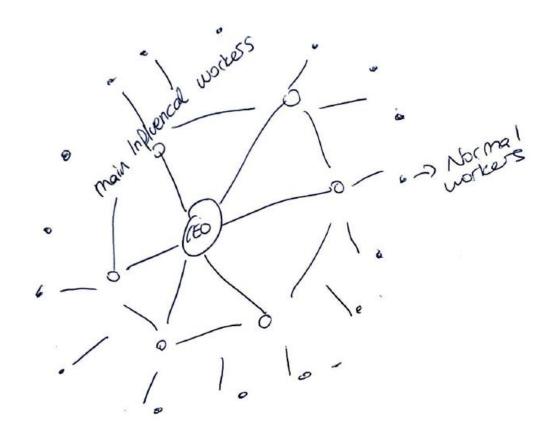


Anna Sokolova, MSc 28.02.2024

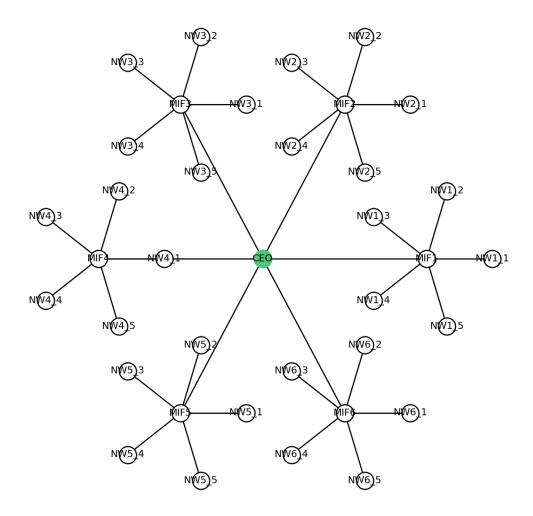
Session 3

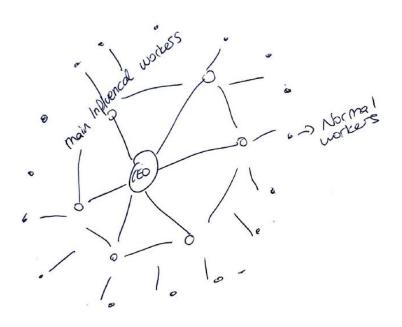
- 1. Scenarios from last session
- 2. Article presentation: Social Capital in Europe
- 3. Text discussion
- 4. Next session

• A company wants to implement a new filing protocol for its workers. The employees are reluctant to use the new system. How to best implement this innovation?

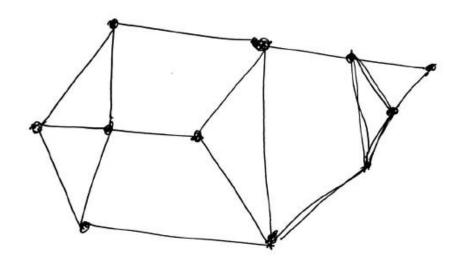


Innovation diffusion simulation

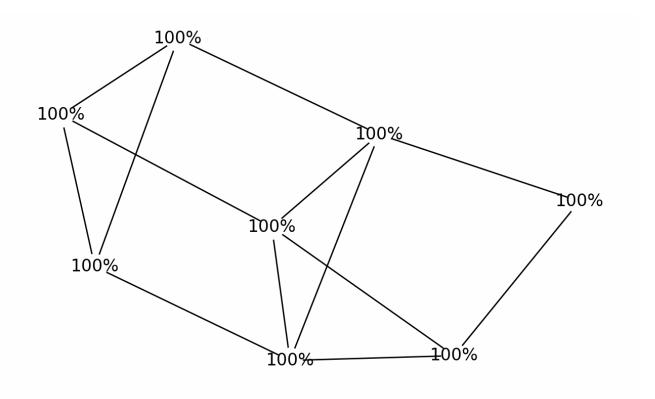


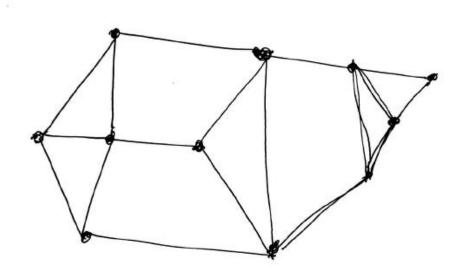


• There is a tool-sharing program within a neighborhood. How to make it effective?

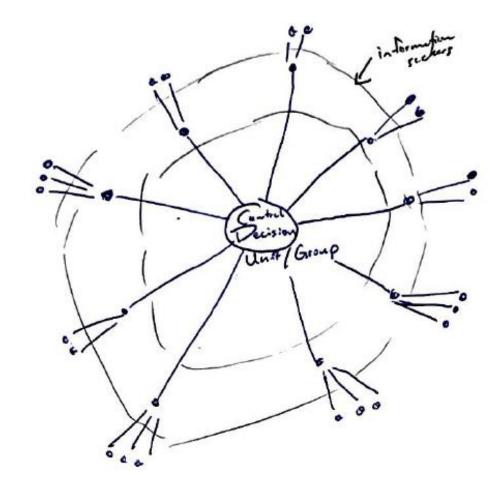


Reputation system simulation

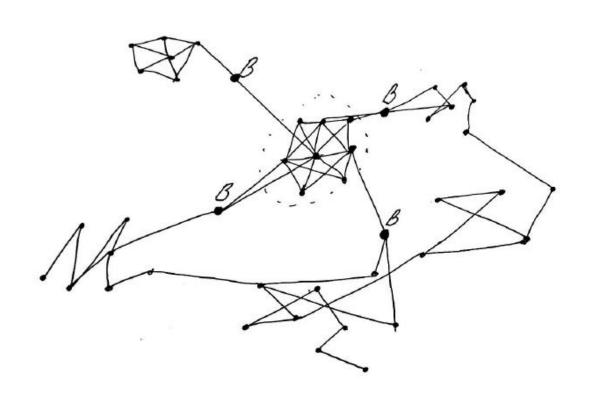


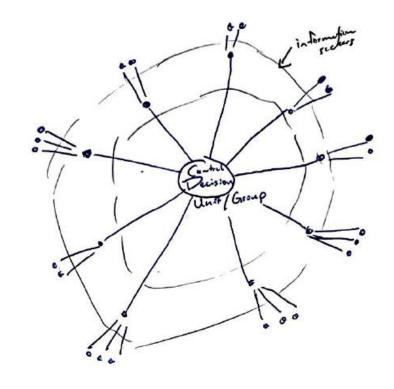


• A venture capital firm is looking for new start-ups to invest into that will be 'a real deal'. What can help them in doing it?

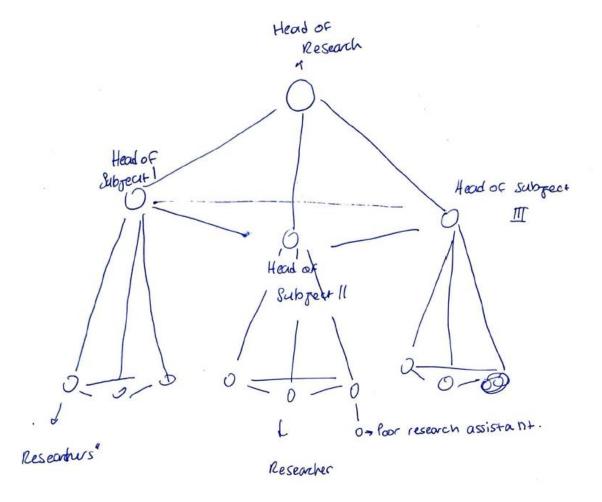


My version

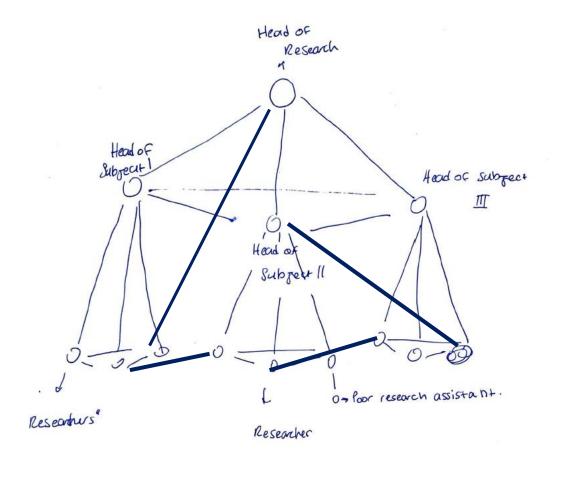


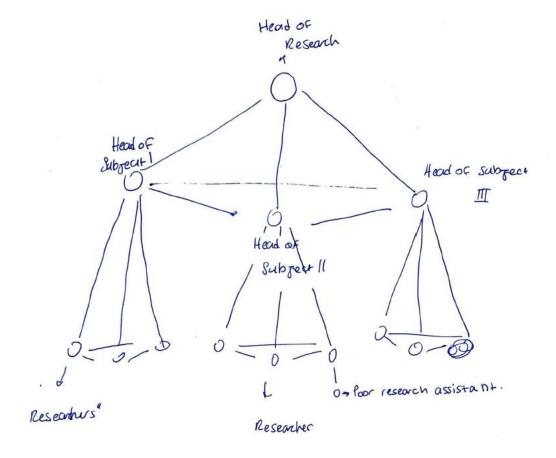


• There is a highly multidisciplinary research team that is working on a project. The scientists have very different backgrounds and expertise. How to enhance this collaboration?



My version





Article presentation

Pichler, F., & Wallace, C. (2009). Social capital and social class in Europe: The role of social networks in social stratification. European Sociological Review, 25(3), 319-332.

Reading for today

Burt, R. S. (2017). Structural holes versus network closure as social capital. Social capital, 31-56.

Network constraint index (Burt 1992)

Calculated based on the following elements:

- <u>Direct Ties</u>: The strength of the direct ties an individual *i* has with others in the network.
- <u>Indirect Ties</u>: The strength of the indirect ties between *i* and other individuals through a mutual contact.
- Redundancy: The extent to which i's contacts are connected to each other, increasing redundancy and thus constraint.

$$C_i = \sum_j (p_{ij} + \sum_q p_{iq} p_{qi})^2$$

Where:

- p_{ij} is the proportion of P's total ties that is directly allocated to contact j.
- $p_{iq}p_{qj}$ represents the indirect paths from P to j through q.

Everyone wants to be a broker

Buskens, V., & Van de Rijt, A. (2008). Dynamics of networks if everyone strives for structural holes. American Journal of Sociology, 114(2), 371-407.

- ➤ Burt: social capital is subject to strategic tie formation. But the more people follow strategic motivations, the less benefits are to be reaped. Networks will stabilize with position diversity.
- ➤ Buskens & Van de Rijt: when everyone strives to be in a broker position, networks eventually stabilize, but no one benefits more than others.

Alternative measurements of brokerage

- Betweenness centrality
- Eigenvector centrality
- Reachability
- Contact diversity

...

Network closure

Two mechanisms of network closure:

- Information sharing
- Norm enforcement

Only in small communities?

Diekmann, A., Jann, B., Przepiorka, W., & Wehrli, S. (2014). Reputation formation and the evolution of cooperation in anonymous online markets. American sociological review, 79(1), 65-85.

Questions?

Final task:

Convince each other you are a good addition to their social capital.

You can rely on the following mechanisms:

- 1) Transitivity ("my friend's friend is my friend")
- 2) Closure (your community membership)
- 3) Brokerage (your network position)
- 4) Homophily ("birds of a feather...")
- 5) Resource accumulation (material, skills, information, etc.)

...

Next session: Firm and Organization Networks

Mandatory reading:

Uzzi, B. (1999). Embeddedness in the making of financial capital: How social relations and networks benefit firms seeking financing. American sociological review, 481-505.

Article presentation:

*Muscillo, A., Pin, P., Razzolini, T., & Serti, F. (2023). Does "network closure" beef up firms' performance? Social Networks, 73, 89-103.

See you next week!