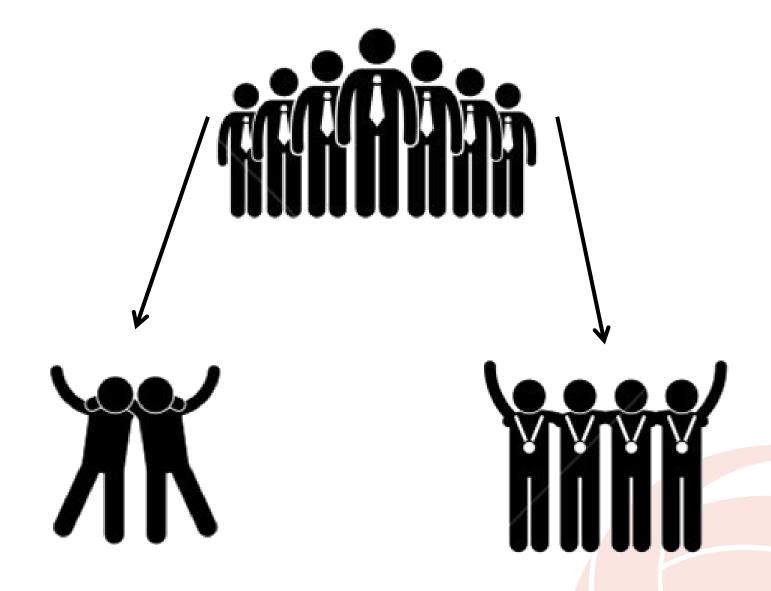




The Use of Social Network Analysis (SNA) to Drive Interventions in Team Sports

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What is Social Network Analysis (SNA)?

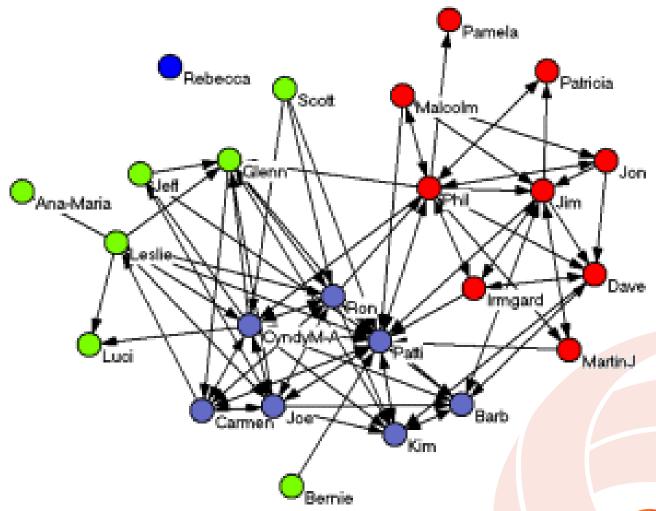
It is a set of methodological tools to:

- Create maps of human relationships that can be quantified and measured (Freeman, 2004)
- ii. Reveal group structure and underlying patterns of interaction (Paxton & Moody, 2003)



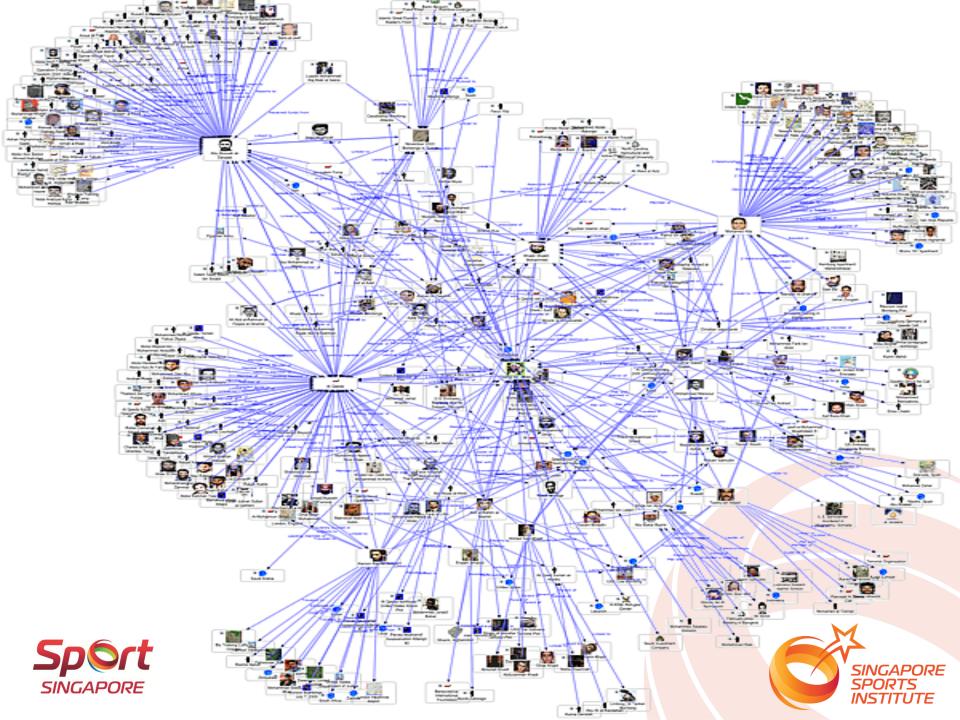


A simple illustration..









Where has SNA been used thus far?



Terrorist networks, drug cartels, gang violence

Spread of HIV, contagions, mental health support

Leadership, post-merger integration, information sharing

Alliance formation, social movements, voting behaviour





What is the role of SNA in the psychology of Sporting Teams?



☐ The dependencies and systemic elements of team behaviour cannot be well understood by aggregated analyses of the team's individual members. (Carron, Colman, Wheeler & Stevens, 2002)



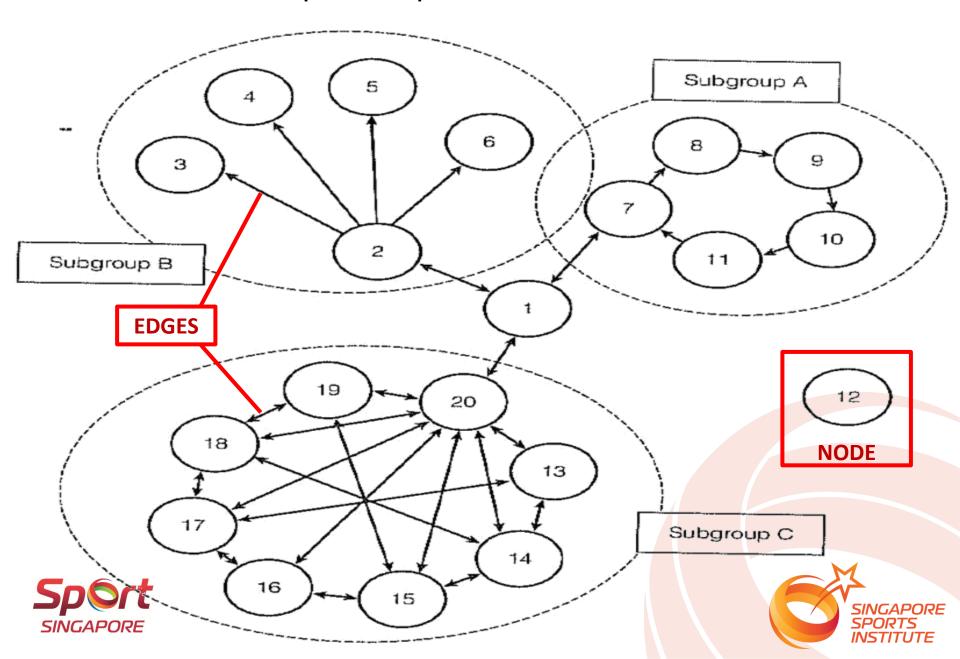


Nuts & Bolts of SNA

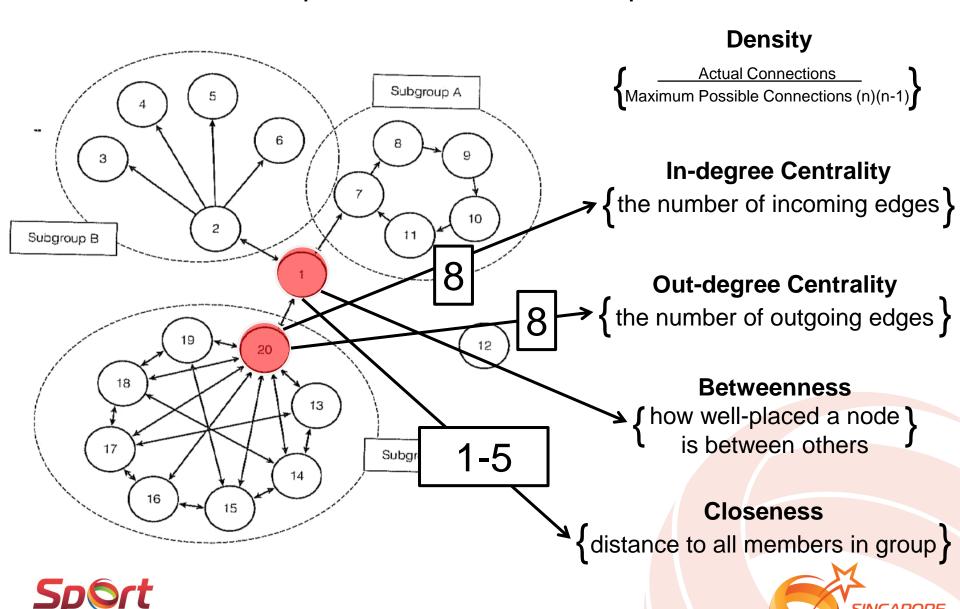




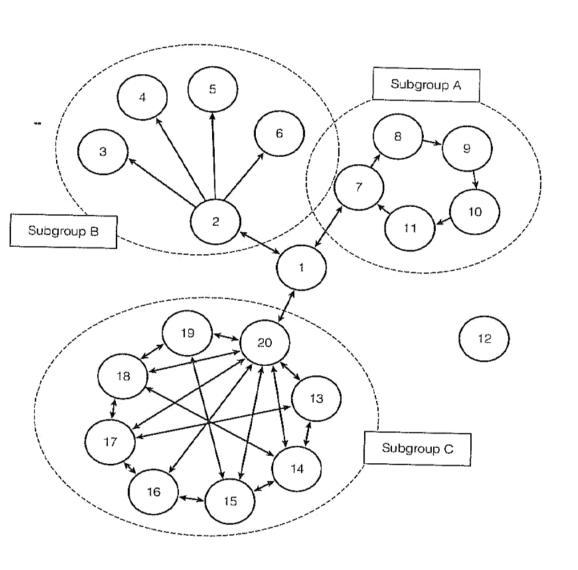
Social Network Map - Components



Social Network Map – Quantitative Concepts



Social Network Map – Qualitative Concepts



Bridge critical to cohesiveness of network

Structural Hole { breakdown in cohesiveness }

Reciprocity { mutuality in relations }

Transitivity
{ tendency to form }
triadic relations

Clustering





Case Studies









Use of SNA to Drive Interventions

- i. Group-level interventions
- ii. Between-players interventions
- iii. Individual-level interventions



