



The Greatest Threat to Health Protection...

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1 800 CDC INFO

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Coordination Collaboration
Challenge of Complacency
Commitment Competency
Challenge of Capacity
Communication Compliance
Compassion Consistency
Clinicians Clinical Laboratories
Connectivity



“... there is little reason for complacency. Victories are often temporary. Our microbial enemies are incredibly adept at developing new defenses and weaponry and at jumping to new species to create new emerging infections.”

Gro Harlem Brundtland
Science 1998;280:2027



Where Do We Go From Here?



Copyright: NASA's Visible Earth Project



Bigger Problems!

Domestic extremes

e.g. aging, poor nutrition/lack of fitness, etc.

Create urgent realities

e.g. chronic diseases, injuries, disability, “old” infections

Global extremes

e.g. poverty, climate change, ideological conflict

Create urgent threats

e.g. terrorism, emerging infections, natural disasters



Higher Expectations!

People demand

flawless performance, personalized service,
real-time value, and complete transparency

TIME MATTERS!

**Lives are at stake
Fast-enough action is essential**



Complacency is the enemy of health protection!



www.pandemicflu.gov



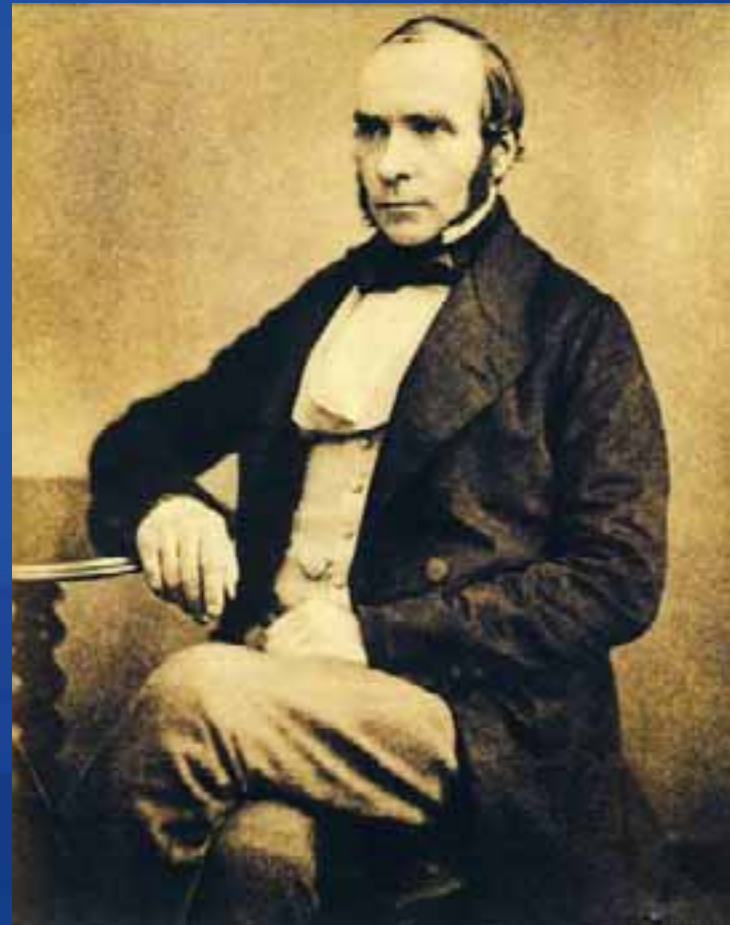


"Never, ever, think outside the box."

Who was one of the very first persons in public health to use spatial analysis?

John Snow, MD

- 1854 cholera outbreak in London, England

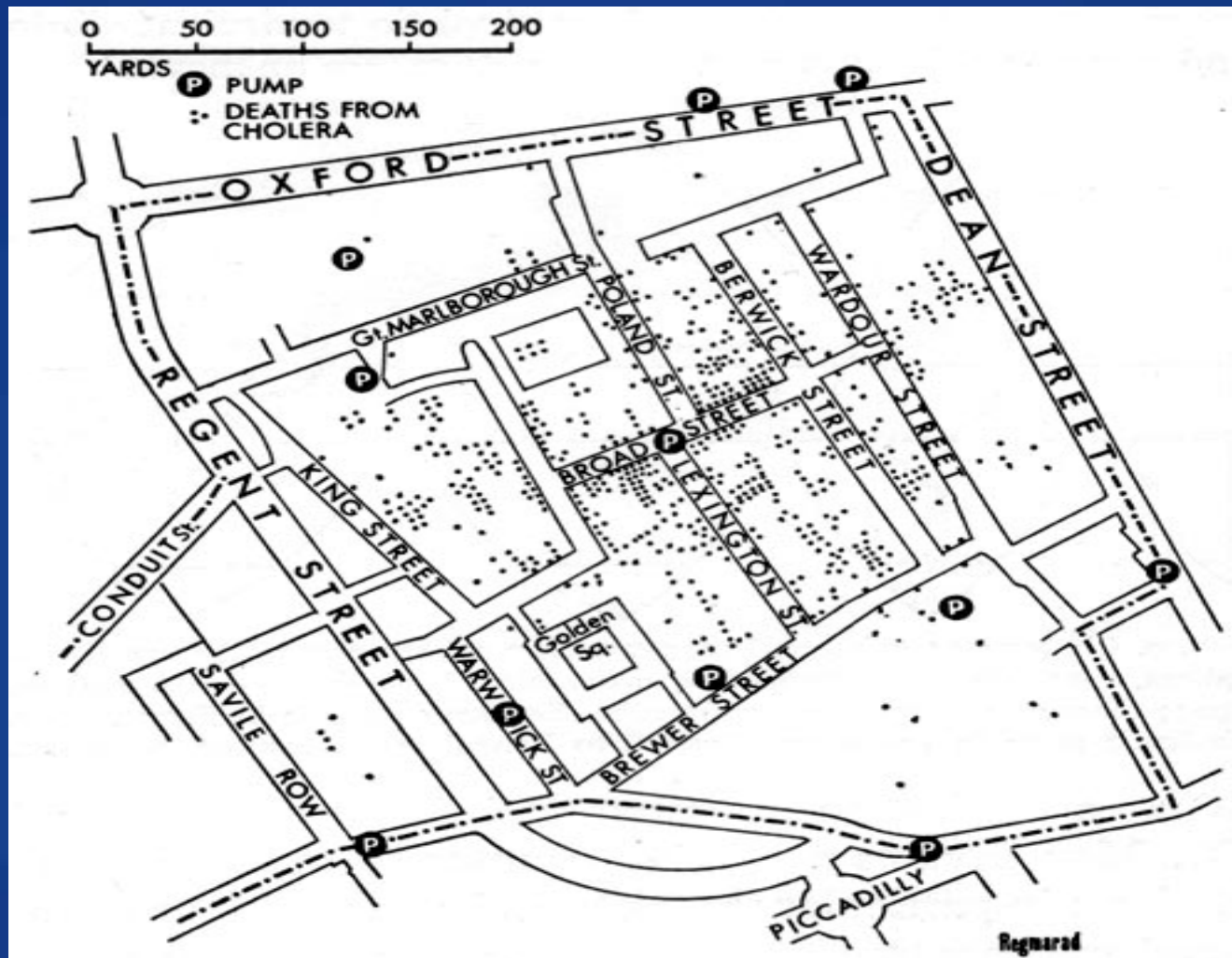


The “short” version of the story

“In 1854, Londoners were dropping like flies from cholera until Dr. Snow figured out that the bacteria were carried by water. The water pump he turned off, thereby saving countless lives, was near the site of this pub.”

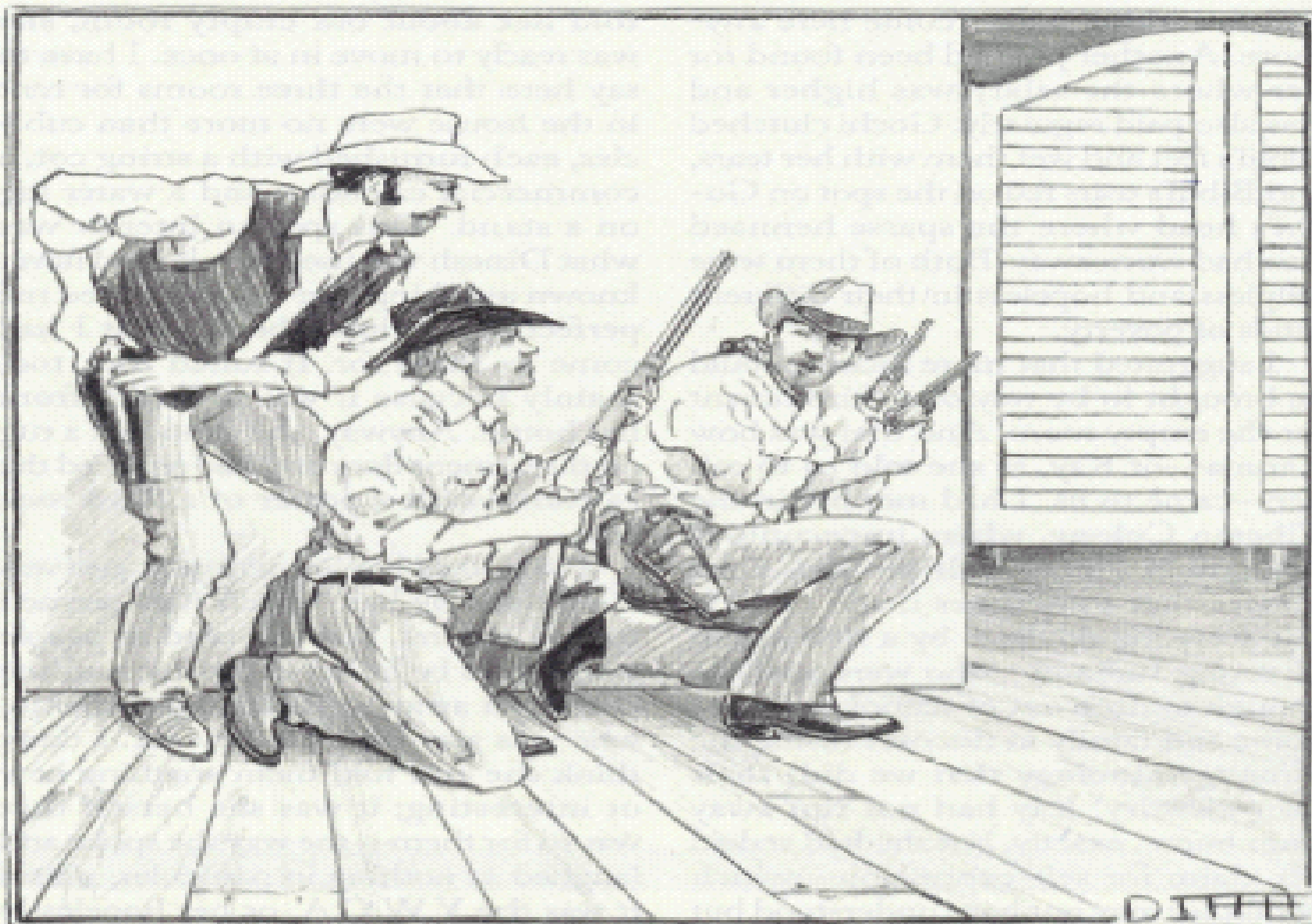
- John Snow Pub entry in *Access London* tour guide, Harper-Collins, 2005





"...I found that nearly all the deaths had taken place within a short distance of the pump."





"O.K., fellers, we shoot first, then Q. and A."



Health Protection

What is Health Protection?

Health promotion...

Prevention of disease, injury, and disability...and

Preparedness for infectious, occupational, environmental, and terrorist threats





Health Equity



What is Health Equity?

Absence of health disparity...



Health equality among groups with more or less social advantage

Fairness in the opportunity to achieve optimal health status



Health Protection Goals for the 21st Century



*Healthy People in
Every Stage of Life*



*Healthy People in
Healthy Places*



*People Prepared for
Emerging Health Threats*

*Healthy People in a
Healthy World*



Health Status and Healthcare

Ensure health protection
is a value-based
health system priority

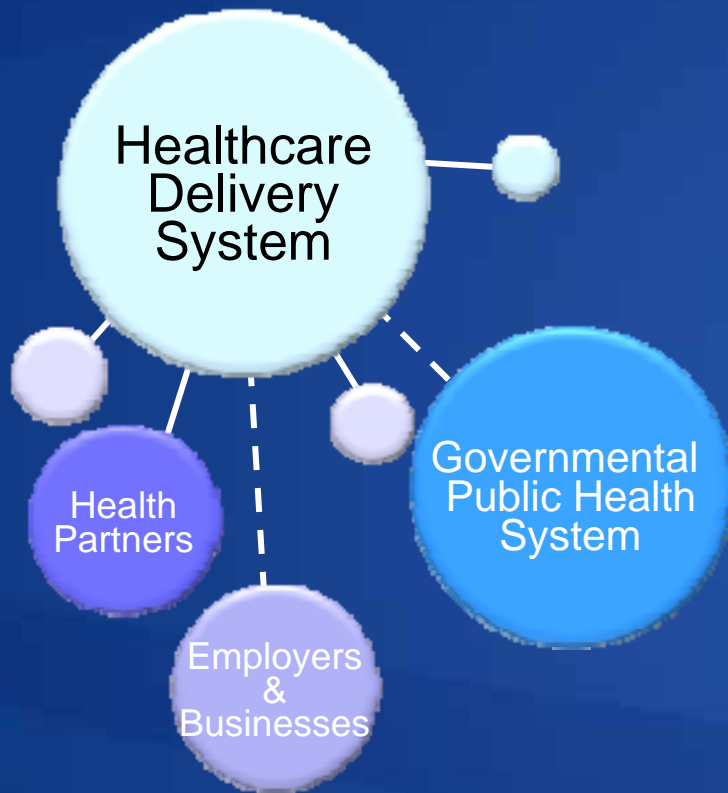


Traditional healthcare

Disease Care



Traditional Healthcare



Capable of miracles, but...

Emphasis: end-of-life disease care

Access: unaffordable & unavailable for many

Results: variable & not transparent

Cost: variable & not transparent

Best results: not usually rewarded

Value: consumers lack information when making choices about care



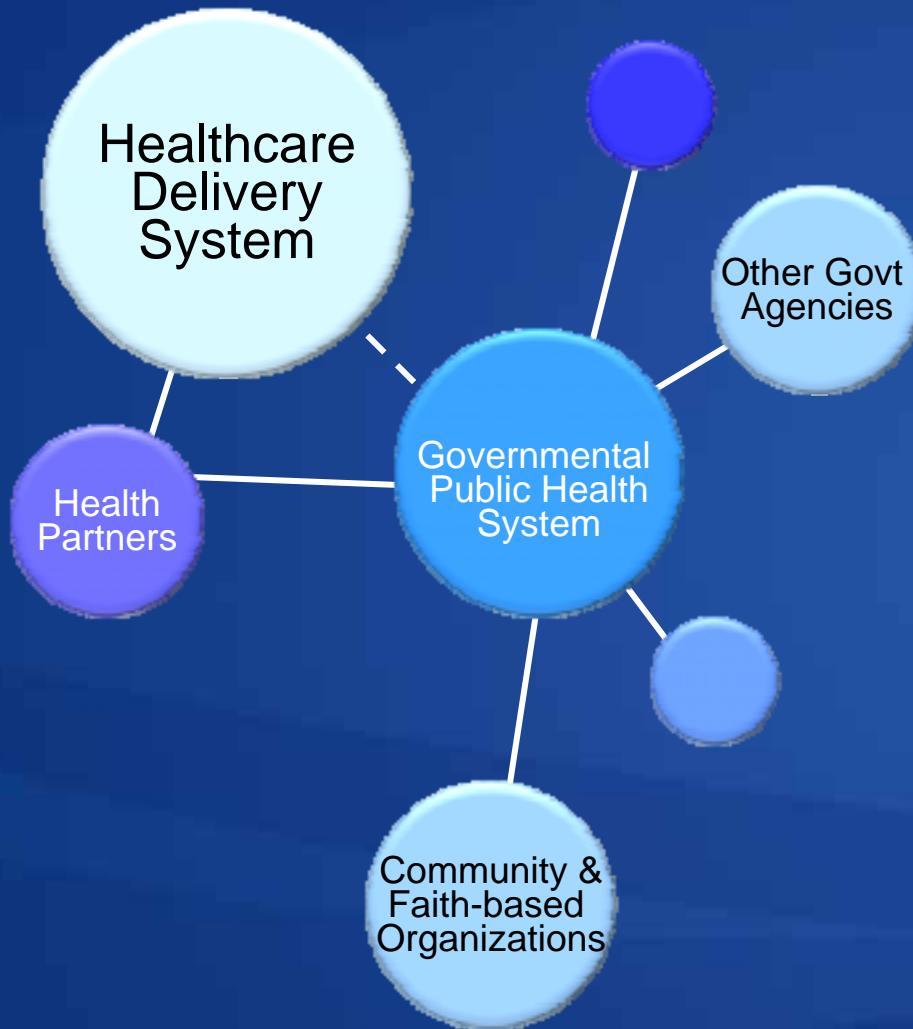
Traditional Public Health



Public Health System



Traditional Public Health



Capable of miracles, but...

Capacity: under-valued and under-resourced

Results: variable & not transparent

Cost: variable & not transparent

Best results: not usually rewarded

Value: consumers lack information when making choices about tax investments



**“the significance of the
problems we face cannot be
solved at the same level of
thinking we had when we
created them”**

Albert Einstein





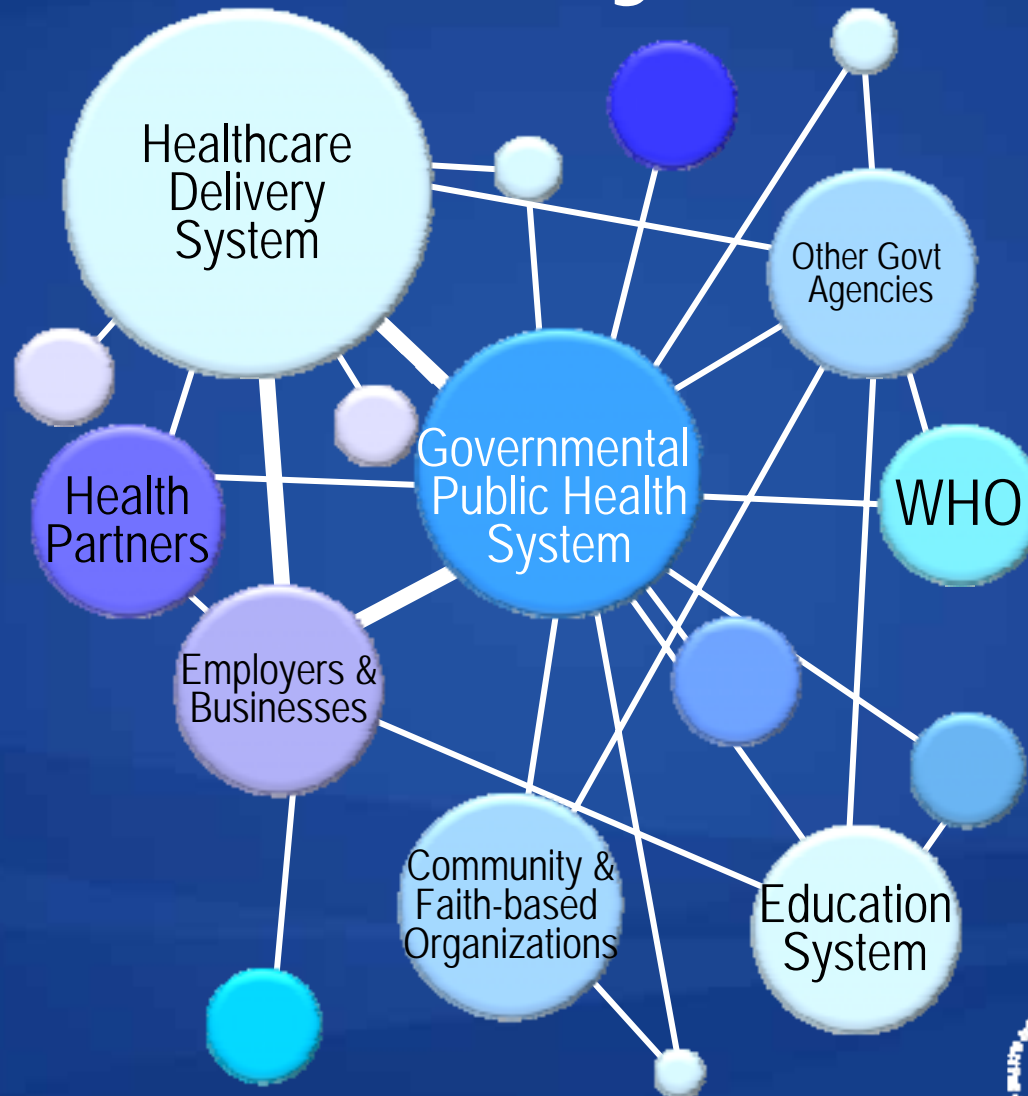
What is a Health System?



The network of people and organizations...
including those that protect people's health
(public health system) and those that diagnose
and treat disease (healthcare system)...
that together create an effect greater than the
sum of their individual efforts...
and achieve the common objective of optimal
health value and equity for all

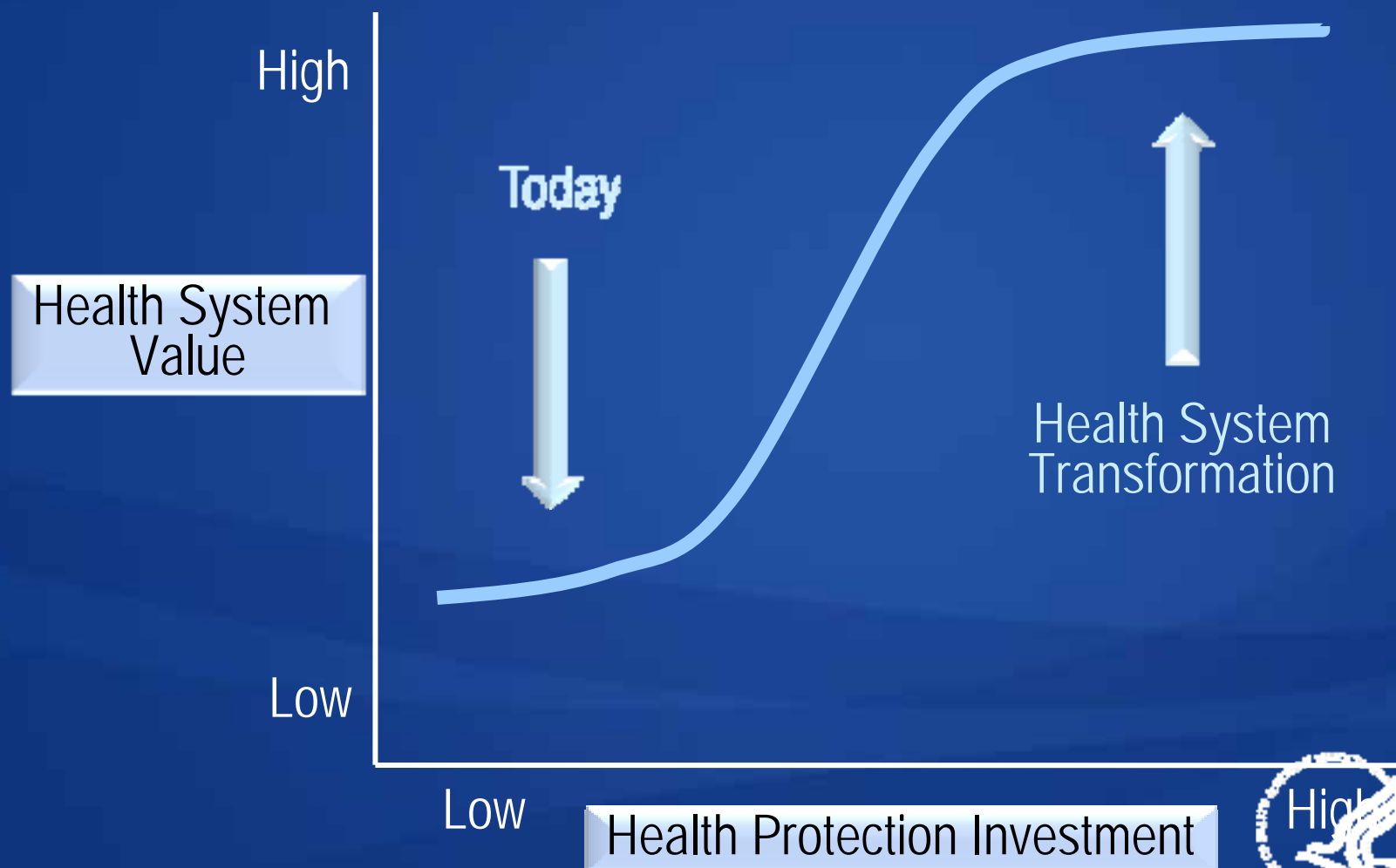


A Health System

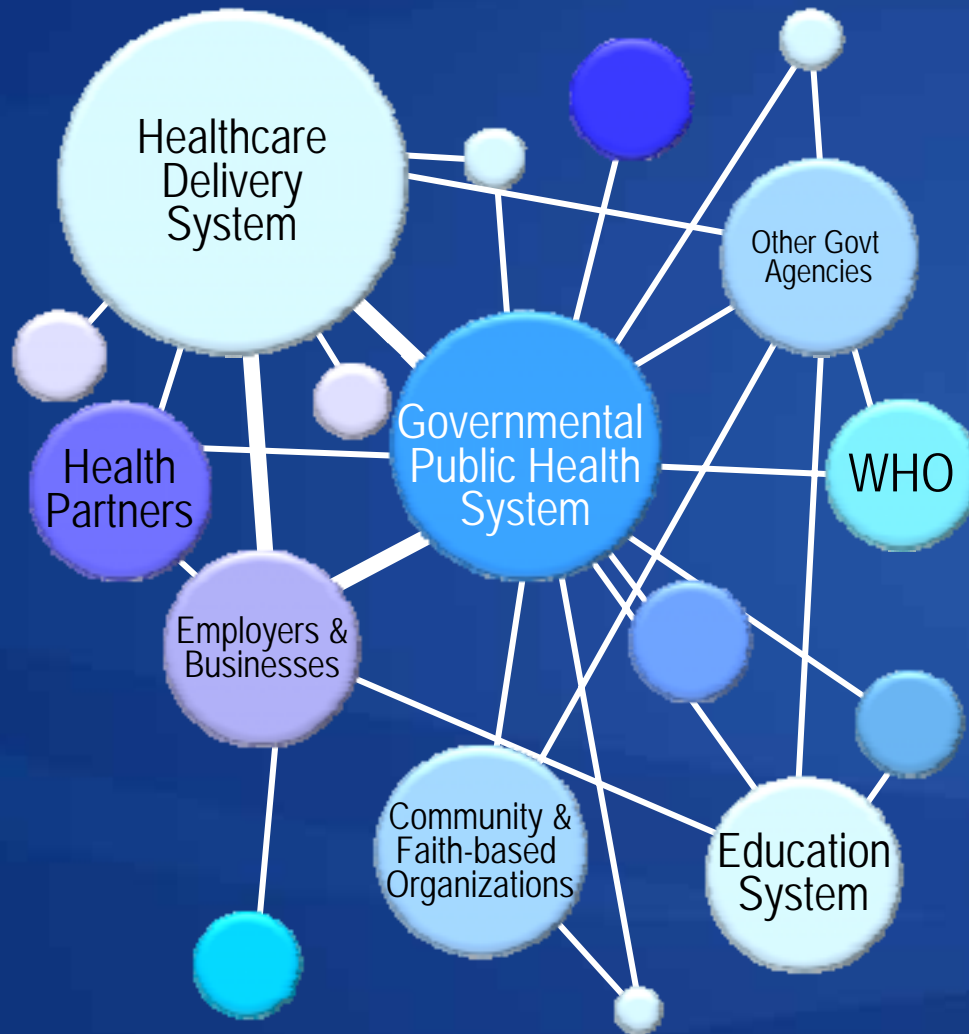


Tipping Point!

Health Protection Investments Produce Health System Value



A Value-based Health System



Capable of miracles!

Emphasis: health protection (health promotion, prevention, preparedness) as well as disease care

Access: affordable & available for all

Results: measured & transparent

Cost: measured & transparent

Best results: rewarded

Value: equitable; transparent to consumers when making choices



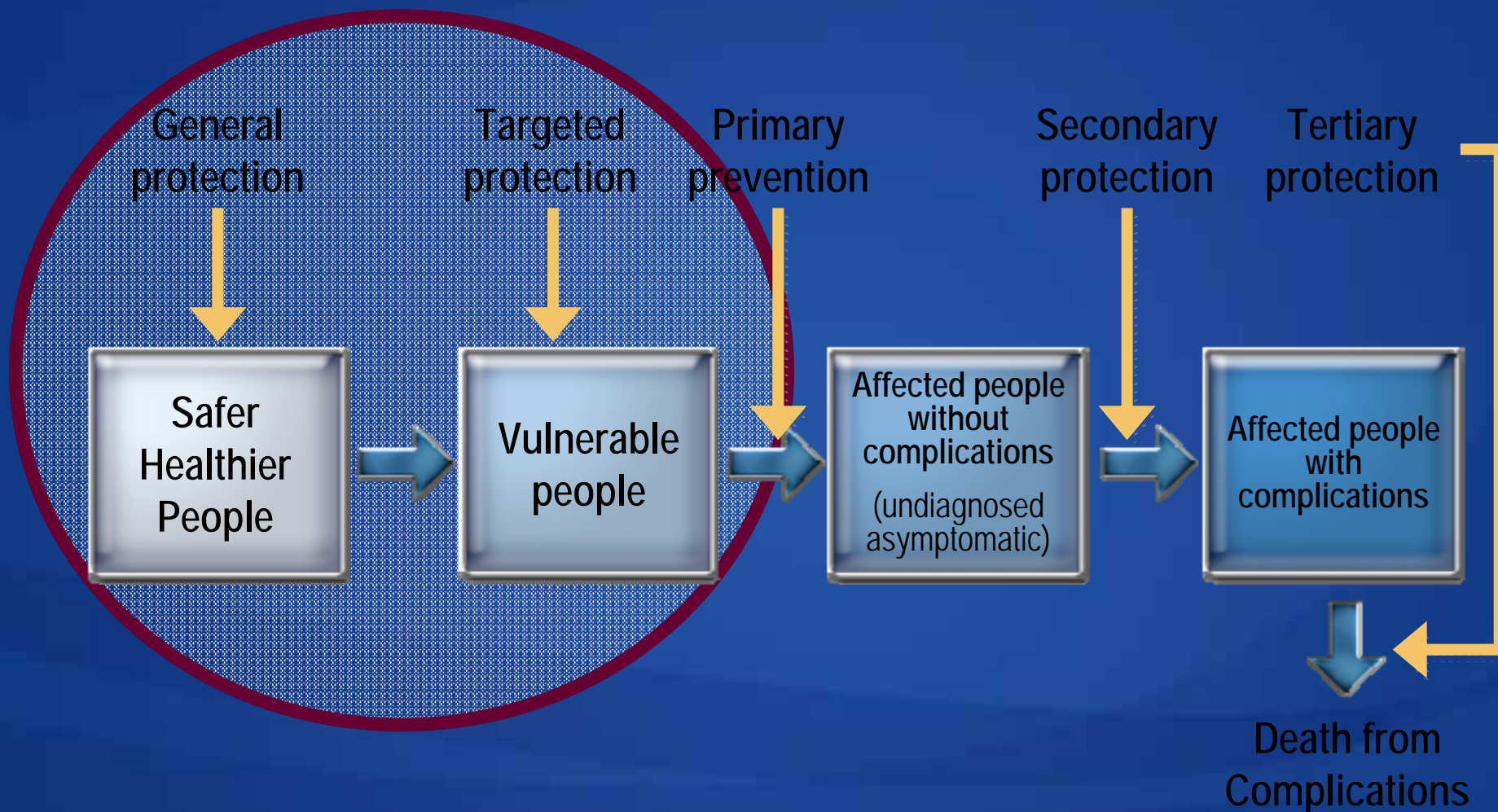
A Health System: Health Protection for Life!



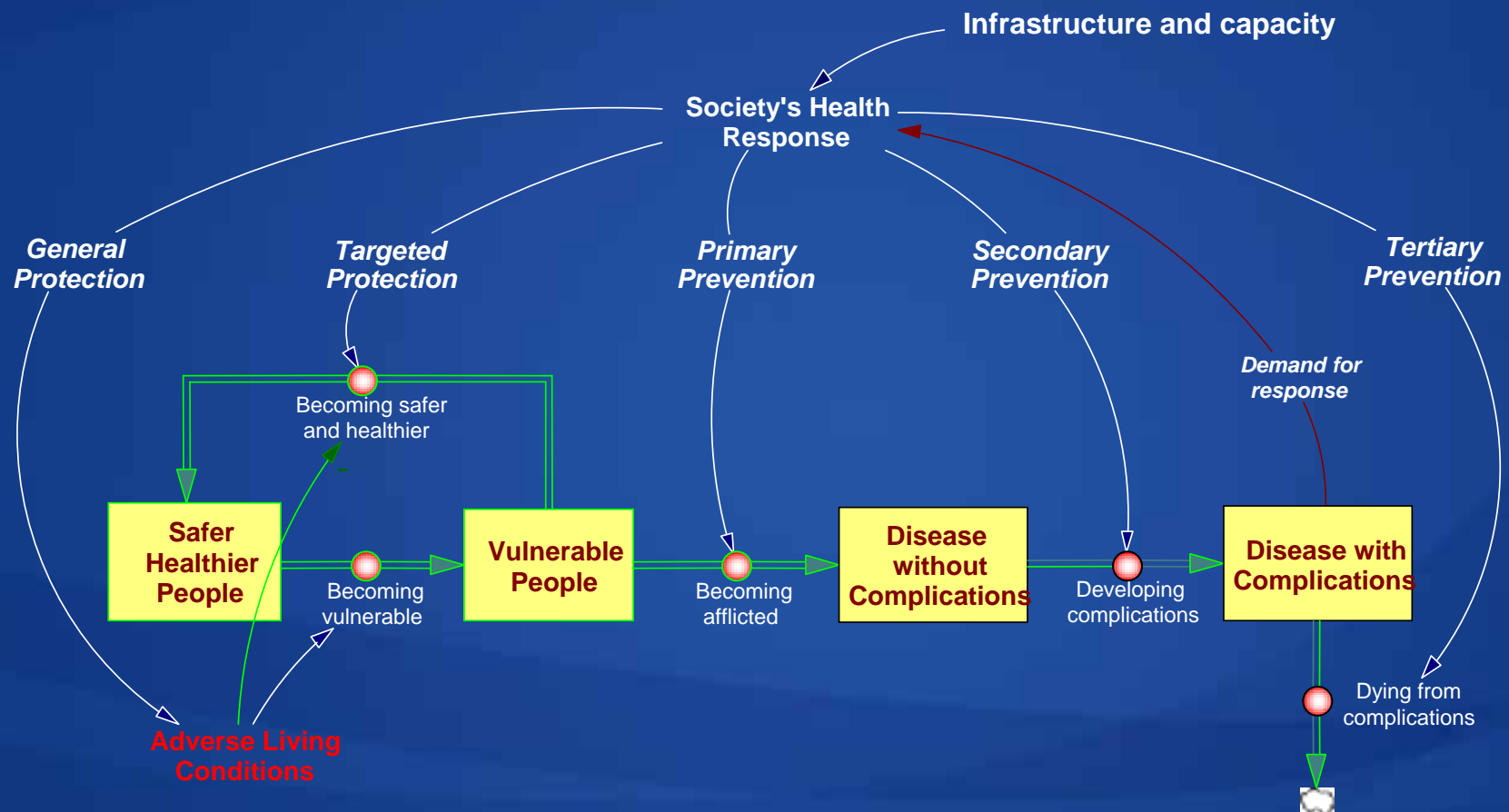
*Health Protection: Health Promotion,
Prevention, and Preparedness*



Rebalancing Health Priorities



Health System Dynamics



Keisha

Age 6
1st grade



Dad in jail

5 siblings

older teenage sister has a baby



Renaldo

Age 11
6th grade



Mother killed at age 6

Father lives in East Tennessee

3 cousins in household



Amanda

Age 8



Mother on disability

Older brother, age 17, in jail

Older sister, age 15, pregnant

All three children have separate dad



Kenny

Age 12
4th grade

Father in jail
1 of 6 children



Thomas

Kindergarten

Crack baby

Kicked out of school for attacking
teacher



Raphael

Age 10
4th grade



Mother in jail

Waited all day to talk to mentor,
wanting only to tell her about
seeing his sister being shot the
night before

Expelled at end of school year
because someone said something
about his mother



Christopher

Age 12
5th grade



1 of 6 children

Father on disability

Suspended 2 x week, in school,
for anger

All brothers expelled from school

2 older/2 younger



Courtney

Age 5
Kindergarten



Mother incarcerated

Aunt raising 7 children,
none are hers



Jarvis

Age 6
1st Grade



Two older brothers, ages 16 and 17

Lives with aunt because both parents incarcerated on drug charges

October 2005, placed back in first grade...



Jackie

Age 12
4th Grade



Family has been put out of MDHA

Was in room when uncle was shot

Has been raped

WHEN SHE GROWS UP.....
.....she wants to be a doctor



Nashville, TN 2004



...but Any City, USA today



Social Cost and a Disparity

Incarceration

- Handicaps
- Violence, truancy, suspensions
- Mixed families
- Failure (academic)
- Needing and/or wanting attention
- Lack of tools
- Adult indifference
- Low self-esteem



“When health is absent

wisdom cannot reveal itself

art cannot become manifest

strength cannot fight

wealth becomes useless

and intelligence cannot be applied.”

Heruphilus 325 BC,
Physician to Alexander the Great



PUBLIC HEALTH

IS

LIFE BETTER



Geographic Information Systems

Inform Public Health!



CONCLUSION

- ✓ What I want you to feel
- ✓ What I want you to know
- ✓ What I want you to do



CONCLUSION

- ✓ WHAT I WANT YOU TO FEEL?
 - ENGAGED
 - YOUR WORK ADDS VALUE
- ✓ WHAT I WANT YOU TO KNOW?



What I want you to know?

- The greatest threat to Health Protection is

_____!



CONCLUSION

✓ WHAT I WANT YOU TO DO?

**KEEP US MOVING
FORWARD!**





CDC – Protecting People's Health

**Everyone, Everyday, Everywhere
Safer • Healthier • People**

Thank you!

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