



United States Department of
Health & Human Services
Office of the Assistant Secretary for Preparedness and Response (ASPR)



Progress in Program Evaluation for Healthcare Preparedness

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State and Local Initiatives Team
Office of the Assistant Secretary for Preparedness and Response



- ◆ **Background**
- ◆ **Function and Structure**
- ◆ **Goals and Objectives**



Purpose Statement

To provide **evaluation technical support** and assistance to the National Healthcare Preparedness Programs through **timely and objective evaluative methods**, consultation, and assessment of the Hospital Preparedness Program (HPP) cooperative agreement program; and provide **recommendations and strategies to inform future directions** for National Healthcare Preparedness Programs.



OFFICE OF PREPAREDNESS PLANNING

STATE & LOCAL TEAM

STATE & LOCAL
INITIATIVES

PROGRAM EVALUATION
SECTION

**National Healthcare
Preparedness
Programs**

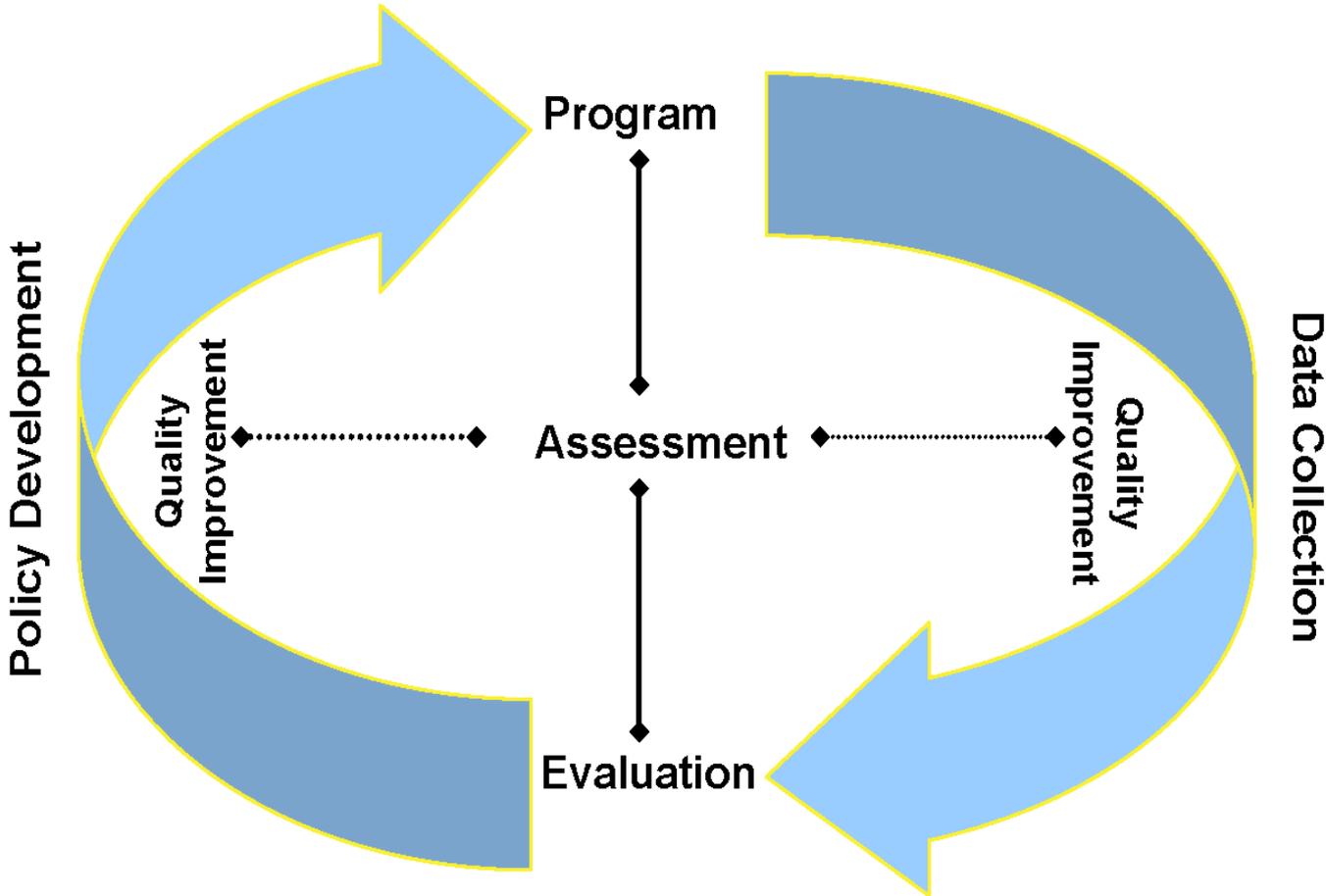


Background

- ✓ Limited Infrastructure
- ✓ Transition
- ✓ Annual Program Changes
- ✓ Disparate Data and Program Information
- ✓ Reporting Requirements
- ✓ Staffing & Attrition

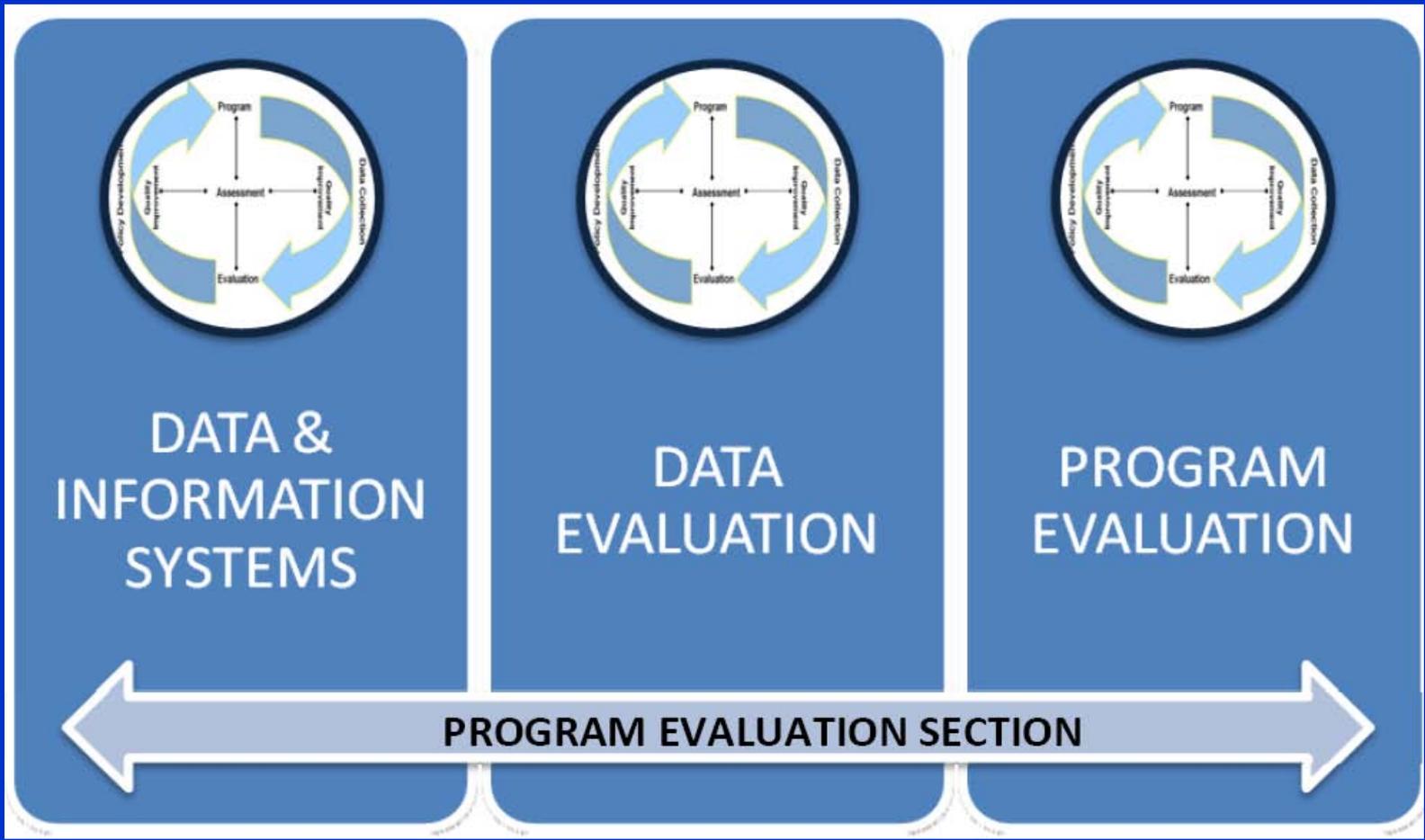


Function & Structure





Function & Structure





Goals and Objectives

- ✓ Define and describe Hospital Preparedness
- ✓ Improve data reporting
- ✓ Improve the quality of data and information
- ✓ Identify key areas for assessment & measurement
- ✓ Transparency and Reporting
- ✓ Technical Assistance



Define & Describe Hospital Preparedness

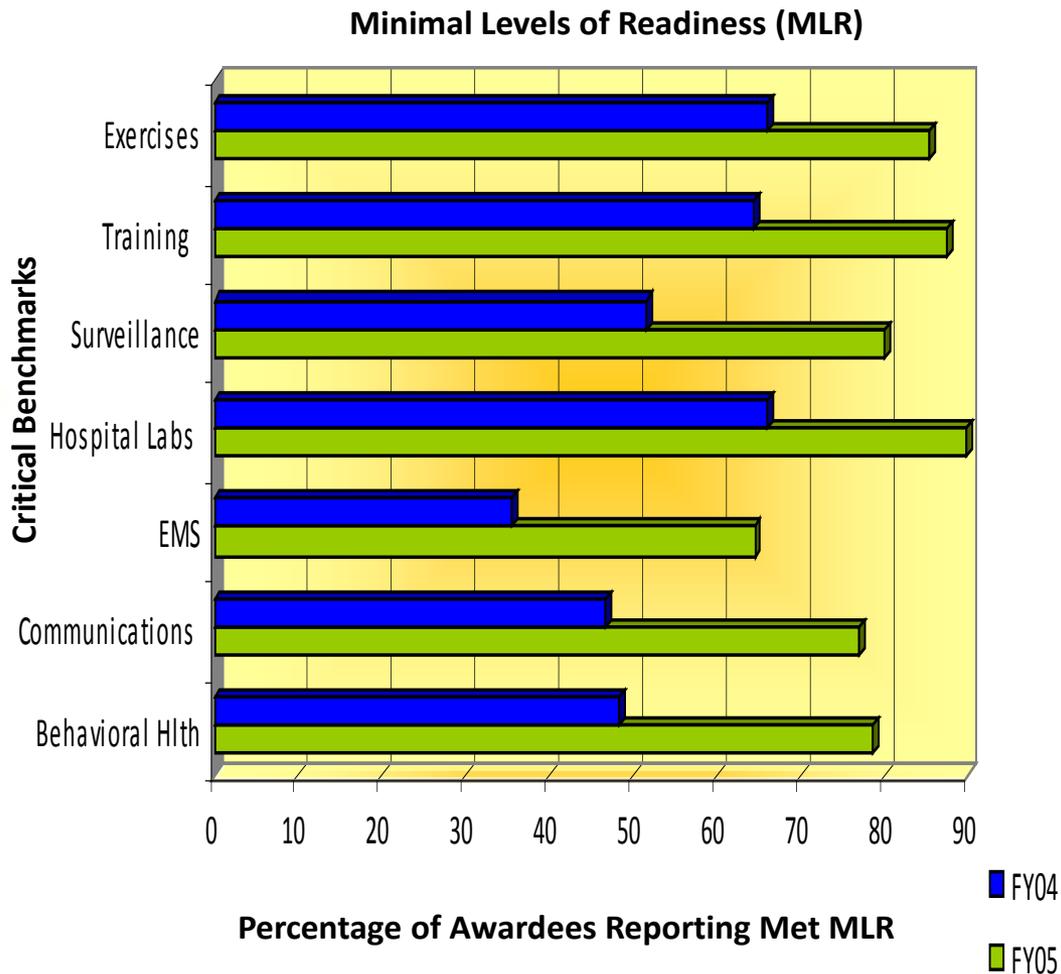
- ✓ HPP Historical Data
- ✓ Logic Models
- ✓ Mathematical Modeling
- ✓ Descriptive Framework



Historical Understanding of HPP Data

HPP Data Points

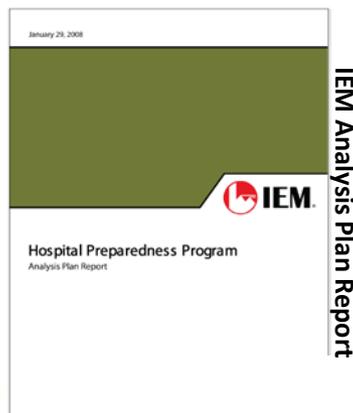
Critical Benchmarks	2002-2005
Minimal Levels of Readiness (MLR)	2003-2005
Sentinel Indicators	2004-2006
Performance Measures	2006-2007
Data Elements	2006-2009
ESAR-VHP	2007-2009
State Level Measures	2008-2009
Hospital Level Measures	2008-2009



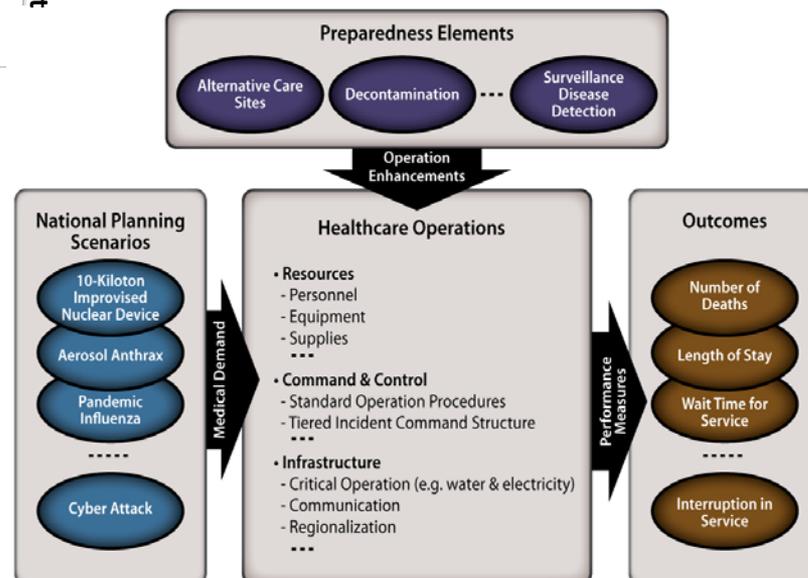


Mathematical Modeling for Hospital Preparedness

- ✓ Identify primary and secondary data required for healthcare preparedness modeling
- ✓ Create a modeling framework that includes essential elements of Hospital and healthcare systems preparedness
- ✓ Test mathematical modeling scenarios with several pilot sites



IEM Mathematical Modeling Framework





Defining Healthcare Preparedness

Descriptive Framework

- Establish the current understanding of the key elements, actions, resources, and capabilities that are essential to a hospital's or community's ability to effectively cope with mass casualty disasters.
- Addresses the characteristics of medical preparedness for disasters requiring regional or national scale responses.
- Built upon several sources: a review of the literature on medical preparedness; analyses of lessons learned from actual mass casualty events; the Center's previous work on medical response
- Basis for a working definition of preparedness for mass casualty emergencies;

UPMC Descriptive Framework

February 13, 2008

Contract # HHSO100200700038C

Center for Biosecurity of UPMC

A Descriptive Framework for Healthcare Preparedness for Mass Casualty Events (Final 2/13/2008)

Section 1: Introduction

Project Overview

The Office of the Assistant Secretary for Preparedness and Response (ASPR) in the Department of Health and Human Services (HHS) has contracted with the Center for Biosecurity of the University of Pittsburgh Medical Center (the Center) to deliver the following:

1. An Evaluation Report assessing the progress in healthcare preparedness for mass casualty disasters achieved as a result of the first five years (2002-07) of the HHS Hospital Preparedness Program (HPP); and
2. A Preparedness Report proposing a functional definition of healthcare preparedness for mass casualty disasters for the future. This will be developed with the active engagement of medical preparedness experts and other stakeholders by means of interviews, working groups, and issue analysis meetings [see Appendix A: Working Group Plan].

For the initial phase of this work, the Center has prepared a preliminary Descriptive Framework to establish the current understanding of the key elements, actions, resources, and capabilities that are essential to a hospital's or community's ability to effectively cope with mass casualty disasters. The Framework also addresses the characteristics of medical preparedness for disasters requiring regional or national scale responses.

This Descriptive Framework is built upon several sources: a review of the literature on medical preparedness; analyses of lessons learned from actual mass casualty events; the Center's previous work on medical response;¹⁻⁸ and exploration of the response needs that might result from potential future large-scale disasters such as those described in U.S. National Planning Scenarios.⁹ The Descriptive Framework will serve as a basis for a working definition of preparedness for mass casualty emergencies; for delineation of the



- **Improve data reporting**
- **Improve the quality of data and information**
 - ✓ Data reporting
 - ✓ Program Evaluation and Planning Interface (PEPI)
 - ✓ ACF/Grants Solutions Interagency Agreement



Data Reporting

- ✓ Refined **performance metrics** for FY07 and FY08 progress reporting
- ✓ Refined the FY07 and FY08 **progress reporting tool**
- ✓ Positive progress with development of **web-based forms with ACF**
- ✓ Web-based forms slated for release FY08 EOY and FY09 Mid-Year pending **OMB review and approval**
- ✓ Web-based demonstration during the National Healthcare Preparedness Evaluation and Improvement Conference

U.S. Department of Health and Human Services
 Assistant Secretary for Preparedness and Response (ASPR)
 Office of Preparedness and Emergency Operations (OPEO)
 Division of National Healthcare Preparedness Programs (DNHPP)
 FY 2007 Hospital Preparedness Program (HPP)
 Progress Report

FY07 Reporting Template

Grantee Name: Fill in name here State Code:

	Amount Proposed	Amount Obligated	Amount Unobligated	Amount Spent
Administration:	\$0.00	\$0.00	\$0.00	\$0.00
Level One Sub-Capabilities	\$0.00	\$0.00	\$0.00	\$0.00
Level Two Sub-Capabilities	\$0.00	\$0.00	\$0.00	\$0.00
Additional Consideration and Emerging Item	\$0.00	\$0.00	\$0.00	\$0.00
***This entire section will prepopulate when you fill out the sections below	\$0.00	\$0.00	\$0.00	\$0.00
FY 07 Award Amount:	\$0.00	\$0.00	\$0.00	\$0.00

Name:

Date: 09/14

(This must equal \$0.00)

U.S. Department of Health and Human Services
Hospital Preparedness Program (HPP)
 Cooperative Agreement
 FY 08 Progress Report

FY08 Reporting Template

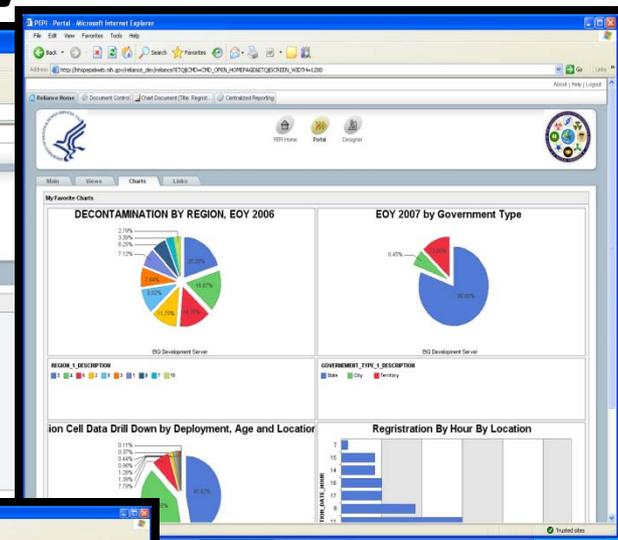
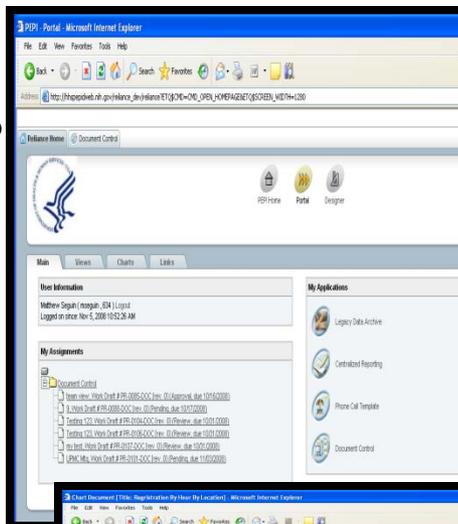
Table of Contents		Grantee			
Instructions	State				
Facilities	POC Name				
Financial	Phone Number				
	Email Address				
	Report Type				
	FY08 HPP Award Amount				
	Date Submitted				
	Funding Summary				
	Capability	Amount Proposed	Amount Unobligated	Amount Obligated-Not Liquidated	Amount Obligated-Liquidated
	Administrative	\$0.00	\$0.00	\$0.00	\$0.00
	Overarching Repts	\$0.00	\$0.00	\$0.00	\$0.00
	Level I	\$0.00	\$0.00	\$0.00	\$0.00
	Level II	\$0.00	\$0.00	\$0.00	\$0.00
	Add'l Considerations	\$0.00	\$0.00	\$0.00	\$0.00
	Other HPP Areas	\$0.00	\$0.00	\$0.00	\$0.00
	Totals	\$0.00	\$0.00	\$0.00	\$0.00



Data Reporting & Information Systems

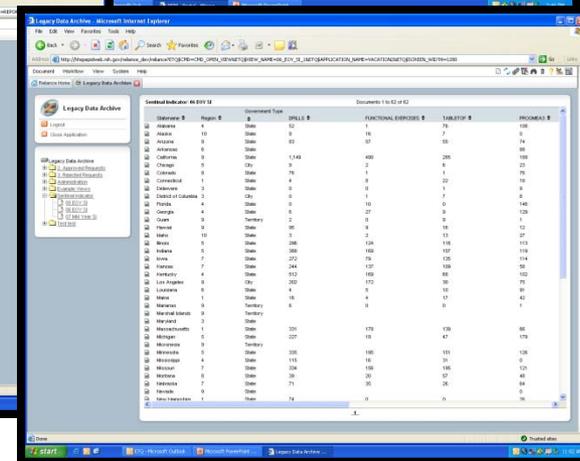
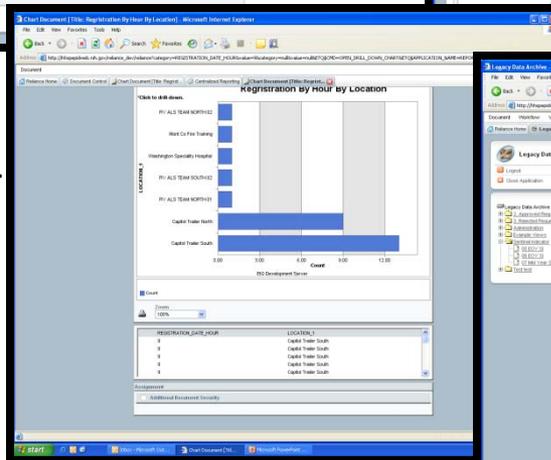
- ✓ Program Evaluation and Planning Interface (PEPI)
- ✓ Data Capture
- ✓ Document Management System
- ✓ Centralized Document Repository
- ✓ Report Generation (reduce time to complete and overall burden)
- ✓ Create Tables and Views
- ✓ Run Canned Reports

PEPI Screen Shots: Home Page



PEPI Screen Shots: Charting Feature

PEPI Screen Shots: Snap Shot



PEPI Screen Shots: Data Archive

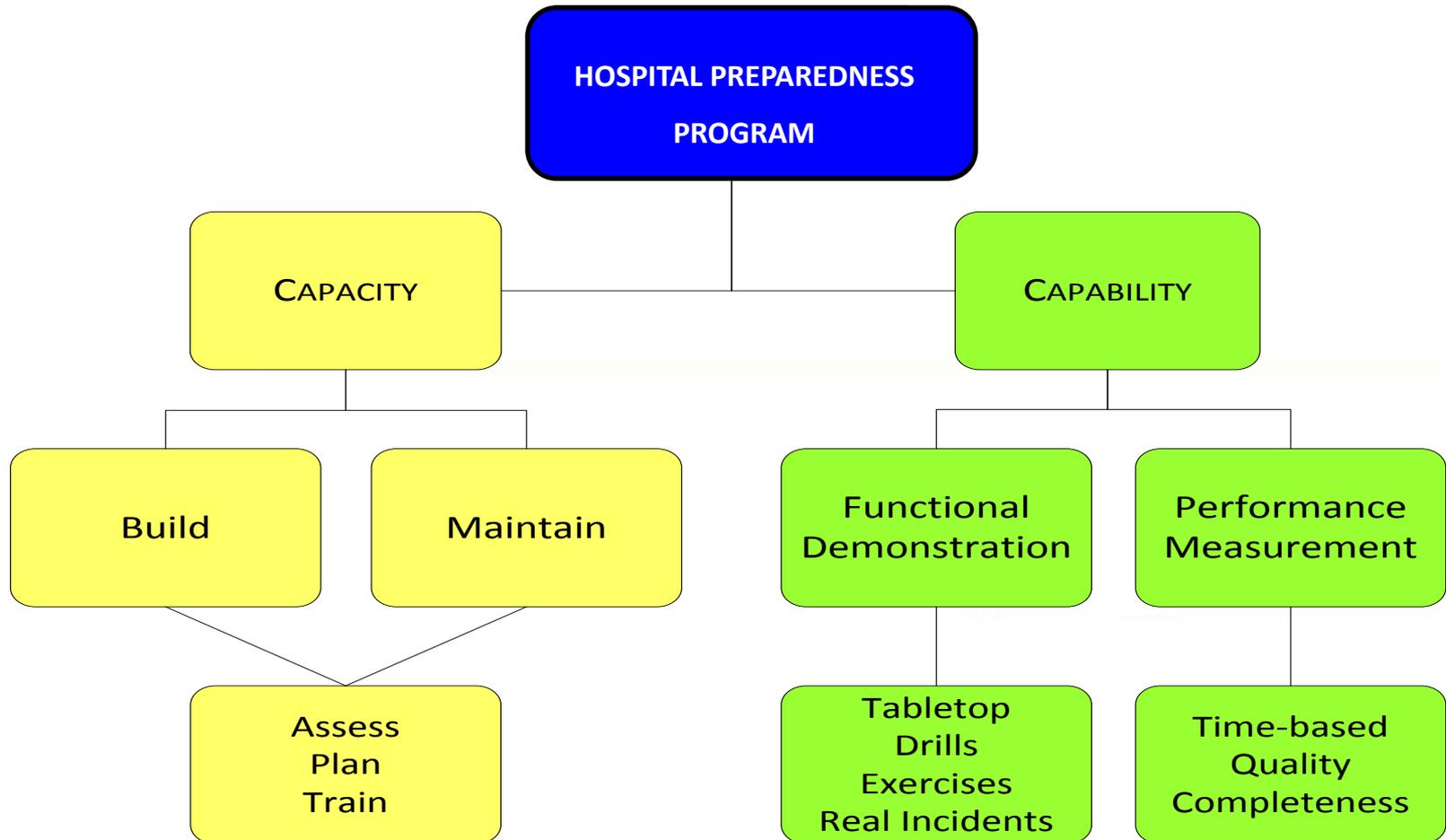


Identify key areas for assessment & measurement

- ✓ Operational framework for measurement
- ✓ Reliability and validity testing for performance measurement
- ✓ Candidate measures for performance assessment in Healthcare preparedness



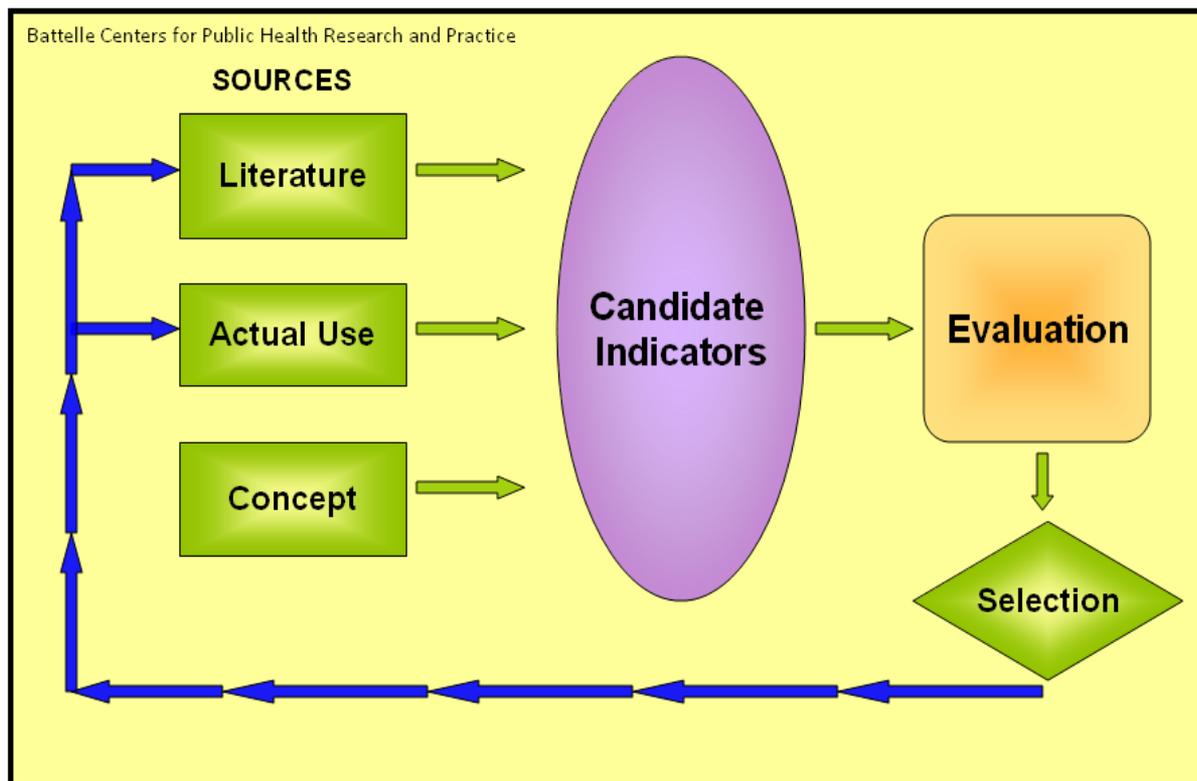
Measurement in Public Health & Healthcare Preparedness





Measurement in Public Health & Healthcare Preparedness

Battelle Memorial, UC Davis, and Stanford University working to develop evidenced based benchmarks and standards in accordance with provisions described in PAHPA





Pandemic Influenza Healthcare Preparedness Improvements for States

Purpose

- ✓ **Healthcare Workforce Protection**
- ✓ Comprehensive Coalition Strategy for Optimization of Health Care

Goal

- ✓ **Mass Vaccination for Employees**
- ✓ **Employee Workplace Policies**
- ✓ **Personal Protective Equipment**
- ✓ Healthcare System Decompression
- ✓ Alternate Care Site (ACS) Capability
- ✓ Situational Awareness
- ✓ Media Strategies

Activity

- ✓ Plans
- ✓ Procedures
- ✓ Software
- ✓ Other



Transparency and Reporting

- ✓ Federal Accountability Provisions
- ✓ Congressional Inquiries
- ✓ Snapshots
- ✓ State Profiles
- ✓ National Healthcare Preparedness and Improvement Conference



Federal Accountability Provisions

OMB Program Assessment Rating Tool (PART)

Led the PART corrective action planning efforts for HPP. Provided evidence to support classification from unsatisfactory category to mixed results category



Presidents Management Agenda

Presidents Management Agenda (PMA) scorecard that gives a "green", "yellow" or "red score" by agency. Green indicates success, yellow indicates mixed results, and red indicates unsatisfactory results.

Long-Term Goal: Enhance State and Local Preparedness			
Congressional Justification- Output and Outcomes (States) Table			
	FY 2006	FY 2007	FY 2007
Key Outcomes	Actual	Target	Actual
2.4.2 Improved surge capacity and enhanced community and hospital preparedness for public health emergencies through:			
% of States demonstrating ability to report hospital bed data	82%	50%	97%
% of States demonstrating use of Interoperable Communication Systems	76%	50%	91%
% of States demonstrating development of Fatality Management Plans	73%	50%	62%
% of States demonstrating development of Hospital Evacuation Plans	72%	50%	80%
% of States demonstrating development of fully operational compliant ESAR-VHP programs	83%	50%	68%

Government Performance Results Act (GPRA)

Provide analytical support to address the HPP GPRA measures



Technical Assistance

- ✓ Funding Opportunity Announcement
- ✓ Data Collection and Reporting
- ✓ Program Policy
- ✓ HPP Awardees



What We Know for Sure

- ✓ Program Evaluation
 - Collaboration and partnerships are essential
 - Numbers and data alone are not enough to describe and understand achievements
- ✓ Healthcare Preparedness
 - Assessment of achievements in healthcare preparedness is evolutionary
- ✓ Performance Metrics
 - Definitions and standards are critical steps in the assessment of outcomes (formative, process, and outcomes)
 - Performance measures and metrics must be relevant, realistic, valid, and reliable in order to be an informative proxy
- ✓ Data & Data Analysis
 - Historically limited to measures and metrics defined early in the program
- ✓ Transparency
 - Information is useful only when it is shared and/or used



Summary

