



*Strategies to Achieve Alignment, Collaboration, and Synergy across Delivery and Financing Systems*

# **Classifying Multi-Sectoral, Multi-Organizational Health Communication Networks**

*Research-in-Progress Webinar  
Wednesday, August 22, 2018  
12:00-1:00 pm ET/ 9:00 am-10:00 am PT*



# Agenda

**Welcome:**        **Shana Moore, PhD**  
*Director of Dissemination and Research Development*  
RWJF [Systems for Action](#) National Coordinating Center  
University of Kentucky College of Public Health

**Presenters:**    **Anna G. Hoover, PhD, MA**  
*Co-Director*  
RWJF [Systems for Action](#) National Coordinating Center  
*Assistant Professor*  
Preventive Medicine and Environmental Health  
University of Kentucky College of Public Health

**Dominique Zephyr, MA**  
*Statistician*  
RWJF [Systems for Action](#) National Coordinating Center  
University of Kentucky College of Public Health

**Commentary:**   **Danielle M. Varda, PhD**  
*CEO and Co-Founder*  
Visible Network Labs

**Q & A:**        Moderated by **Shana Moore, PhD**



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*Co-Director*

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Preventive Medicine and Environmental Health  
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Visible Network Labs

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# Classifying Multi-Sectoral, Multi-Organizational Health Communication Networks

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S4A Research-in-Progress  
22 August 2018



**College of  
Public Health**

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and Services Research*

# Agenda

- Background
- Methodology
- Emerging Findings
- Next Steps





**MIND THE GAP**



# Background: The Importance of Multi-Sectoral Communication Networks

- **Health Communication:** the study and use of methods to inform and influence individual and community decisions that enhance health.  
(Freimuth & Quinn, 2004)
- Organizational Sensemaking Capacity
  - *Increased Number and Diversity of Organizations*
  - *Recognize More Communication Opportunities and Challenges*
- Expanded Reach
  - *Amplify, complement, and reinforce messages*
  - *Different Audiences*
  - *Different Channels*
- Varying Levels of Organizational Credibility with Key Stakeholders



# Background: Reality

Many sectors play critical roles in communicating evidence-based health information and deploying related health promotion and prevention programs.



Fragmentation of information flows across and generated by these sectors can inhibit the dissemination and implementation of evidence-informed strategies for improving population health and well-being, while collective efforts could amplify key messages and programs.

# Methodology: Data Source

## National Longitudinal Survey of Public Health Systems

- Cohort of 360 communities with at least 100,000 residents
- Followed over time: 1998, 2006, 2012, 2014\*\*, 2016
- Local public health officials report:

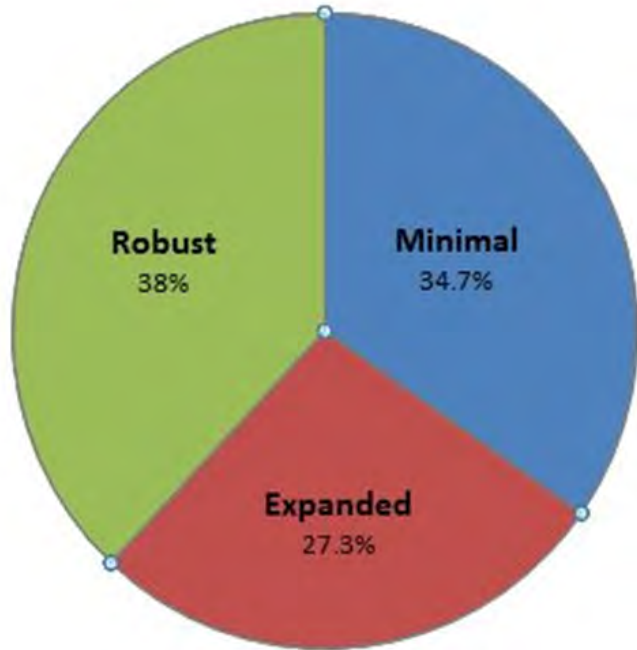
- **Scope:** availability of activities
- **Network density:** organizations contributing to activity
- **Network centrality:** strongest central actor
- **Quality:** perceived effectiveness of activity

18. In the past three years in your jurisdiction, has the public regularly received information about current health status, health care needs, health behaviors, and health care policy issues? <input type="checkbox"/> yes <input type="checkbox"/> no	
If YES →	Overall, how well is this activity performed within your jurisdiction? <input type="checkbox"/> 1-Poor - meets none of the need for this activity <input type="checkbox"/> 2-Fair - meets some of the need for this activity <input type="checkbox"/> 3-Moderate - meets about half of the need <input type="checkbox"/> 4-Good - meets most of the need for this activity <input type="checkbox"/> 5-Excellent - fully meets need for this activity
If YES →	What proportion of the total community effort for this activity is contributed by your local public health agency? <input type="checkbox"/> 1-None <input type="checkbox"/> 2-Some but not half of effort <input type="checkbox"/> 3-About half of the effort <input type="checkbox"/> 4-Most but not all of the effort <input type="checkbox"/> 5-All of the effort
If YES →	What other types of organizations are involved in performing this activity in your jurisdiction? (mark all that apply) <input type="checkbox"/> none <input type="checkbox"/> state health agency <input type="checkbox"/> faith-based orgs <input type="checkbox"/> physician practices <input type="checkbox"/> schools (K-12) <input type="checkbox"/> other state gov't agency <input type="checkbox"/> hospitals <input type="checkbox"/> community health centers <input type="checkbox"/> colleges/universities <input type="checkbox"/> local gov't agencies <input type="checkbox"/> health insurers <input type="checkbox"/> other nonprofits <input type="checkbox"/> tribal organizations <input type="checkbox"/> federal gov't agencies <input type="checkbox"/> employers/business groups <input type="checkbox"/> other-specify: _____

- \*\* Expanded sample of 500 communities <100,000 added in 2014 wave

# Methodology: Analytic Strategy

- Health communication networks were classified based on their density, i.e. the proportion of organizations that contribute to these activities in each community.
- Identify how different kinds of organizational health communication networks are associated with the probability of routinely provide community health information to elected officials, lay publics, and mass media.
- Control variables: existence of board of health, unemployment rate, poverty rate, percent uninsured, percent non-white, percent with college education, and percent over 65 years old.



## **Minimal Networks** (*Network density 0-0.25*)

- Few organizational communicators
- Hospitals, state health agencies, other local agencies

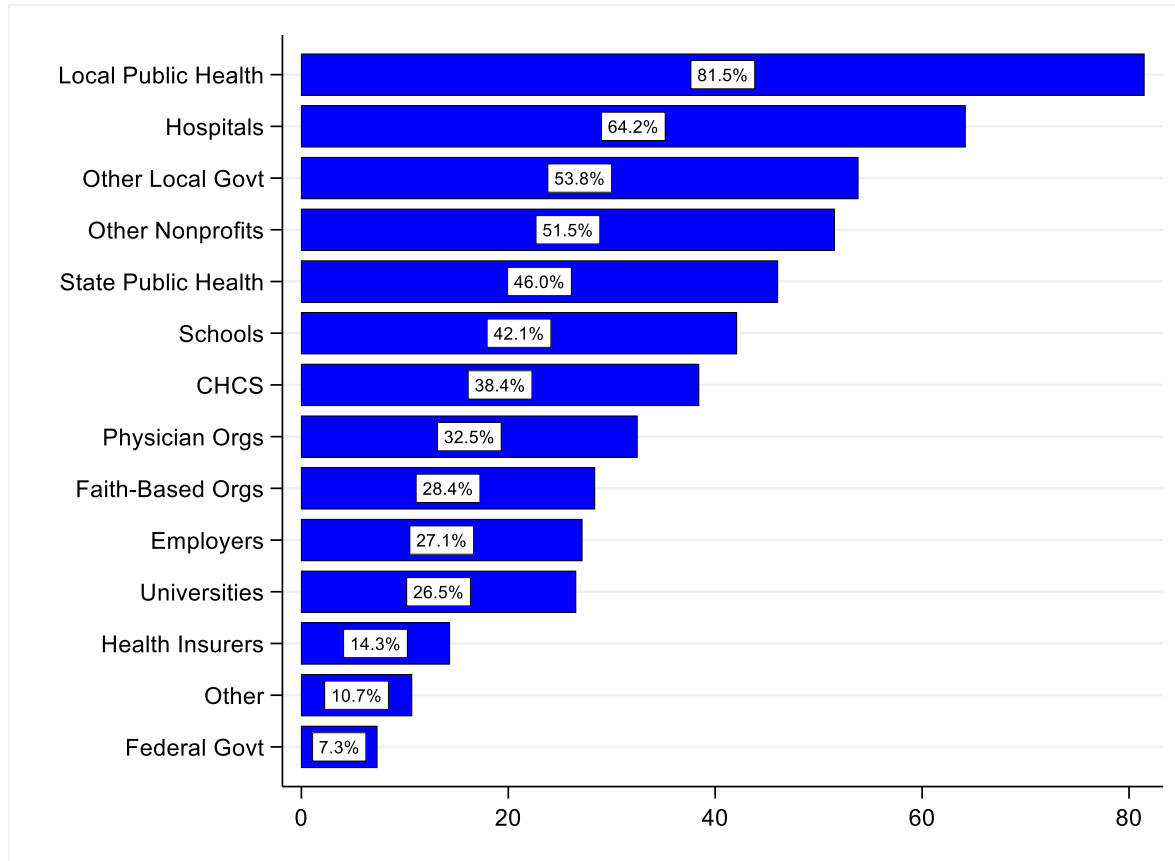
## **Expanded Networks** (*Network density 0.25-0.50*)

- Increased number and diversity of organizational communication partners
- Include more non-faith-based nonprofits, community health centers, schools, physician organizations

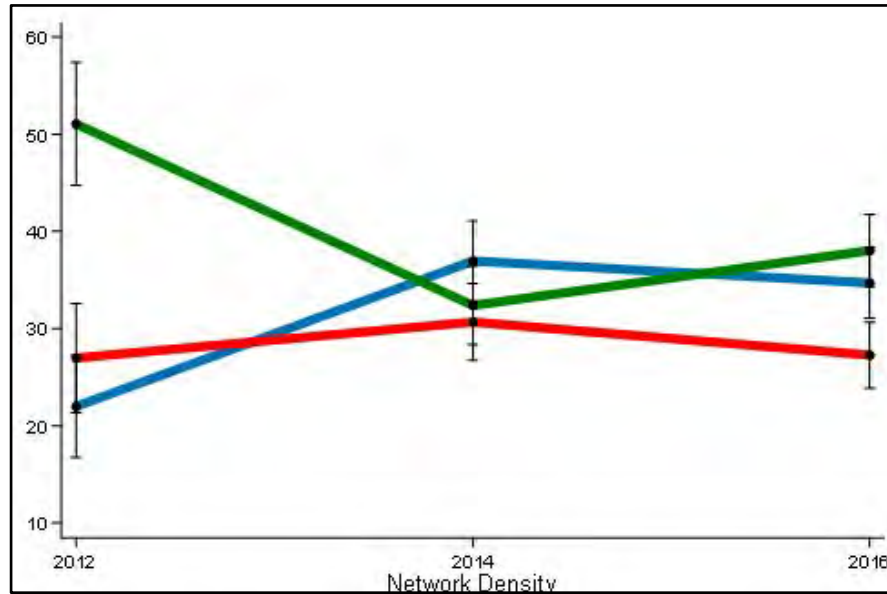
## **Robust Networks** (*Network density 0.5-1*)

- Many communication partners across sectors
- Include more employers, faith-based organizations, and universities
- Most common network type, especially in urban areas

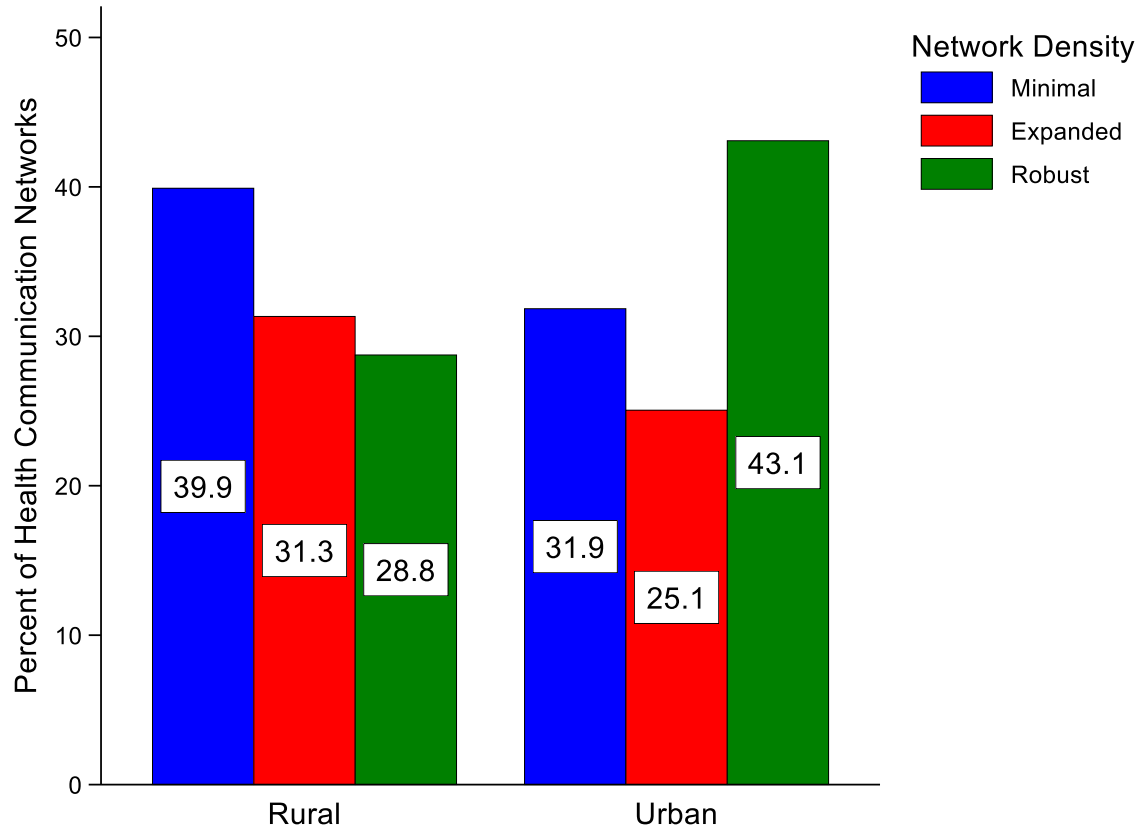
# Emerging Findings: Organizations that Contributed to Community Health Communication Activities in 2016



# Emerging Findings: Longitudinal Change in Prevalence of Communication Network Types

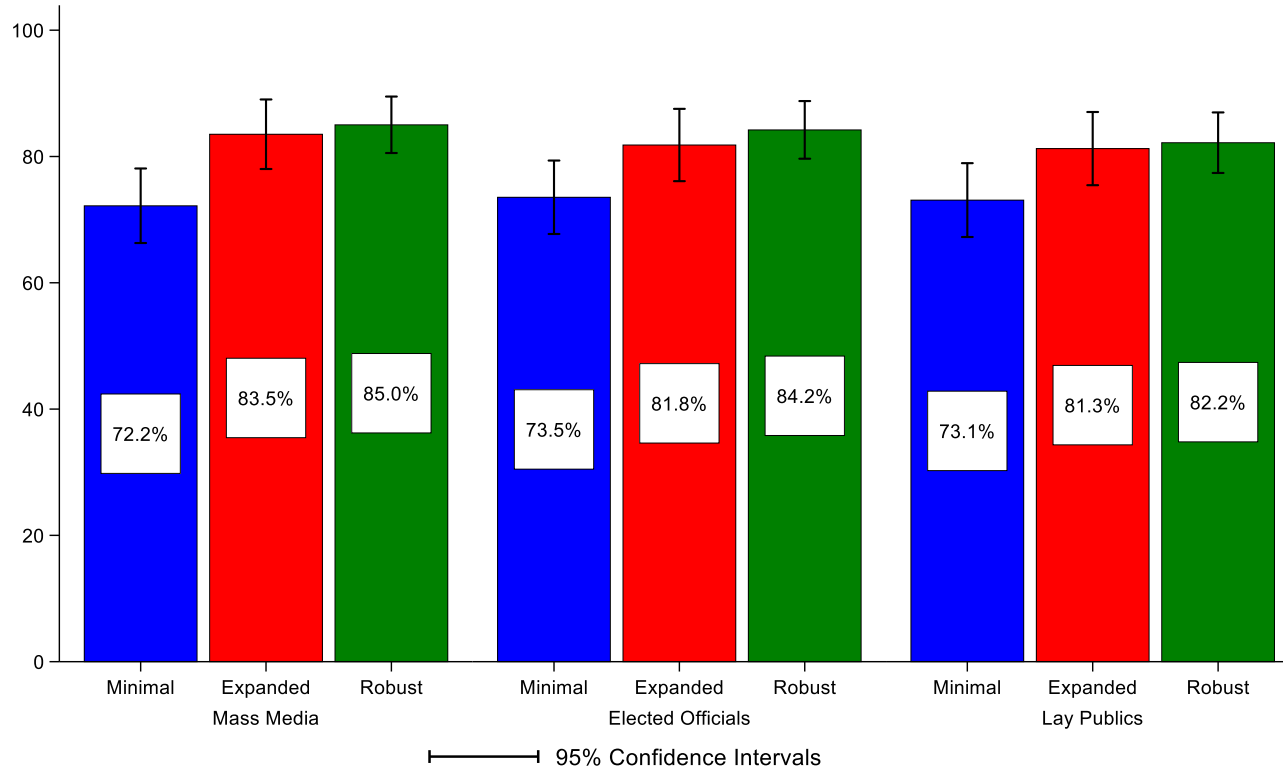


# Emerging Findings: Rural and Urban Variation in Prevalence of Communication Network Types



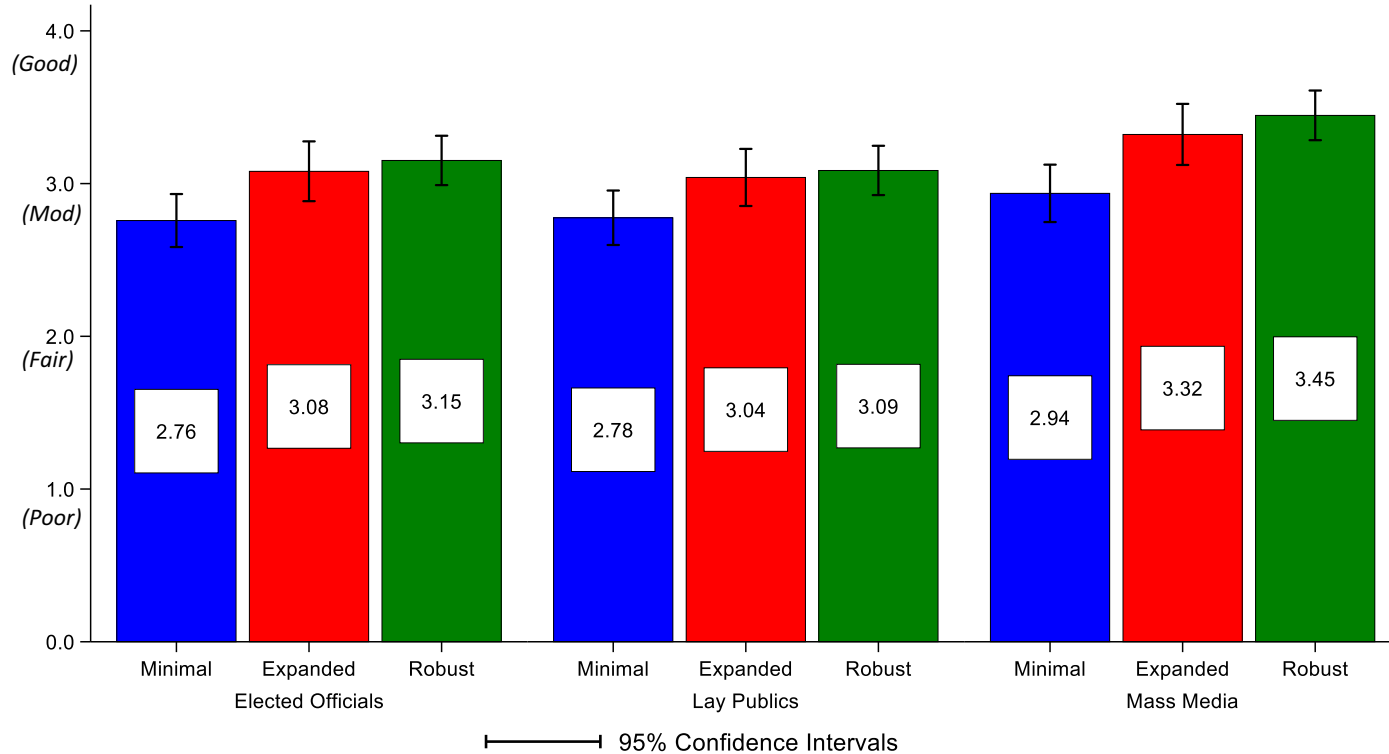


# Emerging Findings: Network Variation in Communication Activities by Audience



# Emerging Findings: Variation in Perceived Effectiveness of Communication Activities by Audience and Network Type

## Average Perceived Effectiveness



# Limitations

- Self-report data from a single community organization may not fully capture breadth of organizations' involvement in community health communication activities
- Networks are constructed from participation in key activities
  - Strength and directionality of connections among network members are unclear
  - It is unclear whether organizational communication activities are amplifying, complementing, or competing with each other's messages
- “Perceived Effectiveness” of community health communication activities is subjective but does provide an important barometer of attitudes and beliefs about community communication success

# Next Steps

- Expand longitudinal analysis to incorporate additional survey waves
- Examine variation in *actual* policy and media outcomes for comparison with “perceived effectiveness”
- Move from “what” to “why” and “how”
  - Collaborate with other network researchers to examine strength and directionality of organizational ties across a subset of the three community health communication constellations
  - Conduct qualitative interviews in this subset to examine overlap and variation in the kinds of communication products and activities being generated across the different network types
  - Conduct “member checks” of interpretations of emerging data with key organizational stakeholders
- Dissemination Activities
  - 2018 APHA Annual Meeting Presentation (11/13 from 5-6:30pm)
  - Manuscript Highlighting Descriptive Findings being Finalized

# Questions?



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# Upcoming Webinars

## Archives

<http://systemsforaction.org/research-progress-webinars>

## Upcoming

**Wednesday, September 19, 2018, 12 p.m., ET**

*Systems for Action Intramural Research Project*

**Rural-Urban Differences in Delivery Systems for Population Health Activities**

*John Poe, PhD, Systems for Action National Program Office, University of Kentucky College of Public Health*

**Wednesday, October 3, 2018, 12 p.m., ET**

*Systems for Action Individual Research Project*

**Testing a New Terminology System for Health and Social Services Integration**

*Miriam Laugesen, PhD, and Sara Abiola, PhD, JD, Columbia University Mailman School of Public Health*

**Wednesday, October 17, 2018, 12 p.m., ET**

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**TBA**

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# Acknowledgements

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and

