Biometric Data

How secure is my information really?

What is it?

Personal data derived from specifc technical processing of physical characteristics from an organic entity.

Fingerprint Scanning

Optical/Thermal Sensors
+ Universally known as unique, Cost effective
-- Injury, unconiously used

Facial Recgonition

Image/Video
+ Minimal interaction
- Clothing, injury, lighting, facial expression

Voice Recognition

Microphone: Alexa, Siri, Cortana
+ Natural means of communication
- Injury, background noise, accents

Biometric Security Data: Storage

Encrypted enclave

+ Secure, local
- Additional cost

External Server

+ Cost effective
+ Multiple location Verification
- Vulnerable during data transmission

"Suprema, 2019" breach

Misuse

"what many big tech companies, and increasingly governments, want to do with data are to link different databases."

Paul Wiles, UK based Biometrics Commissioner

Aggregation

- Aggregation of biometric data with other Personal Identifiable Information (PIII) and non-PII

- PII: name, address, national ID numbers
- Non-PII: cookies, product statistics

Fallout

Multiple data points now connected
- Value of data increased
- Increasing digital footprint permenancy

Combative Measures

Despite probable risks, biometric technology is the future.

Public & Private Cooperation through GDPR

- Explicit consent
- Right to be forgotten

Public Awareness

- Education of online presence/collection
- Security Savvy

Personal Security Measures

- 2FA
- Up-to-date software

Resources

https://www.phonexia.com/en/blog/5-popular-types-of-biometric-authentication-pros-and-cons/

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https://www.dentons.com/en/insights/alerts/2020/december/22/gdpr-update-biometric-data

https://www.good-id.org/en/glossary/Biometric-data/

https://www.forbes.com/sites/forbestechcouncil/2019/01/16/how-to-combine-physiological-biometrics-and-blockchain-for-heightened-security/?sh=69e0fcf25d5c