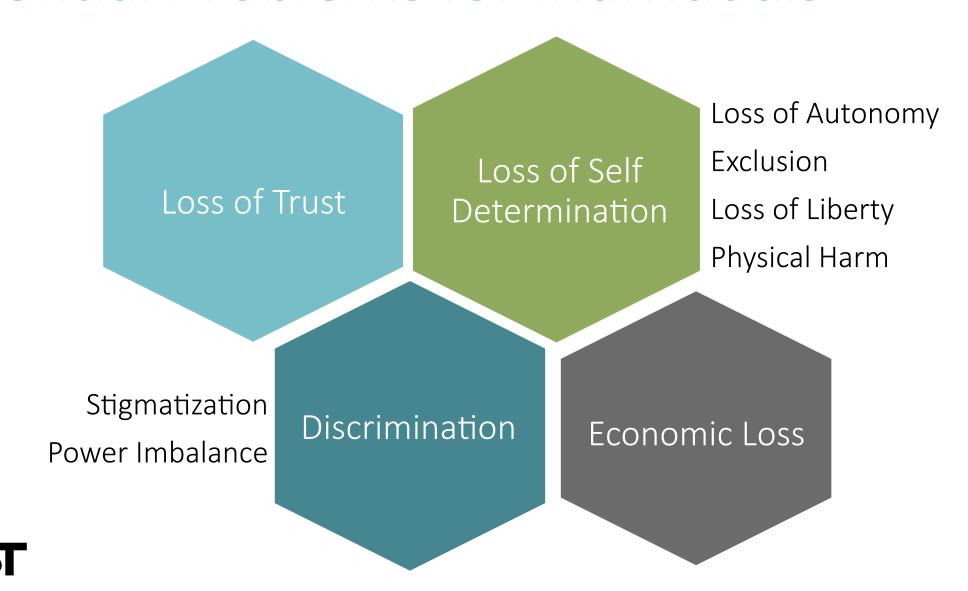
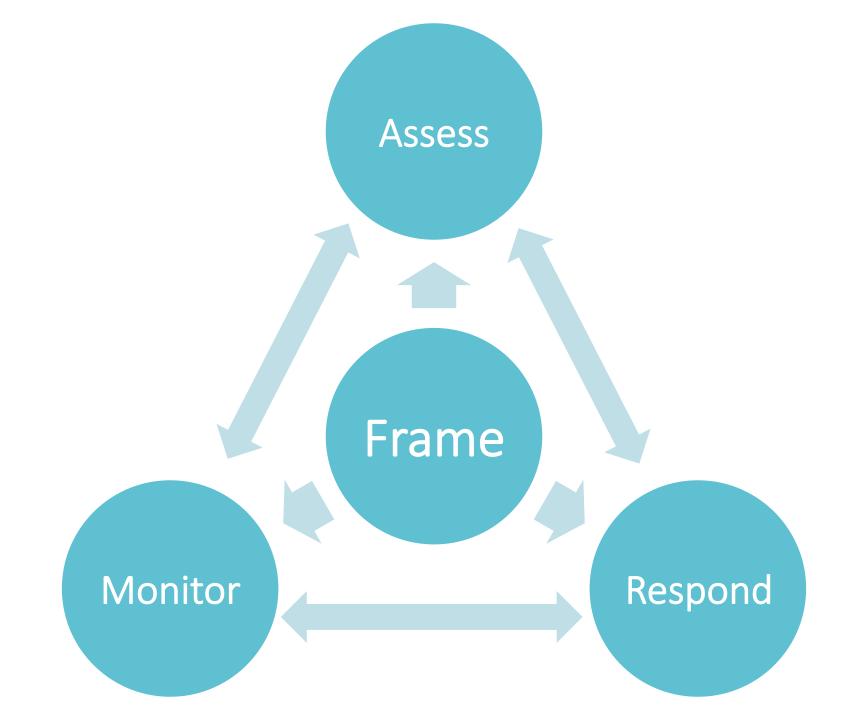
Using Risk Management to Improve Privacy in Information Systems



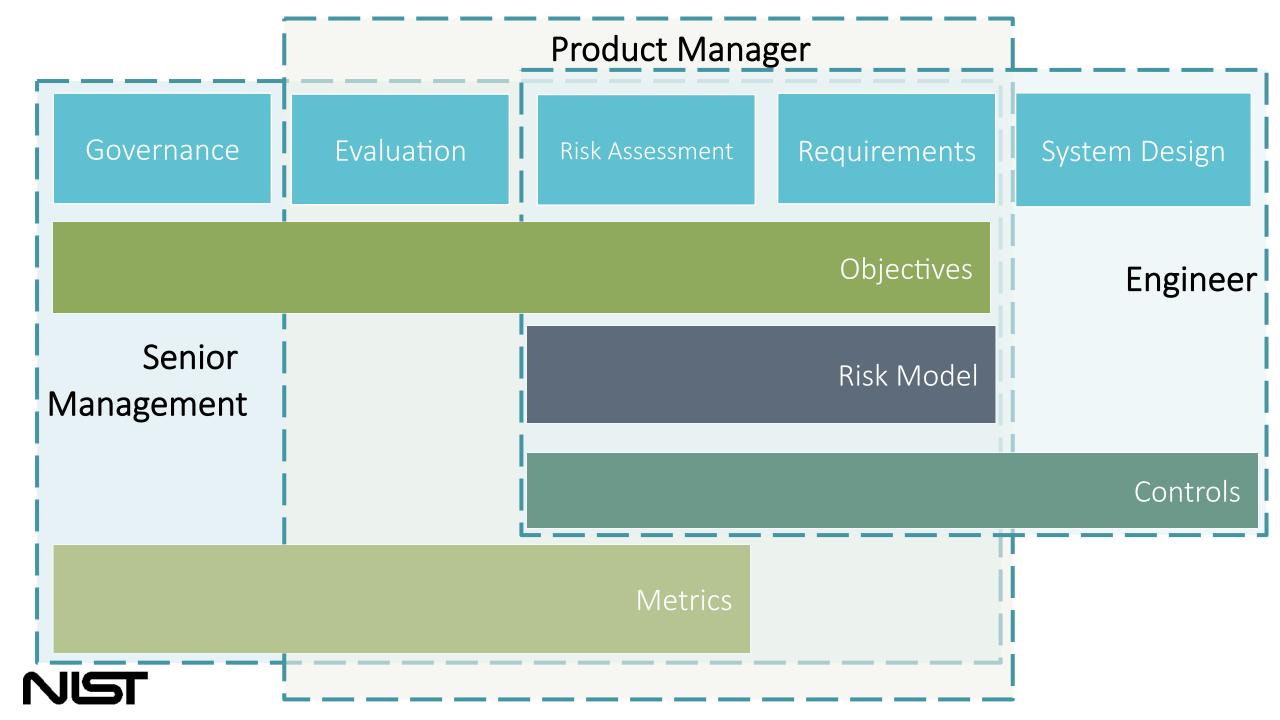
Potential Problems for Individuals











The Right Tool for the Job

Many current privacy approaches are some mixture of governance principles, requirements and controls.

USG FIPPs

Transparency
Individual Participation
Purpose Specification
Data Minimization

Use Limitation

Data Quality and Integrity
Security
Accountability and
Auditing

NIST SP 800-53, Appendix J

Redress

Authority and Purpose Accountability, Audit, and Risk Management Data Quality and Integrity

Data Minimization and Retention

Security

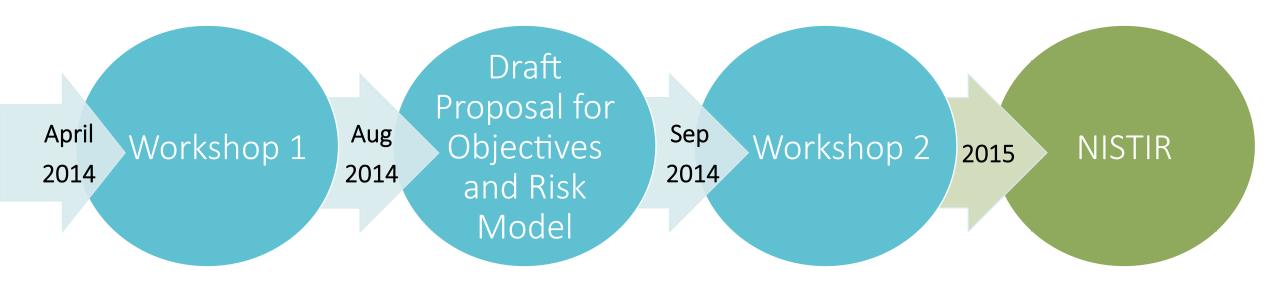
Individual Participation and

Transparency

Use Limitation



NIST Process





Developing a Privacy Triad: Draft Objectives

- The objectives are characteristics of the system, not role-based.
- The objectives support policy
- Part of broader risk management framework, including security, etc.

Predictability

Manageability

Obscuration

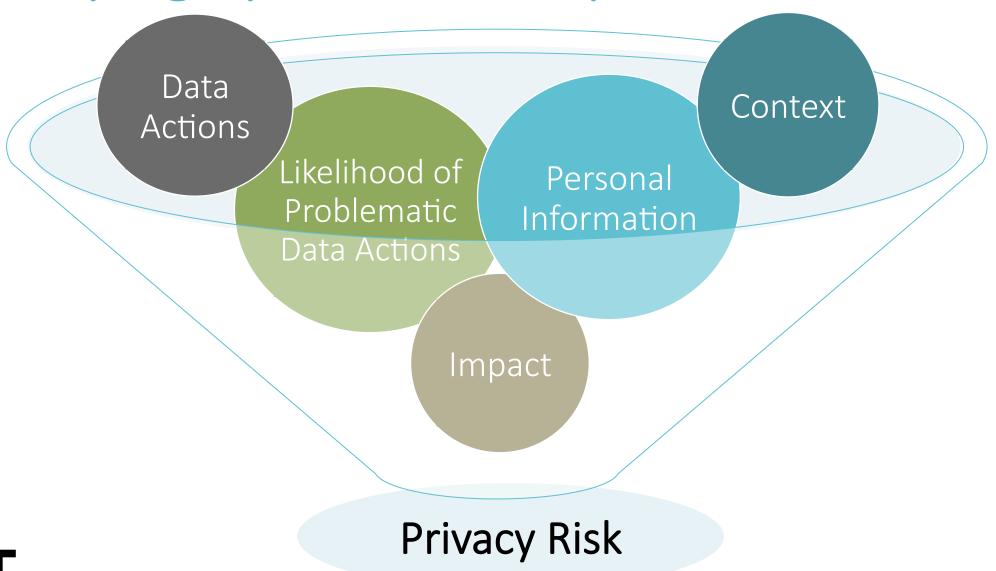


Security Risk Equation

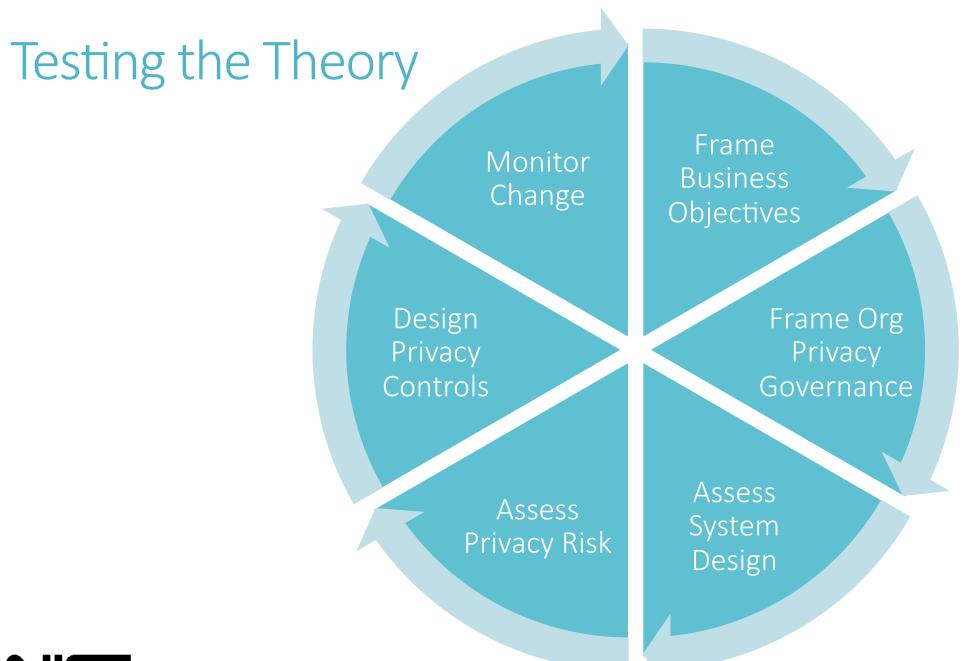
Security Risk = Vulnerability * Threat * Impact



Identifying System Privacy Risk









Objectives and Research

- How can researchers effectively communicate the goals of their research?
- Without understanding how new technical privacy controls impact core components of privacy, it is tempting to see solutions as more widely (or narrowly) applicable than they are (ex: encryption).

Objectives provide a common, affirmative language to frame the pursuit of privacy-enhancing technologies, and further understanding of the social, cultural, and economic contextual factors necessary for effective risk analysis



Resources

NIST Privacy Engineering Website:

http://csrc.nist.gov/projects/privacy_engineering/index.html

