

# National Health Security Preparedness Index

## Analytic Methodology & Model Design Work Group Meeting



**July 18, 2017**

**Index Program Management Office**  
University of Kentucky

# Agenda

- Input on potential new measures
- Update on adding new geographic areas



# Input on Potential New Measures

- Cybersecurity
  - 911 Centers with cybersecurity plans
  - 911T Capability (texting)
- Water Quality
  - Enforcement
  - Return to compliance
- Dam safety
  - High-Hazard Potential Dams in poor or unsatisfactory condition
- Medicaid emergency waivers



# Previously Suggested Measures

Measures suggested, but not adopted, a year ago

- ...any changes that would warrant a second pass?
- Percentage of one-person households
  - As an indicator of social support and social capital, this measure may reflect the ability of individuals to rely on support from others for routine or emergency assistance. *However, at least one study does not support this rationale.*
- First responder health and safety (fatalities)
  - Lower fatality rates may reflect superior health and safety practices and enhanced workforce capability to respond to emergencies. *But many other factors affect fatalities—not just occupational health practices.*
- Age of housing stock
  - Housing age may reflect the degree of population vulnerability to environmental hazards such as lead paint exposure and extreme weather events.

# Previously Suggested Measures, cont.

- **Housing stock construction resiliency**
  - Residents of housing units that are manufactured or mobile homes may be less resilient to health hazards associated with extreme weather events.
- **Bridge structural integrity**
  - The structural integrity of bridges may be an indicator of the transportation system's resilience to natural disasters and its capacity for supporting emergency-related surges in utilization.
- **Personal and household preparedness**
  - **FEMA National Household Survey, 2015**
    - July 2015, 5,000 respondents, questions on preparedness and awareness of actions (e.g., plan, supplies), however, doesn't support state-level estimates (yet)
  - **HUD American Household Survey**
    - National estimates only in 2013
    - State variable present in 2015, but the disaster planning module not included



# Geographic Additions

- Data are widely available on many measures for ...
  - Cities (talking to NACCHO)
    - DC included in 2017
    - Collecting data from NYC, Chicago, LA
    - Expand to other cities?
  - Territories (reaching out to ASHTO)
    - PR, Guam, VI, others depending on data availability
- Are local-level data available?
  - We estimate data are available for 98 of the 120 measures—82%--for the three cities of interest, LA, NYC, and Chicago.
    - Some are easily acquired city-specific (e.g., OES BLS measures), some are state-level that are still applicable for cities (e.g., the APHL measures), and some we can get with additional digging (e.g., voting turnout rates, MRC, hospital EHR meaningful use).

# For More Information



## National Program Office

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## Systems for Action

National Coordinating Center

*Systems and Services Research to Build a Culture of Health*

