A large sailing ship with multiple masts is silhouetted against a bright, shimmering sea at sunset. The water is covered in golden reflections, and the sky is a deep, dark blue. The ship is positioned on the left side of the frame, moving towards the right.

Social Networks and Resilience:

Measuring Individual and
Community Cohesion

Brian Mayer, School of Sociology

**Social Networks provide the ‘engine’
that drives adaptation and recovery.**

**More than socioeconomic
conditions, population
demographics, or
development aid and
interventions;**

**Individuals and Communities that are
‘interconnected’ consistently recover and
adapt at more successful and faster rates.**

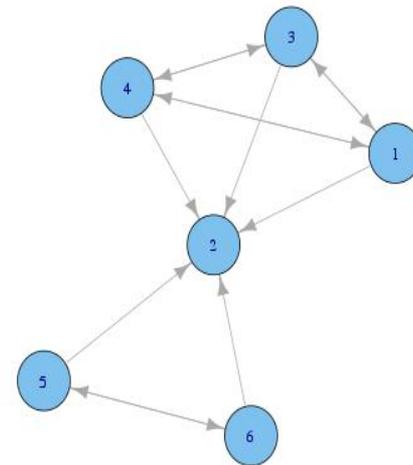
How Do We Measure 'Connectedness'?

Social Network Analysis

Sociocentric Data

	a	b	c	d	e	f
a	*	0	1	1	0	0
b	1	*	1	1	1	1
c	1	0	*	1	0	0
d	1	0	1	*	0	0
e	0	0	0	0	*	1
f	0	0	0	0	1	*

Egocentric Data

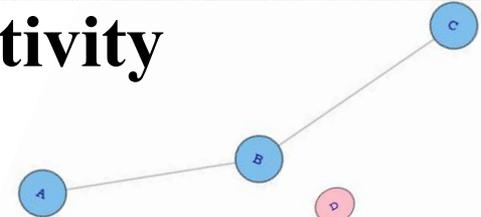


Determining and Measuring Networks

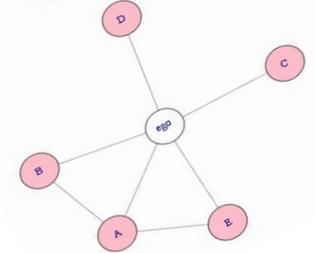
Identifying Personal Networks

- **Generating Ego's Alters**
n= (?)
 - Names (Random, A-Z, ...)
 - Position (Jobs, Location, ...)
 - Resource (Provide help with?)
- **Overlaying individuals into 'community' social networks**

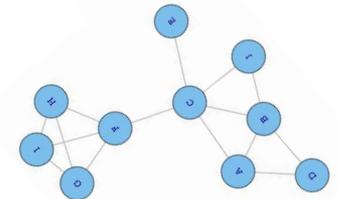
- **Transitivity**



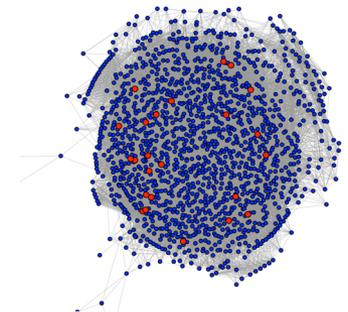
- **Homophily**



- **Centrality**



- **Density**



Do Networks Matter?

