

# Adding Value...

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# Topics

## Two talks

- Confidentiality, Privacy, Trust
  - My day job – developing and deploying Internet-scale trust, security and privacy
  - Useful but maybe not relevant to workshop
- CII and what can we learn from PII
  - Something I know nothing about
  - May be very relevant
  - Only costs 5 minutes...

# Confidentiality, Privacy and Trust

- Confidentiality
  - Applies generally to data
  - Protecting integrity, appropriate access, etc
- Privacy
  - Applies generally to humans
  - Protecting spills, unconsented use, anonymity, etc
- Trust
  - The reason to believe external assertions about confidentiality and privacy (and a whole lot more)
  - Now comes in two flavors – federated and p2p
- Sharing people data across boundaries touches all

# Confidentiality and the Real World

- New anonymization techniques exist
- New data mining capabilities exist
  - In technologies and deployments (Grids, SETI, Botnets, etc.)
- International legal space unexplored
- Normalization of PII a Holy Grail

# Privacy

- Spills, database protections, unauthorized access, etc.
- Consent is becoming a big theme, driven by EU Art 29 WG
  - Consent coupled with limits with what can be done with the information
  - Delegation of consent and authorizations an emergent issue - XPSA
- Has additional questions in researcher context
  - Preserving the privacy of the researcher doing the research
  - The privacy of the patterns that researchers use to do research

# The Mix of Institutional and Internet Identity

- Particularly in some sectors, identities are becoming mixed:
  - The enterprise uses the cloud for services
    - User provides enterprise with their email address, a myspace page for calendaring, a facebook account for access control, etc
  - The enterprise must assume the cloud is trustworthy
- Underlying both are (different) reputation issues and mechanisms
- Again, both something to cope with and to study

# Virtual and Real Organizations

- Team Science and Team Innovation
- Coopitition
  - Leverage
  - Internal security, privacy and controls
- The iPhone Apps store...

# CII and what can we learn from PII

# Corporate Identifiable Information

- Specific facts
- A set of facts, no one of which is CII, but taken together is CII. (aka correlation attacks, denial of privacy attacks, etc.)
- Somewhat similar to PII

# At least two types of corporate data

- Business data – of interest to economists
  - Traditional parameters
  - Pretty normalized
  - Lots of CII issues
- Business metadata – of interest of organization and management behavior researchers
  - May not reside in corporate business systems but in corporate collaboration tools, middleware, etc.
  - Not normalized
  - Fewer CII issues

# Medical Research and PII

- Epidemiological research protocols
- Institutional Review Boards
- Bin sizes

# Innovation Research and CII

- “Two-sided” “trustworthy” “extraction tools”
- IRB equivalents –
  - Learn from lessons
  - Normalization of corporate meta-data and middleware
- The data base meta-data