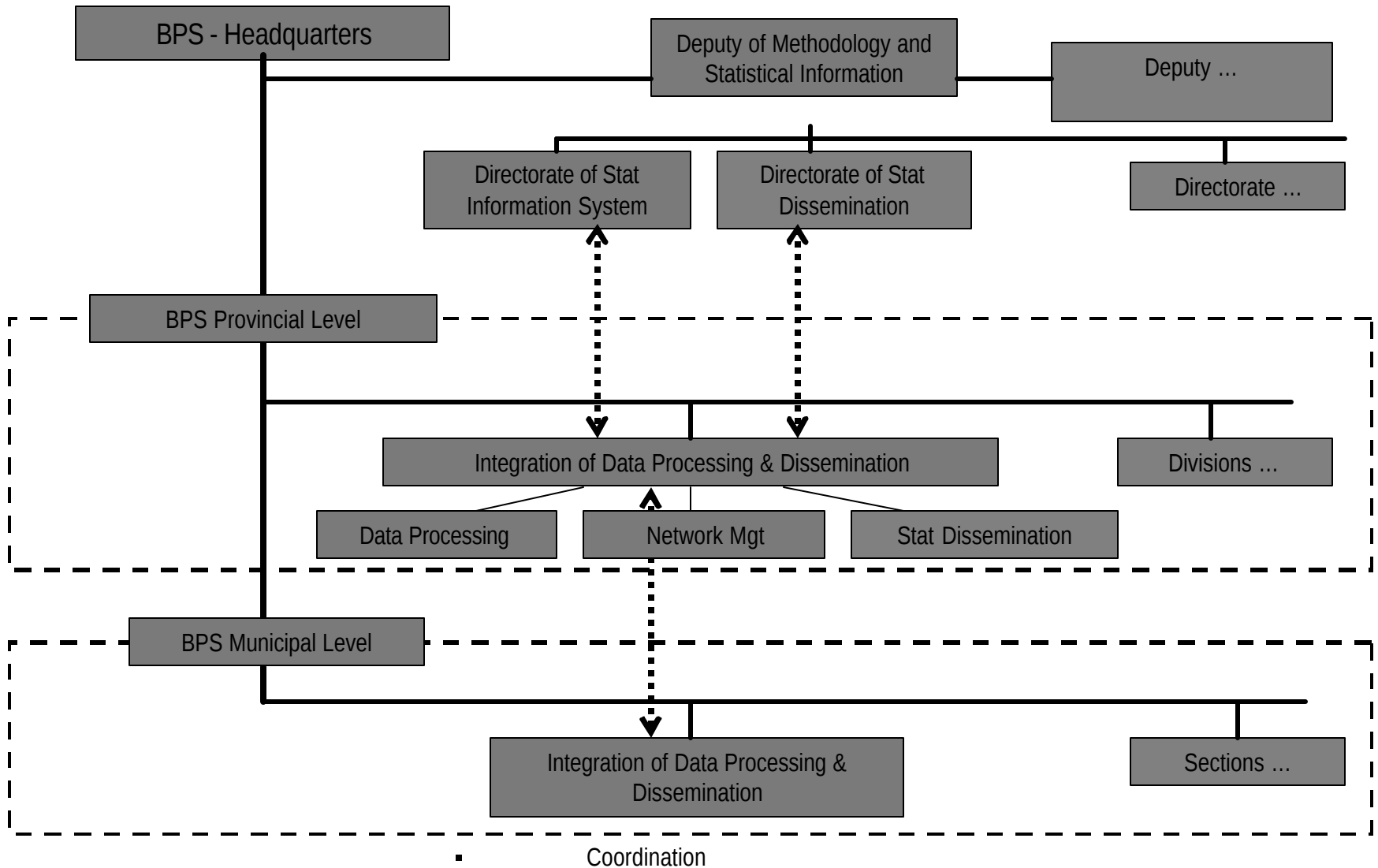
IT Human Resource Development will be conducted regularly within the five-year period of 2005 – 2009. The development will be focused on the following:

- Providing BPS with skilled, knowledgeable, and motivated IT personnel necessary for continual support of IT development within BPS
- Providing IT personnel with access to advances in the ICT arena to be applied in BPS

I.T Organization (Headquarters)



I.T Organization (Regional Offices)



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