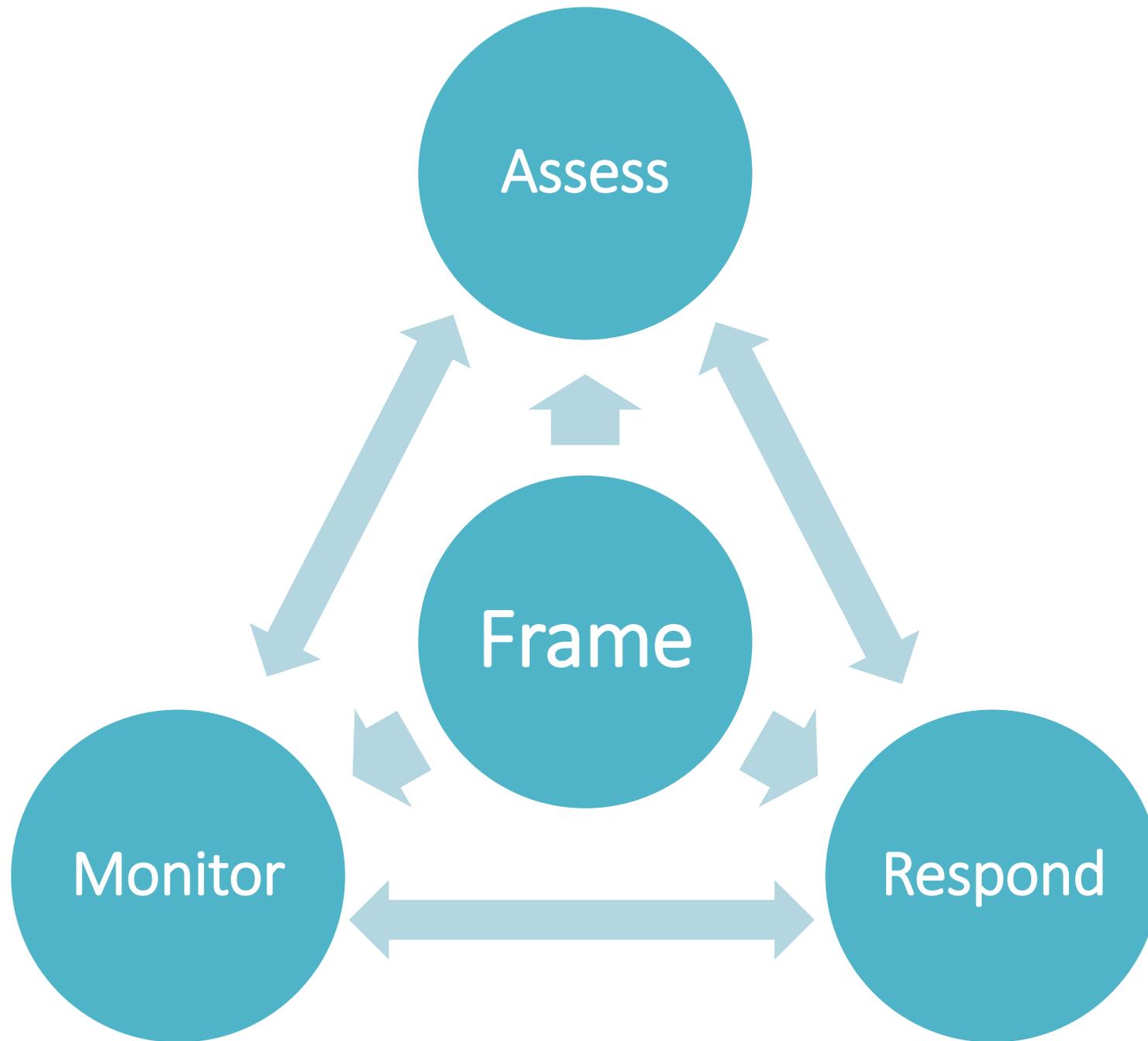
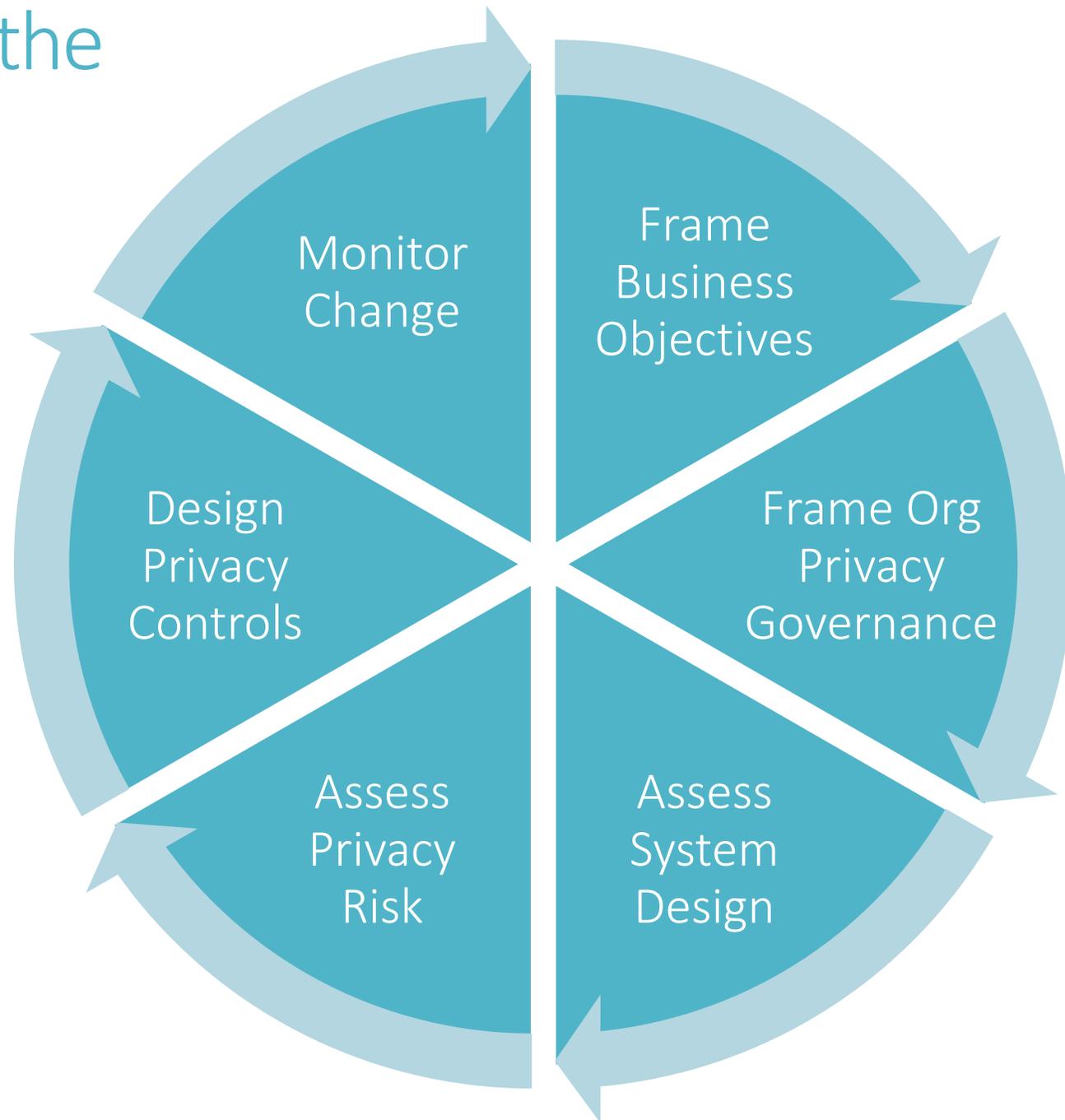


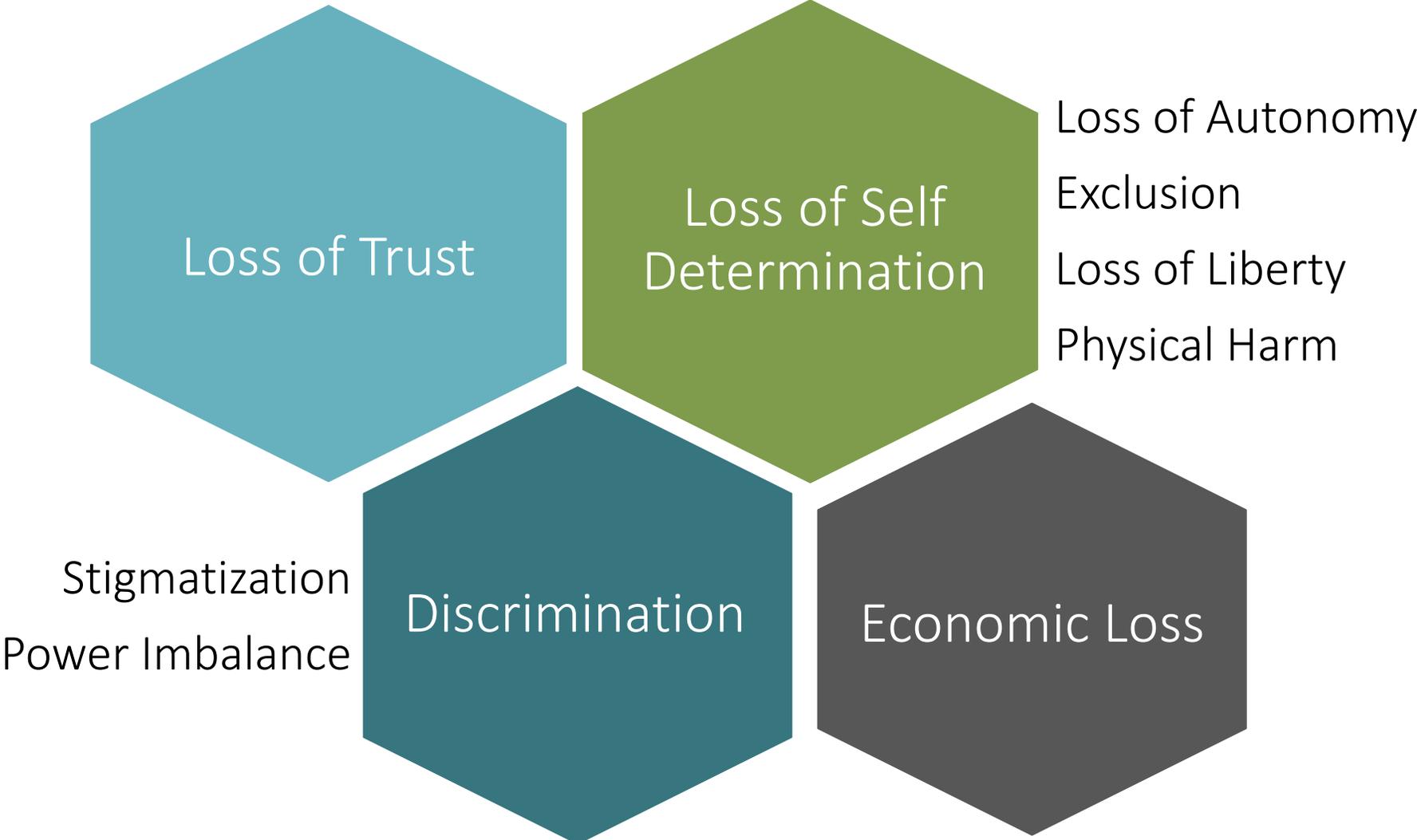
# Using Risk Management to Improve Privacy in Information Systems



# Implementing the Theory



# Potential Problems for Individuals



# Product Manager

Governance

Evaluation

Risk Assessment

Requirements

System Design

Objectives

Engineer

Senior  
Management

Risk Model

Controls

Metrics

# The Right Tool for the Job

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

## USG FIPPs

Transparency	Data Quality and Integrity
Individual Participation	Security
Purpose Specification	Accountability and
Data Minimization	Auditing
Use Limitation	

## NIST SP 800-53, Appendix J

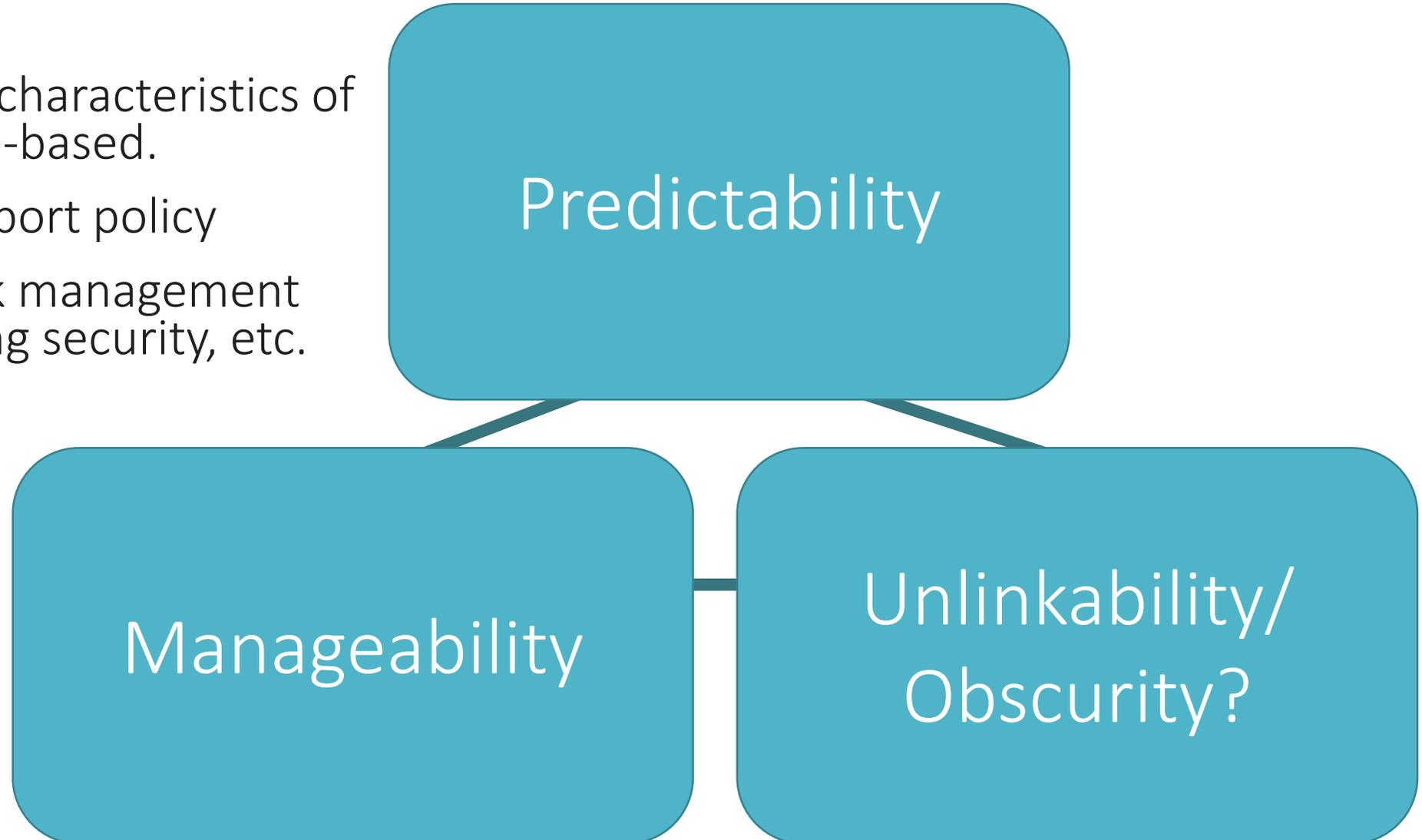
Authority and Purpose	Individual Participation and
Accountability, Audit, and	Redress
Risk Management	Security
Data Quality and Integrity	Transparency
Data Minimization and	Use Limitation
Retention	

# 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.



# Security Risk Equation

Security Risk = Vulnerability \* Threat \* Impact

# Inputs for Privacy Risk

- **Likelihood:** Likelihood of a data action becoming problematic (i.e., creating the potential for adverse effects on individuals)
  - the adverse effects that could occur are hypothesized from an assessment of the **data action**, the **personal information** being processed, and the **context** surrounding the data action
- **Impact:** Costs to organizations that would result from the problematic data action

# Resources

NIST Privacy Engineering Website:

[http://csrc.nist.gov/projects/privacy\\_engineering/index.html](http://csrc.nist.gov/projects/privacy_engineering/index.html)