

Biometrics & Privacy

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Forms of Identification

- **Something you have**
- **Something you know**
- **Something you are**

Uses of Biometrics

- Verification vs. Identification
 - Verification: Am I who I say I am? (1:1)
 - Identification: Who am I? (1:Many)
- Authorization vs. Surveillance
 - Access
 - Monitoring

Benefits

- May be more secure
- Possible deterrent
- May prevent identity fraud
- Convenient

Drawbacks

- If lost, lost forever
- False positives/false negatives
- Possible discrimination
- Privacy

PRIVACY-Basic Questions

- Who owns the data?
- Which technologies pose the greatest privacy risks?
- Are some uses more appropriate than others?
- Can privacy risks be mitigated?

Informational Privacy

- Data aggregation
- Mission creep
- Redress
- Law enforcement access
- Notice/Transparency
- Accountability

Some applications can enhance
privacy....



...while others can erode privacy....



Issues to Consider

- Consent vs. Non-Consent
- Opt-in vs. Mandatory
- Verification vs. Identification
- Public vs. Private
- Individual vs. Institutional Ownership
- Local vs. Central Storage
- Template vs. Stored Image
- Audit and Oversight
- Backup System

Privacy Protections

- Limit scope of collection
- Limit duration of retention
- Limit data aggregation
- Encrypt data
- Provide authorization controls
- Provide effective and timely redress
- Disclose purpose of system
- Allow for disenrollment
- Protect confidentiality of decisions