



# Our Responsibility to Improve Population Health

*Driving Innovation to Improve Population Health  
Washington, DC*

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# CDC Strategic Directions

## HEALTH SECURITY



Improve health security at home and around the world

## LEADING CAUSES OF DEATH



Better prevent the leading causes of illness, injury, disability, and death

## PUBLIC HEALTH-HEALTH CARE COLLABORATION



Strengthen public health/health care collaboration

# Improving Population Health

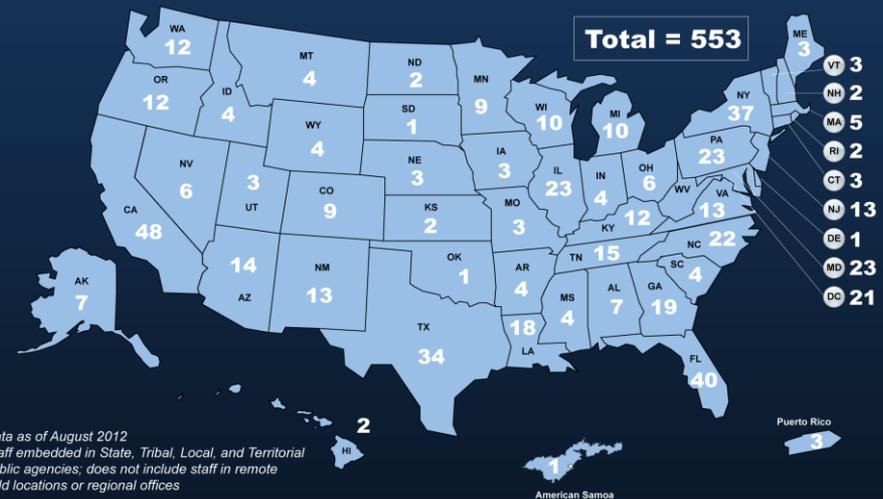
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- Know the population you are responsible for serving (denominator)
- Improve overall health in that population (numerator)
- Use uniform indicators (e.g., tobacco, obesity (nutrition and physical activity), and diabetes)
- Implement proven, evidence based interventions (e.g., Community Guide)
  - Identify biggest problems, winnable battles
  - Actively involve your population and partners to maximize likelihood of program success
- DATA – accurate measurement allows effective management and improvement (honesty)

# CDC Role

- Responsible for health of entire nation
- Develop and disseminate indicators
- Analysis and research to develop interventions and prove they are effective (data)
- Develop collaborative plans with state/local health depts, CMS, provider orgs, etc.
- Financial and technical support

*CDC sends 2 of every 3 dollars in our budget to state/tribal/local entities and embeds nearly 600 staff in health depts*

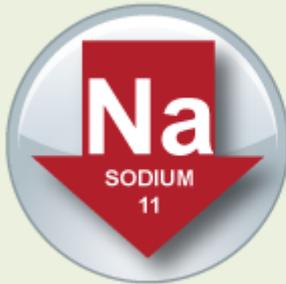


# Million Hearts: Prevent 1M Heart Attacks and Strokes Over 5 Years

**COMMUNITY PREVENTION**  
Reduce need for treatment



**Tobacco control**



**Sodium reduction**



**Trans fat elimination**

**CLINICAL PREVENTION**  
Improve treatment

**Focus on ABCS**



**Health information technology**



**Clinical innovations**

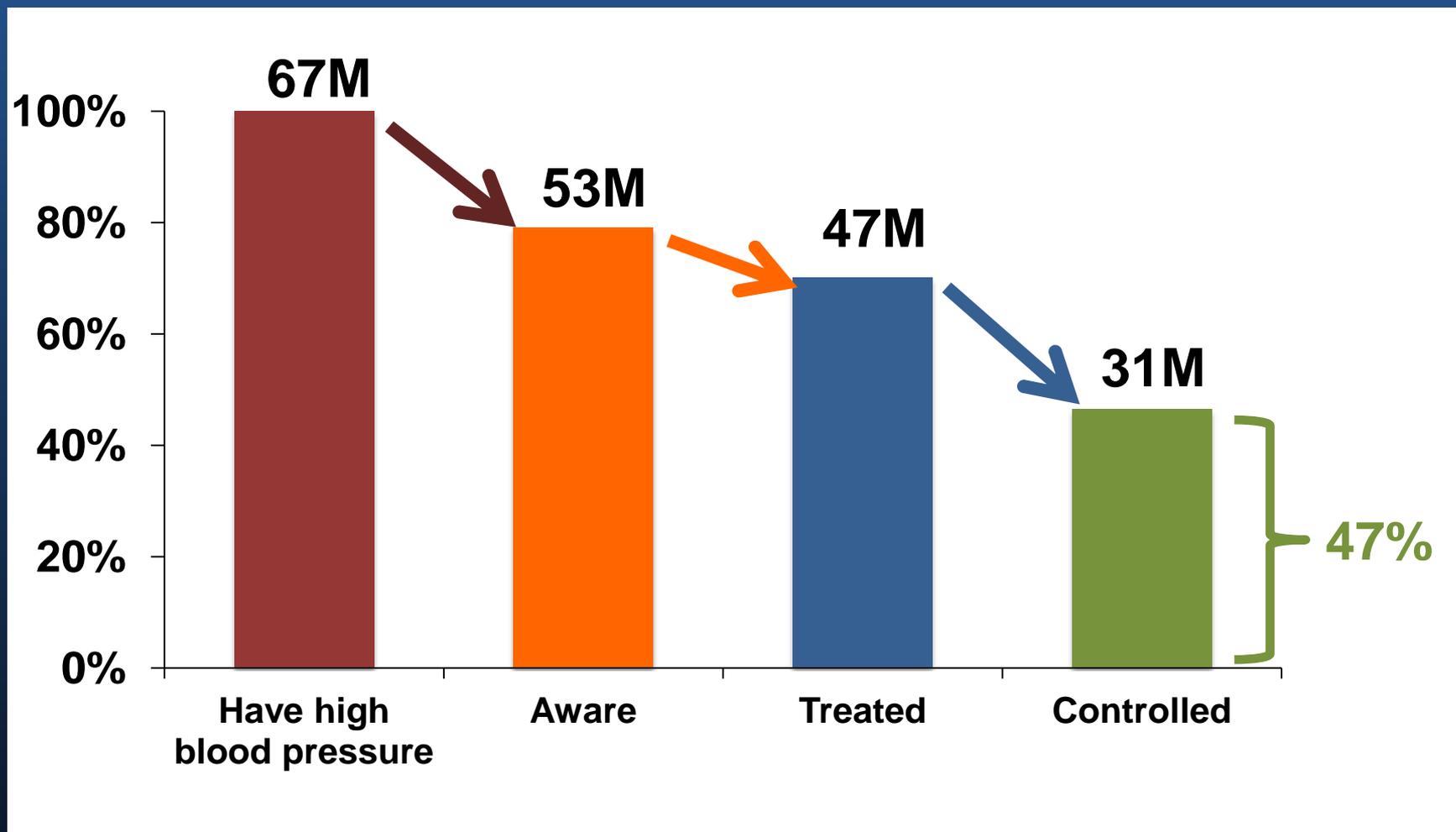


# Indicators – Status of the ABCS

<b>A</b> spirin	People at increased risk of cardiovascular events who are taking aspirin	<b>47%</b>
<b>B</b> lood pressure	People with hypertension who have adequately controlled blood pressure	<b>46%</b>
<b>C</b> holesterol	People with high cholesterol who are effectively managed	<b>33%</b>
<b>S</b> moking	People trying to quit smoking who get help	<b>23%</b>

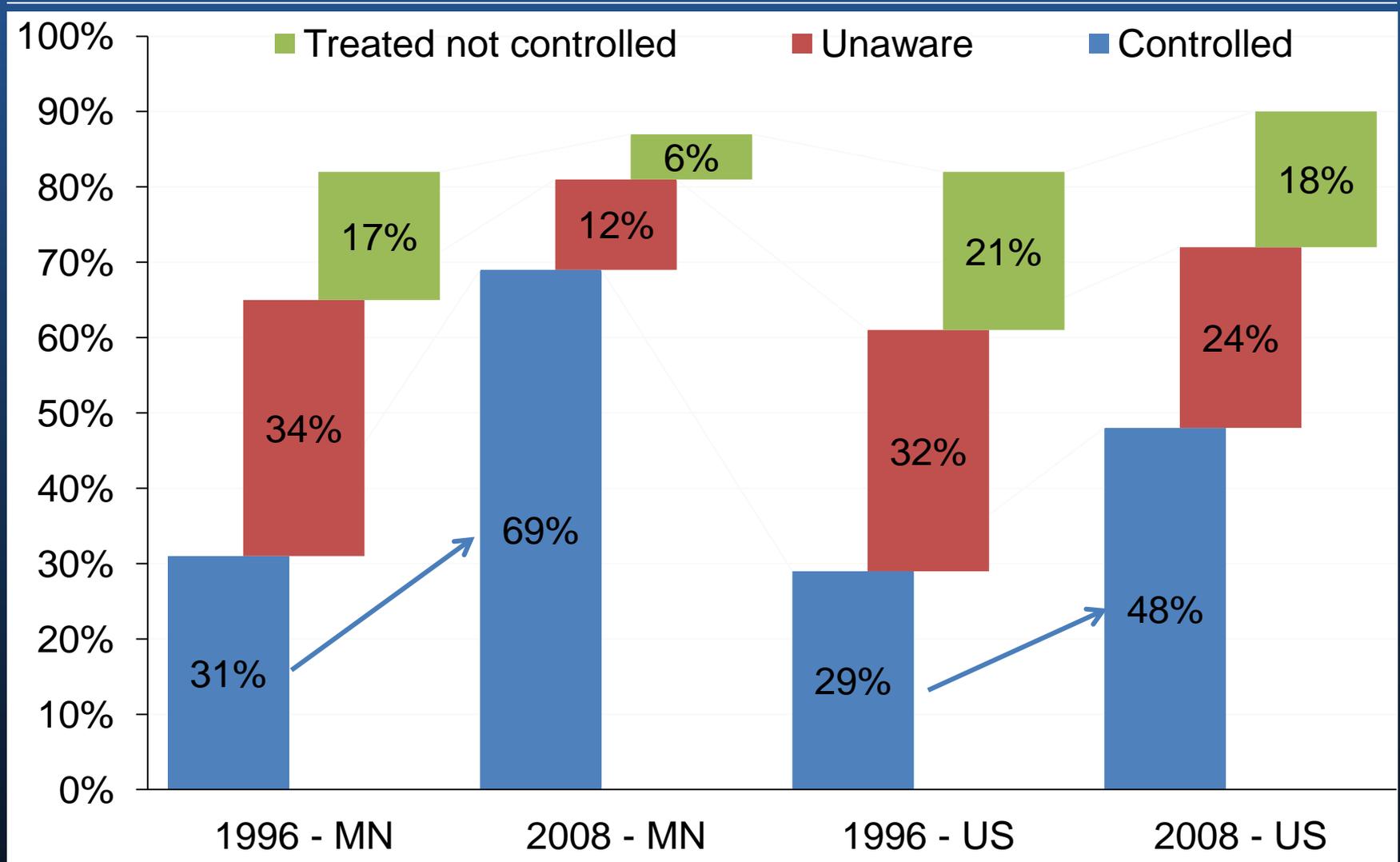
# 67 million US Adults Have Hypertension

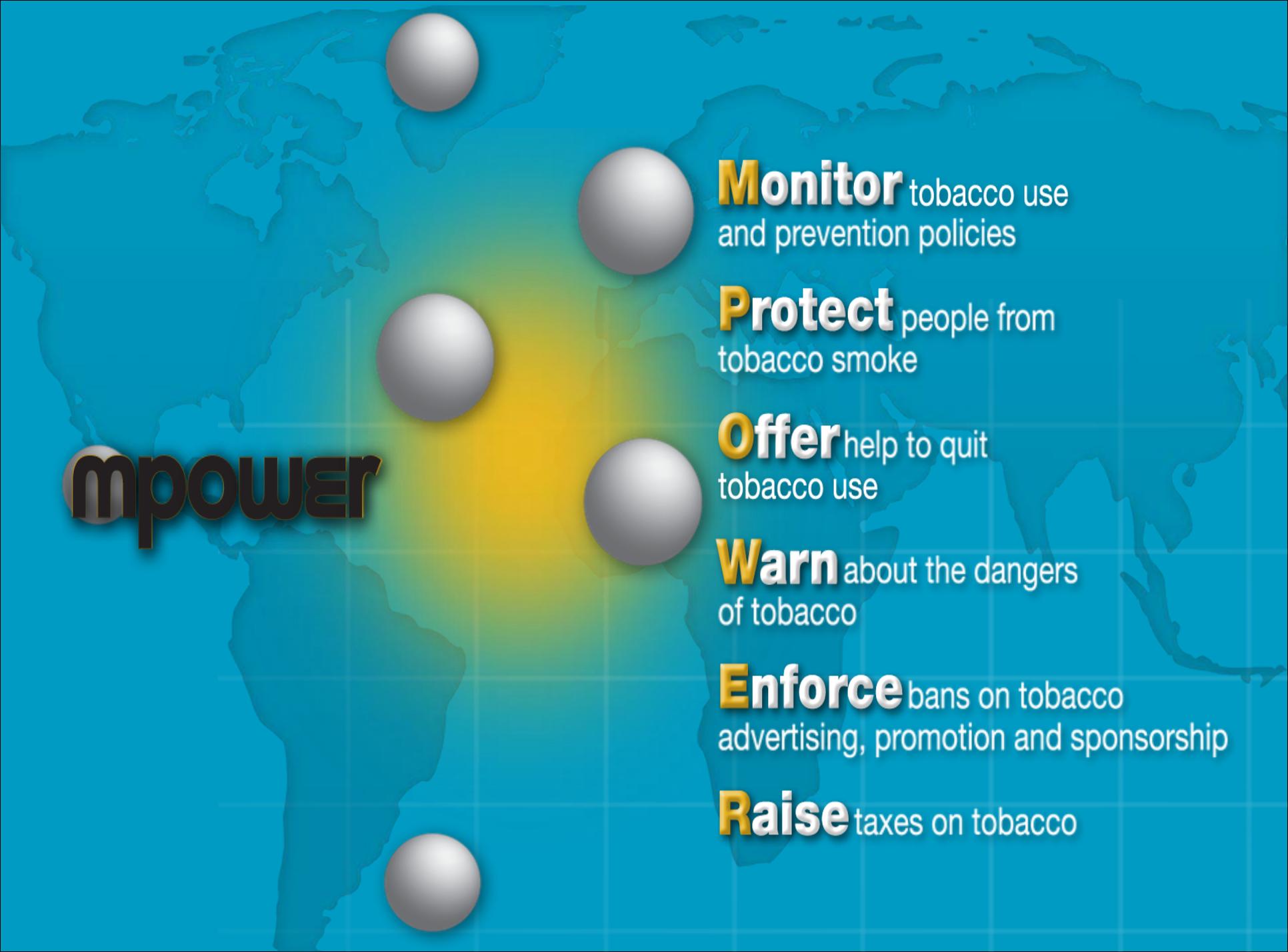
*But many are not aware or treated (hiding in plain sight) and less than half have it controlled*



# HTN Control Increased Twice as Much in MN than US (38% vs. 19% increase)

*Increased awareness and better treatment both key*





**mpower**

**Monitor** tobacco use  
and prevention policies

**Protect** people from  
tobacco smoke

**Offer** help to quit  
tobacco use

**Warn** about the dangers  
of tobacco

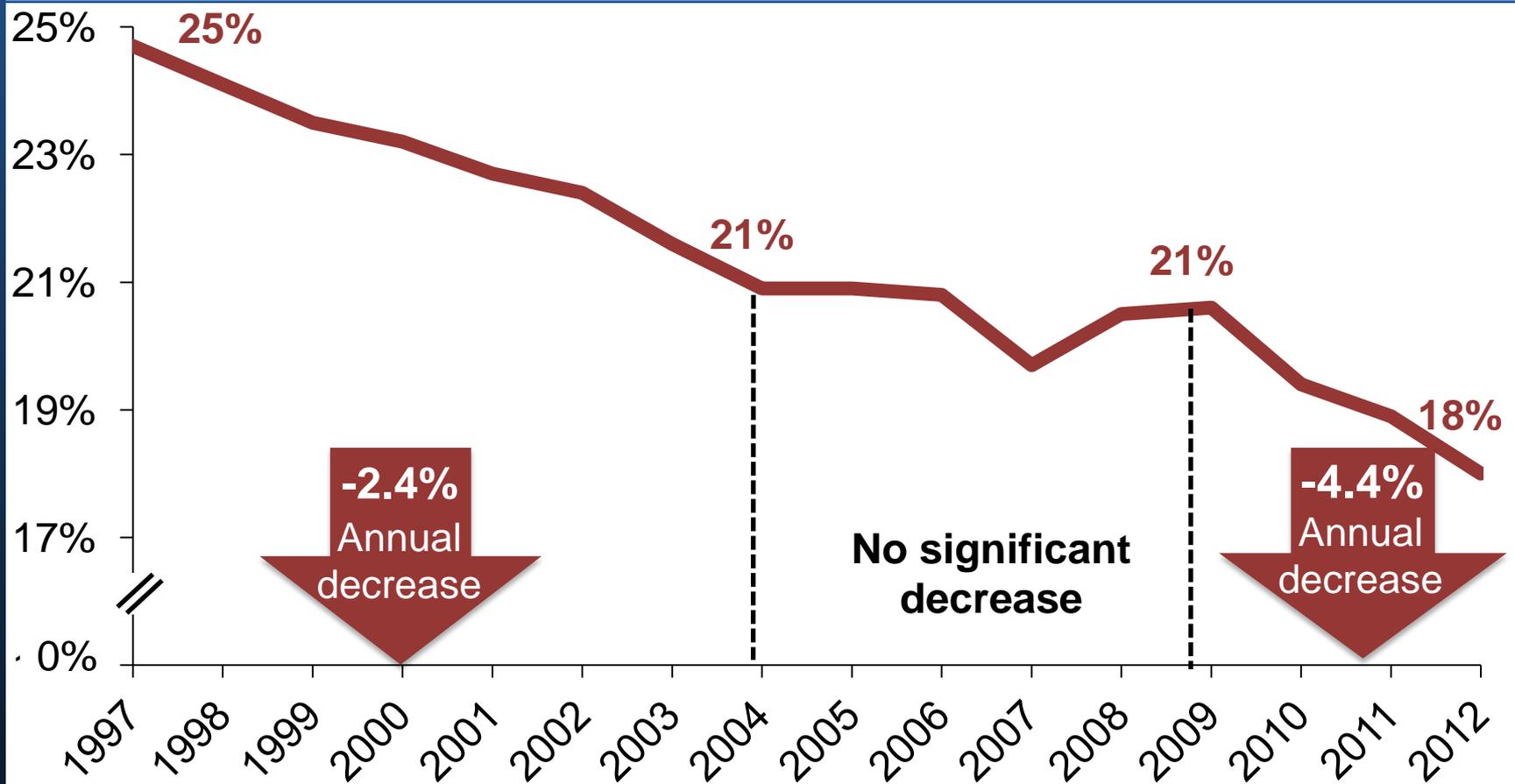
**Enforce** bans on tobacco  
advertising, promotion and sponsorship

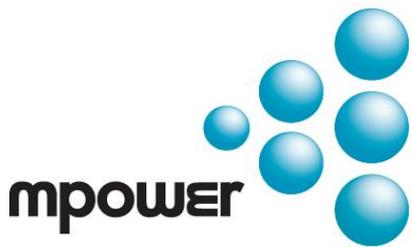
**Raise** taxes on tobacco

# US Adult Smoking Rates May Have Declined in Recent Years

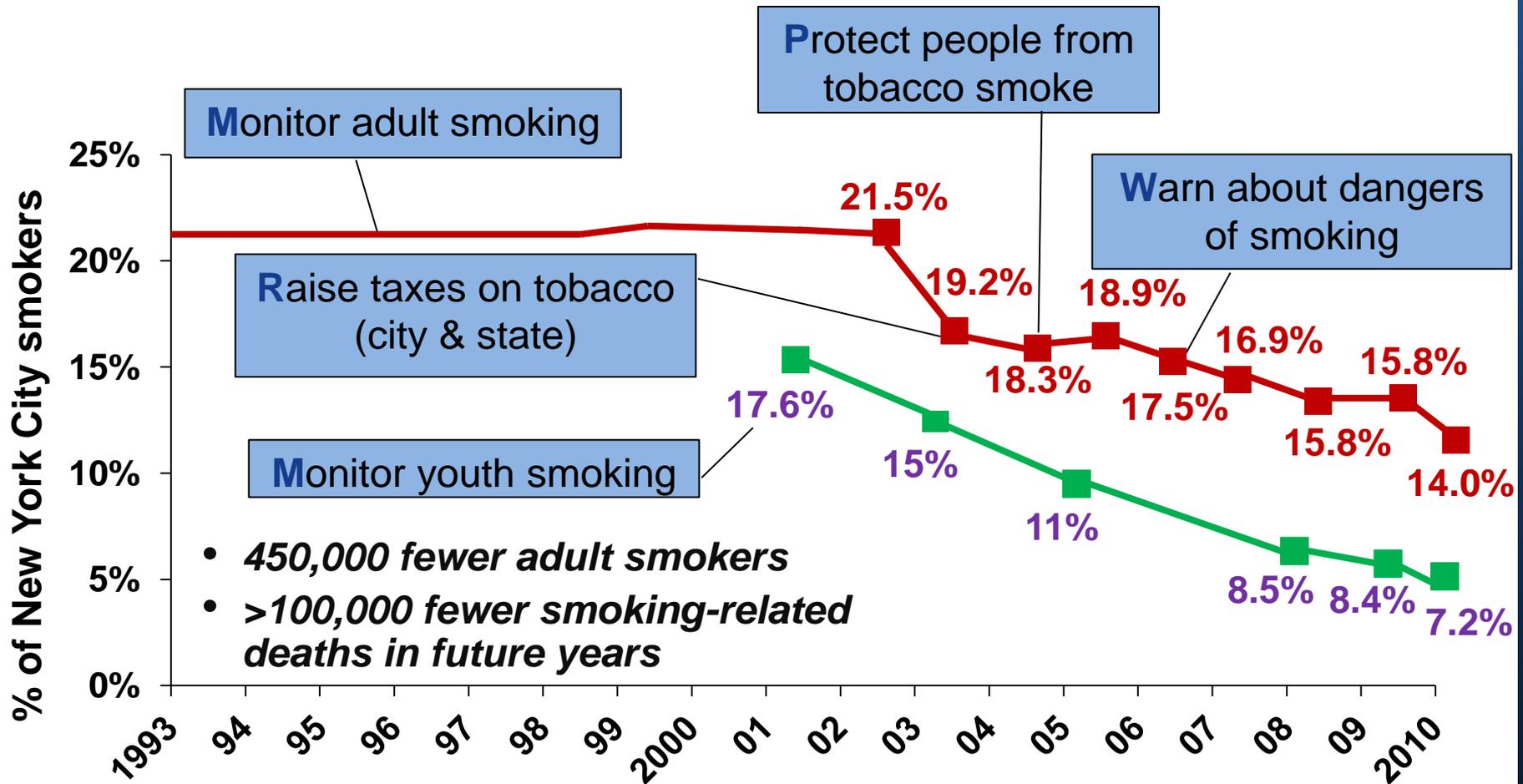
*>4 million fewer smokers*

Prevalence of current smoking among adults age 18+, US, 1997-2012





# MPOWER Reduced Smoking in New York City



# Documenting Smoking Cessation

## *NYC's Health eQuits Program at-a-glance*

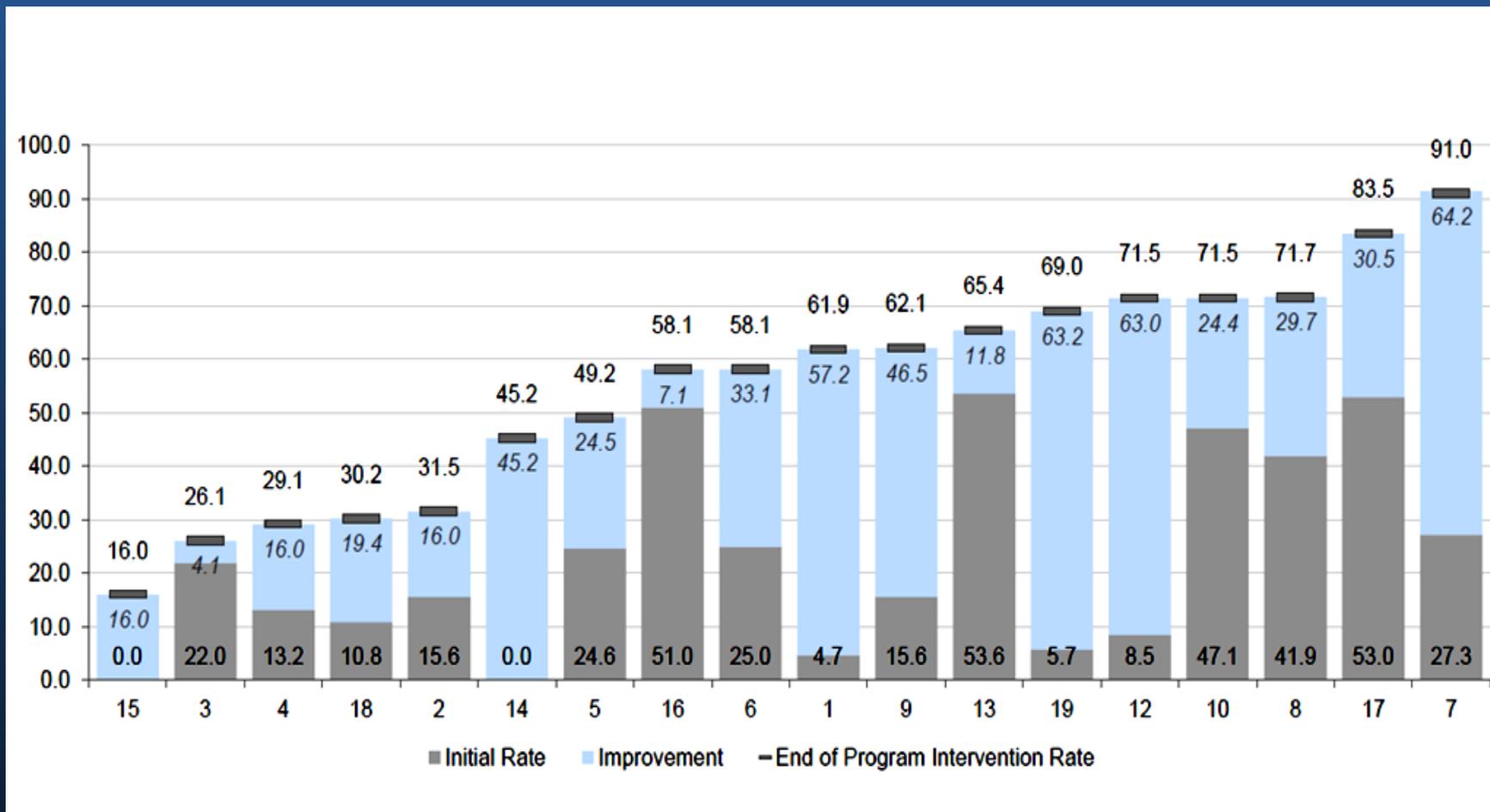
	Before Oct. 1 2010	Jan.-Mar. 2012
Number of organizations with data*	16	19
Number of visits	377,817	461,205
Documented smokers	16,416	64,121
Smokers identified across visits	4.3%	13.9%
Rate of cessation intervention	28.0%	57.0%
Interventions	4,596	36,572

*Data: NYC DOHMH*

*\*22 organizations had enrolled in Health eQuits but 3 were unable to provide data*

*Note: Preliminary results, unpublished data; do not circulate without permission*

# Smoking Cessation Intervention Rate Improved at all Health eQuits Facilities

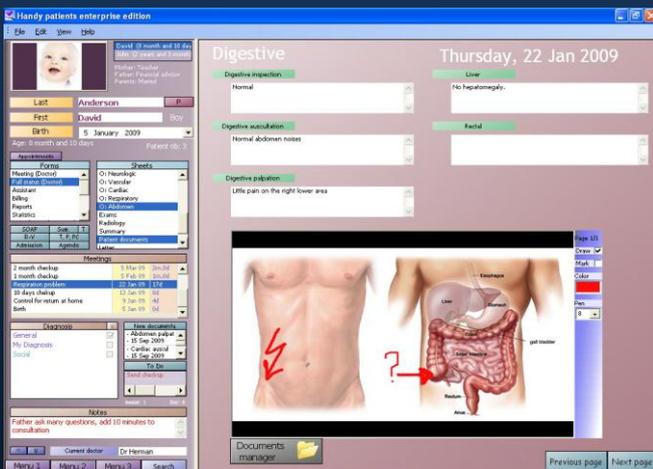
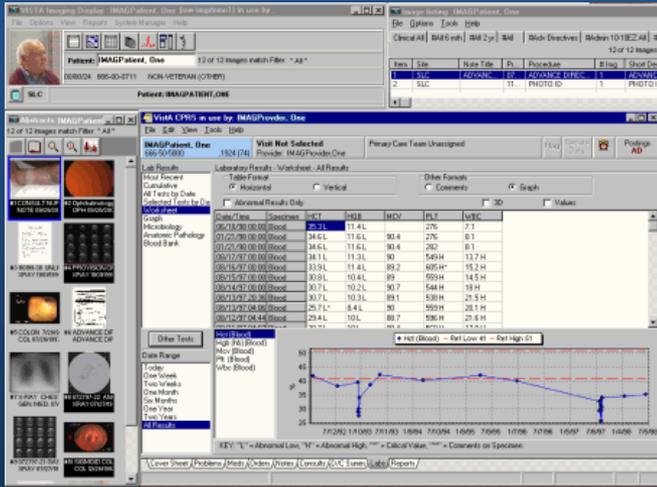


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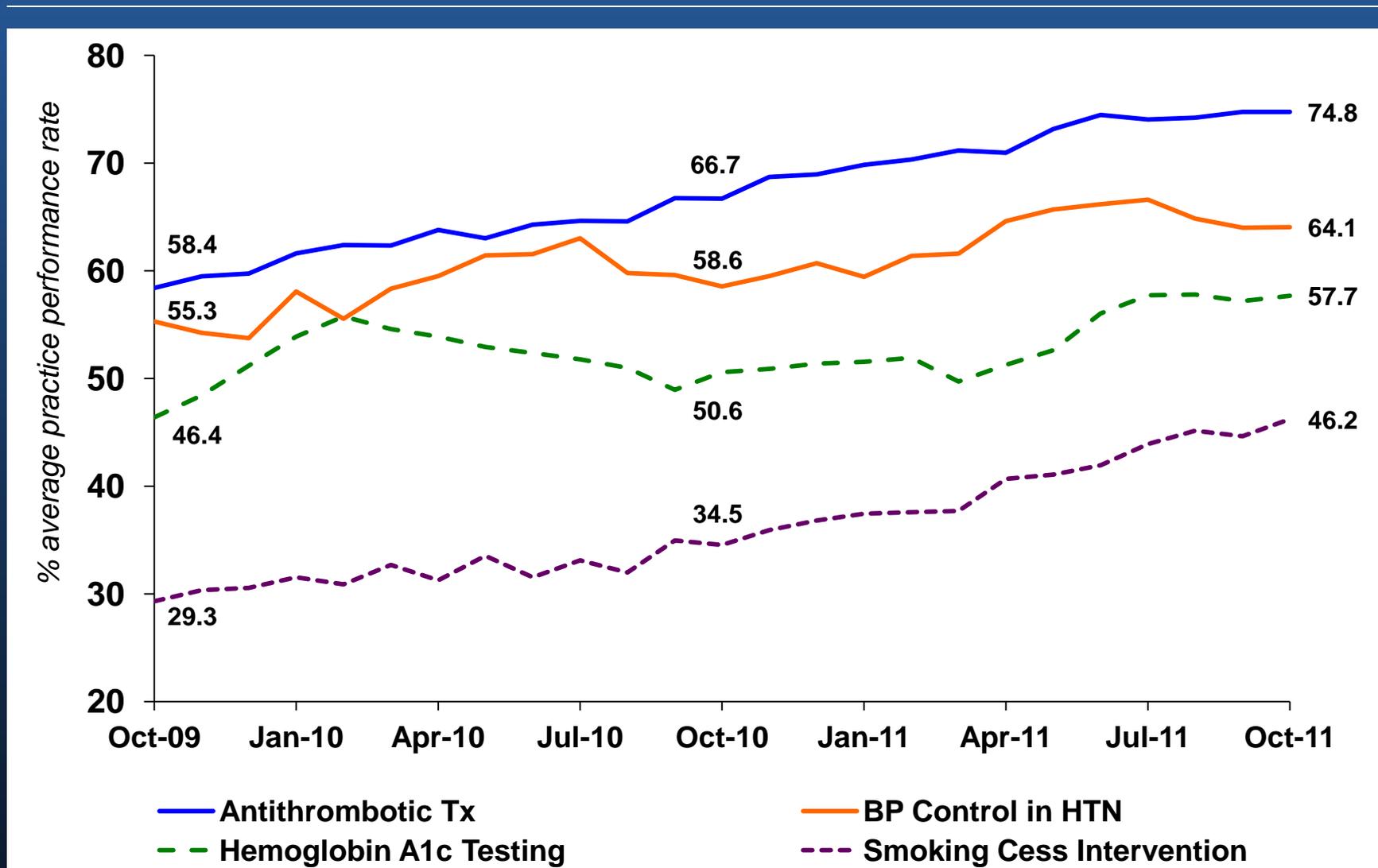
# Electronic Health Records can Improve Health and Health Care

- Facilitates automated disease reporting, registry reporting
  - Correlate with NHANES, other surveillance systems
- Improved real-time monitoring
- Point-of-care tools for clinical decision support
- Can be used to improve population health



# Overall Progress in NYC Through PCIP

*2-year trend shows continuous improvement*

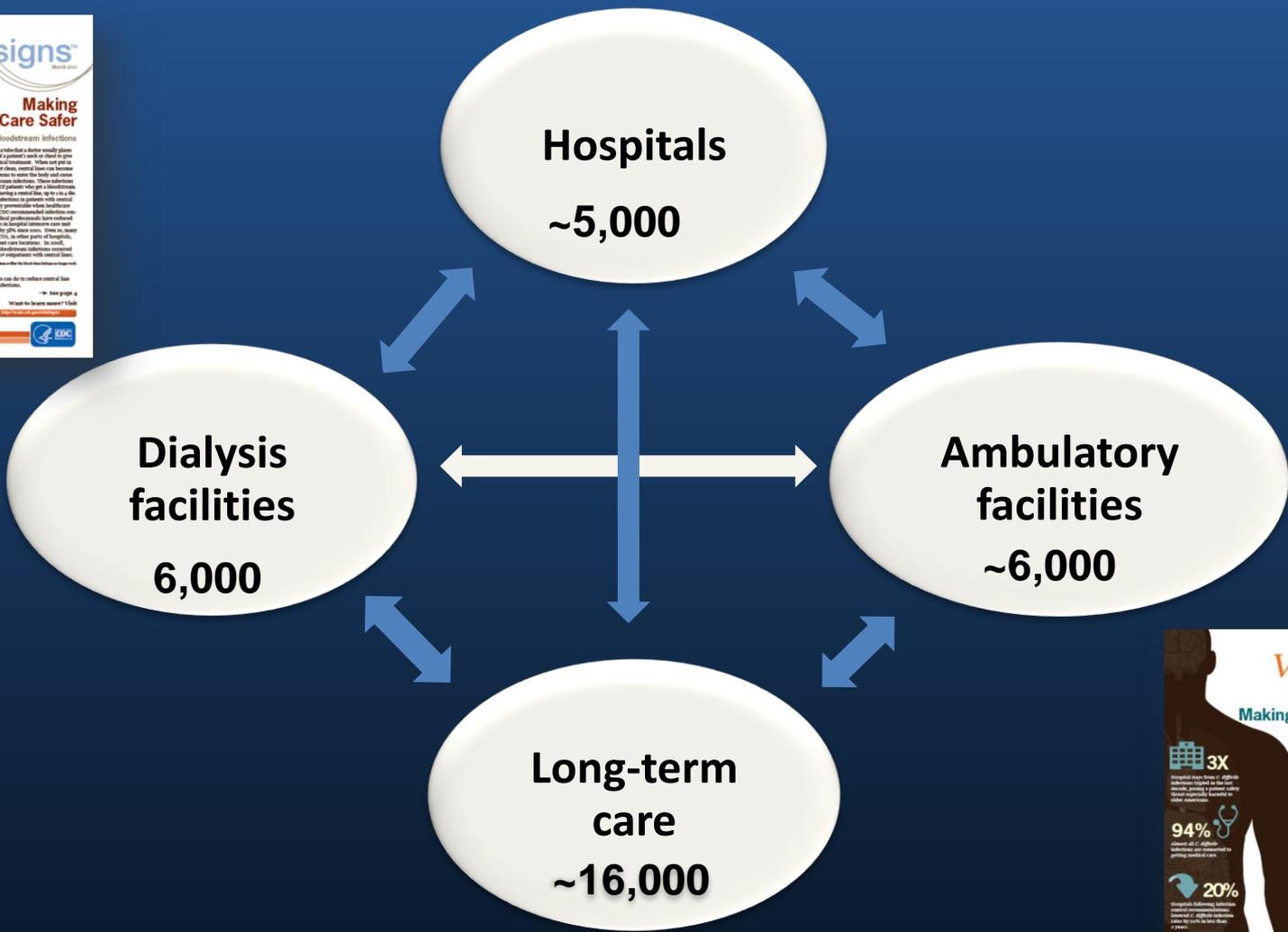


# Public & Private Sector Support is Critical

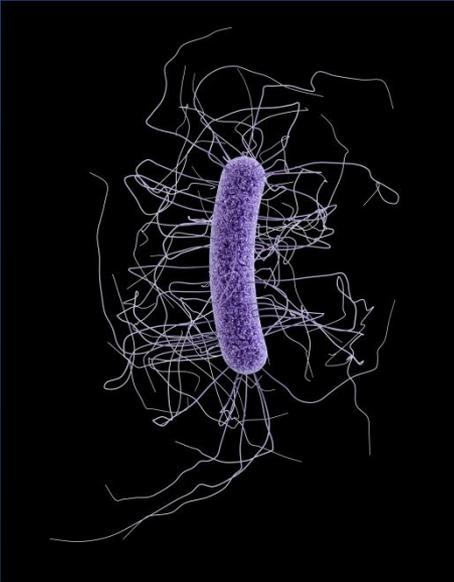
## *Million Hearts Partners (partial list)*



# Healthcare and Healthcare-associated Infections Have Moved Beyond Hospitals



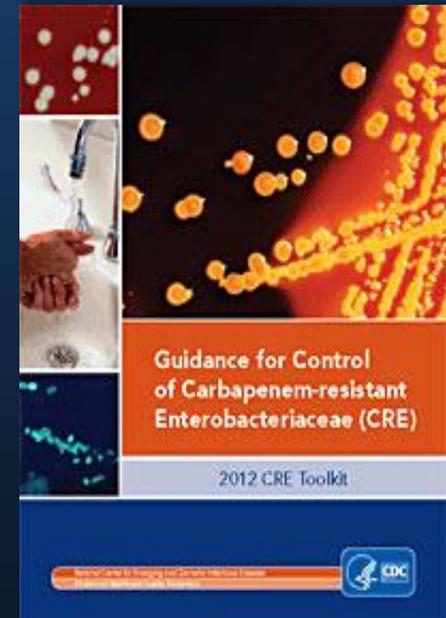
# Implementation of CDC Strategies Reduces Drug-Resistant Infections



- *Clostridium difficile*
  - Estimate 450,000 infections in healthcare and the community (250,000 in hospitalized patients)
  - Prevention across healthcare settings is needed
  - Hospitals following CDC recommendations have lowered *C. difficile* infections by 20% in less than 2 years

- Carbapenem-resistant Enterobacteriaceae (CRE)

- In Florida hospital outbreak – CRE prevalence was reduced from 44% to zero





Saving Lives.  
Protecting People.™

**LEARN MORE ABOUT HOW  
CDC WORKS FOR YOU.**



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