Sensing, Understanding, and Shaping Social Behavior

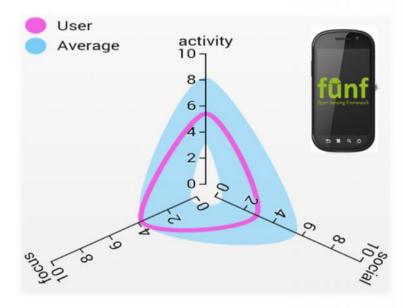
Vivek K. Singh Post-Doctoral Associate, MIT Media Lab



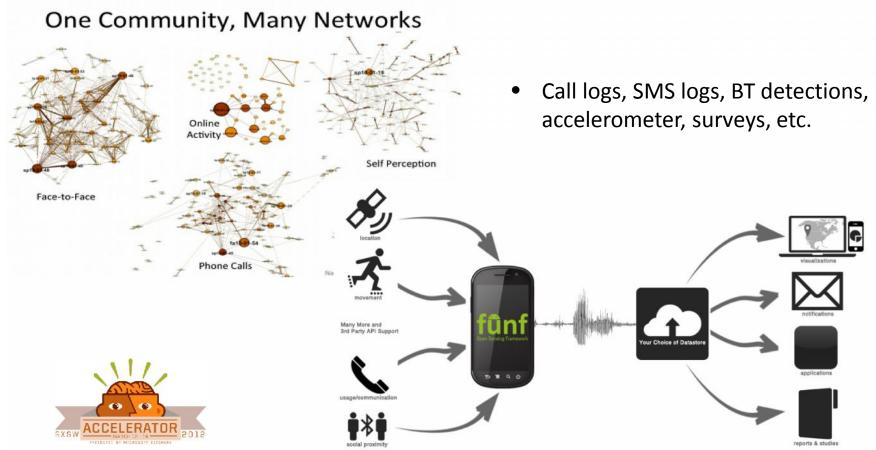
Sensing Human Behavior

- Quantified Self:
 - Bluetooth (face to face)
 - Accelerometer
 - GPS
- Surveys
- Emotions, heartrate, social...



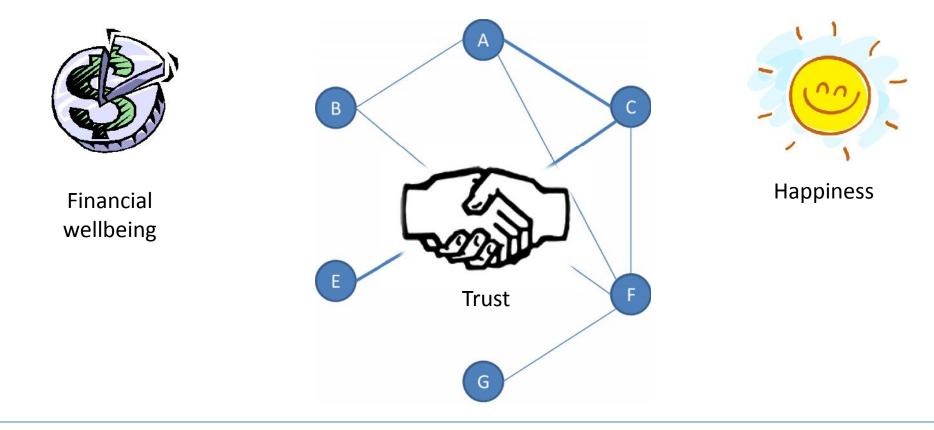


Understanding Social Behavior: Social fMRI



Data: 150 people for one year Additional Data: Receipts/bank statements, Daily surveys

Using real-world social data to predict user behavior

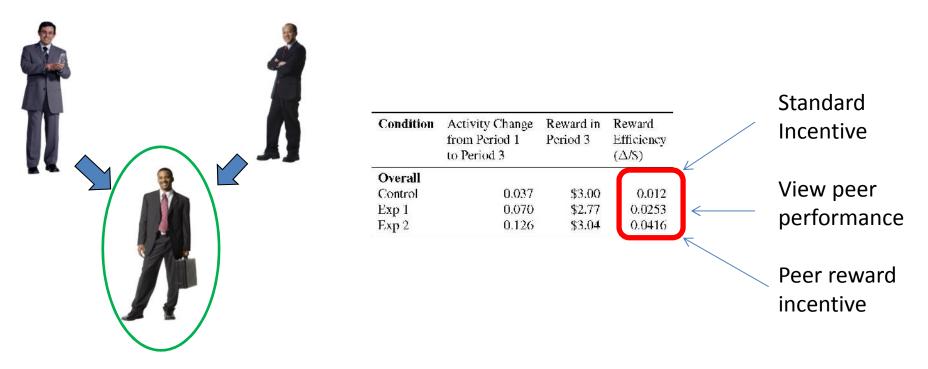


Singh, Freeman, Lepri, Pentland, Classifying Spending Behavior using Socio-Mobile Data, IEEE SocialCom'13.

Singh, Krafft, Pentland, On happiness and Socio-Mobile behavior, ISQSS- SoS.

Shaping human behavior

Social Intervention is 3.5 times as efficient as standard incentive mechanism



Triads with *trusted* ties showed significantly more behavior change compared to those with *close* ties.