

Fall October 26, 2015

# Kentucky's Public Health Strategic Plan: Strengthening Foundational Services & Improving Population Health

Glen P. Mays, *University of Kentucky*

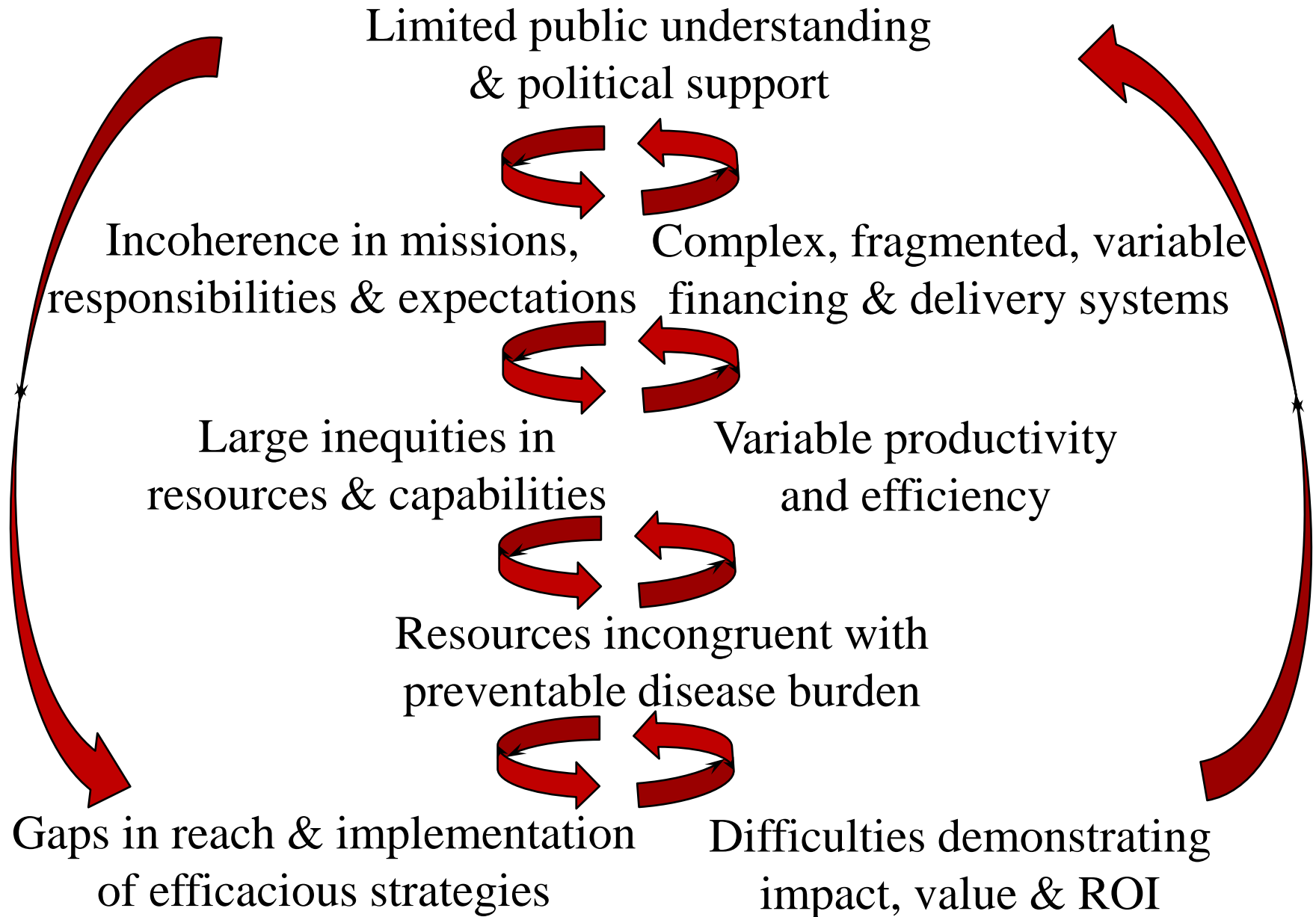
# **Kentucky's Public Health Strategic Plan: Strengthening Foundational Services & Improving Population Health**

**Friedell Committee for Health | 2015 Annual Fall Meeting**  
Lexington, KY • October 26, 2015

**Glen Mays, PhD, MPH**



# Vicious cycles in public health delivery



# Articulating Foundational Services in public health

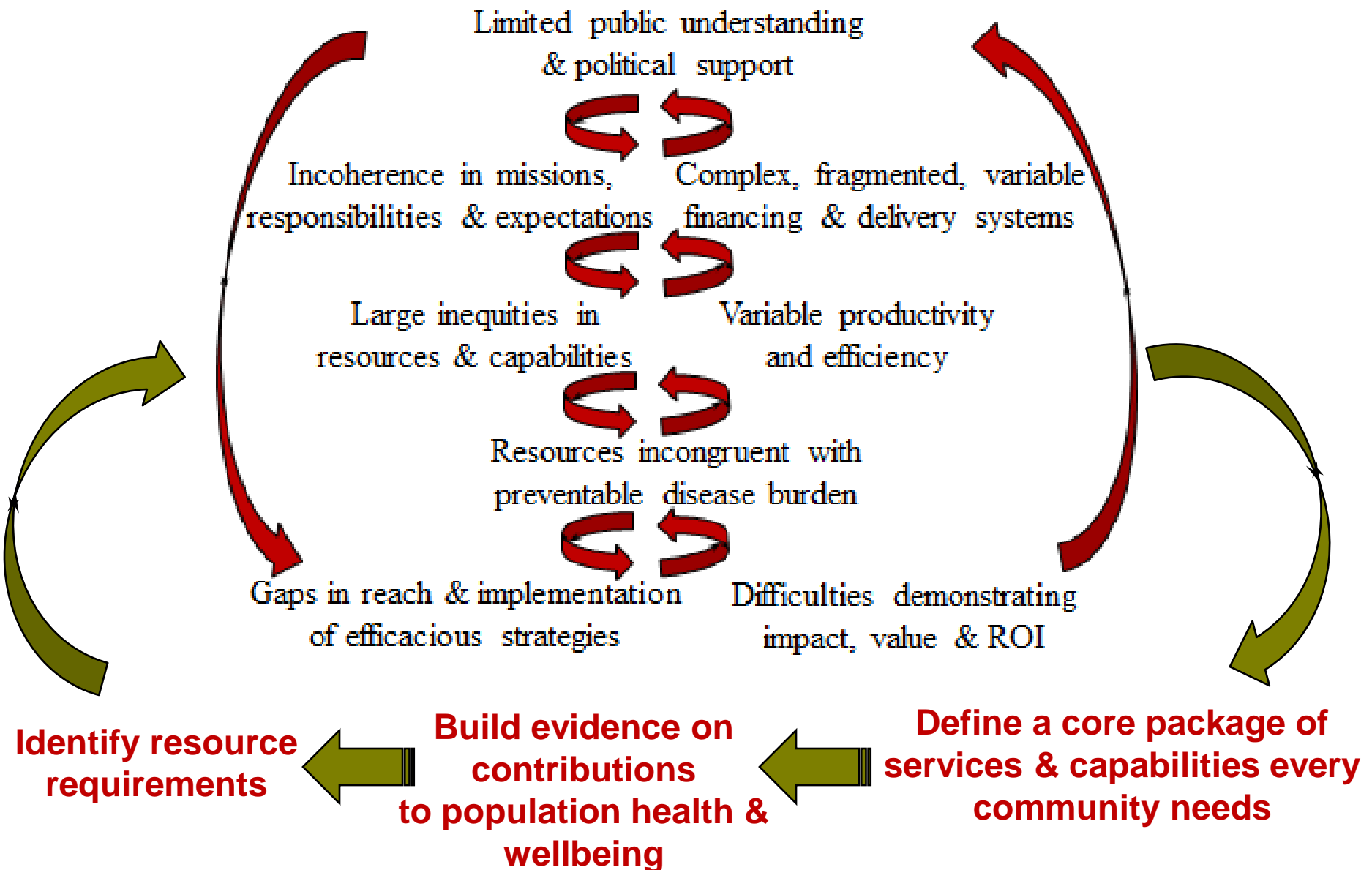
## 2012 Institute of Medicine Recommendations

- Identify the components and **costs of a minimum package** of public health services
  - Foundational capabilities
  - Basic programs
- Implement a **national chart of accounts** for tracking spending and flow of funds
- Expand **research on costs and effects** of public health delivery



Institute of Medicine. For the Public's Health: Investing in a Healthier Future. Washington, DC: National Academies Press; 2012.

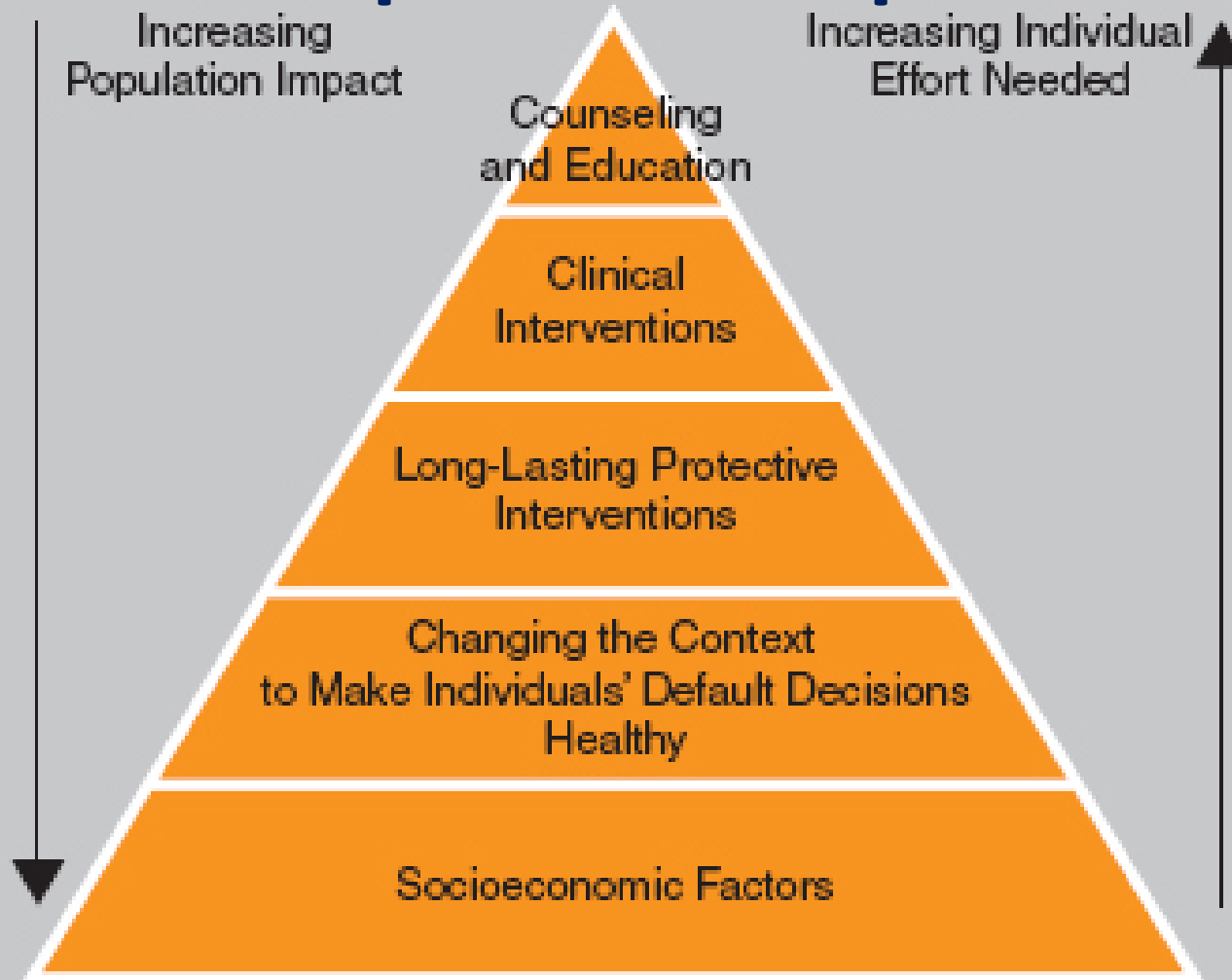
# Vicious cycles to learning systems



# New incentives & infrastructure are in play



# Foundational Services & Population Impact



# Foundational Services & Next-Gen Public Health

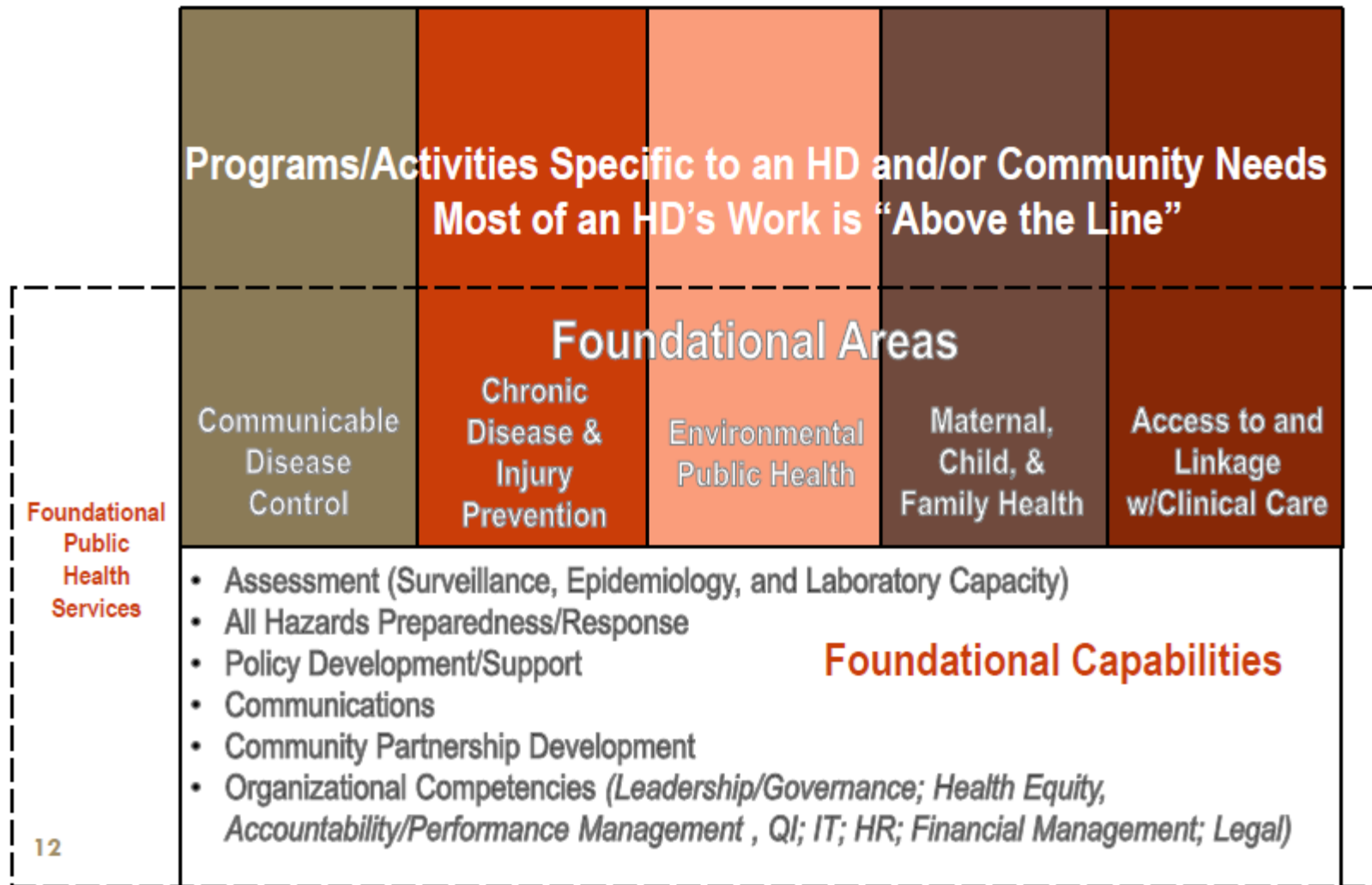
Public health agency as **chief health strategist** for the system:

- Articulate population health needs & priorities
- Engage community stakeholders
- Plan with clear roles & responsibilities
- Recruit & leverage resources
- Develop and enforce policies
- Ensure coordination
- Promote evidence-based practices
- Monitor and feed back results
- Mobilize performance improvement
- Ensure transparency & accountability: resources, results, ROI



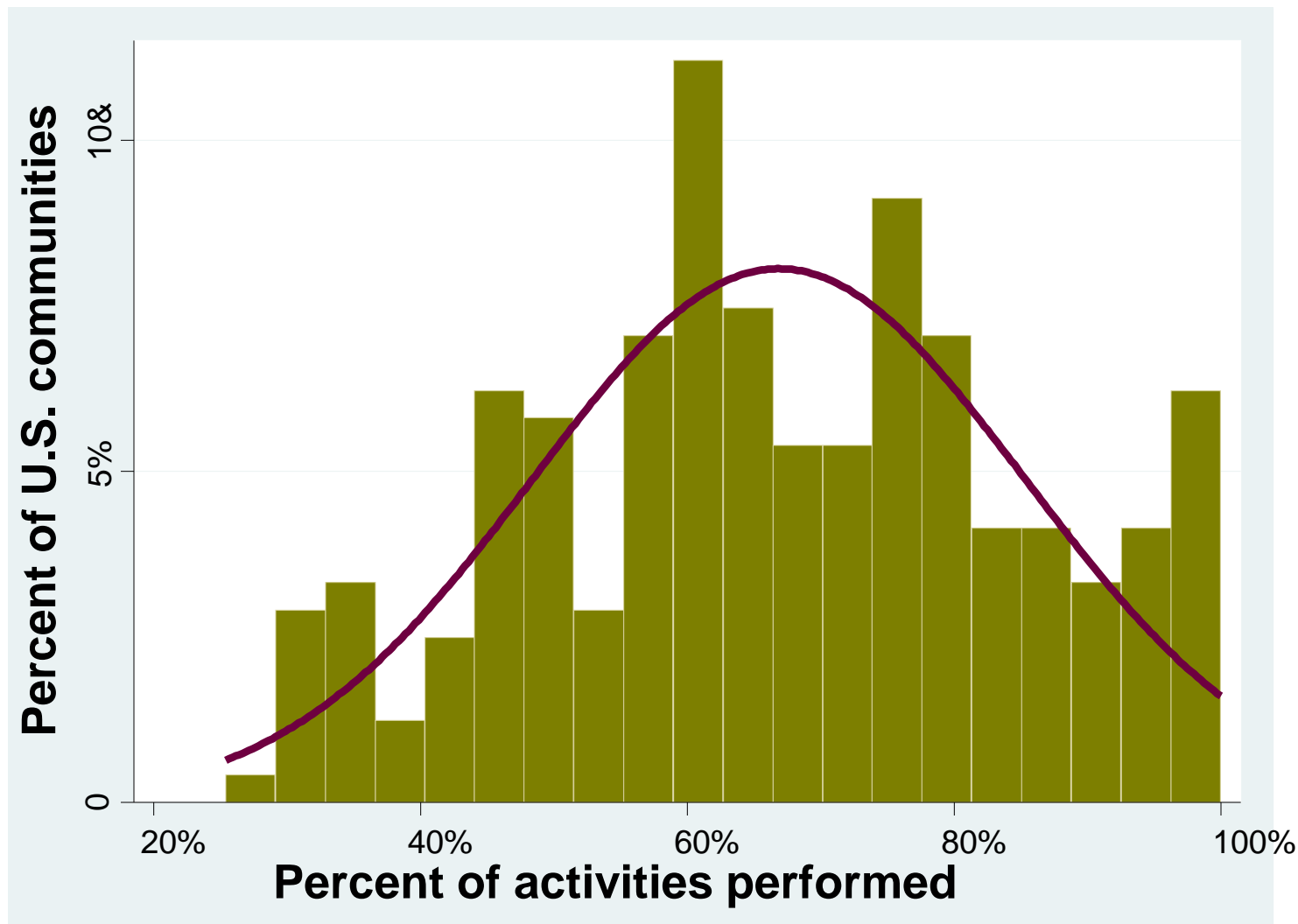


# Articulating Foundational Services



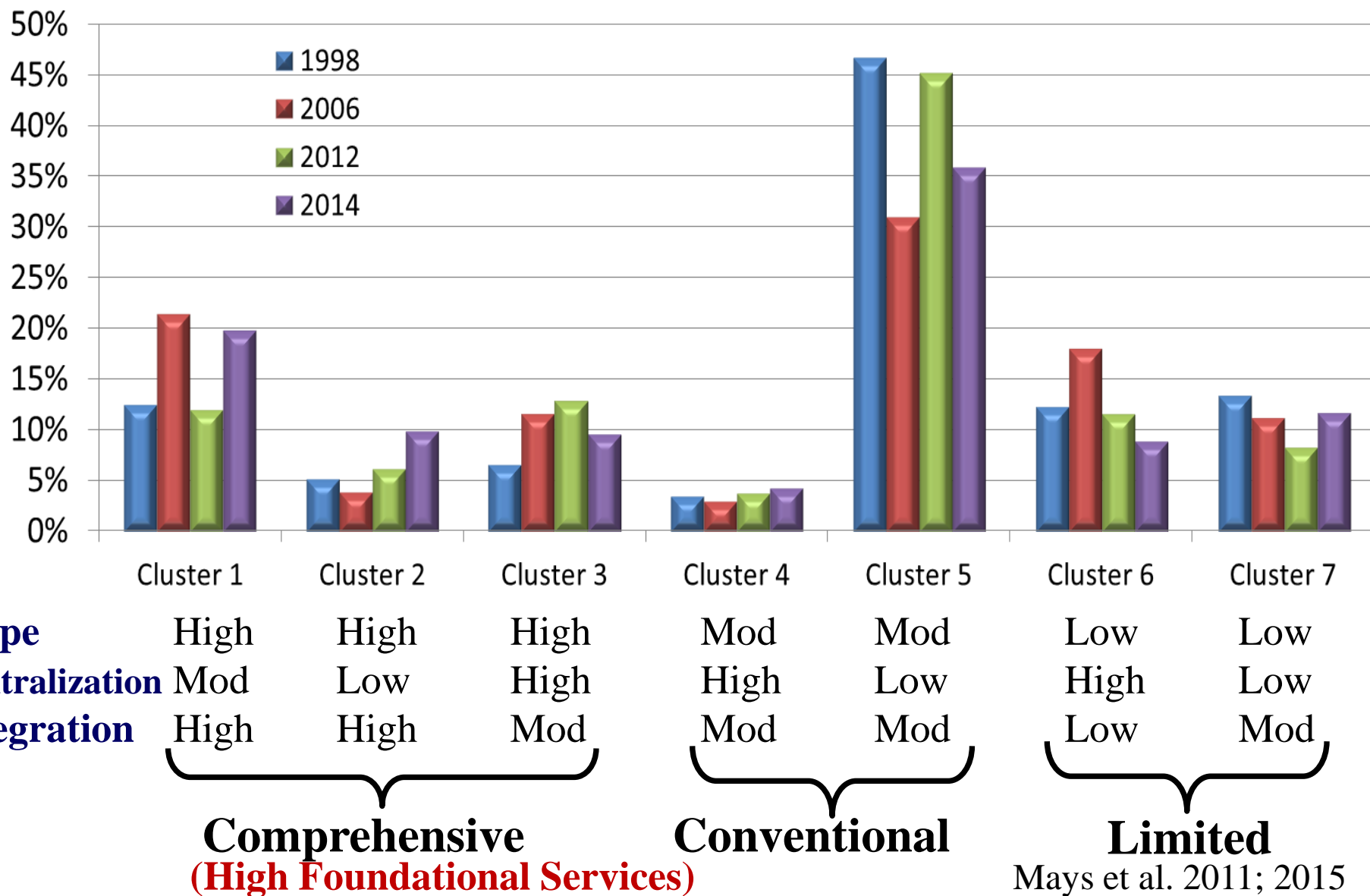
# Variation in Delivery of Foundational Services

National Longitudinal Survey of Public Health Systems



# Prevalence of Public Health System Configurations, 1998-2014

## National Longitudinal Survey of Public Health Systems



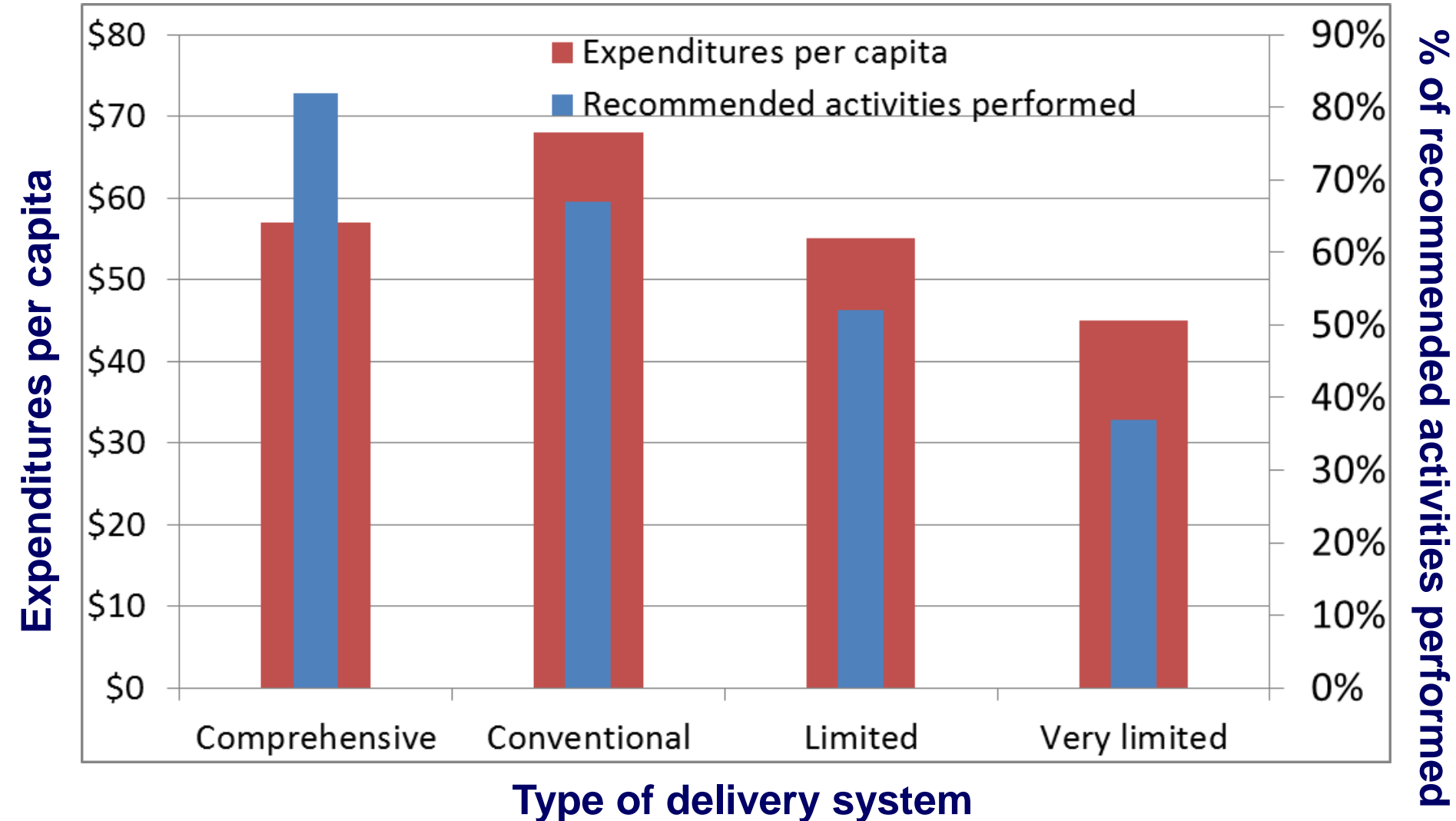
# Changes in Foundational Services prevalence and coverage

National Longitudinal Survey of Public Health Systems

System Capital Measures	1998	2006	2012	2014	2014 (<100k)
<b>Comprehensive systems</b>					
% of communities	24.2%	36.9%	31.1%	32.7%	25.7%
% of population	25.0%	50.8%	47.7%	47.2%	36.6%
<b>Conventional systems</b>					
% of communities	50.1%	33.9%	49.0%	40.1%	57.6%
% of population	46.9%	25.8%	36.3%	32.5%	47.3%
<b>Limited systems</b>					
% of communities	25.6%	29.2%	19.9%	20.6%	16.7%
% of population	28.1%	23.4%	16.0%	19.6%	16.1%

# Comprehensive systems do more with less

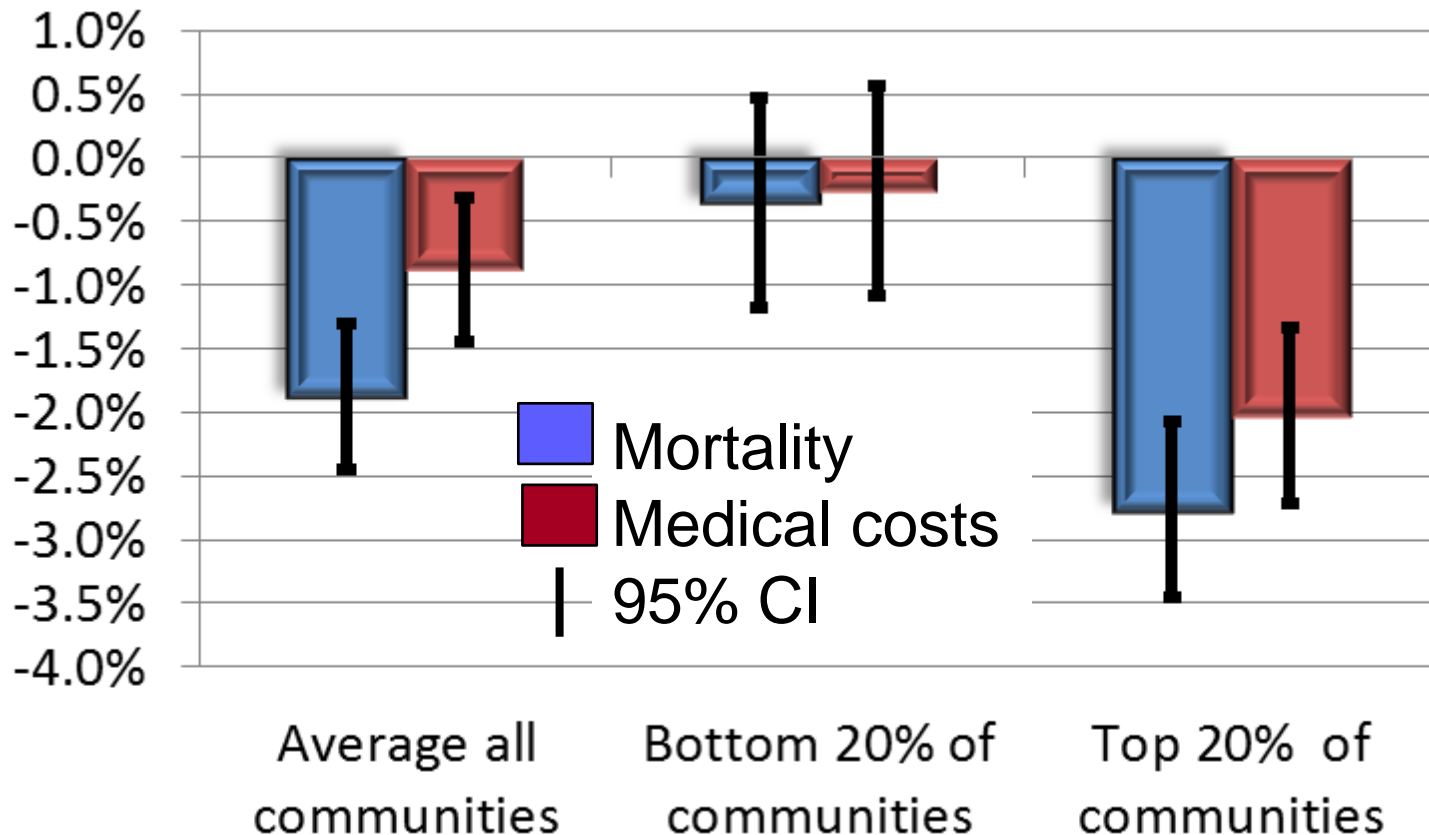
National Longitudinal Survey of Public Health Systems



Mays et al. 2011; 2015

# Public health investments produce larger gains in communities with Foundational Services

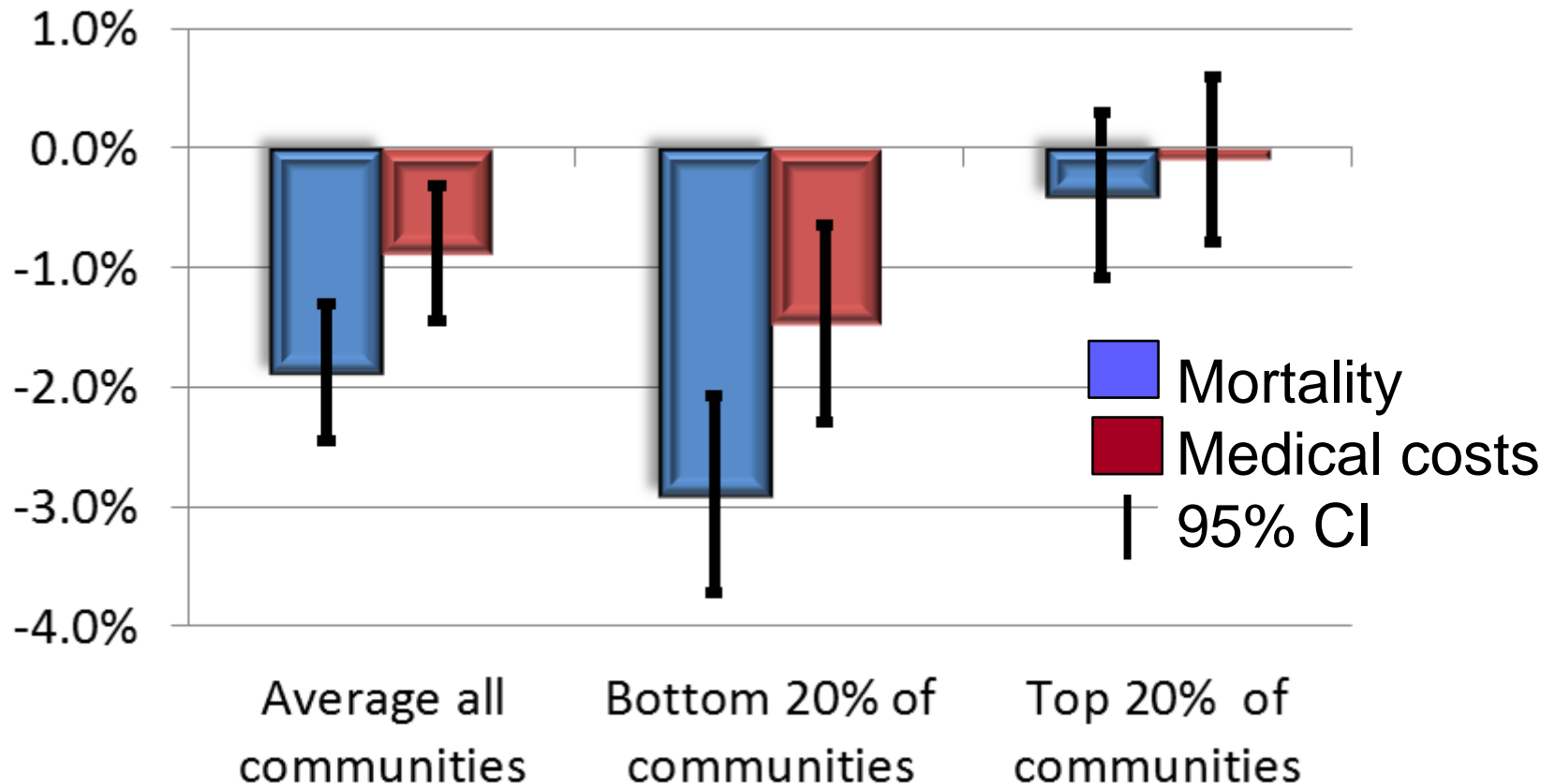
## Impact in Communities with Low vs. High Public Health Infrastructure



Log IV regression estimates controlling for community-level and state-level characteristics

# Public health investments generate larger health & economic gains in low-resource communities

## Impact in Low-Income vs. High Income Communities



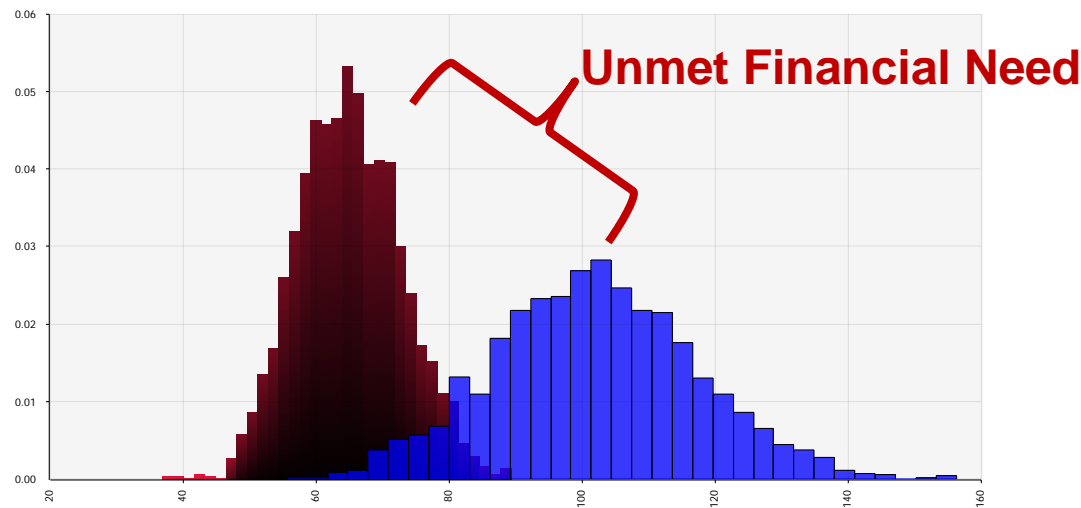
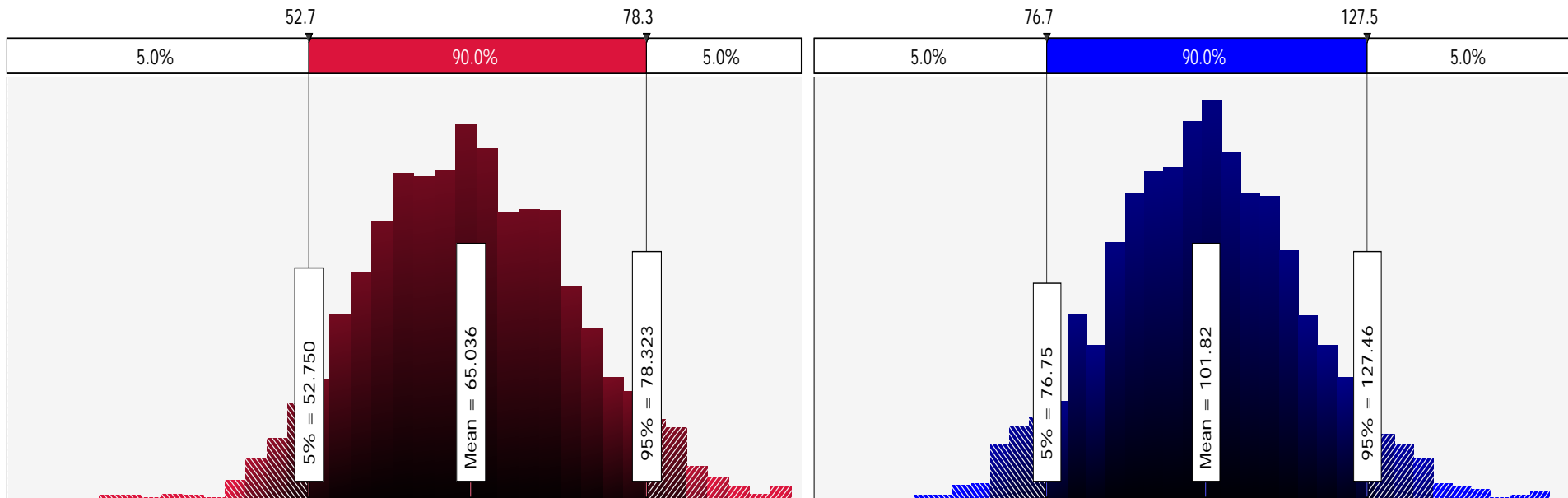
Log IV regression estimates controlling for community-level and state-level characteristics

# Estimating Resource Requirements for Foundational Services

## Pilot Results from a National Costing Study

**Current**

**Projected**





# Foundational Services: the bottom line

- Business as usual is increasingly not an option in public health
- Foundational Services are **catalytic functions** that can improve public health's reach, influence, engagement, & coordination
- Expanded implementation of Foundational Services may improve public health impact, equity & efficiency – but only with adequate financing.
- If not governmental public health, then who will perform these vital functions for the health system?

# For More Information



**Supported by The Robert Wood Johnson Foundation**

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