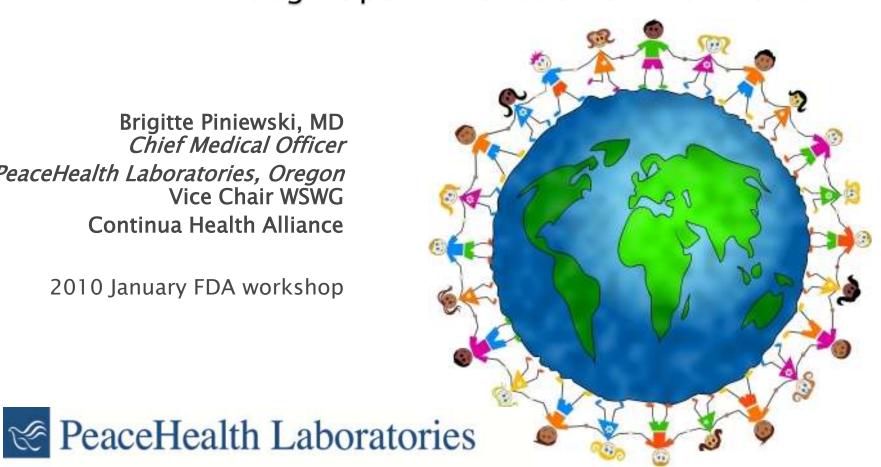
"Tooling" Communities to advance Community Resilience;

Through Open innovation environments

Brigitte Piniewski, MD Chief Medical Officer PeaceHealth Laboratories, Oregon Vice Chair WSWG Continua Health Alliance

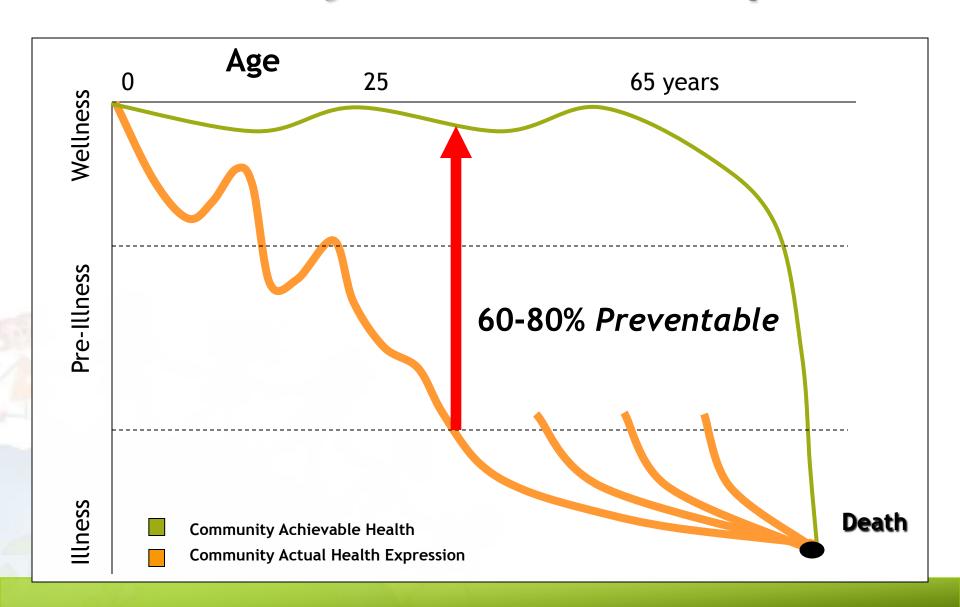
2010 January FDA workshop



FDA value proposition

- FDA support of the 2010 Nation's First Health Security Strategy
 - Broadly sharing responsibility
 - Proactive community voice
- Connectivity across Crowds (n= many) provides for a new era in safe and effective proactive resilience
 - Maximize the resolution of pre-endpoint experience
 - Identify clinically relevant co-occurrences
 - Example: Progressively effective H1N1 resilience
- Outcomes requested
 - FDA agreement to support advancing/operationalizing this model
 - FDA commitment to build a functional template that defines stakeholder responsibilities in open innovation models.

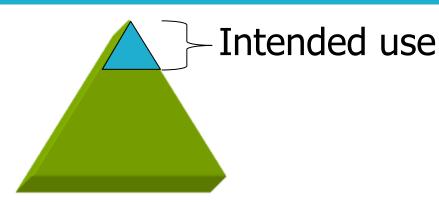
Community Health Landscape



Effective Segmenting of Landscapes



Current Regulatory Environments



High Confidence, narrow intended use



How does the "Community Resilience" Model work?

- 1. Identify the **health outcome** one wishes to target (to avoid the avoidable)
- 2. Search the medical literature/clinical experience for clues to the avoidable contributors to this outcome
- 3. Build the technology environment to support user tracking of avoidable contributors
- 4. Accumulate data to generate *sufficient correctness* (to be defined)
- Adjust environment (choice architecture) to reduce/eliminate contributors
- 6. Repeat the cycle given the new information.

In a H1N1 world...

Sufficient Confidence; Flexible Intended Use

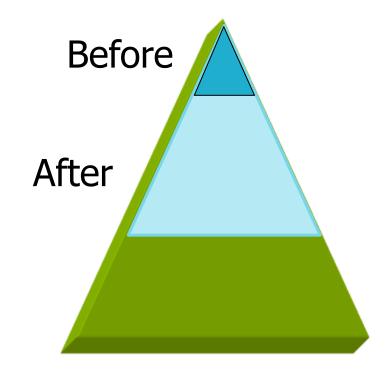


Temp, O_{2 sat}, HR



Integrated Disposable Pulse Ox

Meaningful use



Benefits & Challenges

- Privacy and security spectrum ...default set at max
- Communities/individuals own the raw data
- Regulatory paradigms: defining effective regulatory boundaries
- Crowd-assisted verification and validation
- Useful boundaries/definitions for flexible intended use
- Accumulated data can be utilized to fosters next phase innovation

Tomorrow's resilience >> Yesterday's resilience

In a nut shell...



01010 001101 00111000111 00110101000011111 Upon this gifted age, in its dark hour, rains from the sky a meteoric shower of facts ... they lie unquestioned, uncombined.
Wisdom enough to leech us of our ill is daily spun, but there exists no loom to weave it into fabric.

Edna St Vincent Millay

Millay E StV. Collected sonnets. New York: Harper and Row, 1988: 140.

Thank you!

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"In a Connected world, we are no longer responsible for what is reasonably known, we become responsible for what could have been reasonably known had we collected and organized the data appropriately." hank you

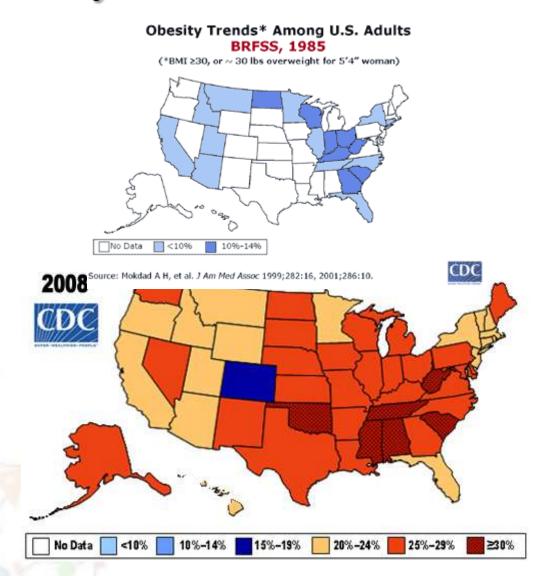
Brigitte Piniewski, MD bpiniewski@peacehealthlabs.org

US Obesity Trends

Key Mediators of Crowd health adjustment

1) Activity

2) Nutrition



"1980 Continua solution"

Device Interface

XHR Interface











Wireless **Ultra Low Power** Ultra low cost



(intel





Secure





Problems to solve with Continua...

- Connectivity across user experience will link clinically relevant cooccurrences.
- Barriers to participation will plummet
- Compelling reason to share data
- Citizen becomes the ultimate ensurer of value
- Knowledge density in wellness and pre-illness will set the backbone for financial density
- Health adjustment will be linked to future health cost adjustment
- Advance the fabric of evidence-based investment in health