Regional Collaboration and Preparedness for Terrorism and Extreme Events

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with
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NATURAL HAZARDS CENTER

START NATIONAL CONSORTIUM FOR THE STUDY OF TERRORISM AND RESPONSES TO TERRORISM
A CENTER OF EXCELLENCE OF THE U.S. DEPARTMENT OF HOMELAND SECURITY BASED AT THE UNIVERSITY OF MARYLAND

Overview of Discussion

- Research Strategy
- Main Themes
- Network Analysis
- Conclusions

Research Strategy

- Face to face interviews with representatives from 5 urban areas
- Network checklist
- Qualitative data analysis
- Social network analysis

Research Questions

Key research questions:

- How are urban areas organized for regional collaboration?
- How are homeland security directives being implemented “on the ground” in different communities?
- How are directives perceived by those who are charged with implementing them?

Main Themes

1. Patterns of Collaboration Pre-UASI
2. DHS Guidance and Requirements
3. Power Structures—Disciplines, the City and the State

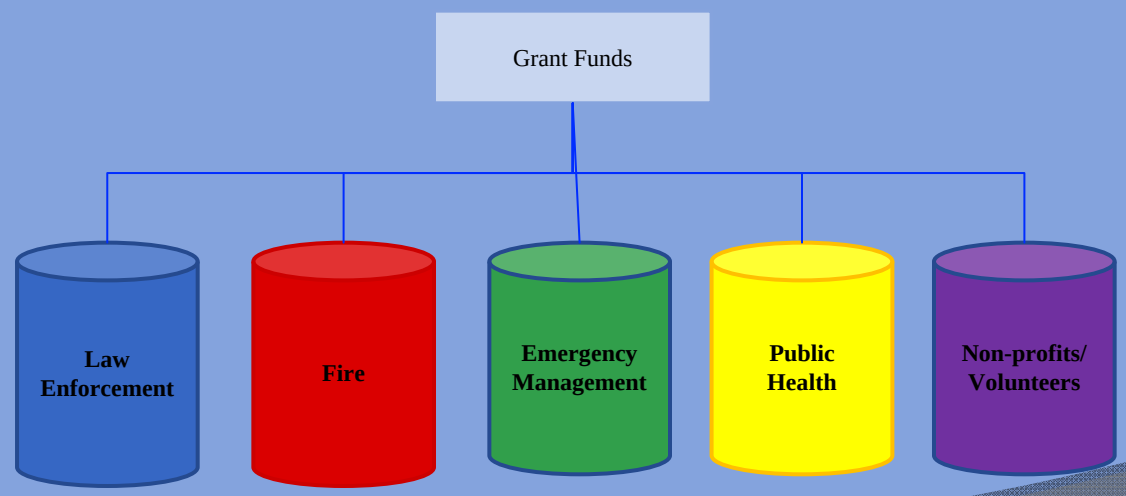
Patterns of Collaboration Pre-UASI

Collaborative Influences:

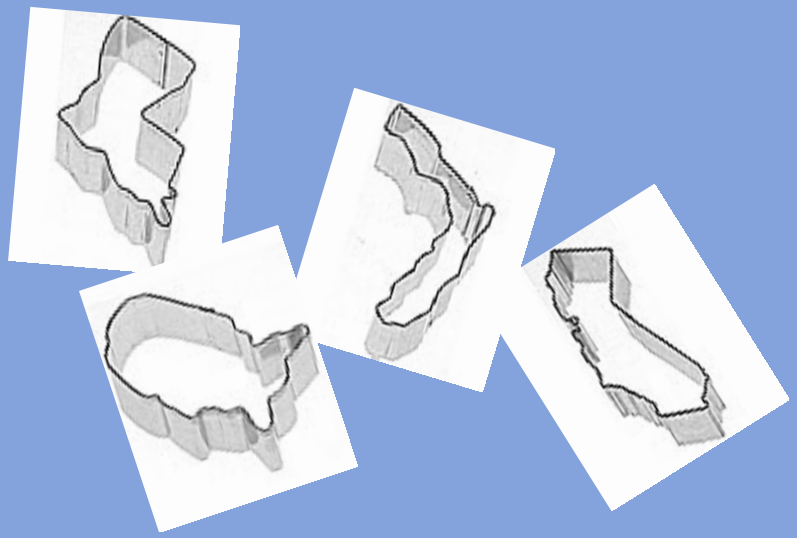
- Agreements and Associations
- Geographic Proximity
- Driven by Events

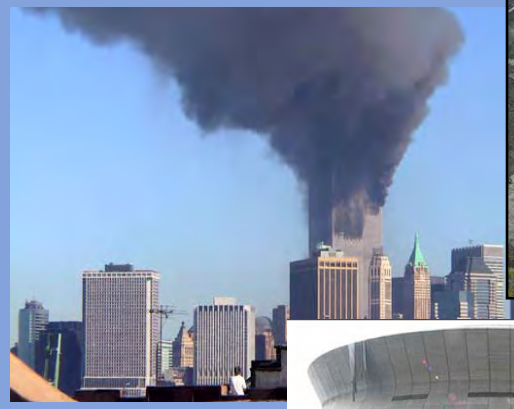
Consequences:

- Stovepiping
- Temporary Relationships



DHS Guidance



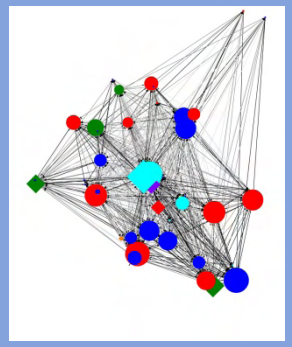
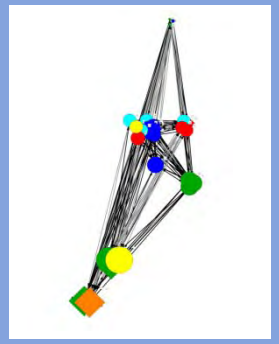
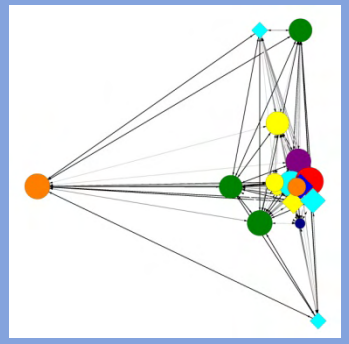
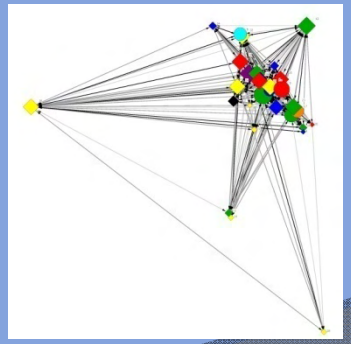
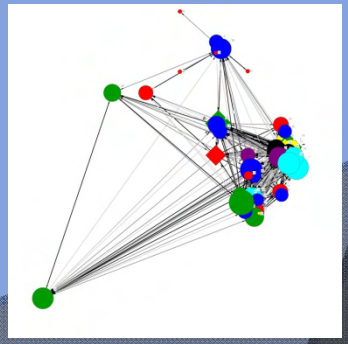


UASI Distribution of Power

Understanding Social Networks

Network analytic techniques reveal:

- Overall network composition
- Extent of collaboration
- Potential power structures

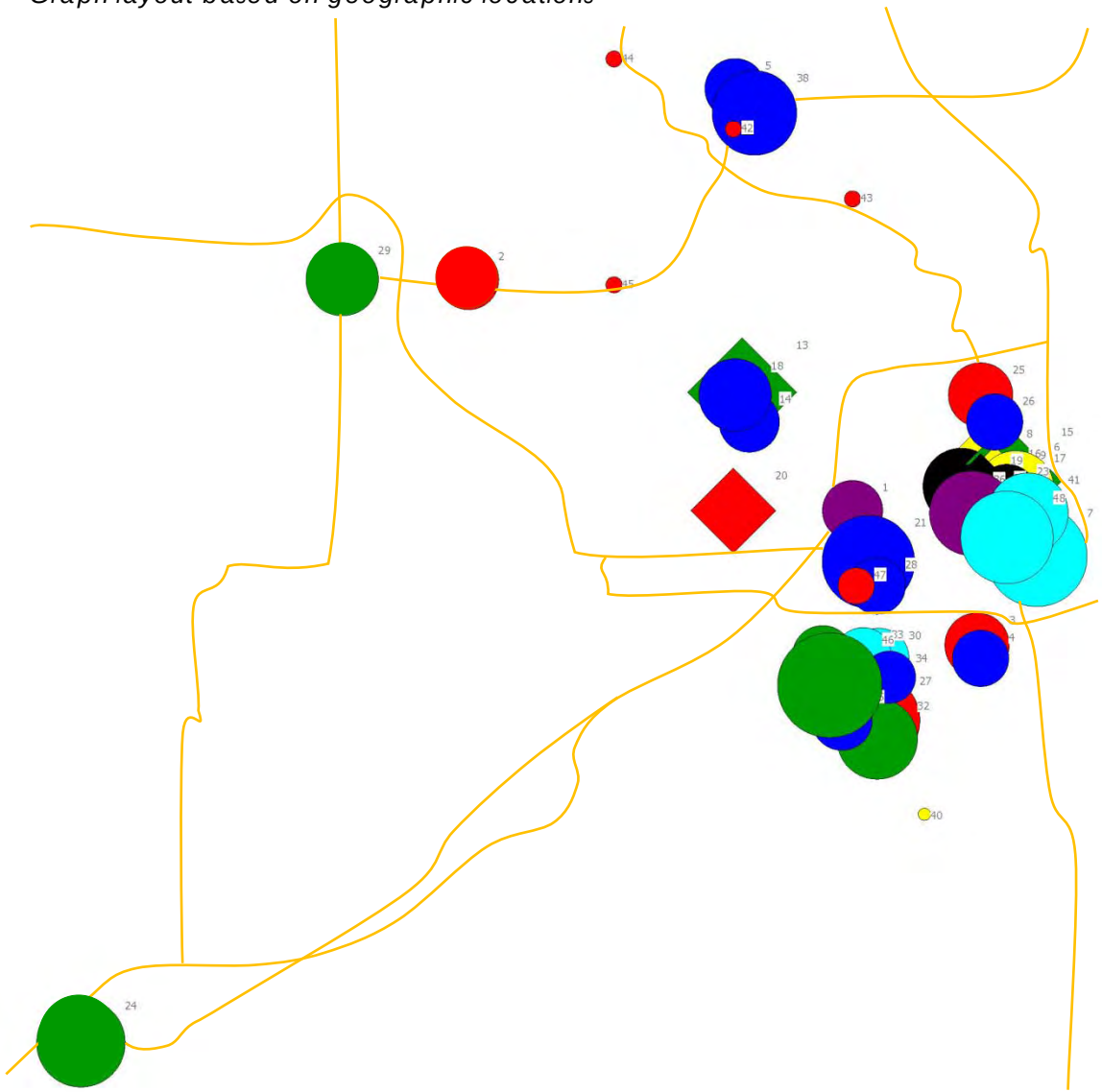






Voting and Non-voting Percentages

	UASI 1		UASI 2		UASI 3		UASI 4		UASI 5	
	Overall	*Voting*	*Overall*	*Voting*	*Overall*	*Voting*	*Overall*	*Voting*	*Overall*	*Voting*
Fire	26.5	42.3	12.1	14.3	23.0	11.1	13.9	14.8	15.4	20.0
Law Enforcement	38.8	42.3	21.2	14.3	19.7	11.1	19.4	22.2	28.2	20.0
Emergency Management	14.3	7.7	24.2	42.9	4.9	22.2	19.4	18.5	15.4	20.0
Public Health	2.0	-	6.1	-	21.3	11.1	30.6	33.3	5.1	20.0
Local Officials	10.2	7.7	21.2	14.3	18.0	44.4	5.6	-	15.4	10.0
State Officials	2.0	-	3.0	14.3	3.3	-	5.6	3.7	-	-
Federal Government	-	-	12.1	-	3.3	-	-	-	2.6	-
Non-Profit	2.0	-	-	-	3.3	-	2.8	3.7	6.1	10.0
Other	4.1	-	-	-	3.3	-	2.8	3.7	12.8	-

Omaha UASI Network

Graph layout based on geographic locations



Legend

Organizational features

Type of organization

- Fire
- Law enforcement
- Emergency management
- Public health organizations
- Local government
- State government
- Non-profit/volunteer
- Other

Voting member of UASI

- Yes
- No

Closeness

- Low degree of closeness
- High degree of closeness

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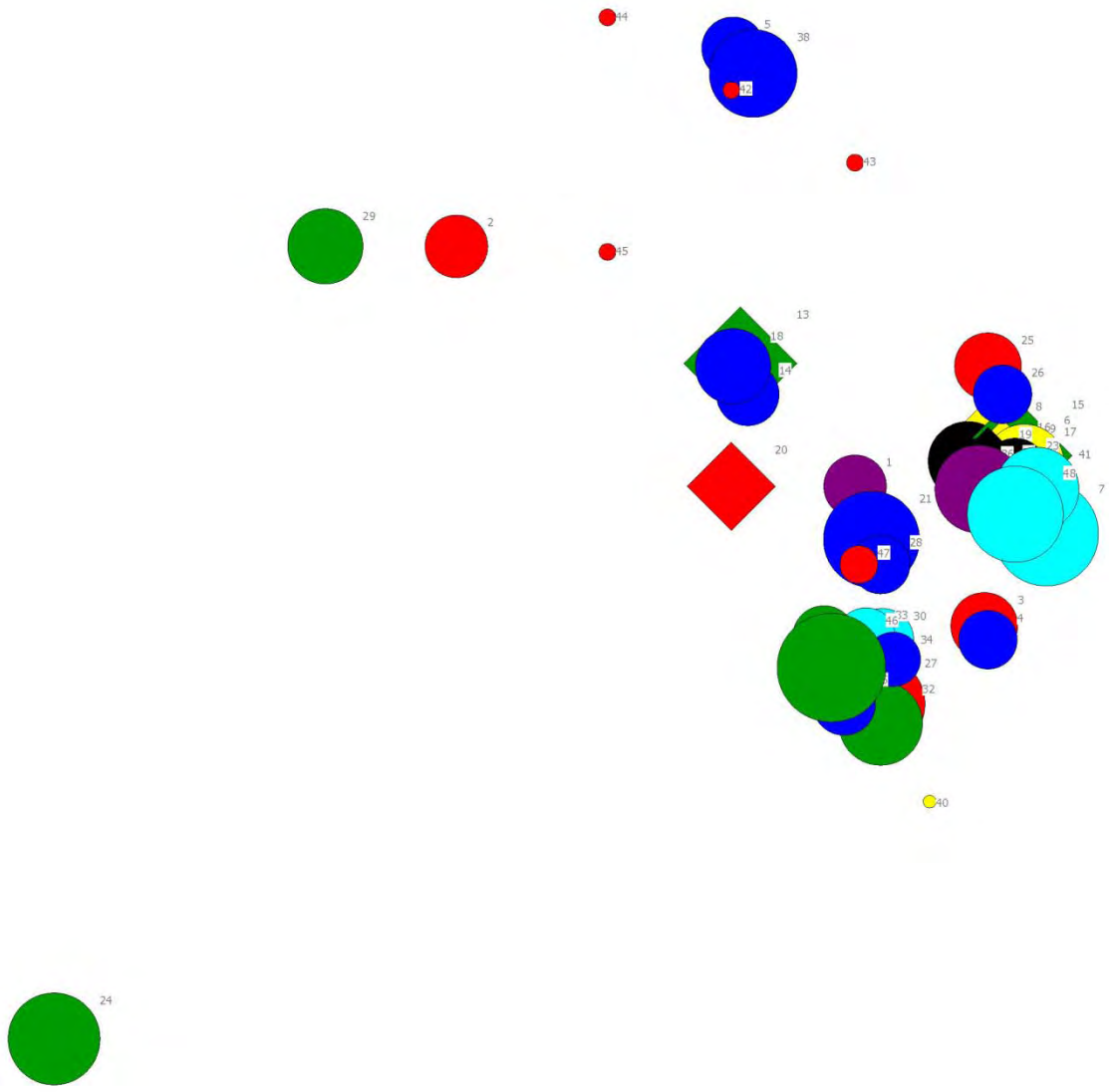

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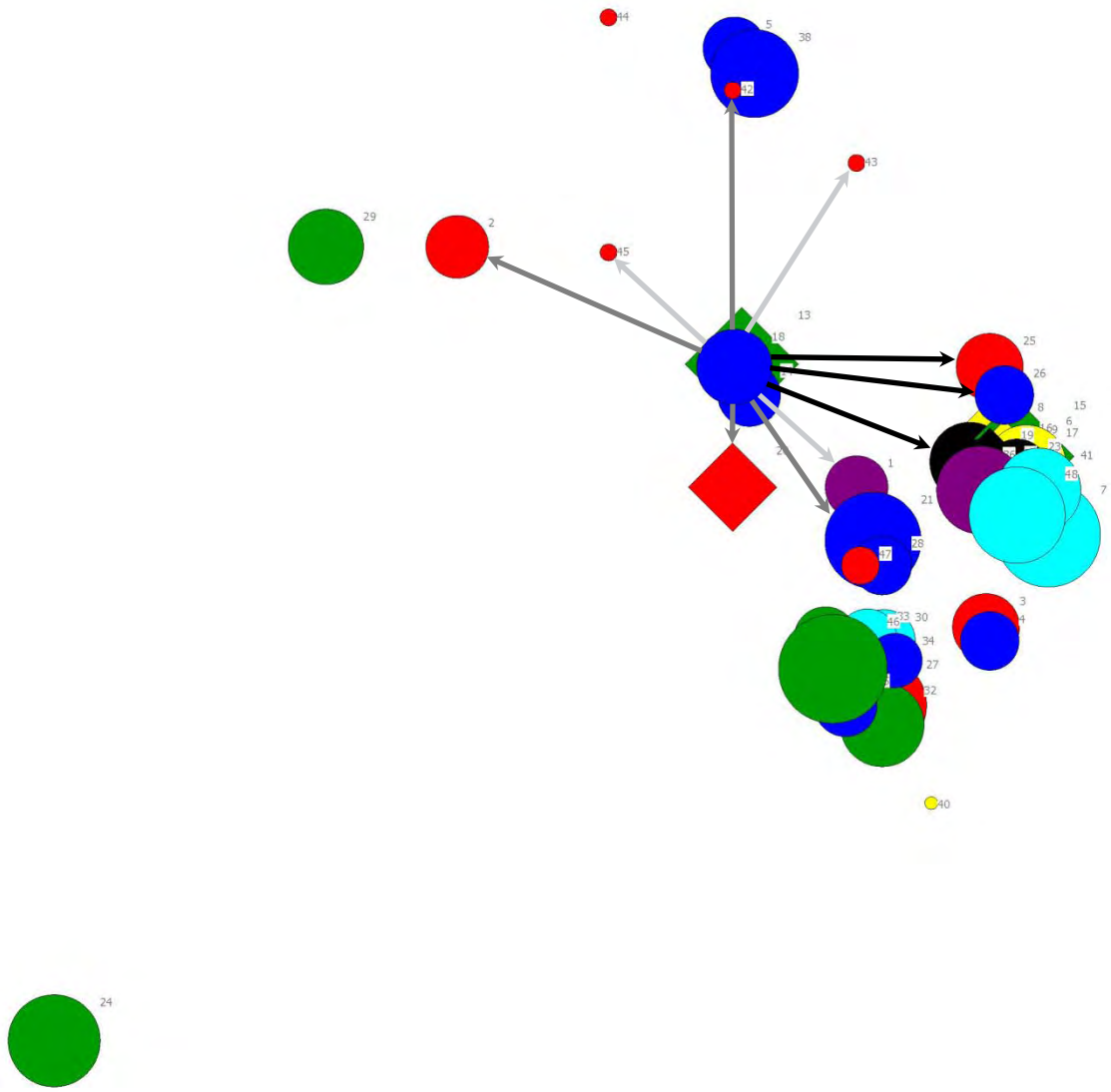

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Relational features

Direction of interaction

Frequency of interaction

- At least quarterly
- At least monthly
- At least weekly

Closeness

Low degree of closeness

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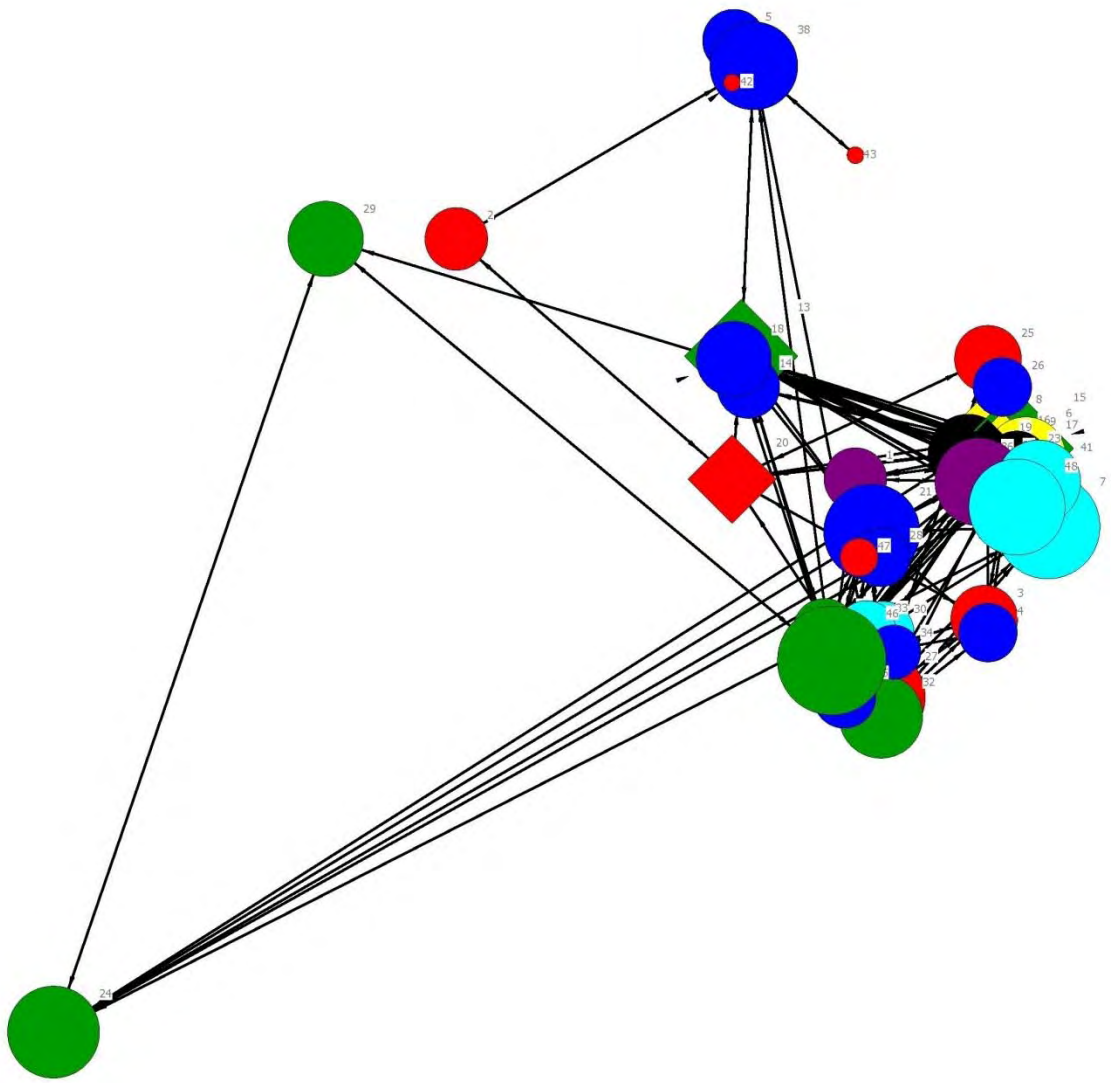

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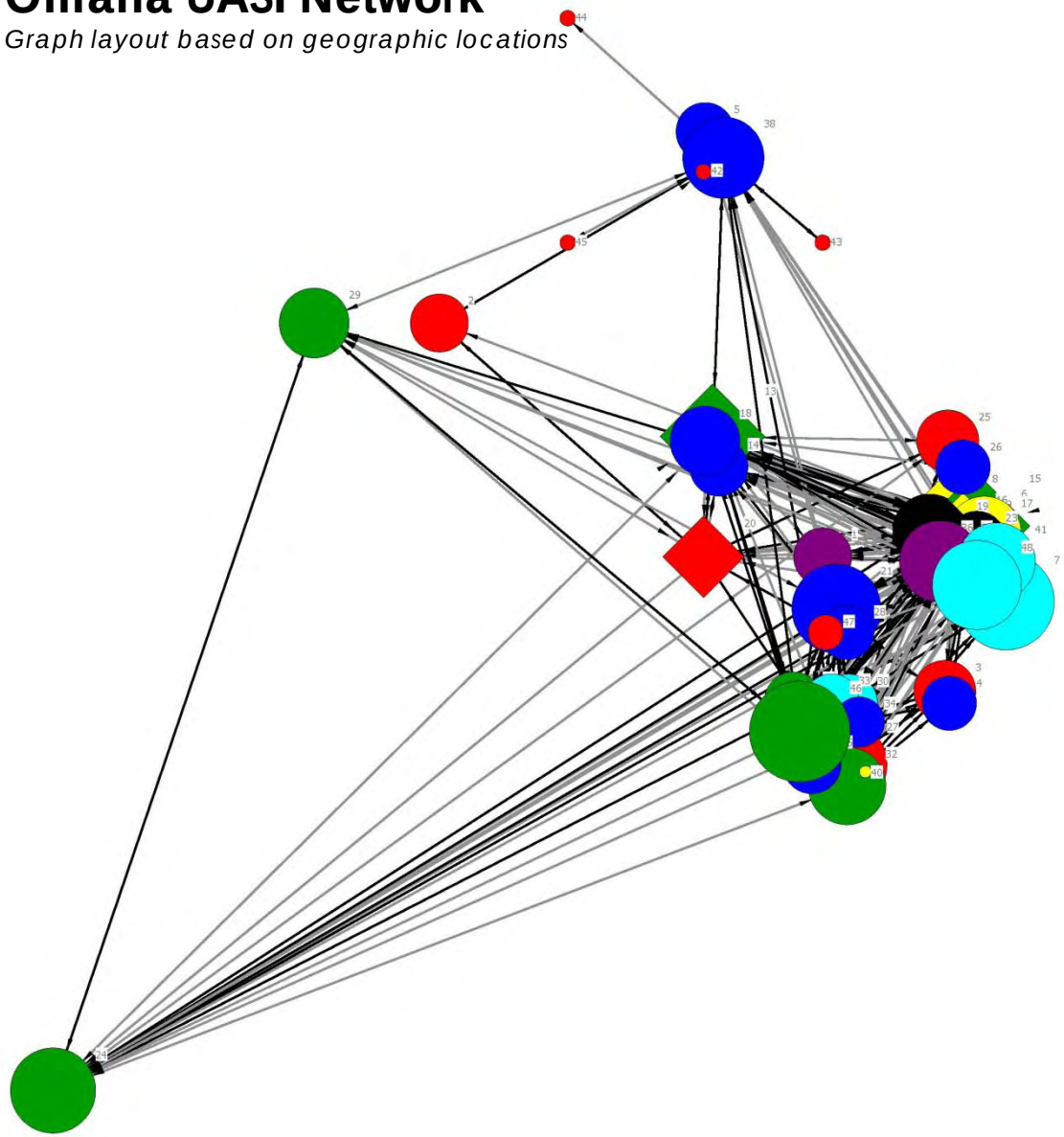

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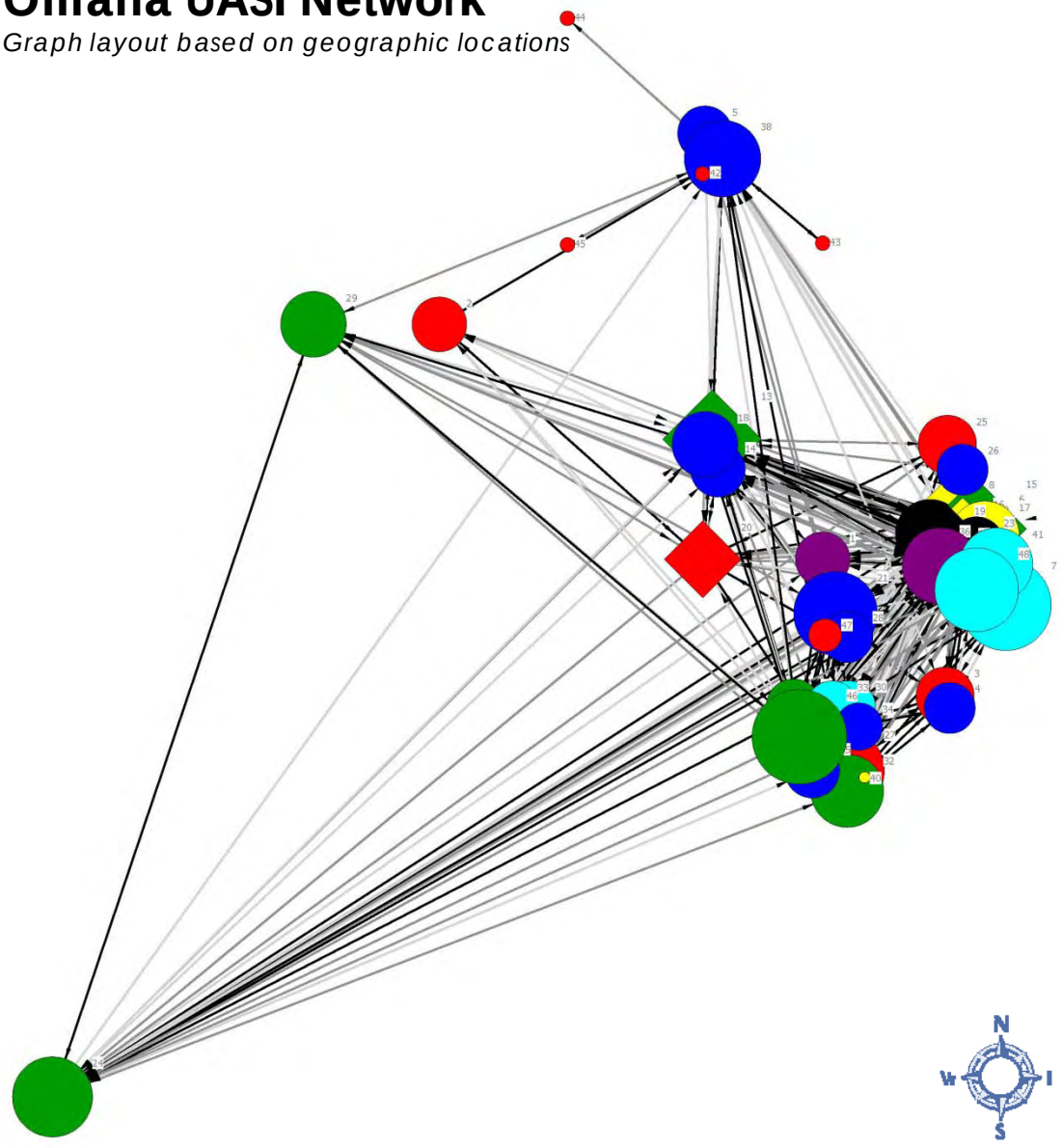

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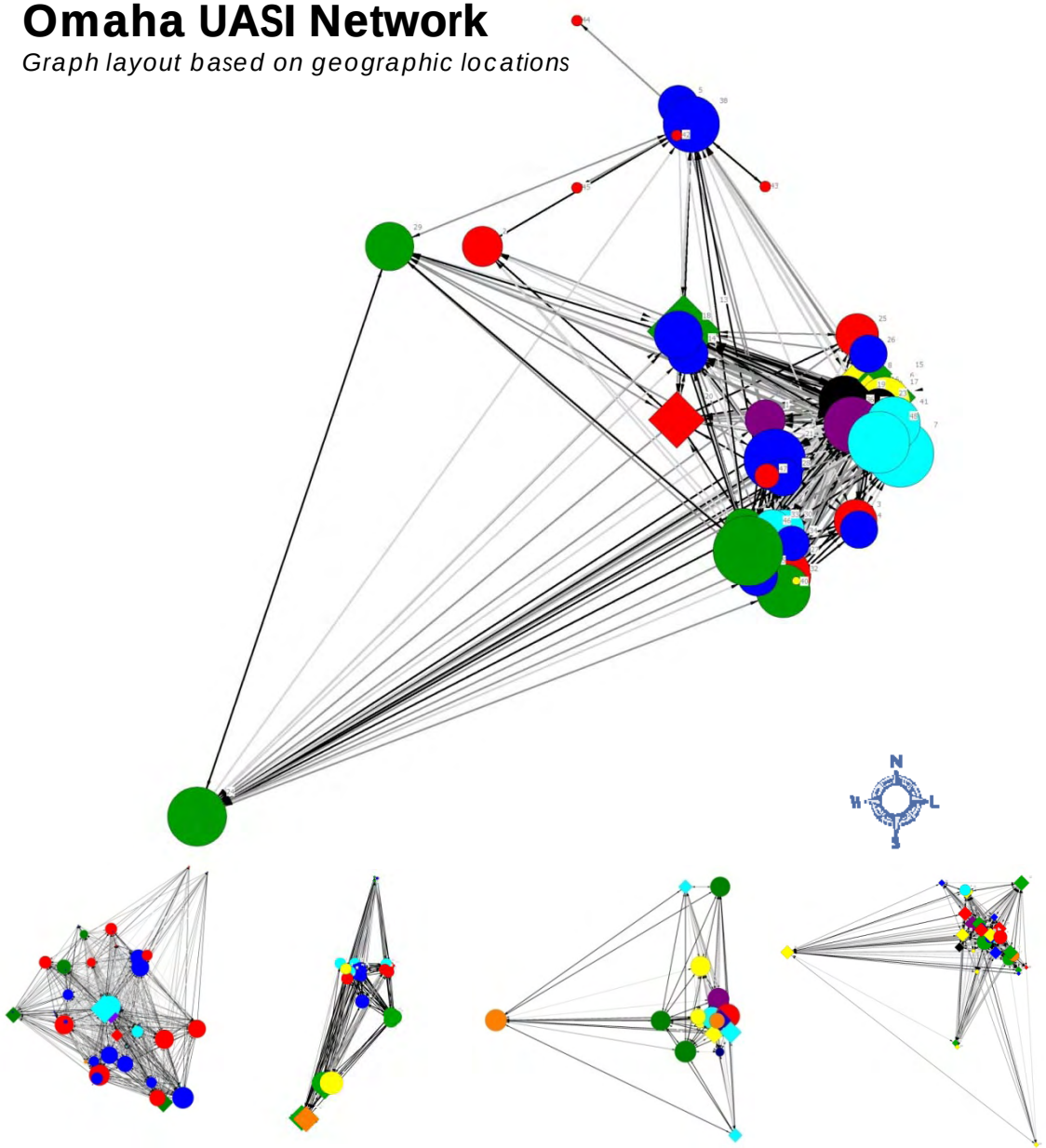

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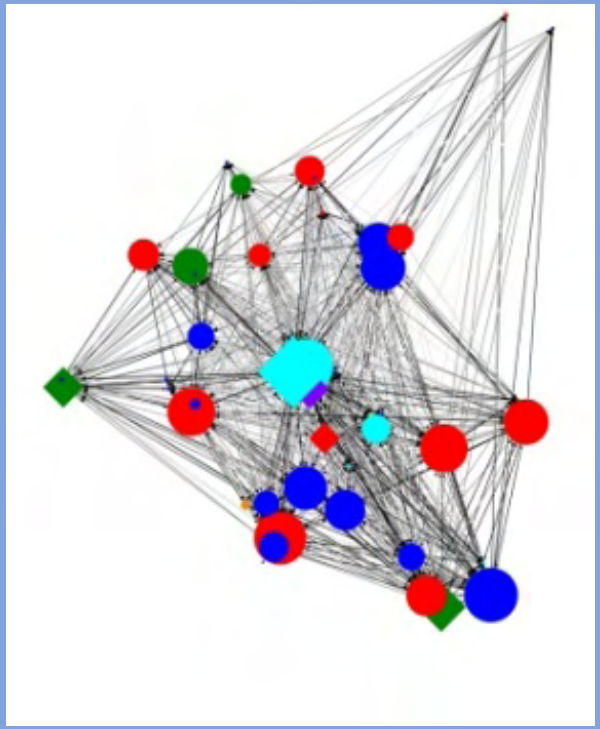
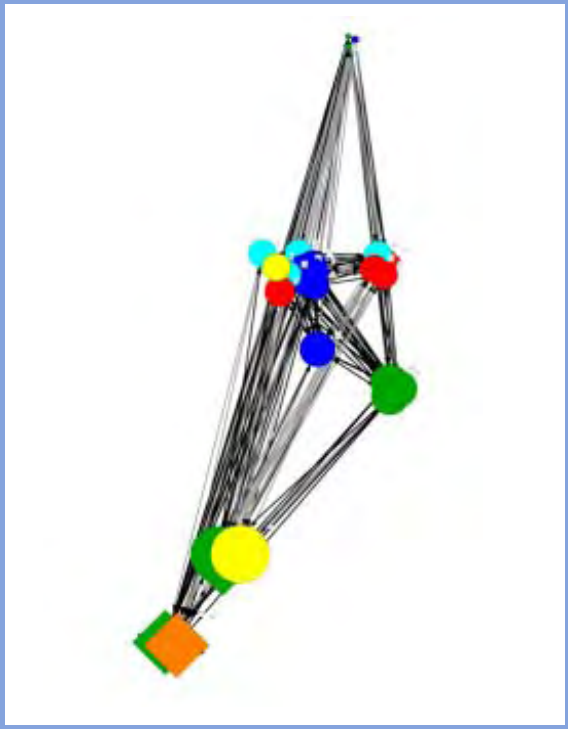
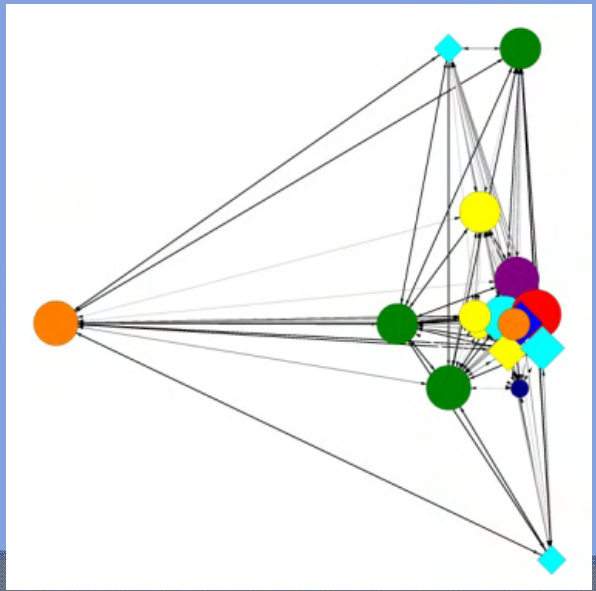
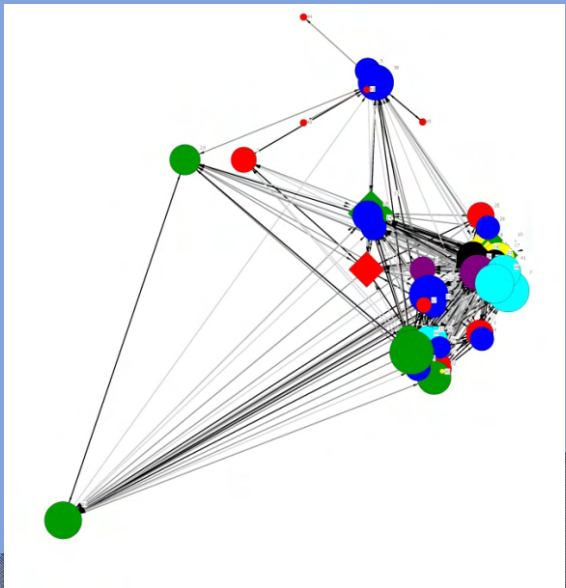
Conclusions

- Sustainability
  - Relationships
  - Training and exercises
  - Equipment and resources
  - Dedicated personnel
- Collaboration
  - Missing partners
  - Liability of unconnectedness









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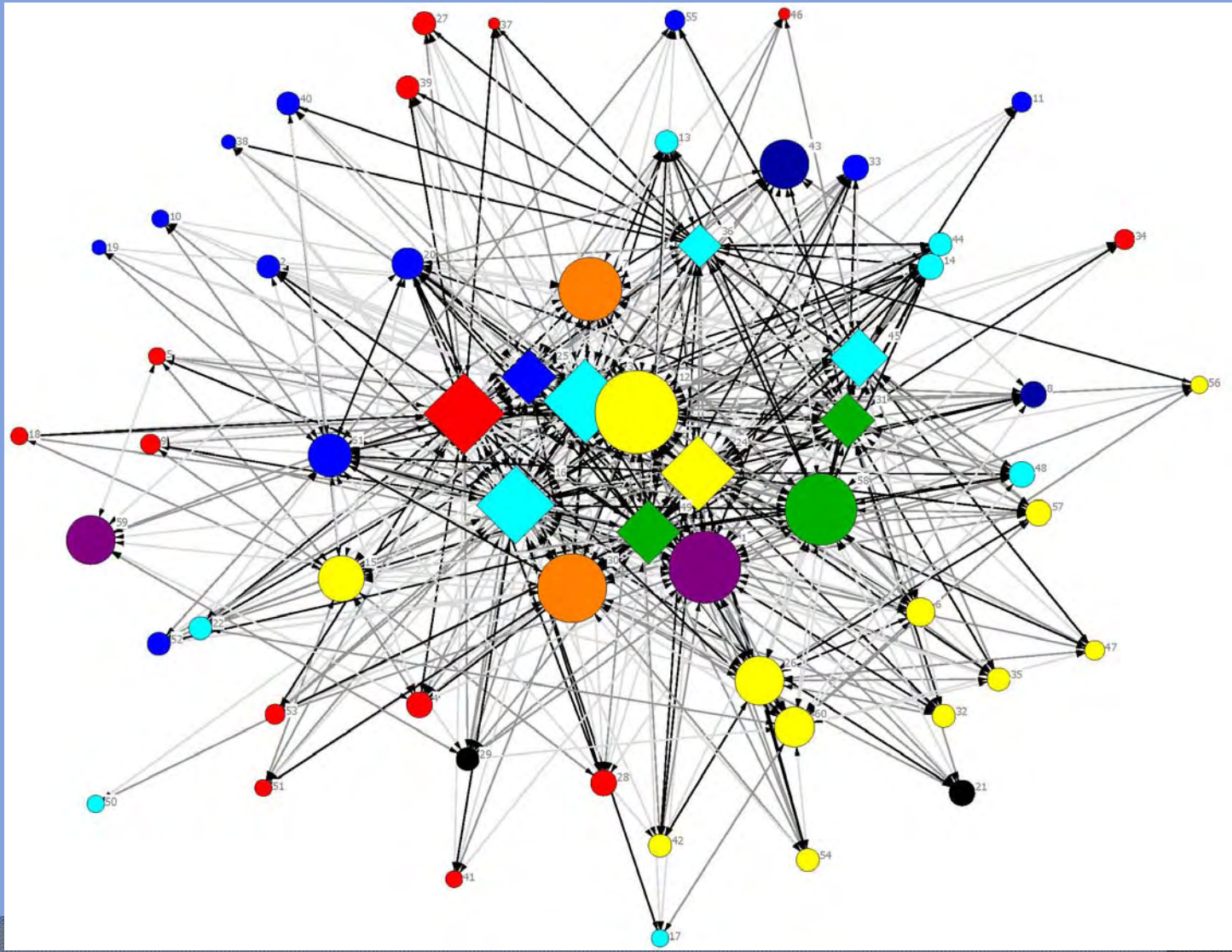
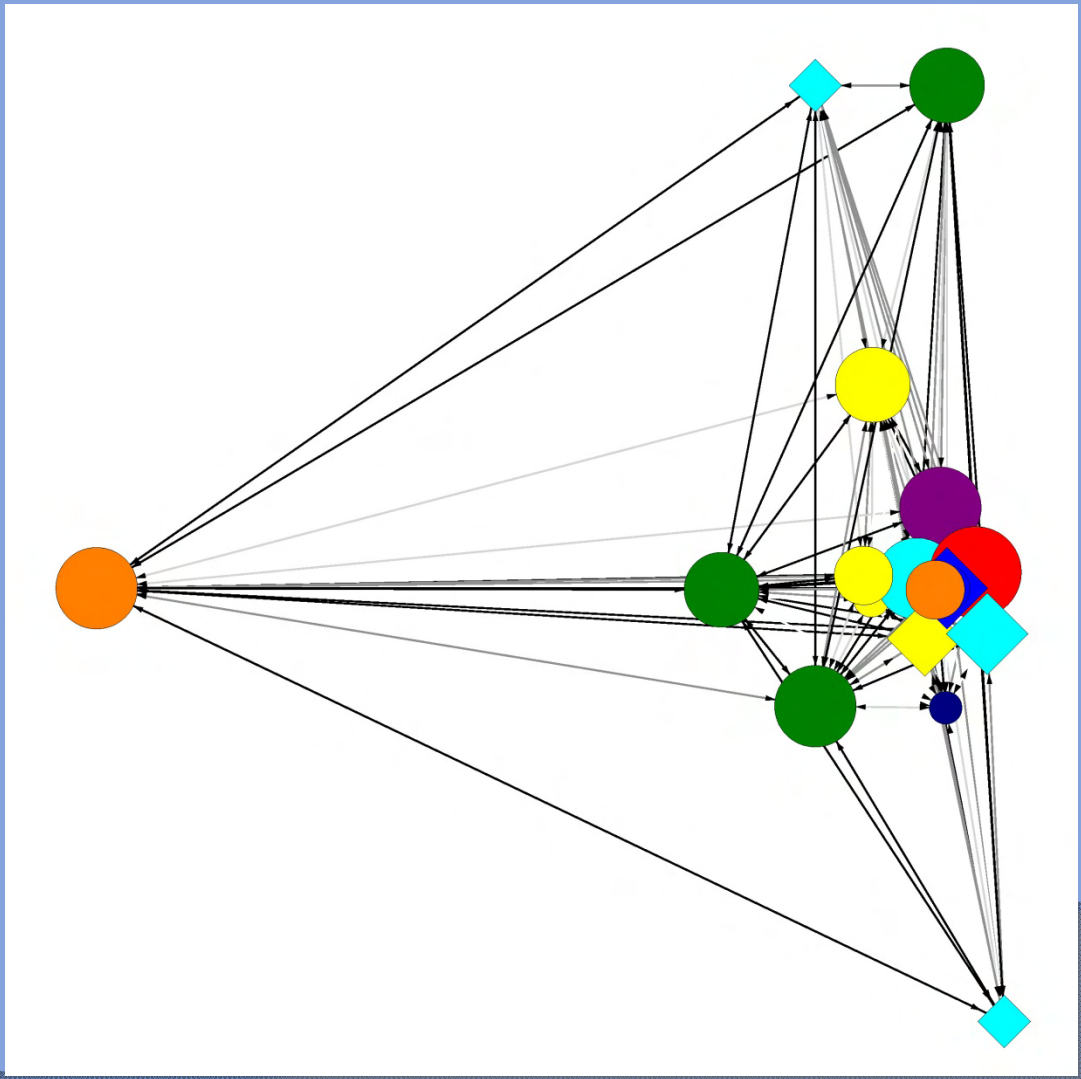
Strength of Networking



Relationships across the Region