# A Focus on Business Process Analysis and System Requirements

A webinar for Birth Defect Surveillance Programs



**Public Health Informatics Institute** 





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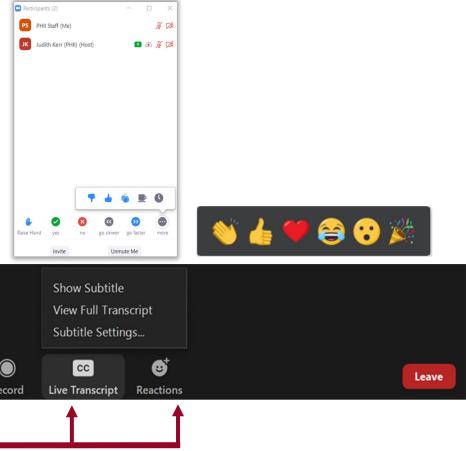


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## Informational sessions

Today's topics: Business Process Analysis and Requirements Definition

https://phii.org/birth-defectssurveillance/

Upcoming topics: Interpreting
Business Process & Determining Next
Steps - July 21, 2023





## Webinar Feedback

- Six short questions at the end of the zoom call
- Help us gauge the effectiveness of our webinar and provide additional resources to assist you in achieving interoperability





Laura Pabst, MPH
Centers for Disease Control and Prevention
National Center on Birth Defects and Developmental Disabilities





## **Poll Question:**

Have you worked with your team to identify current processes and ways you might improve the collection and sharing of birth defects surveillance data?





Juneka Rembert, MPH Project Team Lead

## **Guest Presenter**

- Over 21 years of experience as a Systems Business Analyst leveraging technology to drive organizational change
- Project Team Lead for a variety of PHII Requirements Lab global and domestic projects
- Subject Matter Expert in Software Development Lifecycle (SDLC)
- Leads public health IT teams in development, testing and implementation of information systems and the data analysis process
- Certified Project Management Professional (PMP)
- Designs and develops data collection tools used for various projects
- Experienced in vendor selection assessments and management
- Previously served as a senior systems analyst and contractor for the CDC, ATSDR/Office of Information Systems and the Procurement Grants Office

# Collaborative Requirements Development Methodology

**Overview of CRDM** 

#### **Business Process Analysis**



#### **Think**

- Define goals and objective
- Model context of work
- Describe tasks and workflow
- Identify common task sets

#### **Business Process Redesign**



#### **Rethink**

- Examine tasks and workflow
- Identify inefficiencies
- Identify efficiencies with repeatable processes
- Refine business processes and business rules
- Remodel context of work
- Restructure tasks and workflow

#### **Requirements Definition**



#### **Describe**

- Define specific tasks to be performed for optimized business processes
- Describe the implementation of business rules
- Describe in words and graphics how an information system must be structure
- Determine scope of next phase of activities



**Business Process Analysis** 

Business Process Redesign Requirements Definition

#### **Think**

How do we do our work now?

- Define goal(s) and objective(s)
- Model context of work
- Describe tasks and workflow
- Identify common task sets



**Business Process Analysis** 

**Business Process Redesign** 

Requirements Definition

#### Rethink

How should we do our work?

- Examine tasks and workflow
- Identify inefficiencies
- Identify efficiencies with repeatable processes
- Refine business processes and business rules
- Remodel context of work
- Restructure tasks and workflow



Business Process
Analysis

Business Process Redesign Requirements Definition

#### Describe

How should we do our work?

- Define specific tasks to be performed for optimized business processes
- Describe the implementation of business rules
- Describe in words and graphics how an information system must be structure
- Determine scope of next phase of activities





# **Important Concepts**

Q: What is a business process?

A: A set of activities and tasks that logically group together to accomplish a goal or produce something of value for the benefit of the organization, stakeholder, or customer





# **Important Concepts**

- Q. What is business process analysis?
- A. The effort to understand an organization and its purpose while identifying the activities, participants and information flows that enable the organization to do its work. The output of the business process analysis phase is a model of the business processes consisting of a set of diagrams and textual descriptions to be used for design or redesign of business processes.



# **Important Concepts**

Q. What is a business process redesign?

A. The effort to improve the performance of an organization's business processes and increase customer satisfaction. Business process redesign seeks to restructure tasks and workflow to be more effective and more efficient.





# Knowledge Check



What are the three components of the CRDM?

- SDLC, Business Process, System Implementation
- IT, Requirements Gathering, RFP
- Business Process Analysis, Business
   Process Redesign, Requirements
   Definition
- None of the above



Business Process Analysis Tools/ Outputs

- Domain Framework
- Graphical Tools:
  - Context Diagrams
  - Task/Process Flow Diagrams
- Text Tool (Narrative Story):
  - Business Process Matrix





## **Business Process Matrix**

- A table that helps to define the parameters of the scope of the business processes you are mapping out.
- Includes, for each business process:
  - Goal
  - Objective
  - Business Rules
  - Trigger(s)
  - Task Set
  - Inputs
  - Outputs
  - (Measurable) Outcomes



#### Project Name

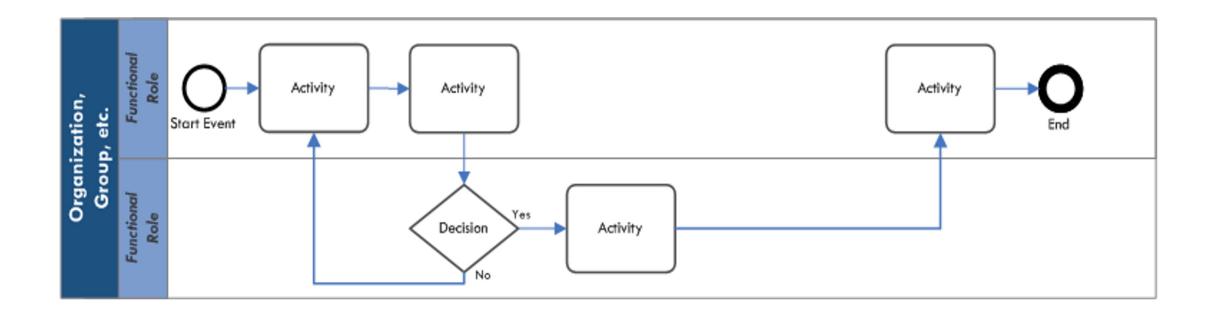
#### **Business Process Matrix Template**

#### **Business Process Name**

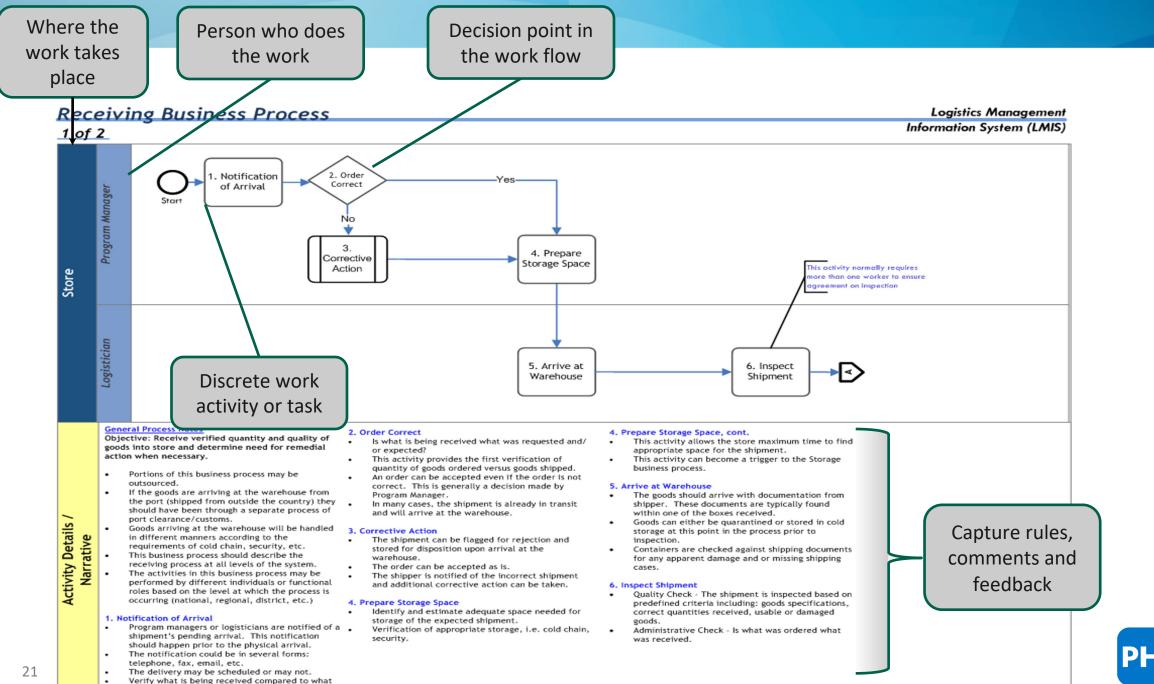
OBJECTIVES	BUSINESS RULES	TRIGGERS	TASK SET	INPUTS	OUTPUTS	MEASURABLE OUTCOMES
A concrete statement describing what the business process seeks to achieve. A well-worded objective will be SMART: Specific, Measurable, Attainable/ Achievable, Realistic, and Time bound.	A set of criteria that defines or constrains some aspect of the business process. Business rules are intended to assert business structure or to control or influence the behavior. Examples in healthcare and public health include laws, standards, and guidelines.	An event, action or state that indicates the first course of action in a business process. In some case, a trigger is also an input.	The key set of activities that are carried out in a business process.	Information received by the business process from external sources. Inputs are not generated within the process.	Information transferred out from a process. The information may have been the resulting transformation of an input, or it may have been information created within the business process.	The resulting transaction of a business process that indicates the objectives have been met.



# Task Flow Diagrams







was requested.





# **Engagement Activity**



Please click the link to Miro in the chat to be taken to the activity page.



# Questions

#### **Contact Information:**

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# Resources: Diagramming Tools and Information

- PHII.org CRDM Overview
- Lucidchart free version available
- PowerPoint
- Microsoft Visio
- Creately
- Miro
- Gliffy
- Google Drawings

