



Division of Sexually Transmitted Disease Prevention

Business Process Management Modeling Initiative

SUB TASK 3

Update to Deliverables 3A, 3B

> Contract GS-10F-0087N



February 29, 2004



Executive Summary

The following document outlines the Business Process Management Model for Sexually Transmitted Disease Prevention at State and Local Health Departments, as identified by representatives from the Division of Sexually Transmitted Disease Prevention, State and Local Health Departments, and external partners. The initiative Steering Committee should continue to vet these documents with State and Local Health Departments, along with DSTDP staff, to ensure that identified functions, relationships, and definitions are accurate and reflect the work of the State and Local Health Departments.

The document examines the three Mega Processes that define STD Prevention within the State and local Health Departments: Data Processing, Intervention, and Program Development. It then breaks these Mega Processes into their respective Major Processes and associates them with the appropriate functional definitions, inputs and outputs, and the key activities.

This model will be used to drive the development of common, but flexible, future state STD Prevention processes that State and Local Health Departments can adopt to promote improved pubic health. In addition, this model will inform the development of the STD Program Area Module (STD PAM), a technology application that is part of the National Electronic Disease Surveillance System (NEDSS) initiative.





Background

The Division of Sexually Transmitted Disease Prevention (DSTDP) at the Centers for Disease Control and Prevention (CDC) seeks to develop a business process model for STD Prevention at State and Local Health Departments.

As of January 2004, Sub Tasks 1, 2, and 3 are complete. This document represents the Sub-task 3 deliverables:

• Deliverable 3a: Detailed documentation providing an annotated overview of STD Prevention public health practice activities.

• Deliverable 3b: Listing of STD Prevention business functions along with specific definitions and contextual documentation linking each to the appropriate objective(s) identified in Sub-Task 2.





Method

Interviews

The team conducted over 30 interviews and conducted two site visits with representatives from the DSTDP, State and Local STD Prevention programs, the Association of Public Health Labs, and Johns Hopkins School of Medicine. Those interviewed were asked to describe their current STD Prevention activities and how their organization uses technology and data.

Straw models

The team crafted a mega and major-level business process management model (BPMM), or a taxonomy, for STD Prevention activities, based on the input received from stakeholders. This BPMM, along with explanatory materials, was circulated to many of the participants for input. The model sparked discussions with stakeholders, which provided the team with further learning about STD Prevention activities; this feedback was incorporated into the materials.

Facilitated Session

On December 15th, 32 stakeholders gathered at the Westin in North Perimeter (Dunwoody, Georgia) for a ten hour facilitated session to refine and validate the business process model for STD prevention at state and local health departments. A model was presented, and activities were designed for the group to build out the model by refining definitions, identifying inputs and outputs, and testing the model against current activities taking place within State and Local Health Departments.

Session Feedback

After the session, each participant was contacted for feedback on the session and the outputs of the session. Further updates were made to the materials, based on feedback received.





Business Process Modeling Defined

- **Business Process:** A specific ordering of work activities across time and place, with a beginning, an end, and clearly defined inputs and outputs. Business processes are the structure by which the organization physically does what is necessary to produce value for its customers and are broadly defined across functions/departments.
- **Process Model:** A representation of one or more processes and their associations that an enterprise performs. Process modeling is a mechanism for describing and communicating the current or intended future state of a business process.
- **Business Process Model:** A mechanism for describing and communicating the current or intended future state of a business process.



Business Process Modeling shows how work gets done.





Business Process Model Hierarchy







Program Management and Operations: Staff Development, IT Support, Financial Management, Administration, Internal Communication







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Each type of data is an input to each mega process. The data is used and then transformed to an output during the mega process activities.









Outreach/Community-Based Services: Conduct education, training, legislative activity, and communication within community and build appropriate partnerships and coalitions to promote healthy behavior, quality care, testing and treatment



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Partners Services and Counseling: Provide counseling, contact tracing and partner services. Identify potential transmission and prevent additional spread of disease through referral for and provision of testing and treatment



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Improving Services by External Providers: Ensure that private providers comply with current recommendations, guidelines, training, and regulatory requirements related to the STD Program



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Treatment Assurance: Review case reports and clinical data, and conduct follow-up with providers and patients to ensure appropriate treatment







Other Data Collection: Collect information specifically for research, outbreak investigation or sentinel surveillance



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Receipt/Acquisition: Receive and acquire burden of disease data, program operations data,

programmatic services data, secondary data and contextual data from various sources takes place in

disparate ways, by various staff



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Processing and Consolidation: Validate data, compare with existing information and enter/log in system



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File qualitative information and external data and disseminate to appropriate staff

Produce standardized reports on a regular basis and disseminate

Analysis, Access and Dissemination: Allocate cases to DIS, send pre-defined reports to the CDC and make data

and information available to staff



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Program Monitoring: Compare actual program outcomes to planned outcomes, performance measures, and performance through on-going data review



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Priority Setting: Identify changes required in program to further health outcomes. Create implementation plans for changes and communicate need



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Implementation/ Evaluation: Enact changes to programs identified during priority setting. Alter program goals, methods, administration and staffing as necessary



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Program Management and Operations

In addition to the three mega processes, there are cross-cutting components that capture general program management and operational activities:







Existing Public Health and Surveillance Process Models

The process models below were found within CDC materials and public health research articles. They inform the model to be derived in the BPMM initiative

- From Program Operations Guidelines at CDC DSTDP:
- Leadership and Program Management
- Evaluation
- Training and Professional Development
- Surveillance and Data Management
- Partner Services
- Medical and Laboratory Services
- Community and Individual Behavior Change
- Outbreak Response
- Areas of Special Emphasis (corrections, adolescents, managed care, STD/HIV interaction, syphilis elimination, other high-risk populations

From the Epidemiology Program Office, Overview of PH Surveillance

- Collection
- Analysis
- Interpretation
- Dissemination
- Link to public health practice

From NCSD STD Program Infrastructure Needs Assessment, June 2002:

- Surveillance and Data Management
- Intervention Services
- Information Dissemination
- Partnerships and Linkages
- Planning and Policy
- Clinical Services
- Staffing, Training, and Development
- Program Evaluation
- Financial Resources
- Program Adaptation

From Conceptual Framework of PH Surveillance, McNabb:

- Eight core processes:
 Analyses
 - Detection
 - Registration
- Acute (epidemic-type) and

Feedback

- ReportingConfirmation
- Planned (management-type) responses
- Four support activities enable the eight core processes:
 Training
 - Communications Resource Provision
 - Supervision



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