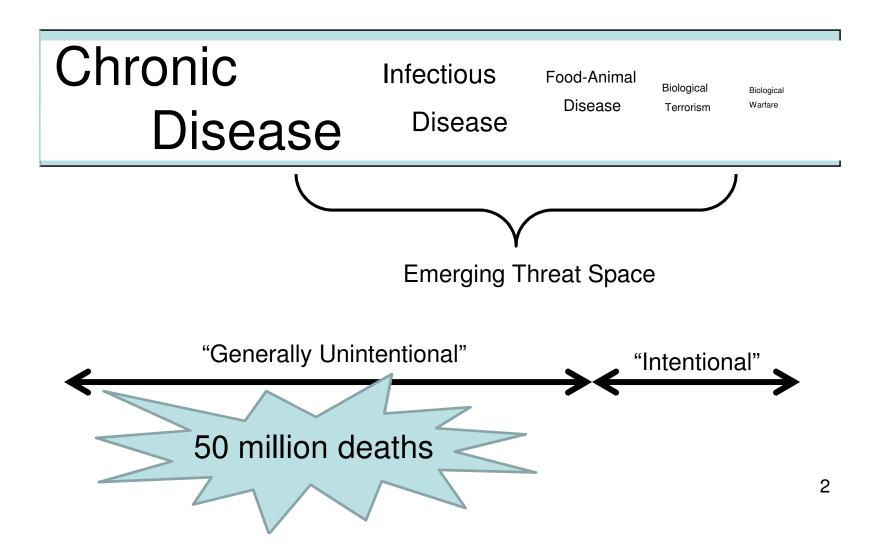
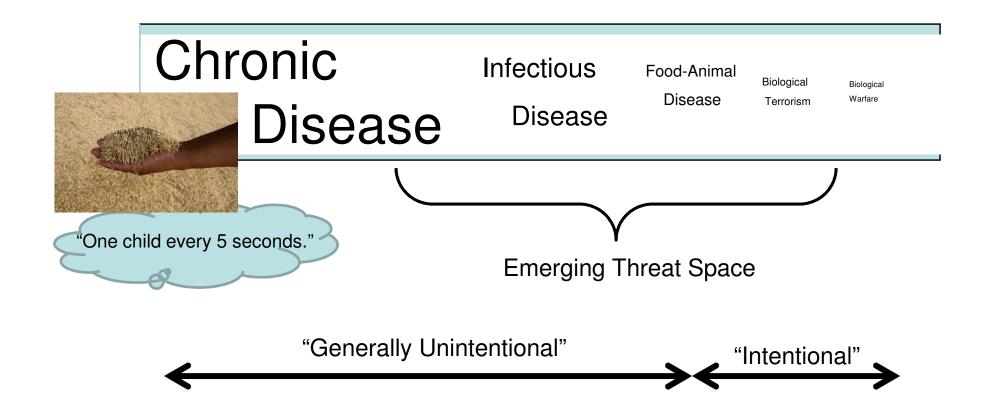
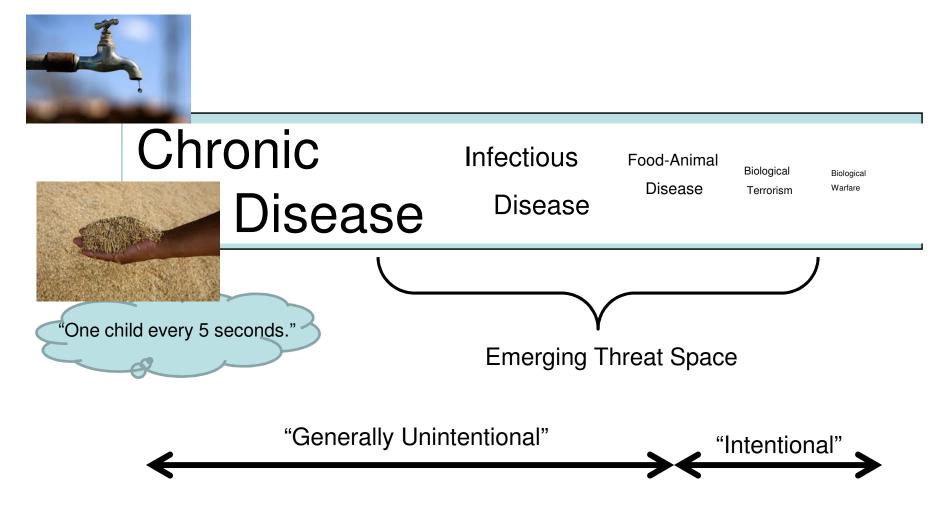
Global Food and Health Security IS National Security

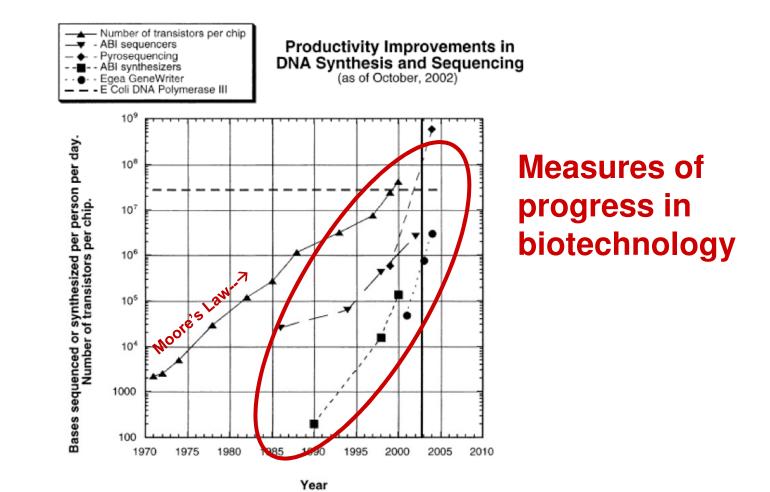








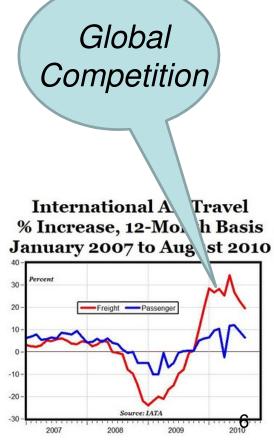
The Carlson Curve



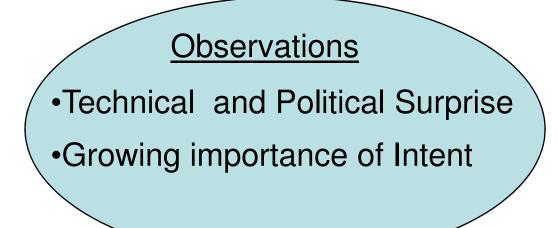
Carlson, Pace & Proliferation of Biological Technologies, Biosec. & Bioterror. 1 (3):1 (2003)

Global Travel and Transport





Our National Experience





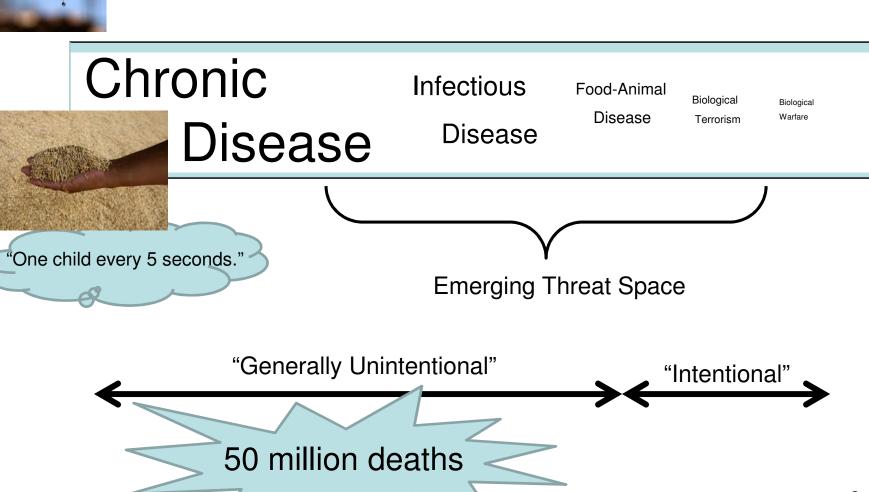


"We don't know more about the biological weapons threat than we did five years ago, and five years from now, we will know even less."

Senior CIA Official/WMD Commission

A 'World' of Health Risks Opportunities...to work together





8

Community Perspectives

on Health Engagement

Security

Health

"It won't stop Terrorists."

"I don't want to 'do' security."



International Colleague

"I trust you,

but not your government."

Legislator

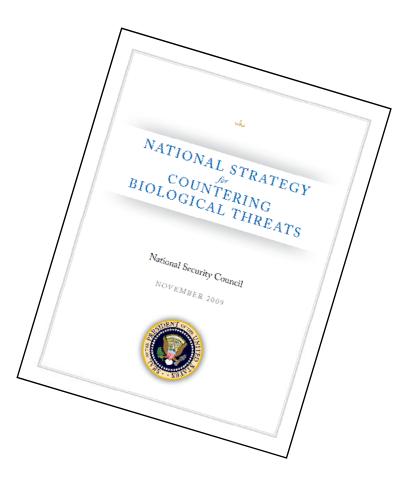
"It's not national security."

The Space between Health and Security

- The 'dual-benefit' of countermeasures
 - Public health, diagnostics, disease surveillance
 - Education, basic research
- The same expertise and technologies
- The value of global health awareness
- · Health as an engagement tool
- The soft power benefits

The Administration's Strategy for Countering Biological Threats

- **Goal: PROTECT** against the misuse of the life sciences to develop or use biological weapons.
- Objectives:
 - Promote global health security
 - Reinforce norms of safe and responsible conduct
 - Obtain timely and accurate insight on current and emerging risks
 - Take reasonable steps to reduce the potential for exploitation
 - Expand our capability to prevent, apprehend, and attribute
 - Communicate effectively with all stakeholders
 - Transform the international dialogue on biothreats



Health & Food Engagement: What do we have to gain?

<u>Hypothesis:</u> The **PROCESS** of working together, on **HARD LIFE-SCIENCE PROBLEMS**, **INTERNATIONALLY**, **ACROSS THE SPECTRUM** of biological challenges will:

1) Reduce the <u>impact</u> of the left end of the disease/food/water-lack burden;
2) provide some <u>transparency</u> regarding capabilities to do harm (with biology);
3) and, maybe, <u>undermine some popular support</u> for terrorism (broadly).
4) Therefore.... reduce the <u>likelihood</u> of the misuse of all technologies...

Some are testable... 12



Pakistan

Haiti

...and Non-traditional Relationships for food safety and food defense

> High Noon: 20 Global Problems 20 Years to Solve Them J.F. Rischard

From hierarchy to network New kinds of partnerships: "rough consensus" -business -government -civil society

Global Issues Networks: "Messy but Flexible"

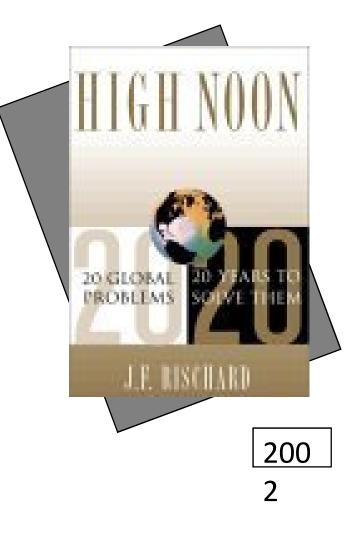
Membership ~ Knowledge related

-Speed (minimize boot-up and delivery times)

-Legitimacy

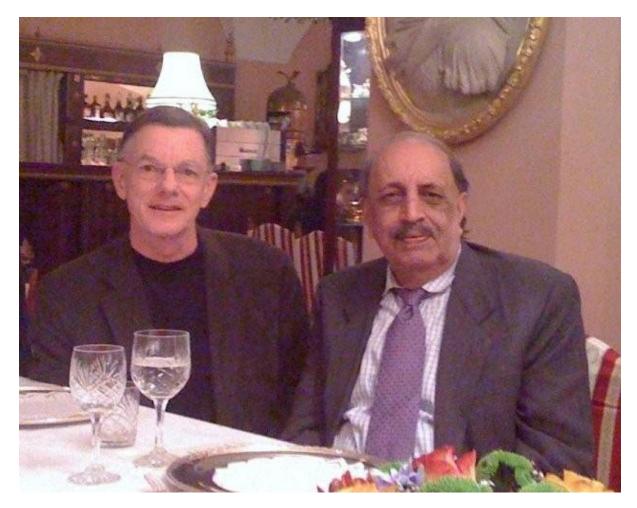
-Diversity

-Compatibility with Traditional Institutions



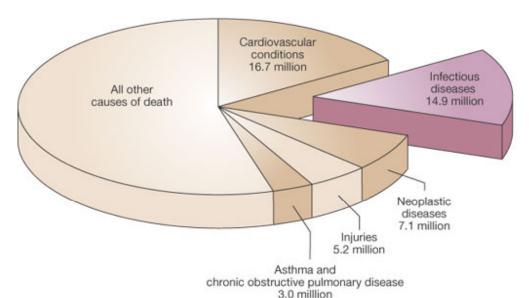
"NGI": each of us can be one...

"A person who strives for the betterment of society and believes in a good cause is an NGI."

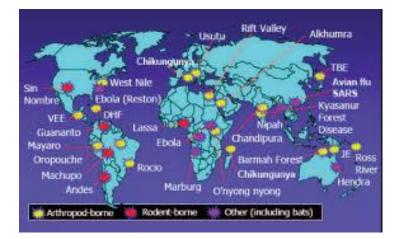


Dr. Anwar Nasim, National Commission on Biotechnology, Pakistan¹⁵

Emerging Infectious Disease







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