# **Analytic Methodology Work Group Meeting, National Health Security Preparedness Index**



June 10, 2015

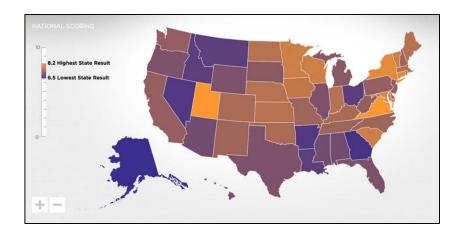
**NHSPI Program Management Office** 

University of Kentucky



# **Agenda**

- NHSPI Project Update
  - National Advisory Committee June 9 in-person meeting
  - Model Design Workgroup
- Weighting Approach
  - Old = equal weighting of items within subdomains gives rise to large differences in <u>implicit</u> weighting in the overall Index
  - New = <u>explicit</u> weights based on expert panel Delphi ratings





### Weighting

- Expert panel, online Delphi approach
  - Three iterations
    - measures, subdomains, and then domains
  - Weighted with respect to "all hazards"



### Weighting: Item Measures

Using a Visual Analog Scale (VAS) to gather expert opinion on how well a measure corresponds to its SUBDOMAIN

	600			1. St	ate p	artici	pate	s in th	ne Be	havio	ral R	isk Fa	ctor	Surve	illand	e Syst	tem	(BRFS	s)			
No Correspondence at all: this measure is com-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Perfect Correspondence: this measure fully and
pletely unrelated to the subdomain	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	completely represent



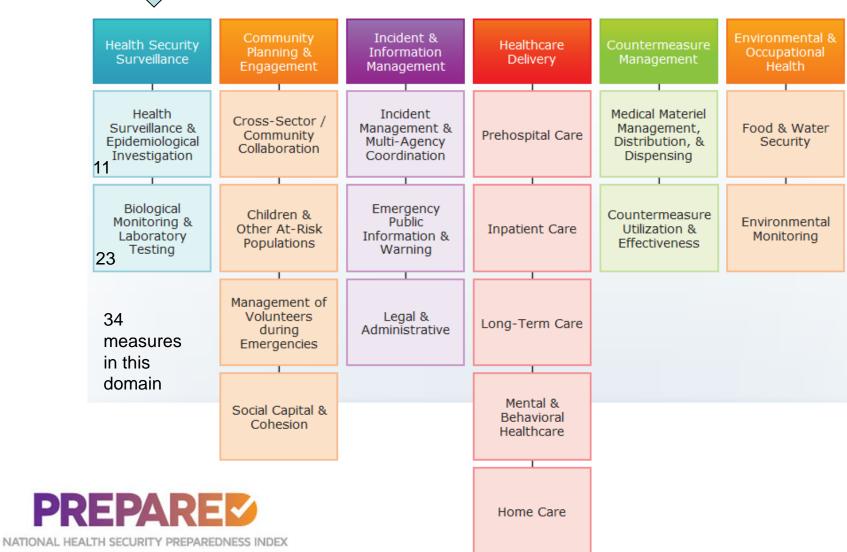
#### Weighting: Item Measures

- Other questions
  - Which measures are "cross-cutting," "core" or "transcendent"?
  - Are there measures not listed that should be?
- Six Delphi groups (overlapping membership is okay)
  - Domain-level experts
  - Evaluation of all measures in that domain
    - Measures evaluated with respect to correspondence to the subdomain



#### **Assess Measures Within a Domain**





#### Weighting: Subdomains

- When thinking about a domain, what proportion of overall preparedness is attributable to its subdomains?
- Use the same Delphi groups used for item measure assessments

•	When thinking about the domain of HEALTH SECURITY SURVEILLANCE, what proportion of a state's overall preparedness level is attributable to (total should
	add to 100%):
	Health Surveillance & Epidemiological Investigation

o Biological Monitoring & Laboratory Testing %



### **Weighting: Domains**

- When thinking about a national health security preparedness, what portion is attributed to each domain?
- Who are the Delphi participants for this assessment?

•	W	When thinking about NATIONAL HEALTH SECURITY PREPAREDNESS, what portion of a state's overall preparedness level is attributable to (total should add										
	to	100%):										
	0	Health Security Surveillance	%									
	0	Community Planning & Engagement	%									
	0	Incident & Information Management	%									
	0	Healthcare Delivery	%									
	0	Countermeasure Management	%									
	0	Environmental & Occupational Health	%									



## **Upcoming Meetings**

June 16, Model Design (virtual) 1-2 ET



#### For More Information



#### **National Program Office**

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Glen P. Mays, Ph.D., M.P.H. <u>glen.mays@uky.edu</u> Anna Goodman Hoover, Ph.D. <u>Anna.Hoover@uky.edu</u> Michael Childress, M.A. <u>Michael.childress@uky.edu</u>

Email: NHSPI@uky.edu

Web: www.nhspi.org / www.publichealthsystems.org

Journal: www.FrontiersinPHSSR.org
Archive: works.bepress.com/glen\_mays

Blog: publichealtheconomics.org



