

POPCORN PANEL!

We'll hear from some experts
and see what "pops" as a group.

Some thinking questions

How did you start working with spatial social networks?

What do you find interesting?

Why do you think the topic is important?

How do you think others think about spatial social networks?

What issues / challenges have you encountered?

What do you think the cutting edge is?

Have you had any "aha" moments, or any moments that made you reflect?

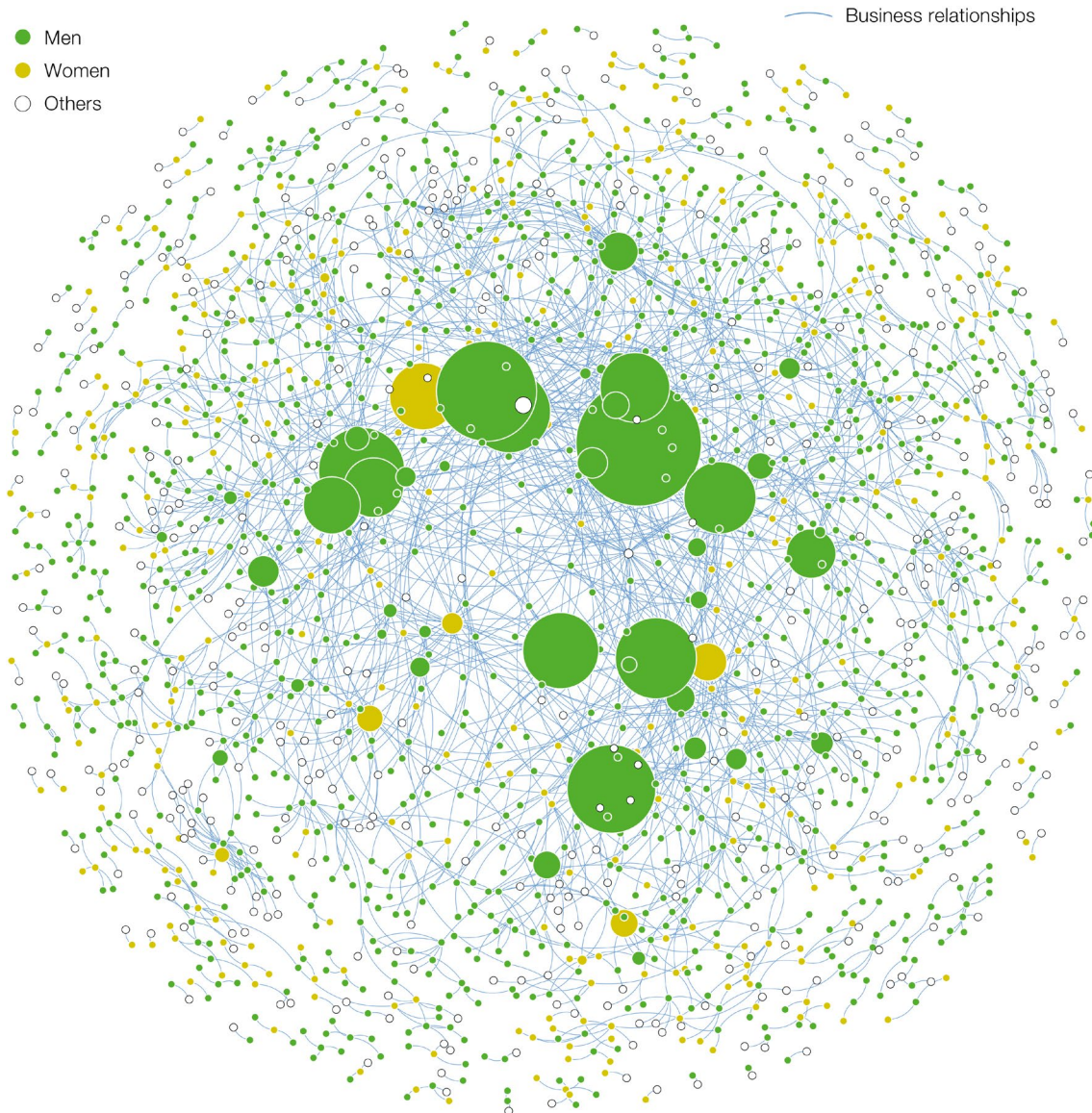
This is a little more 'salon' like than lightning talks.

Olivier J. Walther: Where it all started



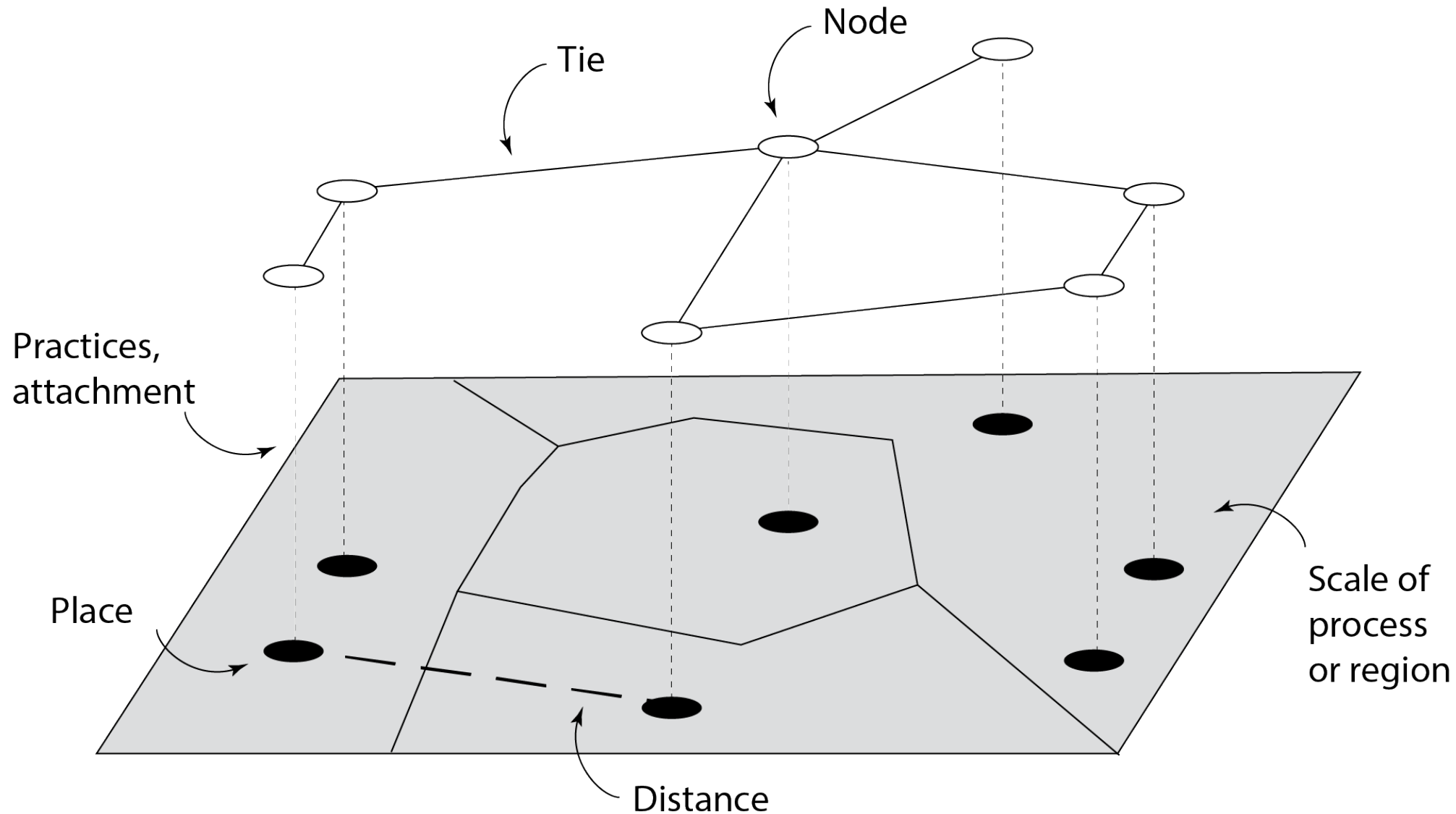
The Malanville market in Benin, West Africa.
Source: Walther, 2007.

Gender is a strong predictor of social ties

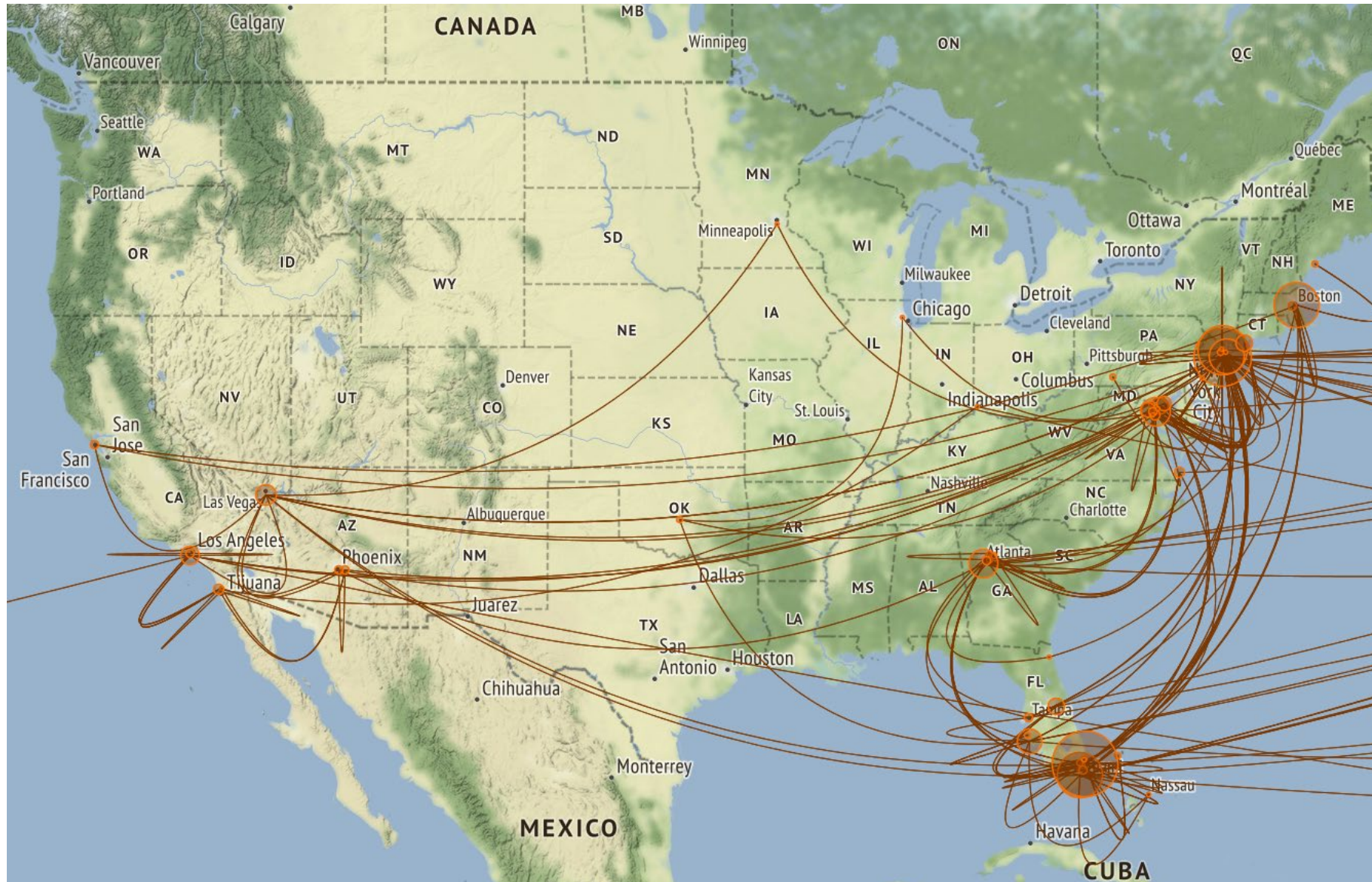


- The size of the nodes (traders) is proportional to their betweenness centrality in 2018.
- The edges signify business relationships in the rice trade network.

How space and social networks interact

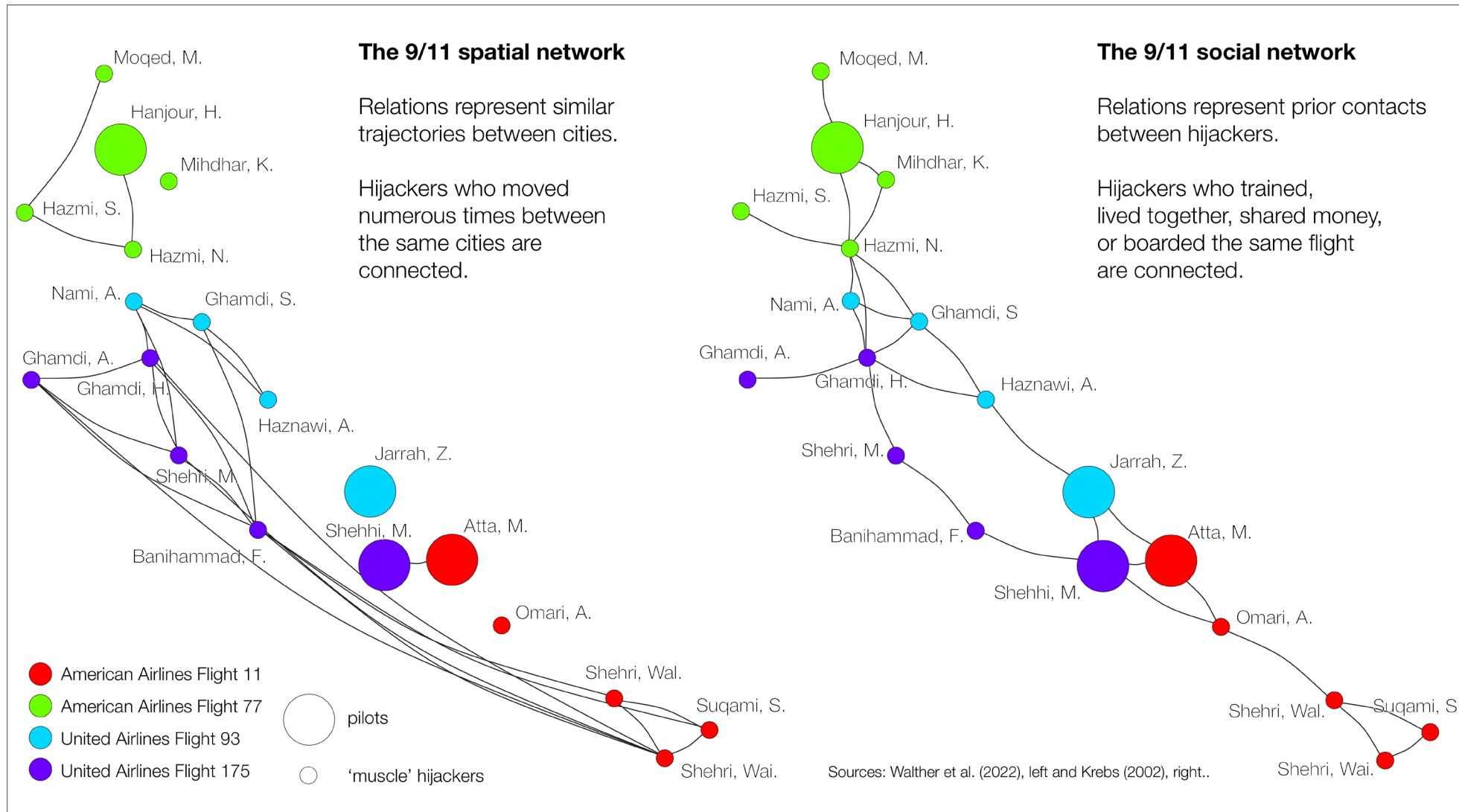


Domestic travel patterns of the 9/11 hijackers



- The size of the nodes is proportional to the number of trips that originated in each city (degree centrality) from 1997-2001.

Space can inform social structure

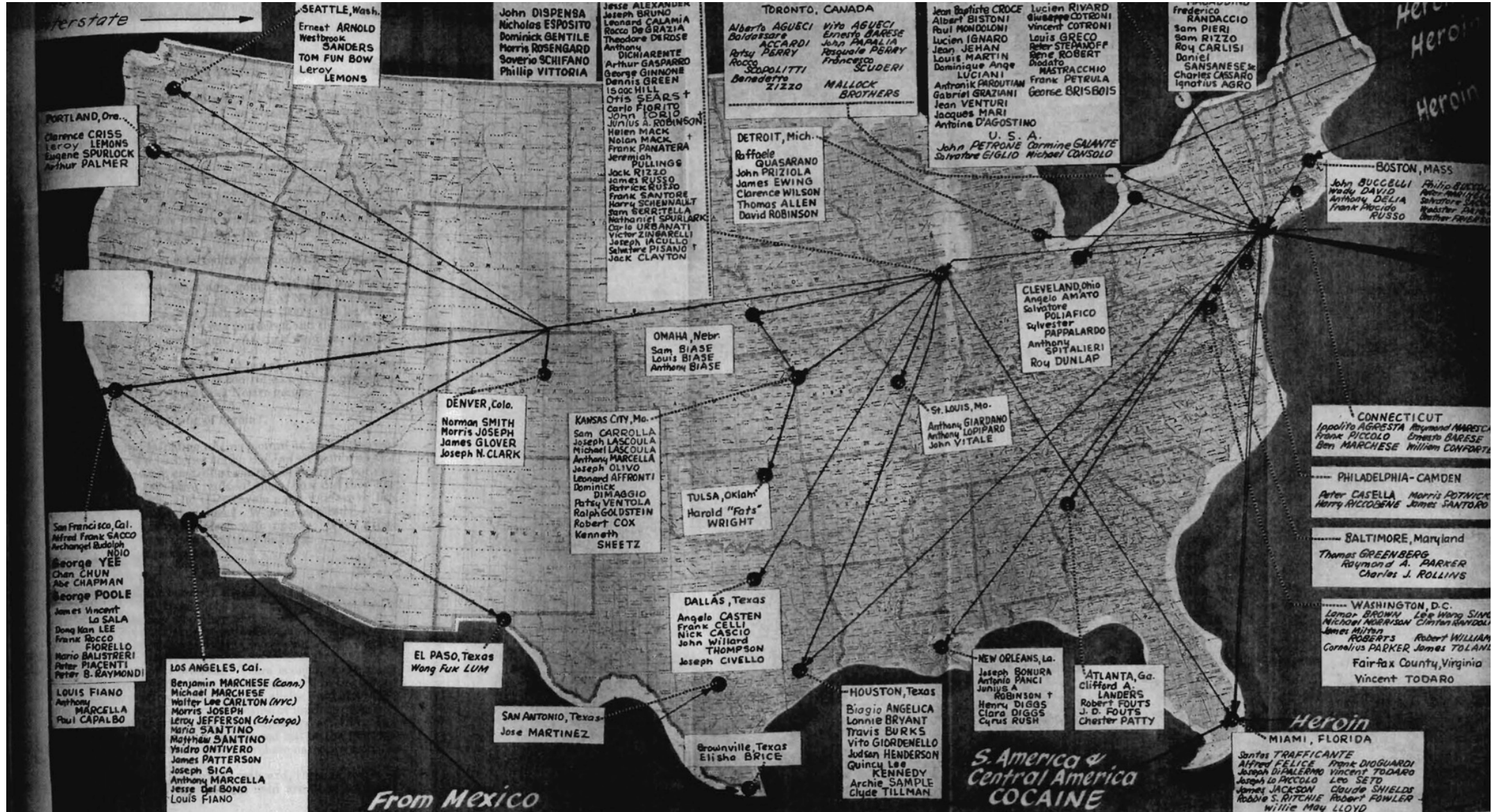


Sources: Walther et al. (2023) and Krebs (2002, right)

Daniel DellaPosta: The American Mafia

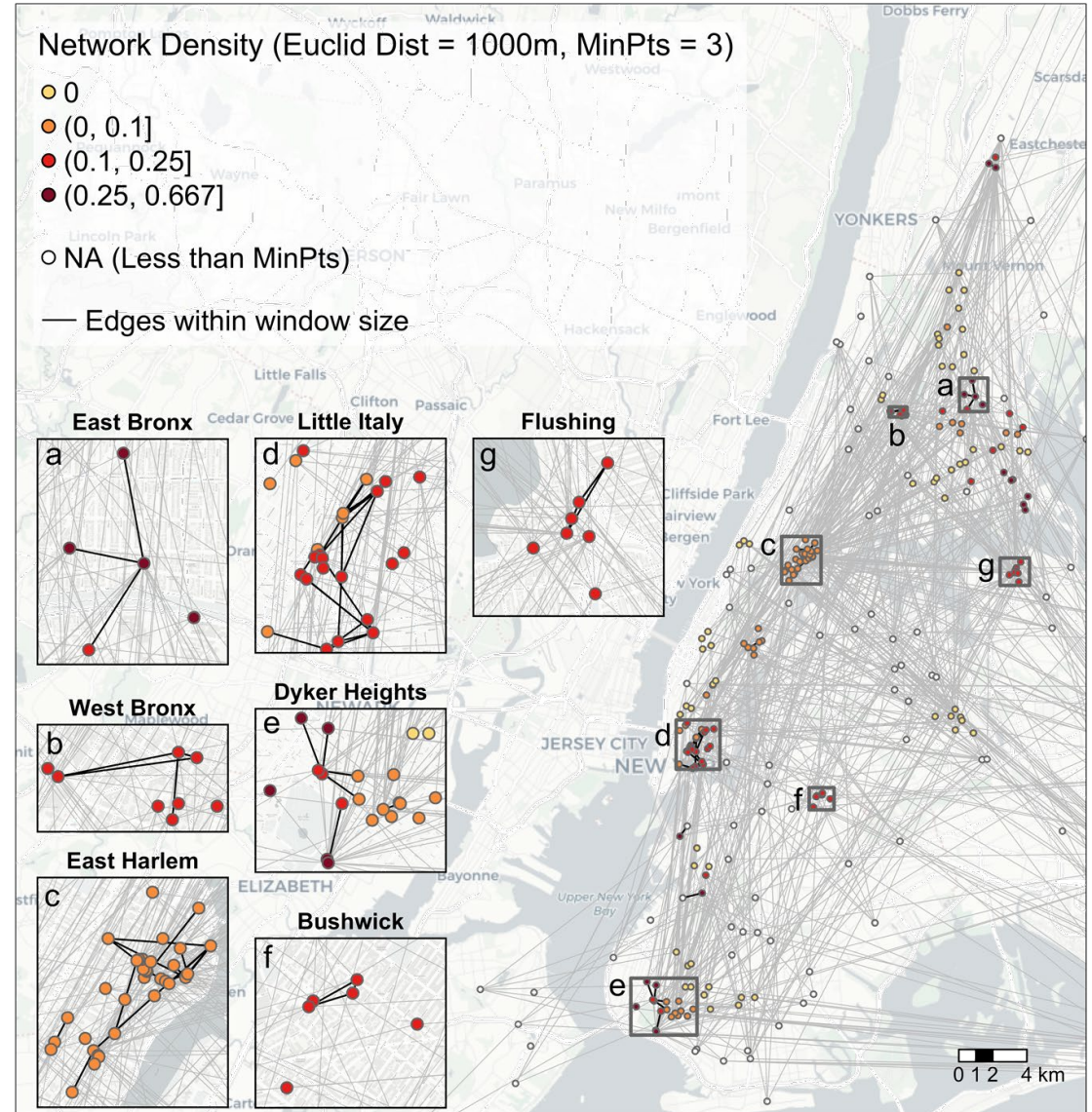
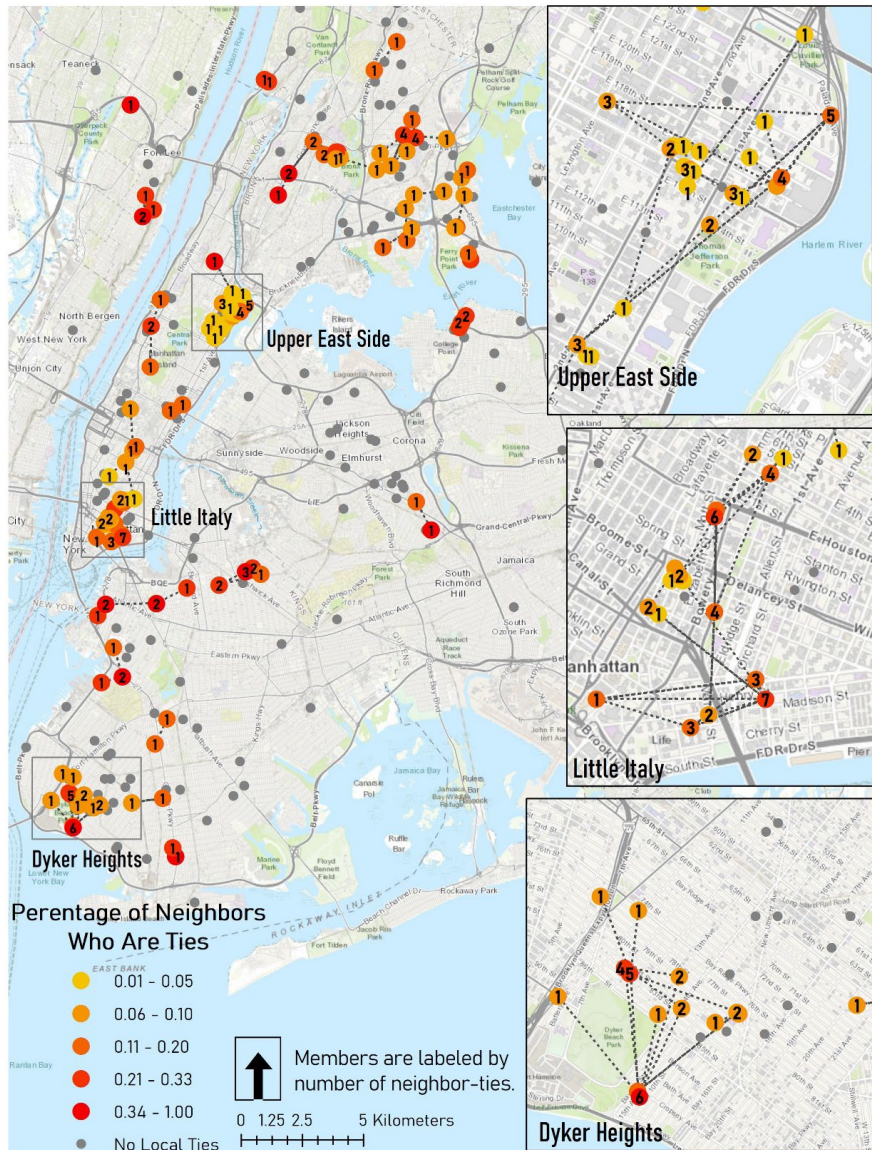


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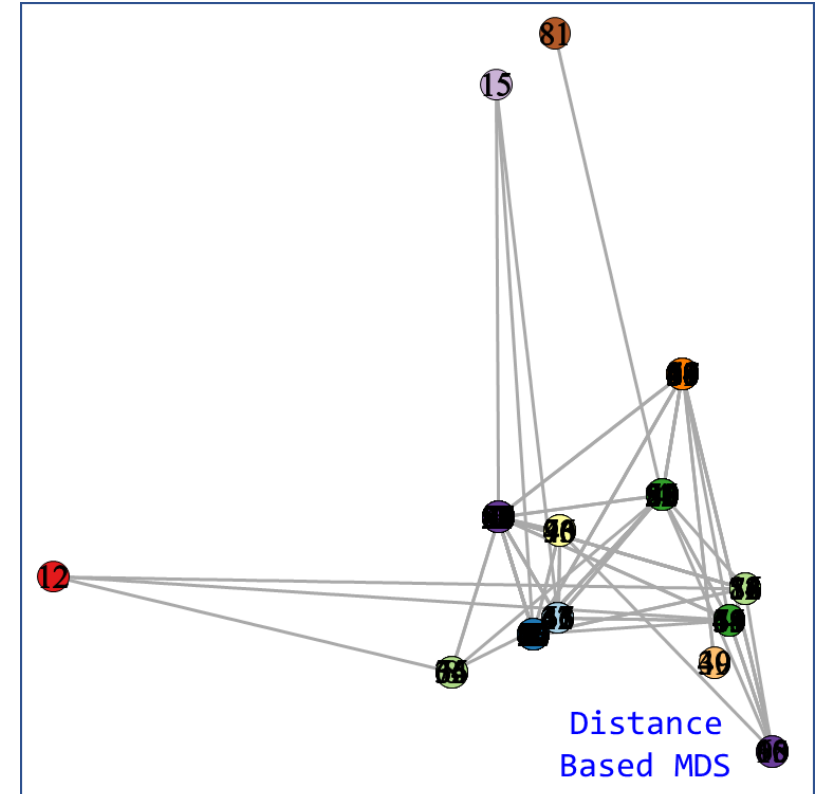
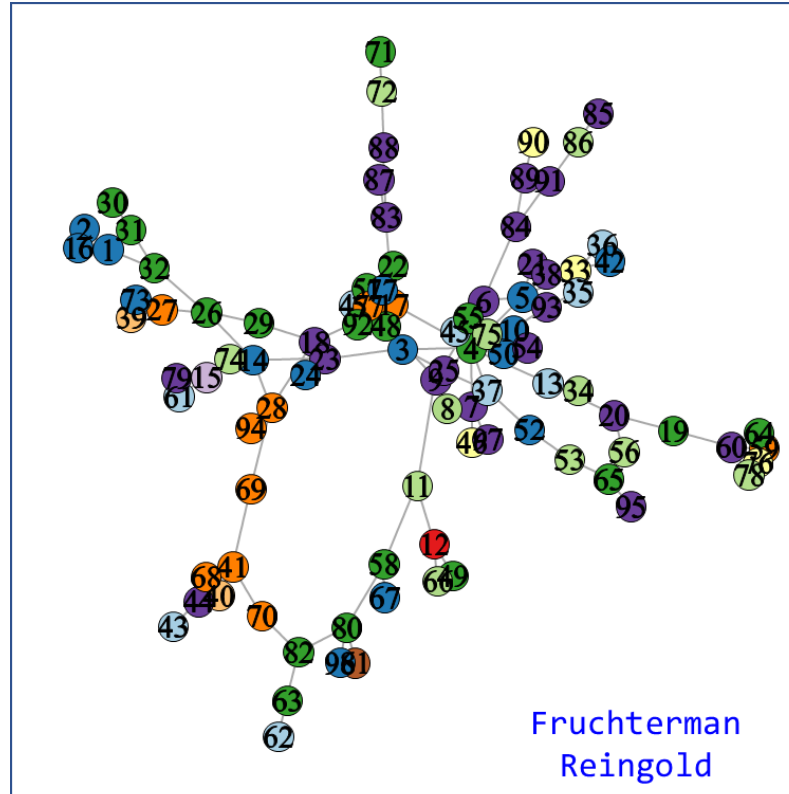
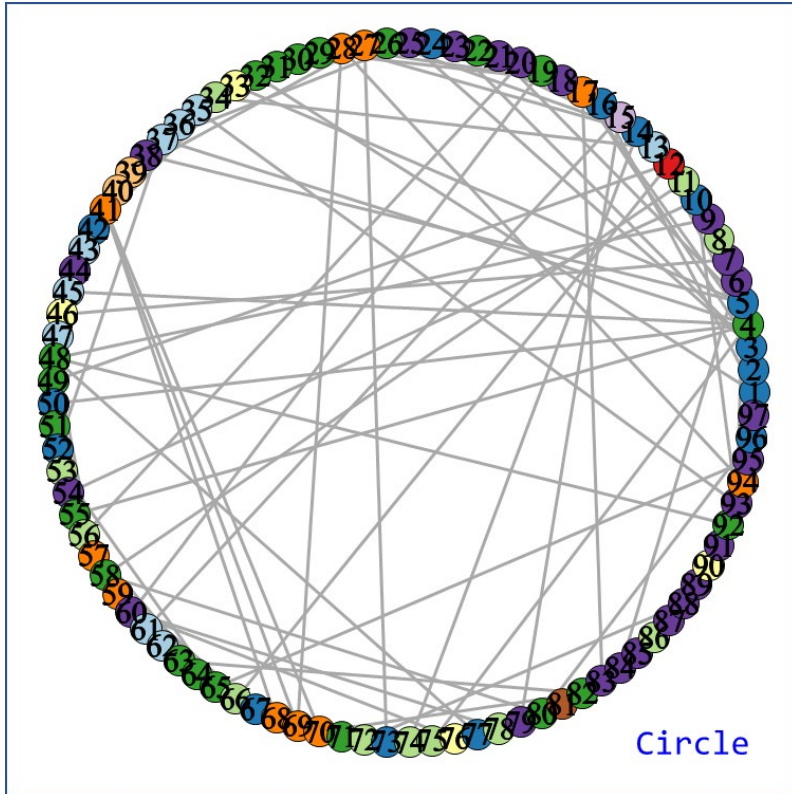


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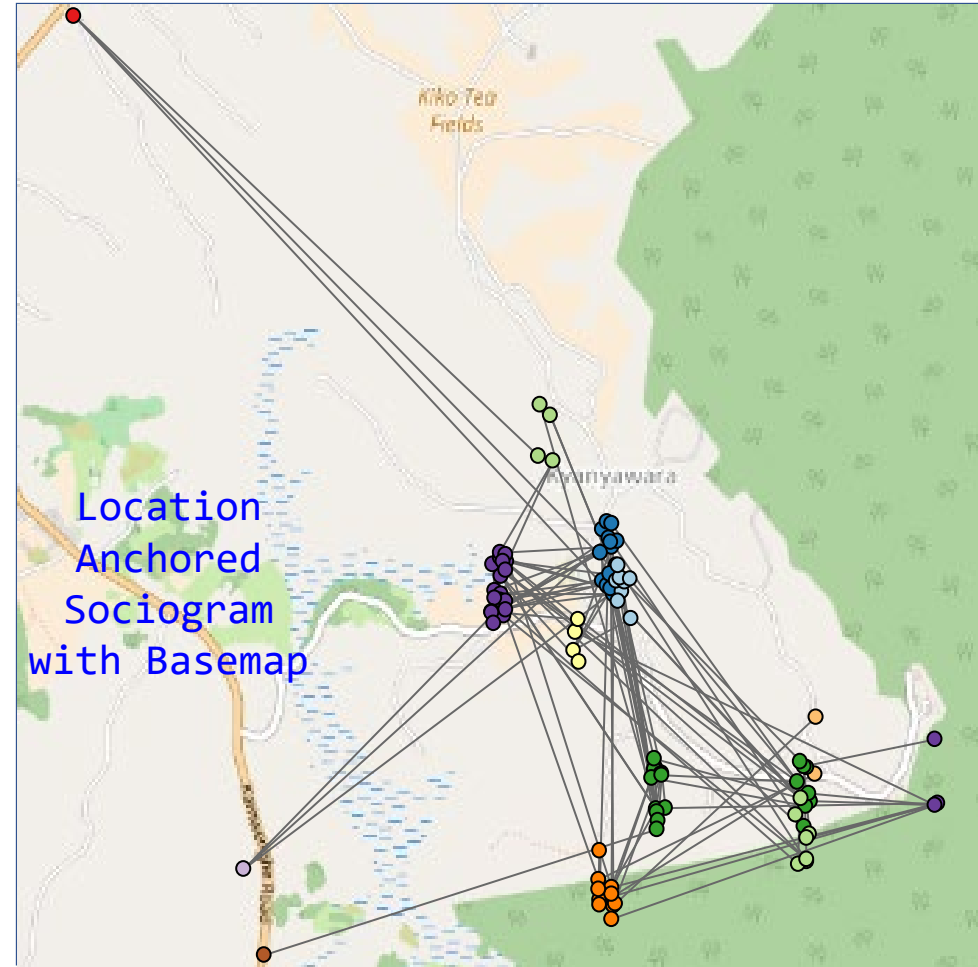
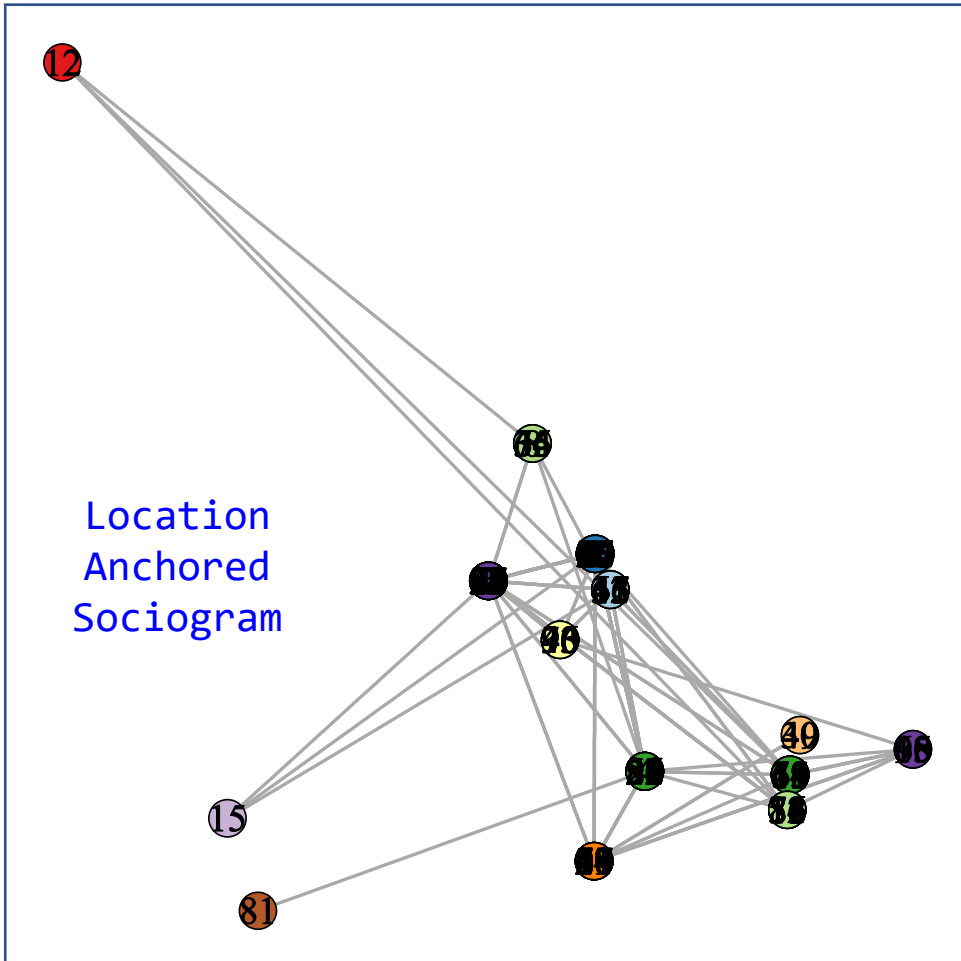
New York NDScan



Dipto Sarkar: Kibale, Uganda



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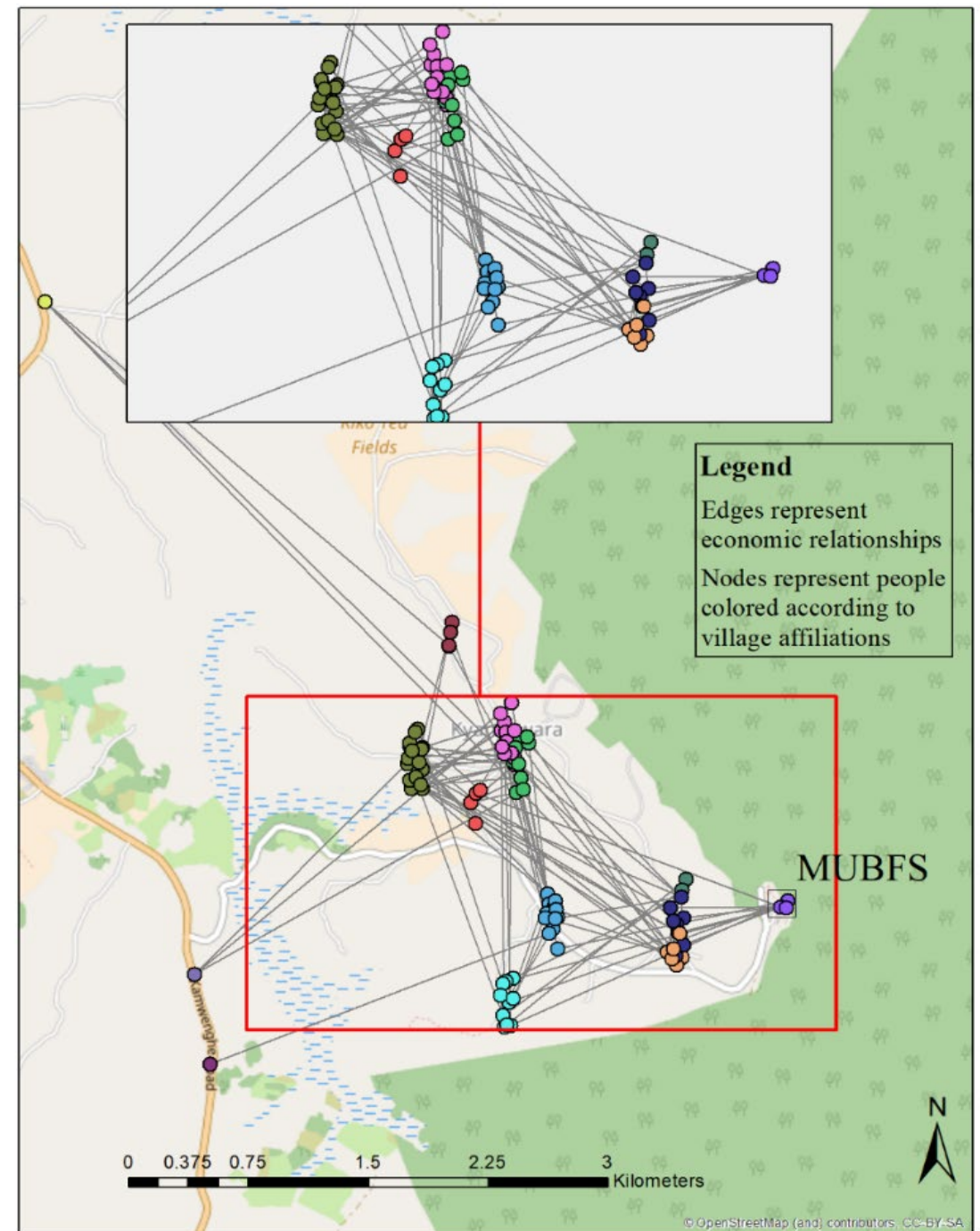


Dipto Sarkar: Kibale, Uganda

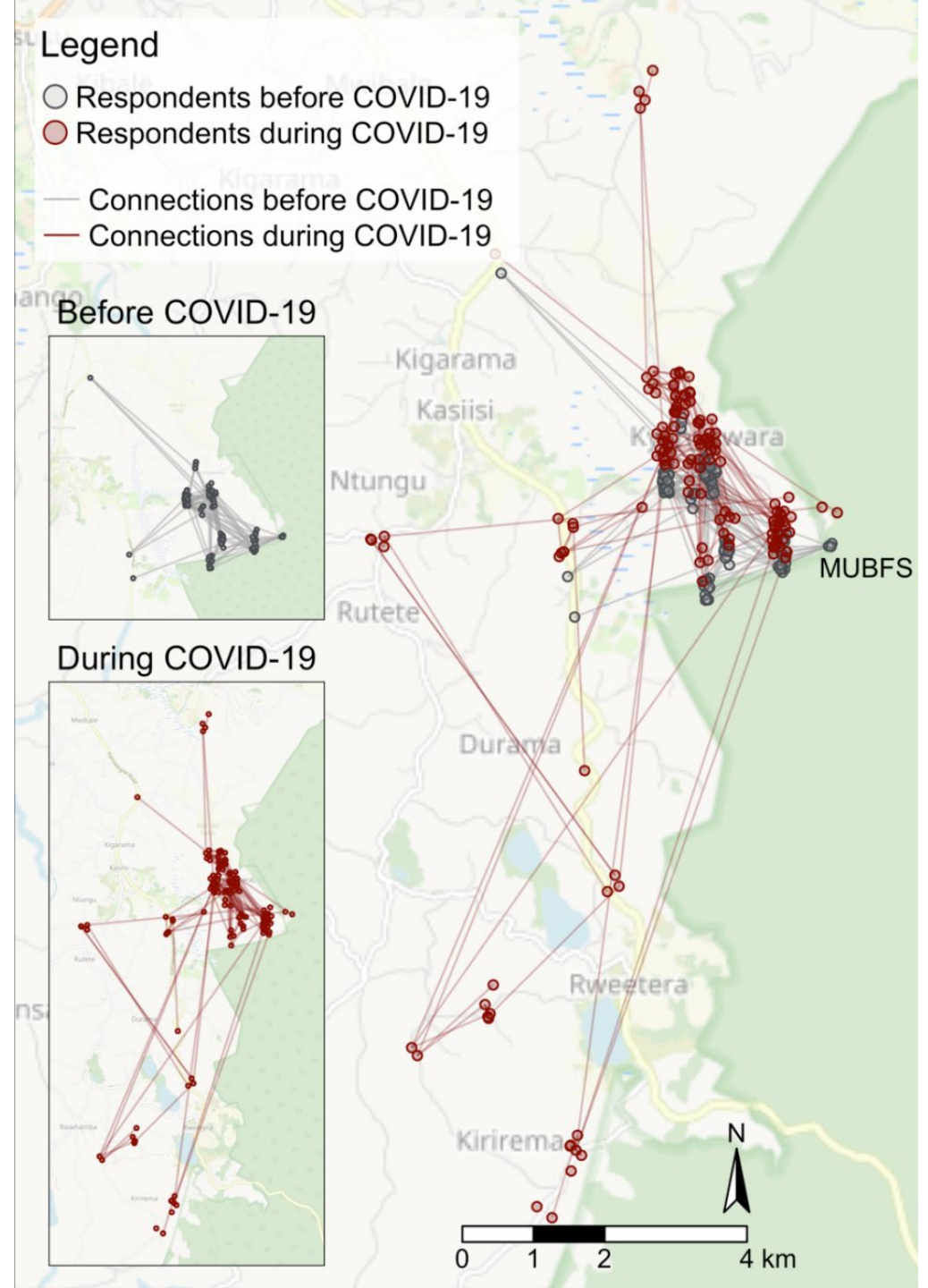
Kibale National Park: *individuals who helped people get a job.*

The network flattening ratio F_s is the sum of the Euclidean distance between every pair of connected nodes in the most “efficient” network \bar{G} compared to the sum of the Euclidean distance between every pair of connected nodes in G .

$$F_s = \frac{\sum |v_i, v_j|}{\sum |v_i, v_j|}$$



Dipto Sarkar: Kibale, Uganda



Jaimie Kelly: The Thrive Network

TRIVE: New River Valley Food Access Network



THRIVE: NRV Food Access Network



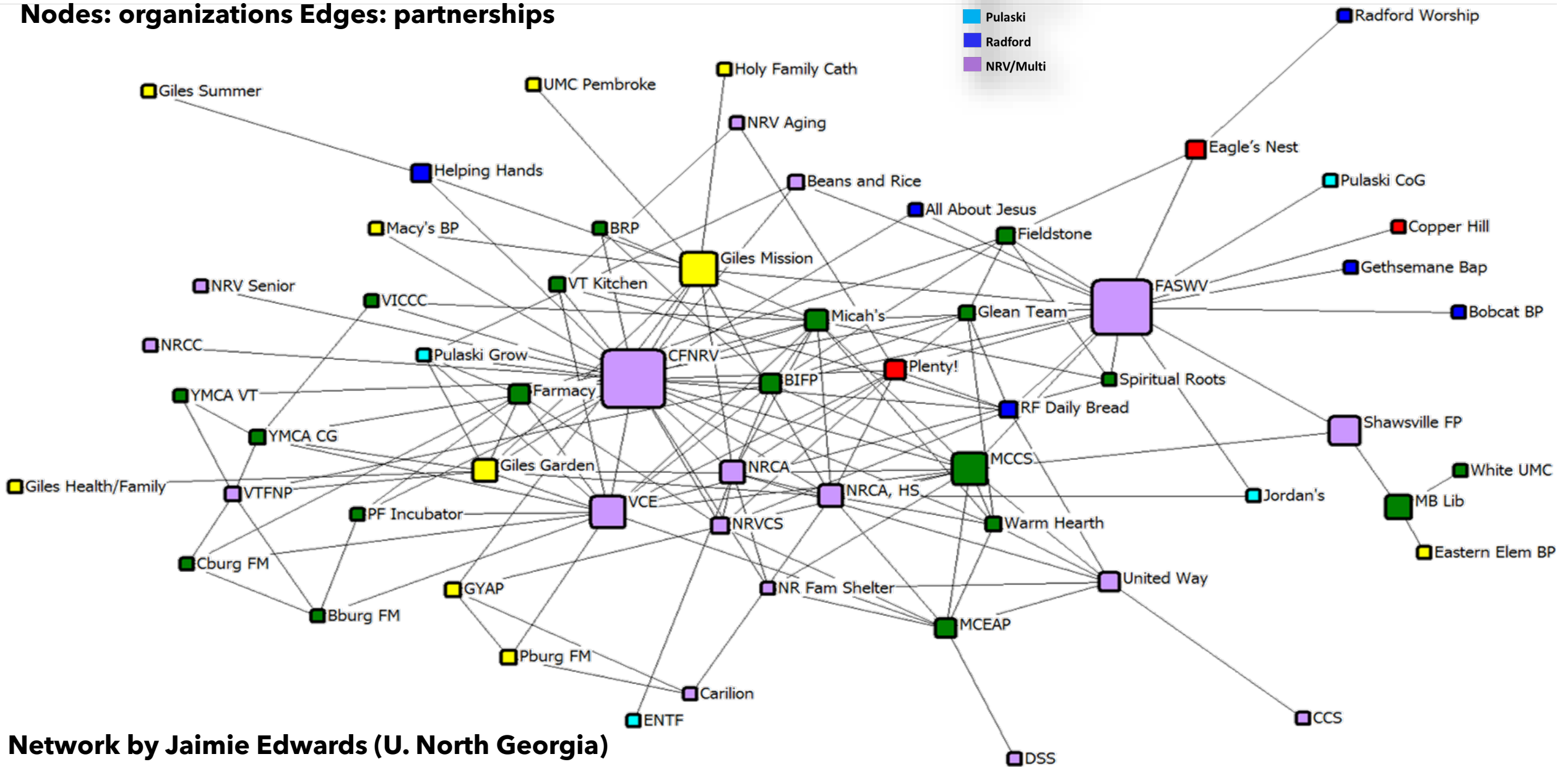
Food Access Network

Nodes: organizations Edges: partnerships

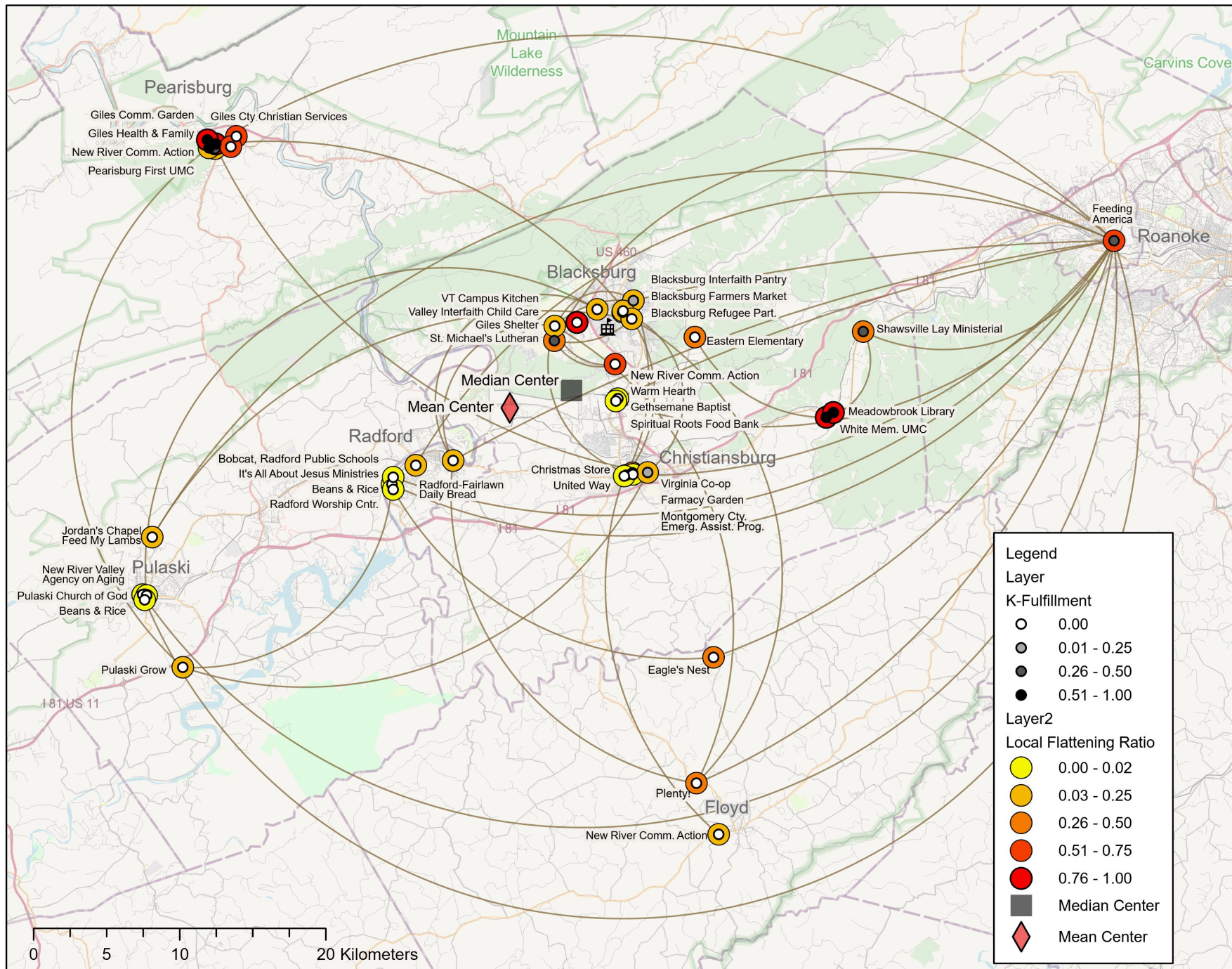
Legend

- Floyd
- Giles
- Montgomery
- Pulaski
- Radford
- NRV/Multi

□ □ □ Sized by Centrality



Network by Jaimie Edwards (U. North Georgia)



Pearisburg
 Giles Comm. Garden
 Giles Health & Family
 New River Comm. Action
 Pearisburg First UMC

Roanoke
 Feeding America

Blacksburg
 Blacksburg Interfaith Pantry
 Blacksburg Farmers Market
 Blacksburg Refugee Part.
 Eastern Elementary
 Shawsville Lay Ministerial

Median Center
 Mean Center
 New River Comm. Action
 Warm Hearth
 Gethsemane Baptist
 Spiritual Roots Food Bank
 Meadowbrook Library
 White Mem. UMC

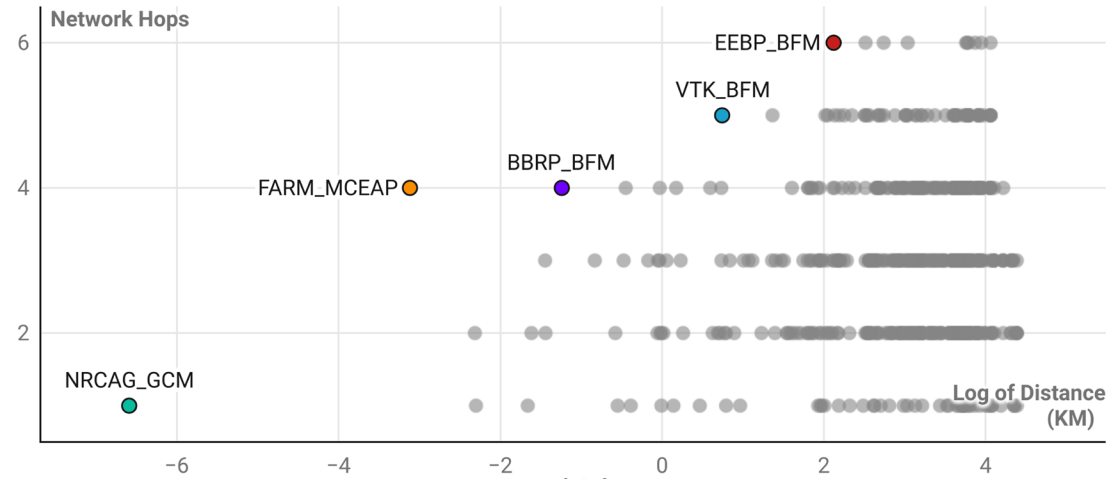
Radford
 Bobcat, Radford Public Schools
 It's All About Jesus Ministries
 Beans & Rice
 Radford Worship Cntr.
 Radford-Fairlawn Daily Bread
 Christmas Store
 United Way
 Christiansburg
 Virginia Co-op
 Farmacy Garden
 Montgomery Cty. Emerg. Assist. Prog.

Pulaski
 Jordan's Chapel Feed My Lambs
 New River Valley Agency on Aging
 Pulaski Church of God Beans & Rice
 Pulaski Grow

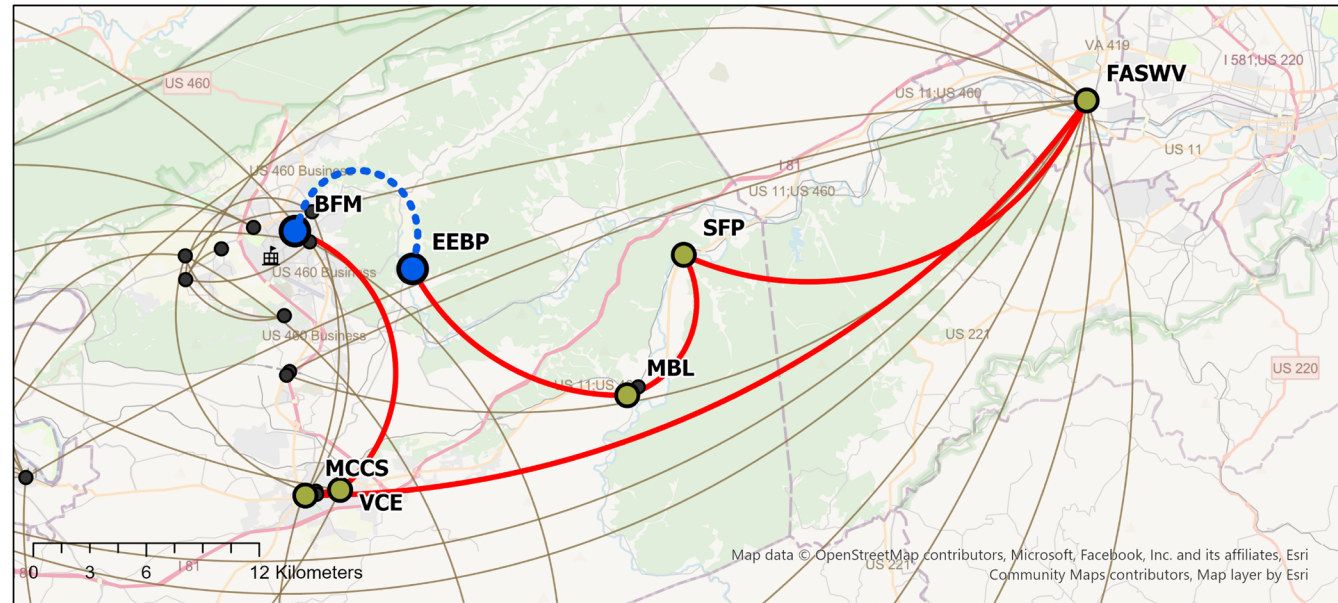
Floyd
 Eagle's Nest
 Plenty
 New River Comm. Action

Pair Distance and Network Hops

- Elementary School (EEBP) + Farmers Market (BFM)
- Farmacy (MARM) + Mont Cty. Emergency (MCEAP)
- New River Action (NRCAG) + Giles Mission (GCM)
- VT Kitchen (VTK) + Farmers Market (BFM)
- Blacksburg Refugee Partnership (BBRP) + Farmers Market (BFM)



(A)



(B)