Web Tools for Fostering and Analyzing
International Counterterrorism
Collaboration and Knowledge Fusion

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Project Overview: Interdisciplinary Approach

Network Science: The study of network representations of physical, biological, and social phenomena leading to predictive models of these phenomena⁕.

Virtual Ethnography: Research methods that adapt ethnography to the study of the communities and cultures created through computer-mediated interactions.
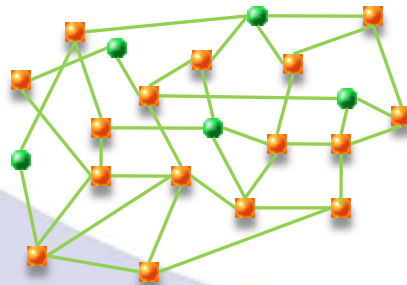
Theoretical approach combines new work in social and behavioral representations from network science with established ethnographic methods for cultural analysis alongside novel HSCB models, methods, and tools.

Project Overview: Key Research Questions

Key Research Questions:

- How do we build effective collaboration and knowledge/data fusion social structures (nets) through computer-mediated interactions?

- What metrics are the best measures of our effectiveness?

- What is the best level of abstraction to develop an actionable behavioral model of CT collaboration and knowledge/data fusion?

- How do we most effectively apply the M&S output/conclusions to existing international collaboration efforts and fusion centers?
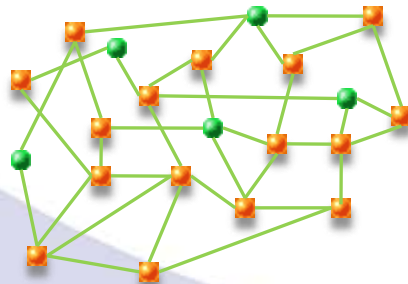
Gather data from computer-mediated interactions, develop model parameters, simulate effects of behavioral and social changes on CT collaboration effectiveness.

Project Overview: HSCB M&S Analysis MMT

HSCB Methods, Models, and Tools for analyzing collaboration:

- Supply a very *large amount* of structured and traceable socio-cultural and behavioral data for current and future HSCB MMTs
- Behavioral Pattern Analyses, Sentiment Analysis/Opinion Mining
- Advanced Social Network Analysis (SNA), large-n network analyses, topologies/network growth, dynamic network processes
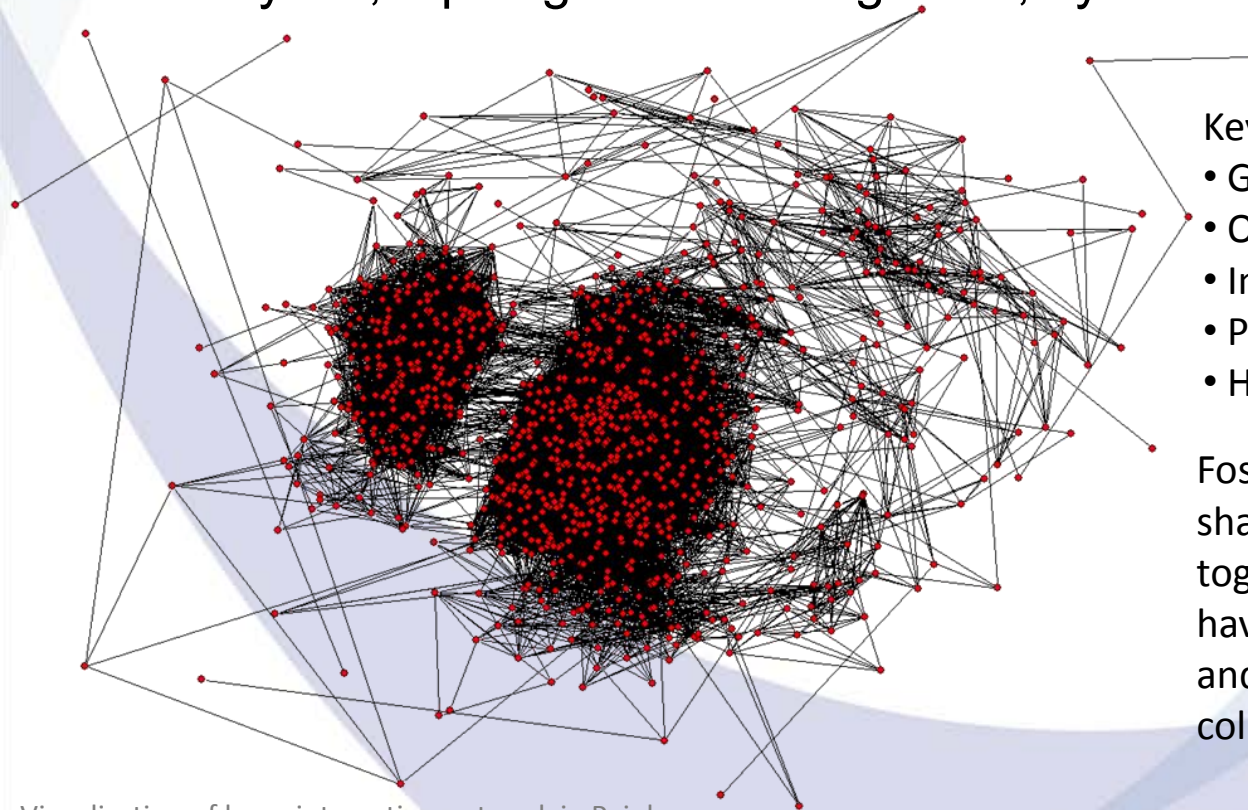
Key Analysis Data:
- Group formation and dissolution
- Opinion consolidation and polarization
- In-group vs. inter-group connectivity
- Presence of bridging ties and groups
- Hierarchy vs. global reachability

Foster efficient teamwork, information sharing and knowledge fusion by linking together the individuals and groups that have the necessary interests, expertise, and information to effectively solve collaborative problems.

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Thank You!

Questions?

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