



United States Department of

**Health & Human Services**

Office of the Assistant Secretary for Preparedness and Response



# **BARDA Funding Opportunities: Developing Medical Countermeasures**

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**Biomedical Advanced Research and Development Authority**

**May 7 2013**

**NCI SBIR Workshop on Federal Resources to Accelerate  
Commercialization**

*ASPR: Resilient People. Healthy Communities. A Nation Prepared.*



# BARDA's Mission



***Develop and provide countermeasures for CBRN threats, pandemic influenza, and emerging infectious diseases by product development, stockpile acquisition/building, manufacturing infrastructure building, and product innovation.***



**Renovated 1960's-Era Federal Office Building #8  
Move in June 2013**

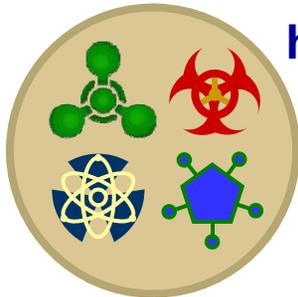
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# Scoping the Challenge



Define, Design, Develop, Deliver and Dispense  
Medical Countermeasures to reduce the adverse  
health consequences of public health emergencies



**Complex array of  
Threats**



**Diverse population**

## A Nation Prepared



**Lengthy, risky and  
expensive product  
development**



**Prioritize medical  
countermeasure programs  
to effectively address  
mission goals**

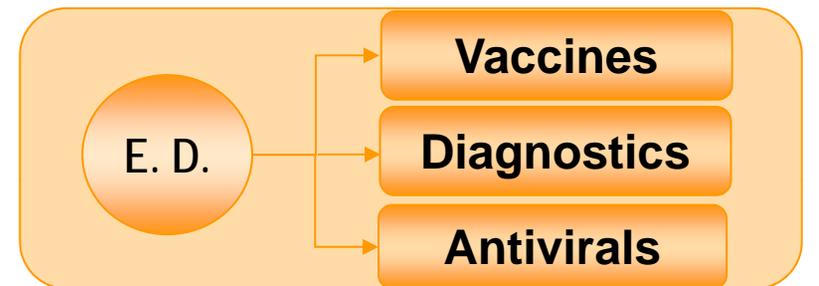
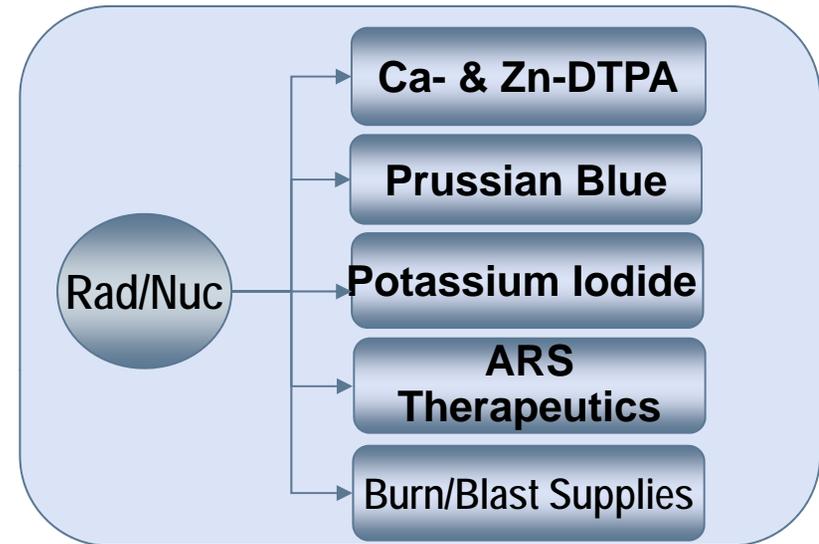
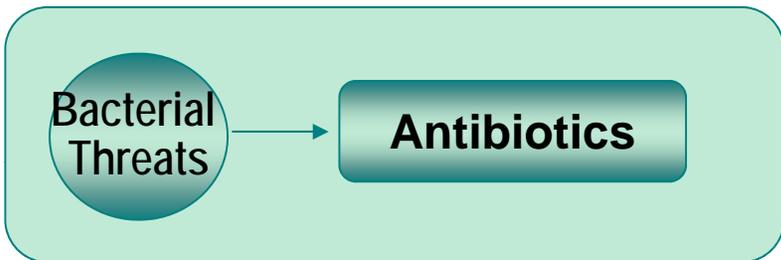
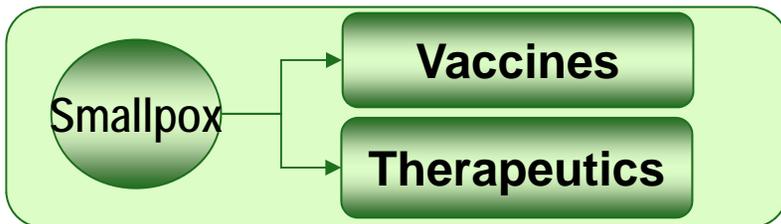
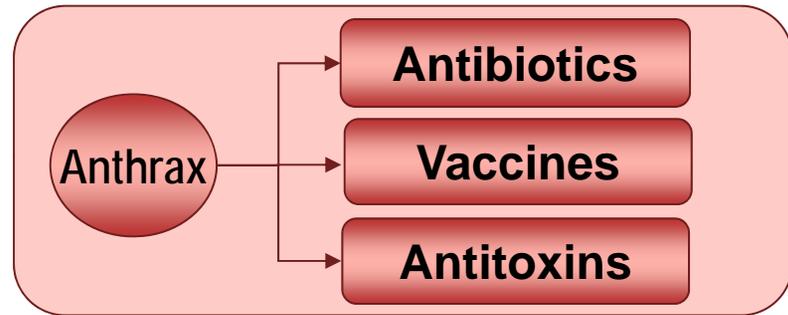


**Strategies &  
dependencies for  
effective use**

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# Medical Countermeasures For National Security: A Toolkit For Public Health Emergency Preparedness

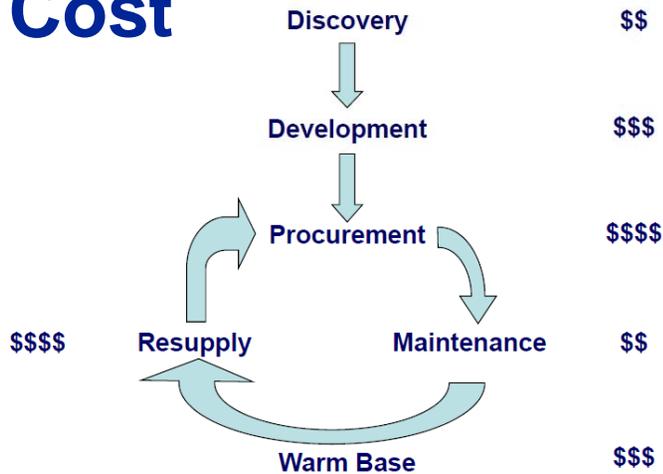




# Product Development Challenges

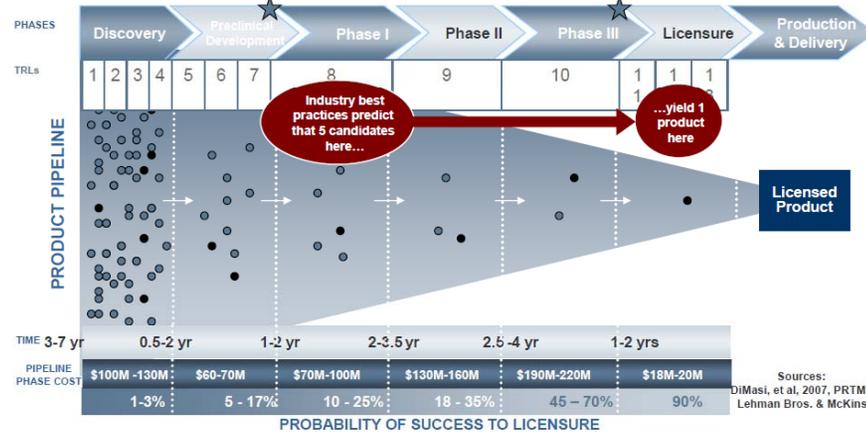


## Cost

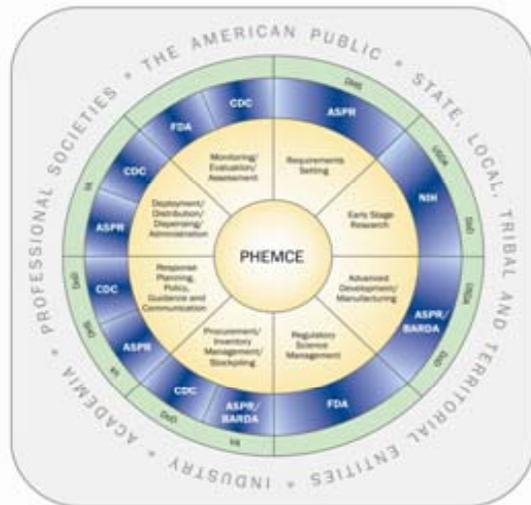


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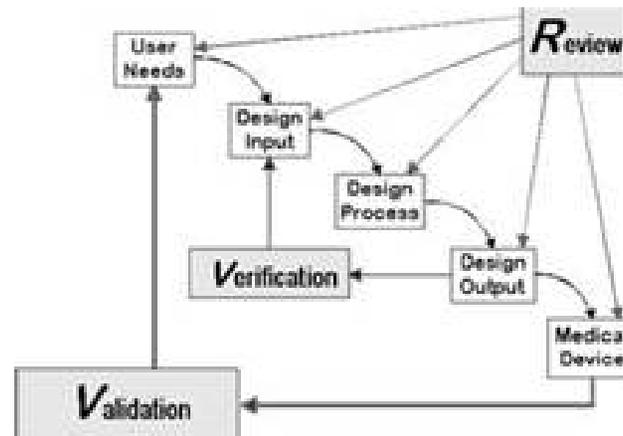
## Technical



## Administration



## Regulatory



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# Areas of Risk for Product Developers



## Business Risks

- Lack of commercially viable product pipelines and long-term solvency
- Financing pressures for “start-up” and operating capital
- Lack of integrated business expertise in new organizations

## Technical Risk for Product Development

- Lack of ability for translation and incubation of promising ideas from tech base to early product development
- Access to core manufacturing and accessory services

## Regulatory Risks

- Uncertain or high risk pathway to product licensure for CBRN
- Need for greater resources at FDA to mitigate risk profile

## Governmental Risks

- Coordination across multiple agency and department level programs
- Ability to project and prioritize long-range needs through an integrated multi-year program/budget process



# BARDA Strategic Issues



- ✓ Resource constraints afflicting the USG
- ✓ Many CBRN threats
- ✓ Maturation of core programs
- ✓ Pharma industry is changing/restructuring
- ✓ Less investment capital than a few years ago

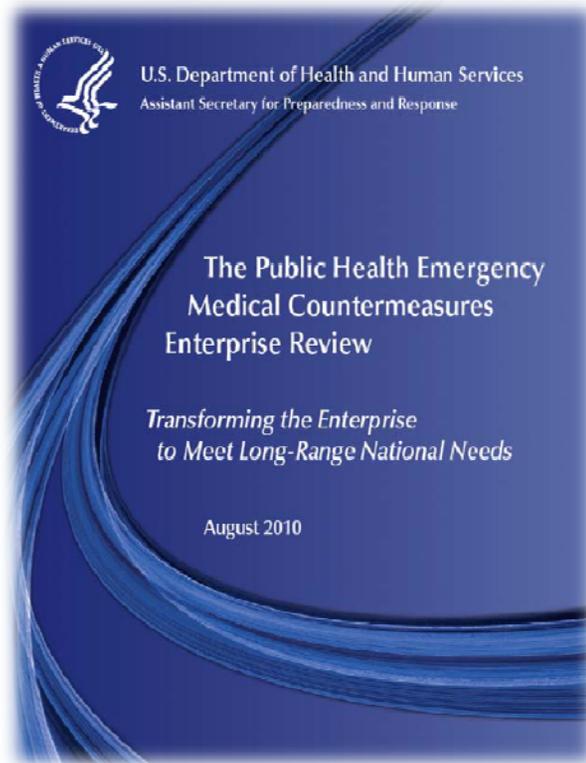




# MCM Enterprise Review 2010



## Key Initiatives



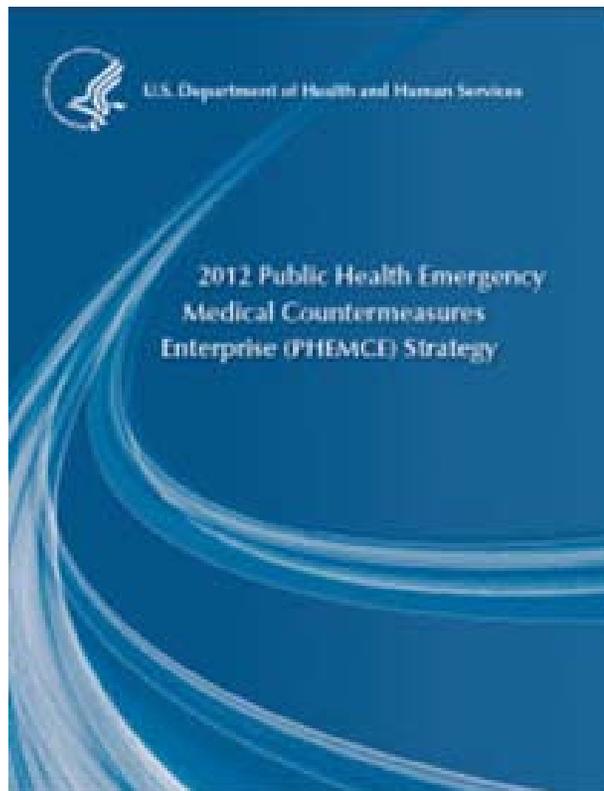
- Expand Product Pipeline through Concept Acceleration Program (CAP) at NIAID.
- Establish a Strategic Investment (SI) Fund to increase investments in commercial ventures with multi-use potential (BARDA)
- Establish Centers for Innovation Advanced Development and Manufacturing (BARDA)
- Investment in upgrading science capacity at FDA
- Optimize influenza vaccine development and manufacturing (BARDA, NIAID, FDA, CDC)
- Enhance PHEMCE business practices



# New PHEMCE Strategy 2012



## 2012 PHEMCE Strategy

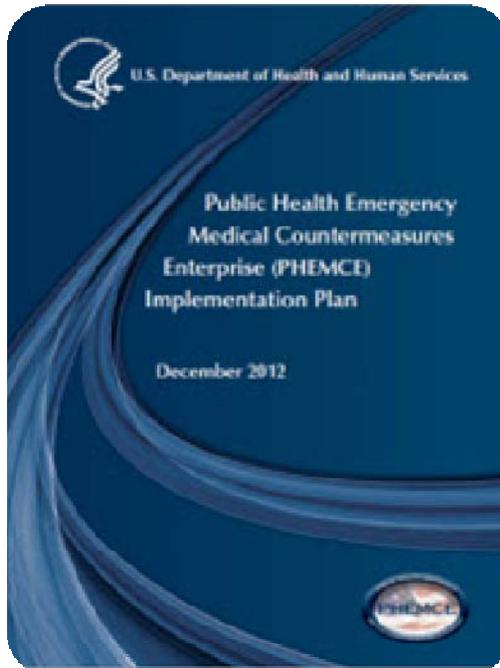


- Identify, create, develop, manufacture, and procure critical medical countermeasures
- Establish and communicate clear regulatory pathways to facilitate medical countermeasure development and use
- Develop logistics and operational plans for optimized use of medical countermeasures at all levels of response
- Address medical countermeasure gaps for all sectors of the American civilian population



# The 2012 HHS PHEMCE Implementation Plan: **ASPR** Identifies Priorities Across the PHEMCE Mission Areas

**ASPR**  
ASSISTANT SECRETARY FOR  
PREPAREDNESS AND RESPONSE



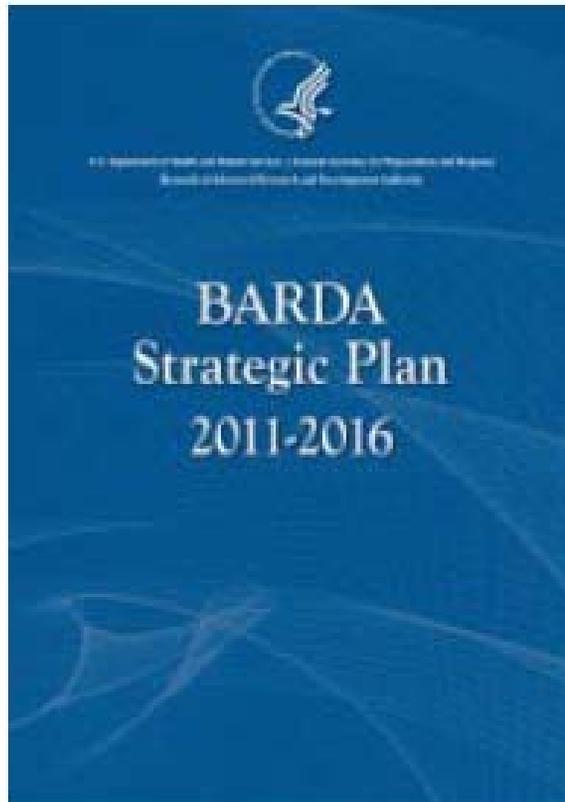
- a high-level description of programs and initiatives that support the goals and objectives laid out in the Strategy;
- an overview of PHEMCE interagency partner roles and collaborations;
- a detailed description of threat-specific approaches;
- a description of specific capability-based approaches; and
- a summary of key milestones to track progress over the next five years.

**This is the blueprint the PHEMCE will follow in the near-, mid-, and long-terms to enhance national health security while making the best use of available resources.**





# BARDA Strategic Commitments 2011-2016



## Goals

- Robust advanced development pipeline for all known CBRN threats
- Core service capability
- Robust domestic MCM manufacturing infrastructure
- Address MCM needs for emerging infectious diseases
- Nimble response capability to known & unknown threats
- Consistent with ASPR Strategic Plan, MCM Review, and other national plans

<https://www.medicalcountermeasures.gov>



# CBRN Funding Mechanisms



- **Advanced R&D**

- Broad agency announcements (BAA)
  - White papers and quad charts (first tier)
  - Full proposals by invitation (second tier)
  - Companies can submit full proposals at any time
  - No procurement of product
  - Cost plus fixed fee
- Request for Proposals (RFP)
  - Allows for delivery of product in the contract
  - Cost plus fixed fee



- **Procurement Contracts under Project BioShield**

- RFP
  - Procurement guided contracts
  - Product may be accepted once the sponsor has generated a data set sufficient for the potential use of the product during a declared emergency under Emergency Use Authorization
  - Fixed Price



# Interfacing with BARDA



- [www.hhs.gov/aspr/barda](http://www.hhs.gov/aspr/barda)
  - Program description, information, news, announcements
- [www.fedbizopps.gov](http://www.fedbizopps.gov)
  - Official announcements and detailed information about all government contract solicitations
- [www.medicalcountermeasures.gov](http://www.medicalcountermeasures.gov) (or [www.phe.gov](http://www.phe.gov))
  - Portal to BARDA
  - Register, request a meeting
  - Tech Watch
  - <http://www.phe.gov/Preparedness/mcm/phemce/Documents/2012-PHEMCE-Strategy.pdf>
  - <http://www.phe.gov/Preparedness/mcm/phemce/Documents/2012-PHEMCE-Implementation-Plan.pdf>