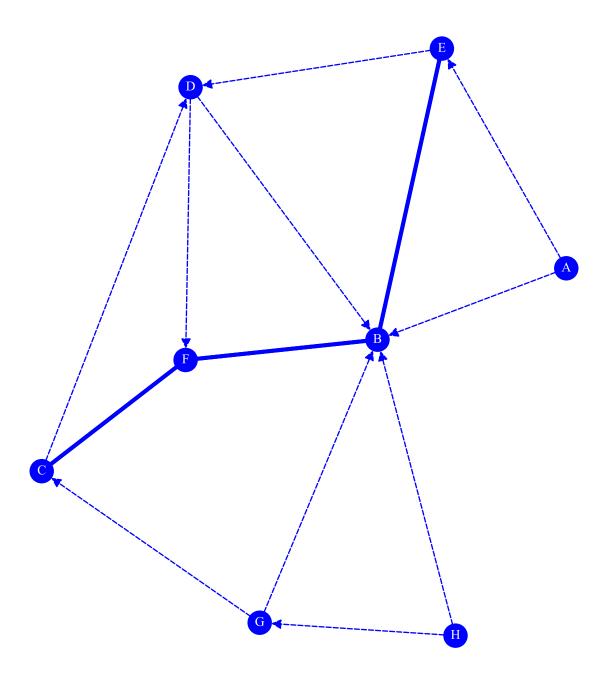


GROUP 4 - DEMO SNA NETWORK GRAPH

### A. Who would you like in your ideal work group?

NN 8, NE 16, ND 29%, NC 52%, NT 44%, NR 38%



NN Nodes NE Edges ND Density NC Centralization NT Transitivity NR Reciprocity

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GROUP 4 - DEMO SNA RAW SCORES

### A. Who would you like in your ideal work group?

ID	CHOICES	IC	PR	ВТ	CL	HU	ND
A	B, E	0.00	0.02	0.00	0.00	0.14	<del></del>
В	E, F	0.86	0.27	0.24	0.88	0.06	
C	D, F	0.29	0.14	0.07	0.50	0.06	
D	B, F	0.29	0.14	0.05	0.54	0.15	
E	B, D	0.29	0.14	0.06	0.54	0.14	
F	B, C	0.43	0.25	0.12	0.64	0.15	
G	B, C	0.14	0.03	0.04	0.14	0.15	
Н	B, G	0.00	0.02	0.00	0.00	0.13	←

 $\textbf{IC} \text{ In-Degree PR PageRank BT Betweenness CL Closenness HU Hub ND No In-Degree } (\leftarrow) \text{ No Out-Degree } (\rightarrow) \text{ No In or Out-Degree } (\rightleftarrows)$ 



GROUP 4 - DEMO SNA RANK SCORES

### A. Who would you like in your ideal work group?

ID	CHOICES	IC	PR	ВТ	CL	HU	ND
A	B, E	5	7	7	6	3	<del></del>
В	E, F	1	1	1	1	6	
C	D, F	3	5	3	4	7	
D	B, F	3	4	5	3	2	
E	B, D	3	3	4	3	4	
F	B, C	2	2	2	2	1	
G	B, C	4	6	6	5	1	
Н	B, G	5	7	7	6	5	←

IC In-Degree PR PageRank BT Betweenness CL Closenness HU Hub ND No In-Degree  $(\leftarrow)$  No Out-Degree  $(\rightarrow)$  No In or Out-Degree  $(\rightleftarrows)$  Very low Low High Wery high



## **GROUP 4 - DEMO**

## **SNA NODES ORDERED BY RANKS**

## A. Who would you like in your ideal work group?

RANK	IC	RANK	PR	RANK	ВТ	RANK	CL	RANK	HU
1	В	1	В	1	В	1	В	1	F
2	F	2	F	2	F	2	F	1	G
3	С	3	E	3	С	3	D	2	D
3	D	4	D	4	E	3	E	3	A
3	E	5	C	5	D	4	С	4	E
4	G	6	G	6	G	5	G	5	Н
5	A	7	A	7	A	6	A	6	В
5	Н	7	Н	7	Н	6	Н	7	C

IC In-Degree PR PageRank BT Betweenness CL Closenness HU Hub



**GROUP 4 - DEMO** 

**SNA EDGES GROUPED BY TYPE** 

# A. Who would you like in your ideal work group?

Non reciprocal edges

 $X \rightarrow Y$  in network  $A \cdot not Y \rightarrow X$  in network A

#### Reciprocal edges

 $X \to Y$  in network  $A \cdot Y \to X$  in network A

#### Half symmetrical edges

 $X \to Y$  in network  $A \cdot X \to Y$  in network B

 $B \cdot F$ 

#### Reversed half symmetrical edges

 $X \to Y$  in network  $A \cdot Y \to X$  in network B

 $(D \cdot F)(E \cdot D)(F \cdot B)(G \cdot B)$ 

# Full symmetrical edges

 $X \to Y,\, Y \to X$  in network  $A \cdot X \to Y,\, Y \to X$  in network B

No edge of this type



GROUP 4 - DEMO SNA COMPONENTS

A. Who would you like in your ideal work group?

**Connected components** 

 $\begin{bmatrix} \mathbf{8} & \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{F} \cdot \mathbf{G} \cdot \mathbf{H} \end{bmatrix}$ 

 $\begin{bmatrix} \mathbf{5} & \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{F} \end{bmatrix}$ 

 $\begin{bmatrix} \mathbf{3} & \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{F} \end{bmatrix}$ 

 $C \cdot D \cdot F$ 

 $B\cdot G\cdot H$ 

 $A\cdot B\cdot E$ 

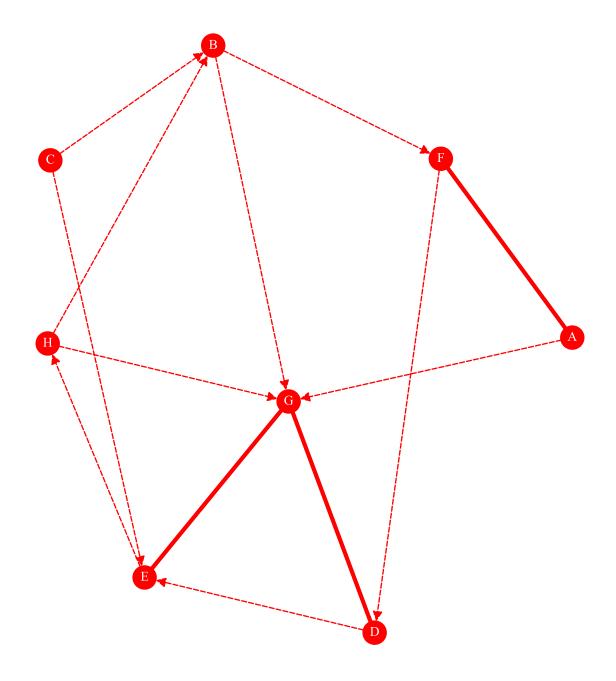
 $B\cdot D\cdot E$ 



GROUP 4 - DEMO SNA NETWORK GRAPH

### B. Who would you not want in your ideal work group?

NN 8, NE 16, ND 29%, NC 33%, NT 31%, NR 38%



NN Nodes NE Edges ND Density NC Centralization NT Transitivity NR Reciprocity

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GROUP 4 - DEMO SNA RAW SCORES

## B. Who would you not want in your ideal work group?

ID	CHOICES	IC	PR	ВТ	CL	HU	ND
A	F, G	0.14	0.05	0.01	0.30	0.18	
В	F, G	0.29	0.07	0.27	0.39	0.18	
C	B, E	0.00	0.02	0.00	0.00	0.08	<b>←</b>
D	E, G	0.29	0.17	0.08	0.54	0.17	
E	G, H	0.43	0.22	0.35	0.64	0.15	
F	A, D	0.29	0.07	0.17	0.41	0.01	
G	D, E	0.71	0.28	0.23	0.78	0.06	
Н	B, G	0.14	0.11	0.26	0.44	0.16	

 $\textbf{IC} \text{ In-Degree PR PageRank BT Betweenness CL Closenness HU Hub ND No In-Degree } (\leftarrow) \text{ No Out-Degree } (\rightarrow) \text{ No In or Out-Degree } (\rightleftarrows)$ 



GROUP 4 - DEMO SNA RANK SCORES

### B. Who would you not want in your ideal work group?

ID	CHOICES	IC	PR	ВТ	CL	HU	ND
A	F, G	4	7	7	7	1	
В	F, G	3	5	2	6	1	
C	В, Е	5	8	8	8	5	<b>←</b>
D	E, G	3	3	6	3	2	
E	G, H	2	2	1	2	4	
F	A, D	3	6	5	5	7	
G	D, E	1	1	4	1	6	
Н	B, G	4	4	3	4	3	

IC In-Degree PR PageRank BT Betweenness CL Closenness HU Hub ND No In-Degree  $(\leftarrow)$  No Out-Degree  $(\rightarrow)$  No In or Out-Degree  $(\rightleftarrows)$  Very low Low High Wery high



## **GROUP 4 - DEMO**

## **SNA NODES ORDERED BY RANKS**

## B. Who would you not want in your ideal work group?

RANK	IC	RANK	PR	RANK	ВТ	RANK	CL	RANK	HU
1	G	1	G	1	E	1	G	1	A
2	Е	2	E	2	В	2	E	1	В
3	В	3	D	3	Н	3	D	2	D
3	D	4	Н	4	G	4	Н	3	Н
3	F	5	В	5	F	5	F	4	E
4	A	6	F	6	D	6	В	5	C
4	Н	7	A	7	A	7	A	6	G
5	C	8	C	8	C	8	C	7	F

IC In-Degree PR PageRank BT Betweenness CL Closenness HU Hub



**GROUP 4 - DEMO** 

**SNA EDGES GROUPED BY TYPE** 

# B. Who would you not want in your ideal work group?

Non reciprocal edges

 $X \to Y$  in network  $B \cdot not \: Y \to X$  in network B

#### Reciprocal edges

 $X \to Y$  in network  $B \, \cdot \, Y \to X$  in network B

 $(A \cdot F) (D \cdot G) (E \cdot G)$ 

#### Half symmetrical edges

 $X \to Y$  in network  $B \, \cdot \, X \to Y$  in network A

 $\left( \mathbf{B} \cdot \mathbf{F} \right)$ 

#### Reversed half symmetrical edges

 $X \rightarrow Y$  in network  $B \cdot Y \rightarrow X$  in network A

 $(B \cdot F)(B \cdot G)(D \cdot E)(F \cdot D)$ 

# Full symmetrical edges

 $X \to Y,\, Y \to X$  in network  $B \, \cdot \, X \to Y,\, Y \to X$  in network A

No edge of this type



GROUP 4 - DEMO SNA COMPONENTS

B. Who would you not want in your ideal work group?

**Connected components** 

 $\begin{bmatrix} \mathbf{8} & \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{F} \cdot \mathbf{G} \cdot \mathbf{H} \end{bmatrix}$ 

 $\mathbf{O} \cdot \mathbf{E} \cdot \mathbf{G}$ 

 $B\cdot G\cdot H$ 

 $E \cdot G \cdot H$