



Security Aspects of

Data Protection

**Masterclass on FinTech, Privacy & Data
Protection. September 5th, 2020.**

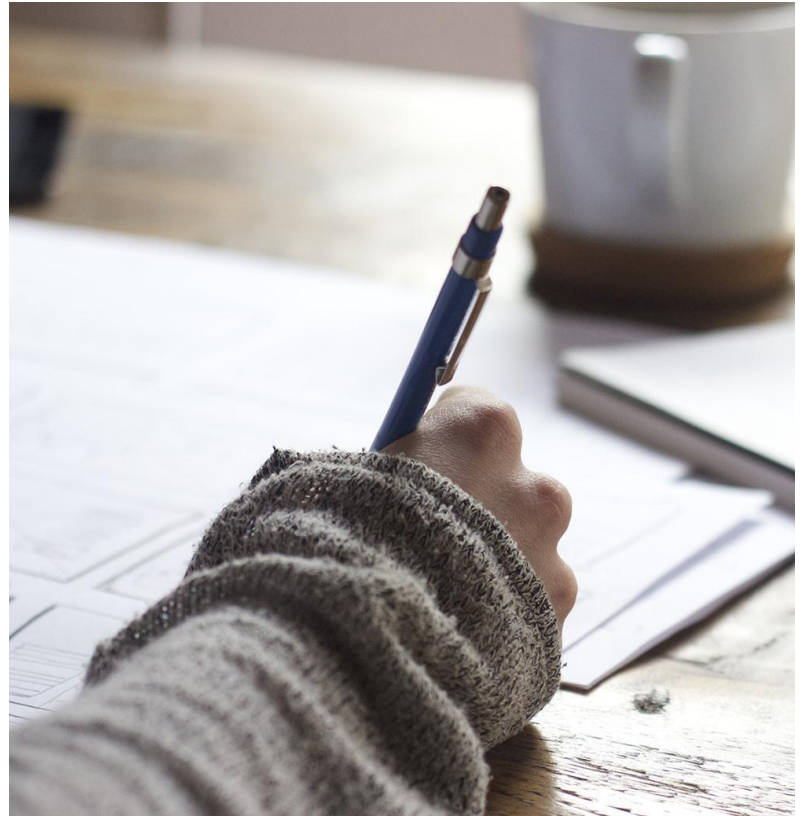
Hello!

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Outline

- **Terms and Terminologies**
- **Security Aspect of Data Protection**
- **Q&A**

Terms and Terminologies

1.

Terms and terminology.

What do they mean...

Privacy is: The right to be let alone

The Universal Declaration of Human Rights (UDHR), 1948 described the right to privacy as: **the right to respect for private life.**

Forms of Privacy:

* Physical * **Informational** * Social * Psychological



Terms and terminology.

What do they mean...

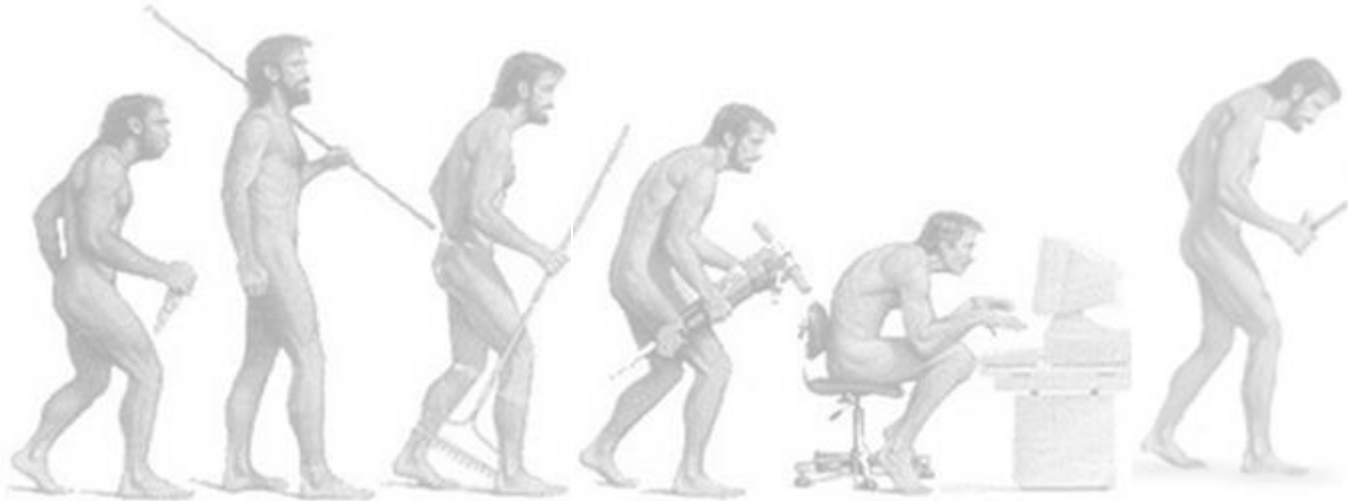
Data protection is:

The right to protection with respect to processing of personal data

The European Convention on Human Rights (ECHR), 1950 described the right to personal data protection as part of:
the right to respect for private and family life.

Evolution.

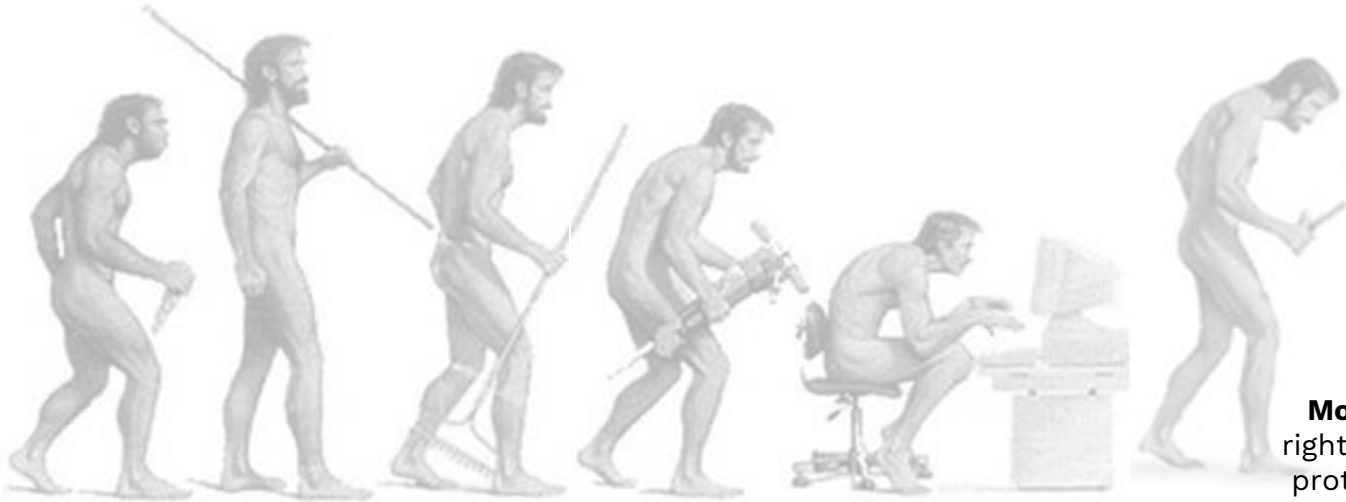
In the beginning was the...



Nonetheless, today, as a result of human evolution, we are worried not only about the protection of lives, but also the protection of data and information because **it's not only life that has value.**

Evolution.

As of today, we are...



Classic:
right to the protection
of privacy

Modern:
right to data
protection

Why do organizations exist?

Why security?

Terms and terminology.

What do they mean...

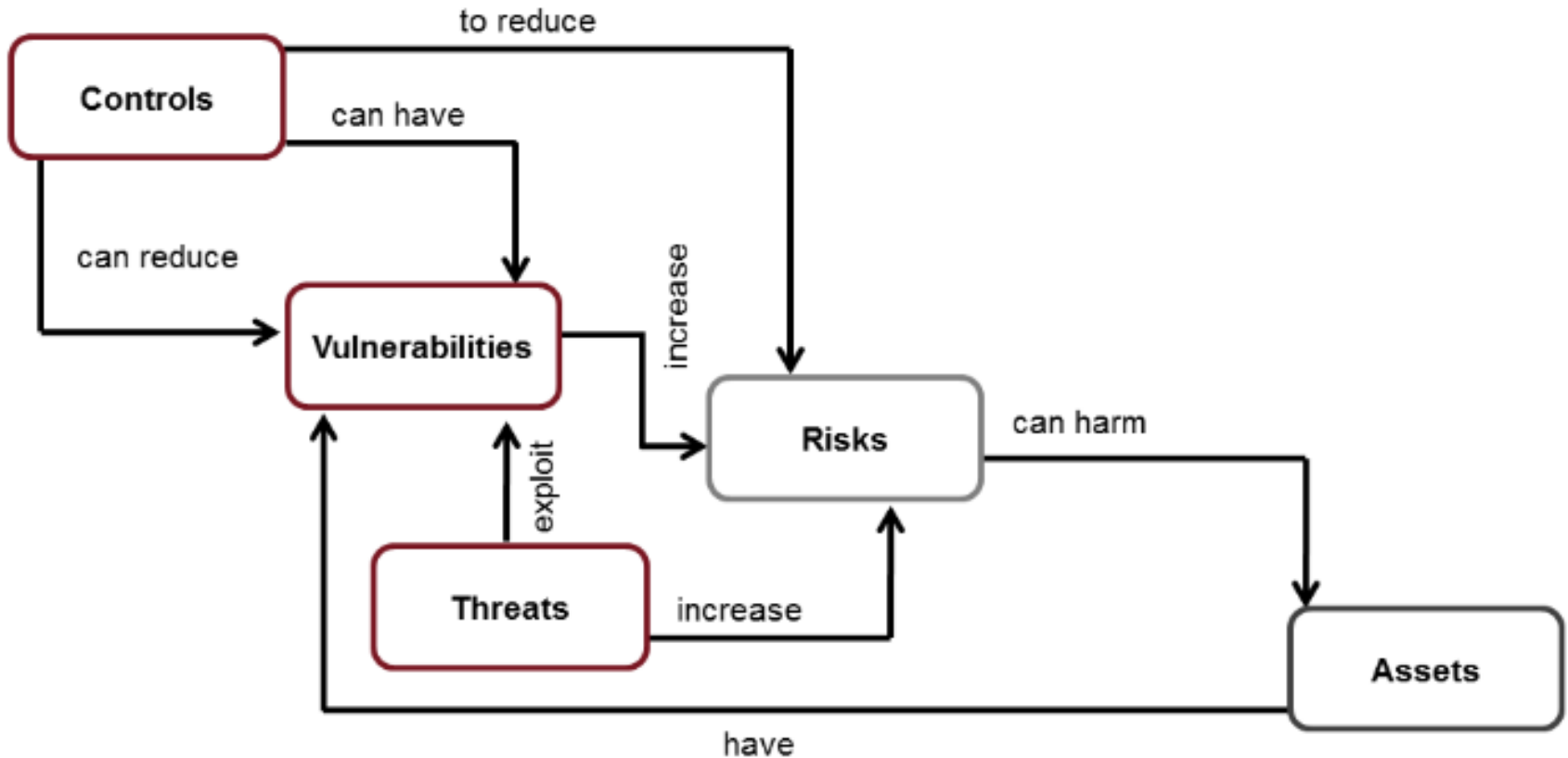
Security is:
state of being free from danger or threat

Information Security is:
preservation of confidentiality, integrity and availability
of information

Forms of security:

* Physical * **Information** * National * Economic

Terms and terminology. What do they mean...



Terms and terminology.

What do they mean...

Security Controls – to reduce the risk and organization faces.

Types (nature) and Categories:

a. Administrative (managerial & legal), technical and physical

b. Preventive, detective, corrective, deterrent, recovery and compensating

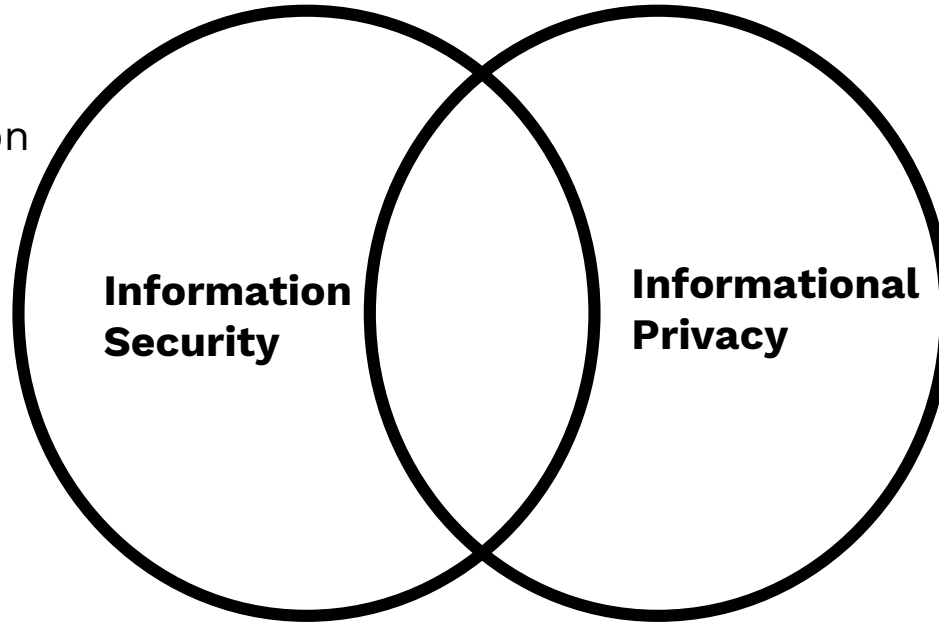
Summary.

What do they mean...

Classifies information into

- Restricted
- Confidential
- Internal Use
- Public

Non-repudiation
Authenticity



Classifies personal data into

- Private information
- Sensitive Private Information

Data minimization
Purpose limitation

There are only two people in the world I trust: you and me – and I'm not so sure about you.

Really, why security.

Computer Crime Laws...

Categories and Types:

- a. Computer-assisted crime Computer being used as a tool to carry out a traditional type of crime
- b. Computer-targeted crime Crime that cannot take place without a computer.
- c. Incidental crime Computer just happens to be involved e.g. storage

Issues

- a. Attribution
- b. Transborder complexities Convention on cybercrime
- c. Data Breaches Think of it as opposite of data protection or privacy

Sometimes these undesirable things affect lives and society is forced to enact laws that deter or punish those who do them. But then a crime is a crime, why the categories.

If you are not a Lawyer, you are not a Lawyer.

You are a security or privacy professional, Stick to protecting the company and privacy.
it's okay to be aware of and have experience with some of the laws and regulations. For compliance issues, get the Legal Team involved.

2. Which team in an organization should be responsible for Privacy?

- a. Security b. Compliance c. Legal d. Privacy**

2.

**Security Aspects of
Data Protection**

“If data protection principles are the celebrities of the data protection world, security is always on the A-list, a true VIP”

Stewart Room

"you can have security without privacy, but you cannot have privacy without security"

Security Aspect

Of Data Protection

“personal data must be processed in a manner that ensures **appropriate security** of the personal data, including protection against unauthorized or unlawful processing and against accidental loss, destruction or damage, using appropriate technical and organizational measures”.

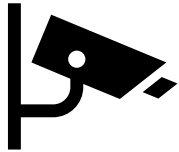
Security Aspect

Of Data Protection

- Security is not but one of the principles of privacy
- Security is often a pre-requisite to achieving compliance with other data protection principles
- Only area where “appropriate” technical and organizational measures (integrity and confidentiality) is capable of full definition Risk-based approach

Security Aspect Of Data Protection

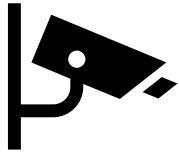
Data Handling



Data and Information Classification is the first steps towards Data and Information Protection throughout the information lifecycle. Other areas in consideration for privacy and security include Data Retention, ROPA etc.

Security Aspect Of Data Protection

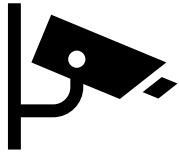
Privacy by Design (PbD) and Security by Design (SbD)



Privacy and security program concept that enables the proactive identification and mitigation of privacy and security risks at the onset of new technology and business initiatives and throughout the personal data lifecycle.

Security Aspect Of Data Protection

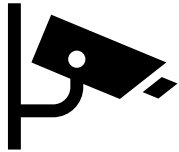
3rd Party Risk Management



Another critical risk area in security and privacy is the management of 3rd party risks. Protecting the data we share with or receive from our vendors – controllers and processors.

Security Aspect Of Data Protection

Incident Response and Breach Notification



An occurrence that **actually or potentially** results in **adverse consequences** to an **information system** or the **personal data** that the system **processes, stores,** or **transmits** and that may require a **response action** (including notification to SA and DS) to mitigate the consequences.

3.

Q&A

**So my time is
running out:**

Appropriate security and privacy. Ensuring appropriate balance

Reference:

- European Data Protection Law and Practice
- CISSP Exam Guide
- Privacy Management Program
- Rowenna Fielding @MissInfoGeek
- Bruce Schneier @Schneierblog
- Peer Review: Ridwan Oloyede of TechHive Advisory

Thanks!



Any questions?

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