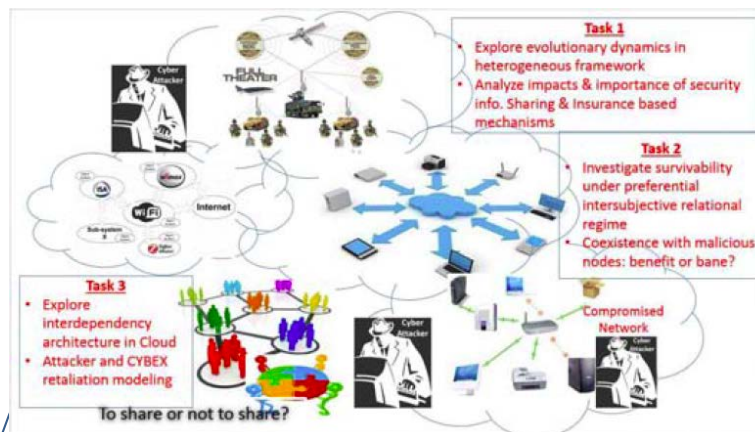# Establishing market based mechanisms for CYBer security information EXchange (CYBEX)

Challenge:

- Can we establish market based mechanisms for enabling Cyber Security Information Exchange (CYBEX)
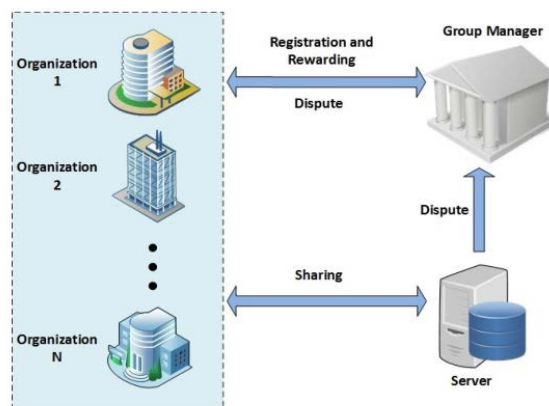- Can we become proactively secure?

Scientific Impact:

- Identify, model, and analyze the competition process among entities in cybersecurity information exchange framework
- Analyzing the evolutionary and adaptive multi-dimensional environment with intertwined competitions

Solution:

- Explore game theory (micro and macro-economic theory as a substrate)
- Explore behavioral game theory
- Explore CYBEX testbed development

Broader Impact:

- Research results will demonstrate the level of interaction among corporations for security info. exchange, which can potentially be used by authorities in their regulation process.
- Robust outreach efforts to K-12, General Public, Undergraduate, Graduate students (including minority and women) in CS and Security