The Design Group

Design driven by people/organization/society capabilities/needs

- Users are still the weakest link in security
- Systems that are not designed with understanding of human behavior
- Organizations where security is not a top priority
- Incomplete understanding of human, organization, and technology dynamics in socio-technical systems

Users are still the weakest link in security

- Many users don't have a good understanding of security issues
- Insider threats (well intentioned / malicious)/non-compliance behavior and actions by users
- There is a disconnect between users and IT staff and management (security design that hinders work activities)
- Many users are more focus on getting their job done than security (bypass security procedures, workarounds).

Users are still the weakest link in security

- Why important?
  - Users played a role in the majority of security breaches

- What are barriers?
  - Distrust between IT and users
  - Different objectives in different parties

- Why is progress possible
  - Interdisciplinary groups work together
  - Organizations may be more willing to understand users

Systems that are not designed with understanding of human behavior

- Problems related to password which is a reoccurring significant issue that often leads to data breaches

- The fraud detection systems are not sophisticated enough to incorporate human elements

- Current systems often made the users the weakest link and the users get blame

Organizations where security is not a top priority

- Security investment has not demonstrated effectiveness in reducing data breaches

- Organizations often treat security as an after thought

- Existing security frameworks and policies are not implemented, monitored, and enforced

Incomplete understanding of human, organization, and technology dynamics in socio-technical systems

- Deterrence is frequently used as the primary component in information security policies

- Phishing emails are still successful after extensive exposure and awareness education

- It is still not clear how incentives work in relation to cybersecurity (monetary, spiritual, social good, etc.)