

Community Resilience: Integrating Culture, Networks, and Governance for Disaster Risk Reduction

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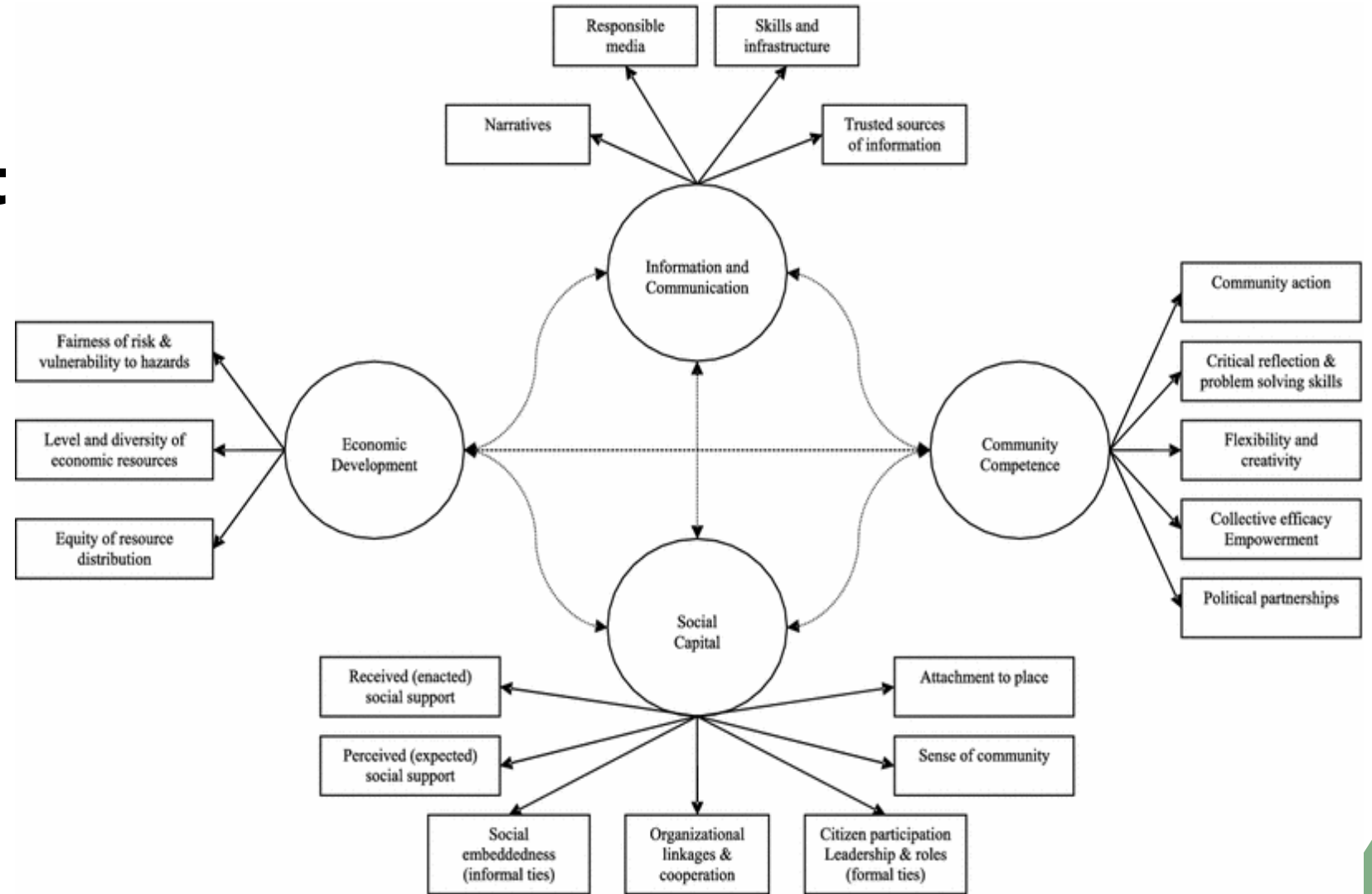
Community Resilience

“A process linking a set of adaptive capacities to a positive trajectory of functioning and adaptation after a disturbance”

- Economic Resources (Hobfoll’s conservation of resources model)
- Social Capital (Bourdieu’s embedded of social resources)
- Information (Comfort’s concept of adaptive performance)
- Community Competence (Longstaff on collective problem solving)

Community Resilience as a set of networked capacities

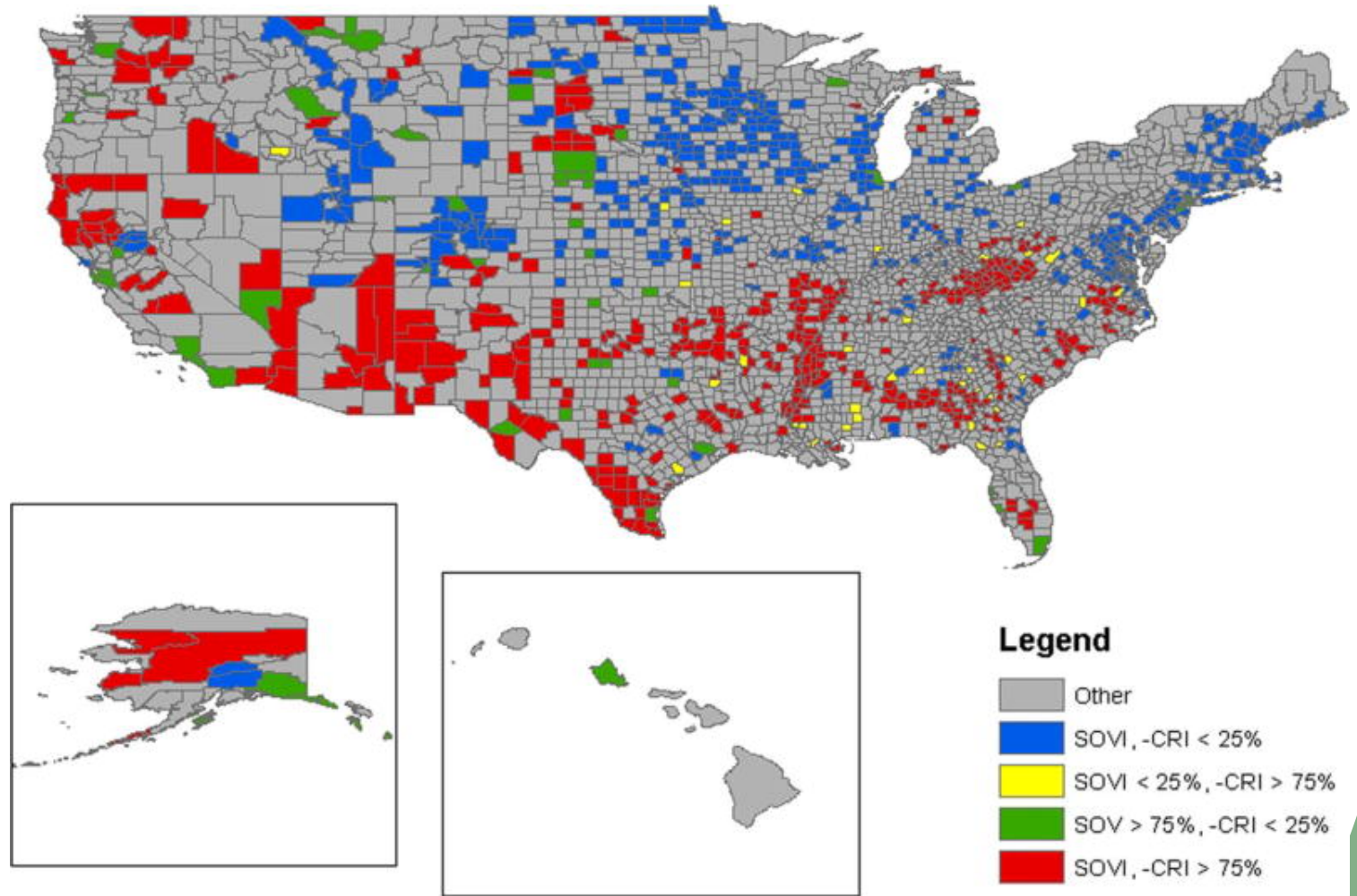
From Norris et al. (2007). "Community Resilience as a Metaphor, Theory, Set of Capacities, and Strategy for Disaster Readiness." *American Journal of Community Psychology* 41 (127-150)



How Can We Measure Community Resilience?

Macro Analyses - County Level Measurement

From Bergstrand, Kelly, Brian Mayer, Babette Brumback, and Yi Zhang.
"Assessing the relationship between social vulnerability and community resilience to hazards." *Social indicators research* 122, no. 2 (2015): 391-409. (cited 193 times)



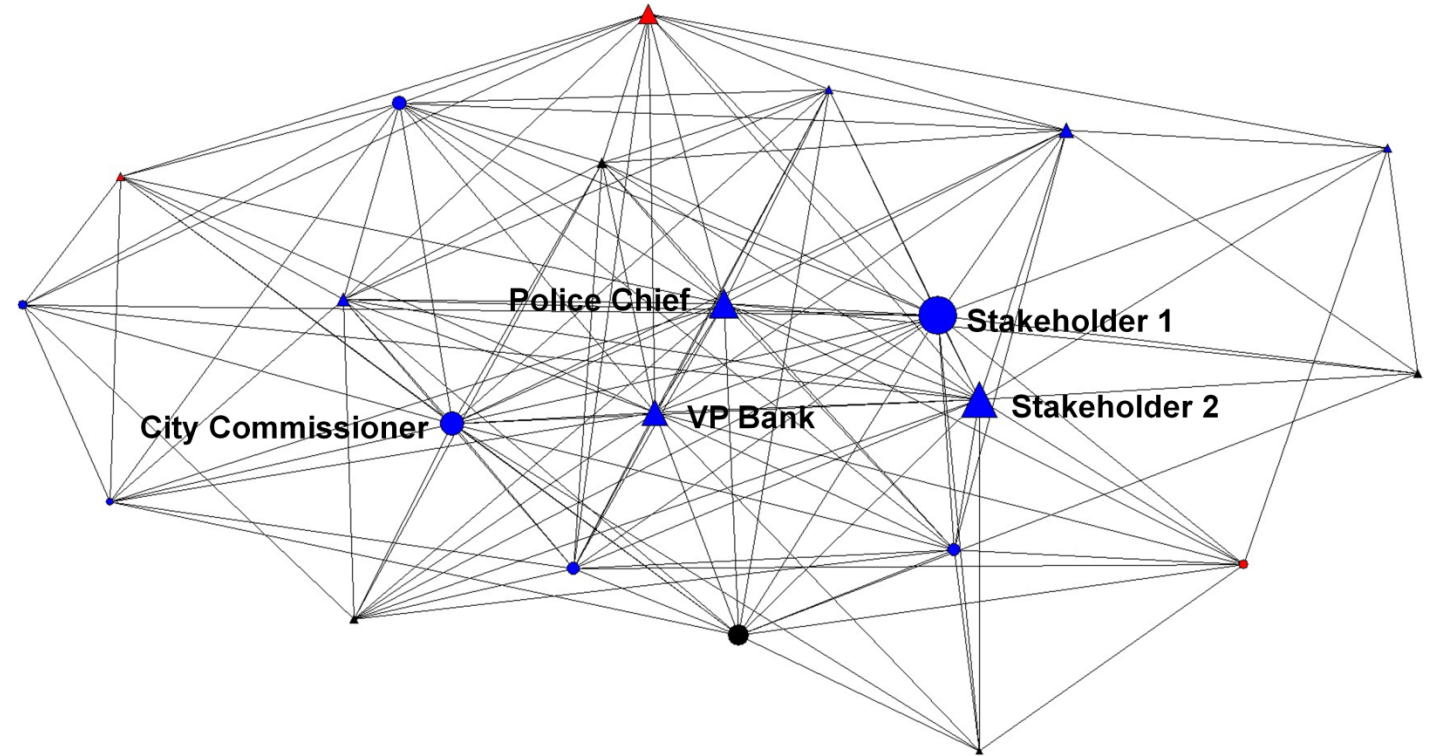
How Can We Measure Community Resilience?

Social Network Analyses: Modeling the Ties Facilitating Adaptive Capacities

- Puetz, Kyle, and Brian Mayer. "Pipes or Prisms? Personal Networks, Network Mechanisms, and Formal Support Receipt in the Wake of the Deepwater Horizon Oil Spill." *The Sociological Quarterly* (2020): 1-22.

LEGEND:

Blue=Leader, Red=Maybe Leader, Black=Not a Leader
Sized by Betweenness (Brokering)



How Can We Measure Community Resilience?

Surveys, Interviews, Focus Groups, Photovoice:
Understanding the Role of Cultural Capital

- Morris Jr, J. Glenn, Lynn M. Grattan, Brian M. Mayer, and Jason K. Blackburn. "Psychological responses and resilience of people and communities impacted by the Deepwater Horizon oil spill." *Transactions of the American Clinical and Climatological Association* 124 (2013): 191.
- Clarke, Hannah E., and Brian Mayer. "Community recovery following the deepwater horizon oil spill: Toward a theory of cultural resilience." *Society & natural resources* 30, no. 2 (2017): 129-144.
- Thompson-Dyck, K., Mayer, B., Anderson, K. F., & Galaskiewicz, J. (2016). Bringing people back in: crisis planning and response embedded in social contexts. In *Urban Resilience* (pp. 279-293). Springer, Cham.
- Bergstrand, K., & Mayer, B. (2020). "The Community Helped Me:" Community Cohesion and Environmental Concerns in Personal Assessments of Post-Disaster Recovery. *Society & Natural Resources*, 33(3), 386-405.
- Mayer, Brian, Katrina Running, and Kelly Bergstrand. "Compensation and community corrosion: perceived inequalities, social comparisons, and competition following the Deepwater Horizon oil spill." In *Sociological Forum*, vol. 30, no. 2, pp. 369-390. 2015.
- Mayer, Brian, Lorencita Joshweseoma, and Gregory Sehongva. "Environmental risk perceptions and community health: arsenic, air pollution, and threats to traditional values of the Hopi Tribe." *Journal of community health* 44, no. 5 (2019): 896-902.



RESILIENCE THROUGH THE LENS

A photovoice exhibit
documenting strengths
and challenges
facing Franklin County.

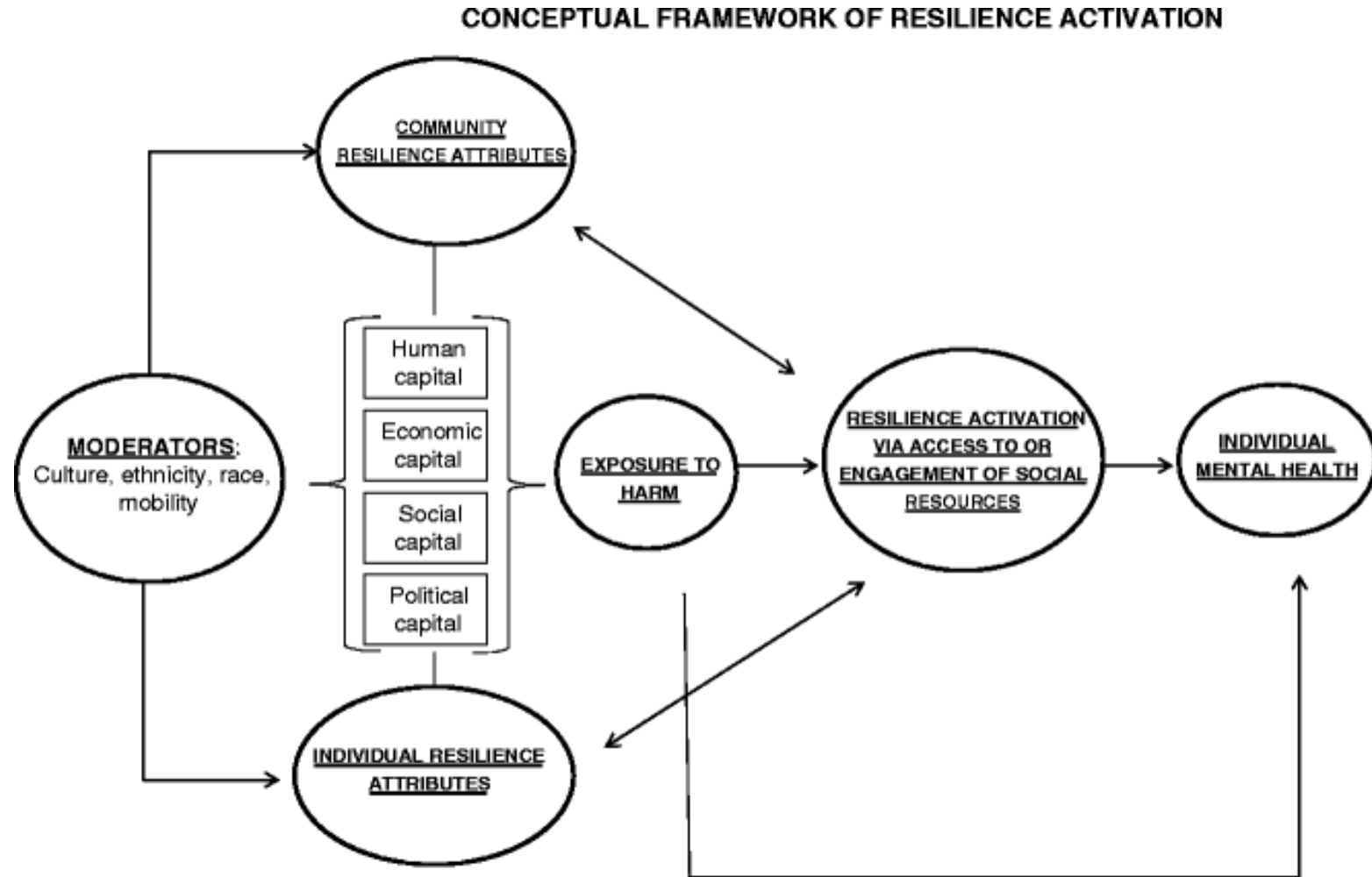
On Display
Apalachicola Center for
History, Culture & Art
July 13 - August 3
Opening Reception July
6-8 pm



How Can We Measure Community Resilience?

Modeling the 'Activation' of individual & community attributes to adapt

From Abramson, David M., Lynn M. Grattan, Brian Mayer, Craig E. Colten, Farah A. Arosemena, Ariane Bedimo-Rung, and Maureen Lichtveld. "The resilience activation framework: A conceptual model of how access to social resources promotes adaptation and rapid recovery in post-disaster settings." *The journal of behavioral health services & research* 42, no. 1 (2015): 42-57. (cited 224 times)



Key Findings & Future Directions

- As a metaphor for understanding the flows of capitals between individuals and communities, *Community Resilience* lets us evaluate (and improve) disaster preparedness & recovery
 - Emphasis on social justice and equity in adaptive capacities
 - Disasters are always local, community engagement is essential
 - Gaps in organizational networks are inevitable, emerge at worst times
 - Planning for community resilience begins with local engagement and networking