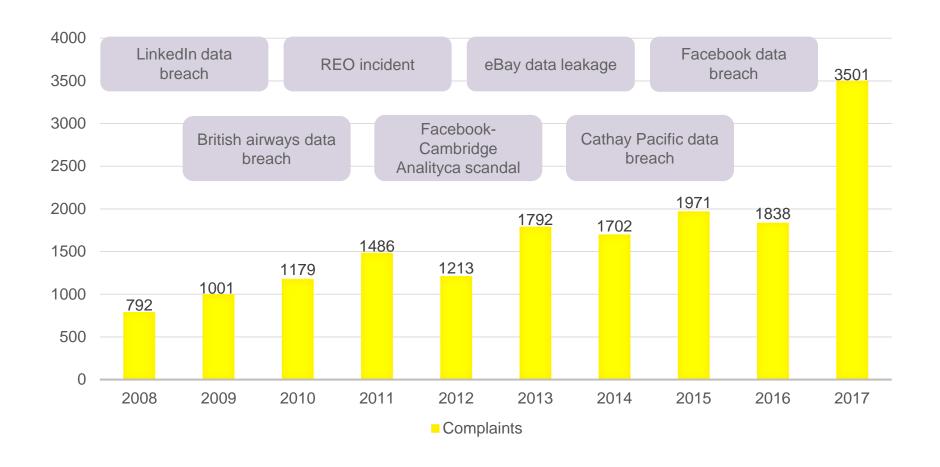
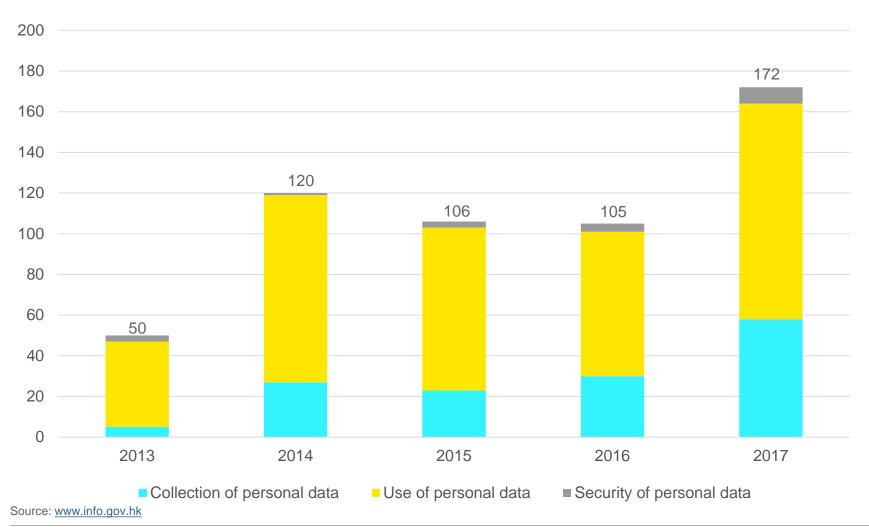


### Total number of complaint cases received by PCPD





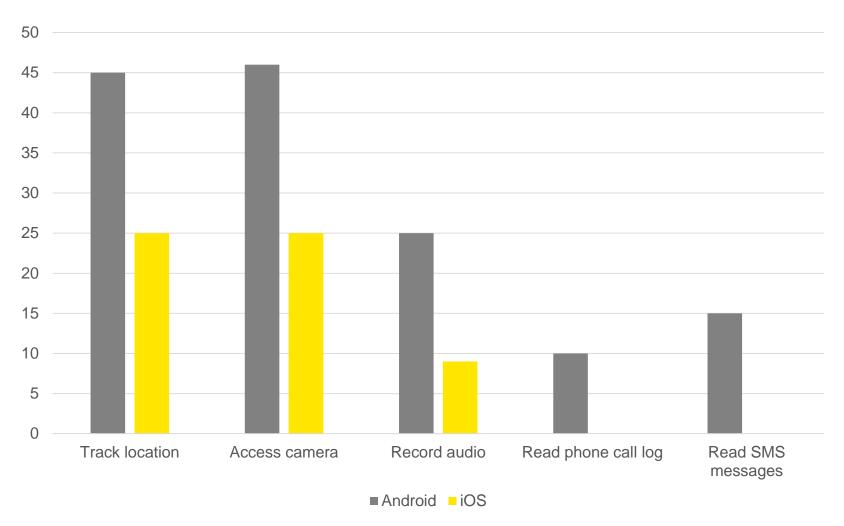
### Complaints received by PCPD related to personal data in social media accounts





6 Nov 2018

## Percentage by mobile apps that request risky permissions by Android & iOS



Source: <a href="https://www.symantec.com/blogs/threat-intelligence/mobile-privacy-apps">https://www.symantec.com/blogs/threat-intelligence/mobile-privacy-apps</a>





### 1. Personal Data (Privacy) Ordinance (Cap. 486)

- 'Personal data' means any data -
  - (a) Relates directly or indirectly to a living individual ("data subject")
    - Can be used to identify that person
  - (b) Exists in a form which can be processed and accessed

e.g.

Name	ID card number
Phone number	Medical record
Address	Employment record

- 'Data user' means a person who
  - Either alone or jointly or in common with other persons, controls the collection, holding, processing, usage
  - Liable as the principal for the wrongful act of its authorized data processor
- 'Data subject' means a person to whom personal data relates



## 1. Personal Data (Privacy) Ordinance (Cap. 486) (Cont'd)

#### **Six Data Protection Principles**

**DPP1: Collection** 

Personal data must be collected in a lawful and fair way, for a purpose directly related to a function / activity of the data user. Data collected should be adequate but not excessive.

DPP2: Accuracy & Retention

Practical steps shall be taken to ensure personal data is accurate and not kept longer than what is necessary to fulfil the purpose for which it is used.

**DPP3: Data Use** 

Personal data must be used for the purpose for which the data is collected or for a directly related purpose, unless voluntary and explicit consent with a new purpose is obtained from the data subject.









## 1. Personal Data (Privacy) Ordinance (Cap. 486) (Cont'd)

#### **Six Data Protection Principles**

**DPP4: Data Security** 

A data user needs to take practicable steps to safeguard personal data from unauthorized or accidental access, processing, erasure, loss or use.

**DPP5: Openness** 

A data user must take practicable steps to make personal data policies and practices known to the public regarding the types of personal data it holds and how the data is used.

DPP6: Data Access & Correction

A data subject must be given access to his / her personal data and allowed to make corrections if it is inaccurate.

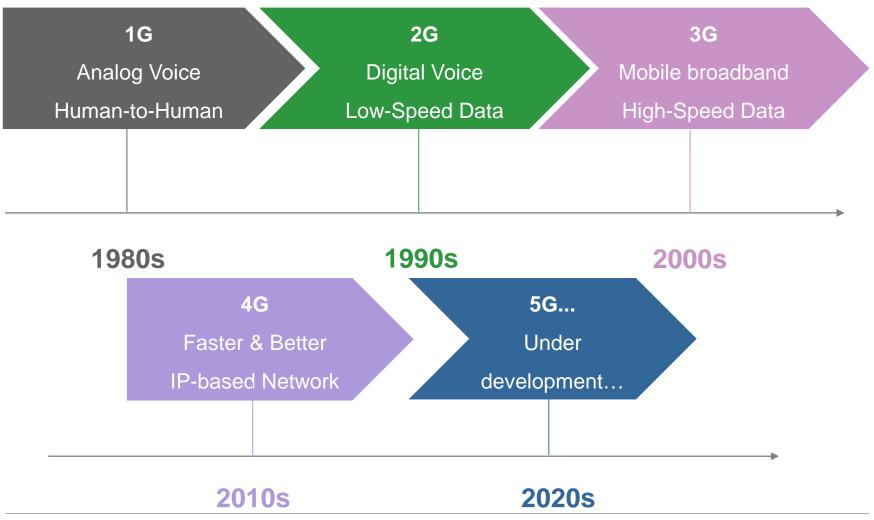








#### 2a. Mobile Use - Development





#### 2a. Mobile Use - Development (Cont'd)

Simple phone call SMS MMS

Mobile web access

IP telephone

Gaming services

HD mobile TV

Video conferencing



#### 2b. Mobile Use - Privacy Concerns

- The increased complexity and functionality of mobile applications along with the frequent usage of social media have raised numerous security concerns and also mobile malware
  - Expander
  - Worm
  - Trojan
  - Spyware
- People are abusing the power and convenience of technology without having enough security awareness
  - Social media
  - Online shopping
  - Managing finances
  - Playing online games



### 2c. Mobile Use - Practical Tips

- Use a complex pass
  - Minimum length of
  - Alphanumeric
  - Non-sequential
  - Special characters
  - Do not use default
- Beware of what app
  - You can disable lod

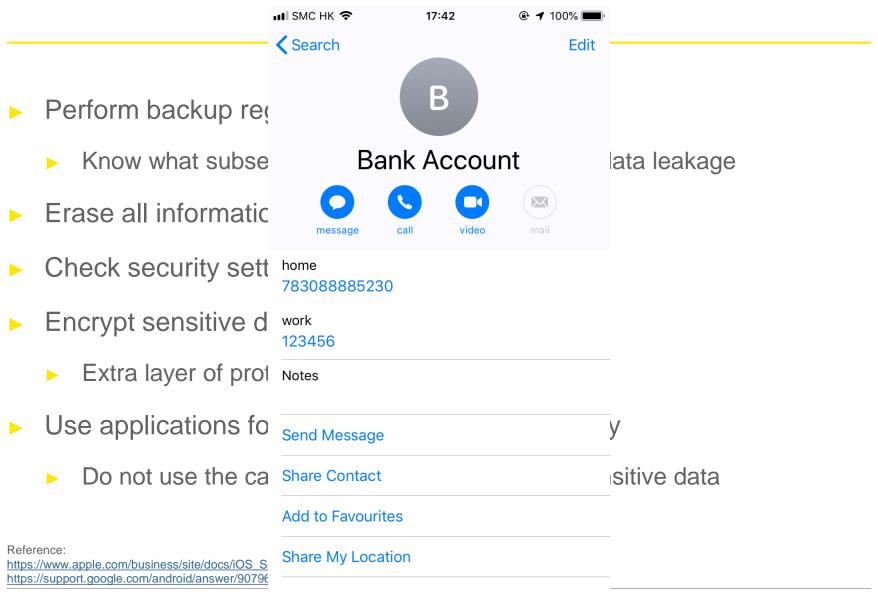


ocation

app



#### 2c. Mobile Use - Practical Tips(Cont'd)



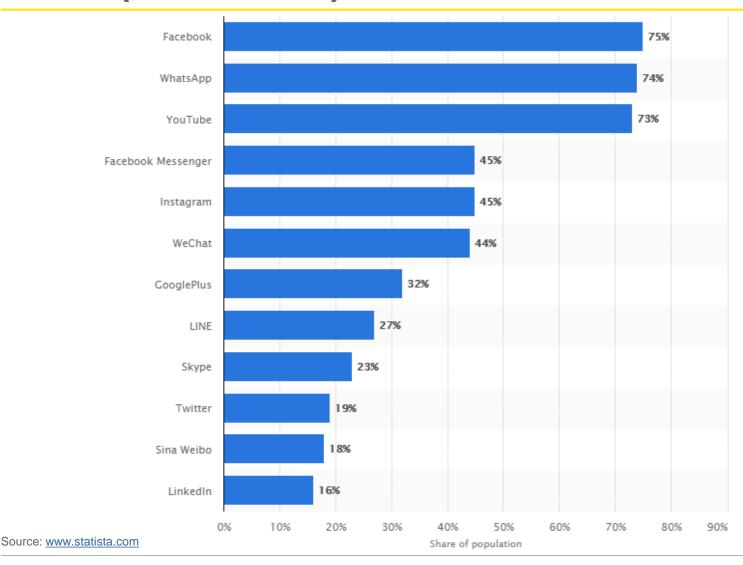


### 2c. Mobile Use - Practical Tips(Cont'd)

- Download applications from the official app store
  - Dramatic increase in the number of mobile malware
  - Remove suspicious apps
- Connect to trusted Wi-Fi spots only
  - Man-in-the-middle attack, eavesdropping
- Update the OS regularly
  - Security patch
- Enable automatic screen lock
- Install proper anti-virus software



### 3a. Social Networking - Social Media Usage in HK (Q3 in 2017)





### 3b. Social Networking - Security Incidents

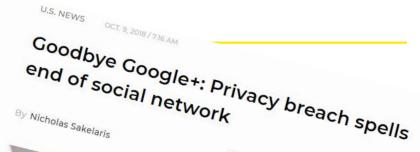
Prominent Twitter accounts
compromised after third-party app
Twitter Counter hacked



Facebook Security Breach Exposes Accounts of 50 Million Users



One of the challenges for Facebook's chief executive Mark Zuckerberg is convincing users that the company handles their data responsibly.





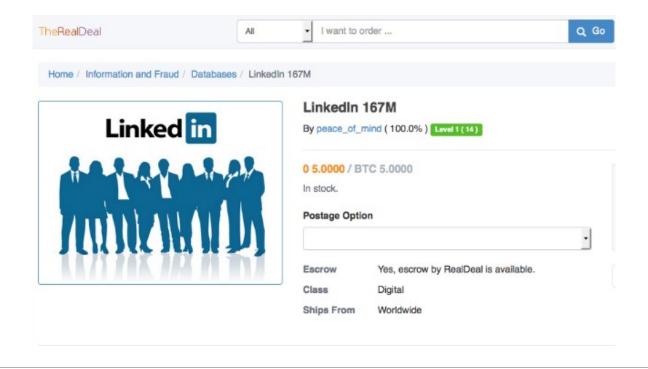
Data Breaches Compromised 3.3 Billion Records in First Half of 2018

The Breach Level Index is a global database that tracks data breaches and measures their severity based on multiple dimensions

Gemalto, the world leader in digital security, today released the latest findings of the Breach Level Index, a global database of public data breaches, revealing 944 data breaches led to 3.2 billion data records being compromised worldwide in the first half of 2018. Compared to the same period in 2017, the number of lost, stolen or compromised records increased by a staggering 72 percent, though the total number of breaches slightly decreased over the same period, signaling an increase in

### 3b. Social Networking - Security Incidents(Cont'd)

- LinkedIn data breach
  - Account information (Email address & password) of 117 million users have been hacked



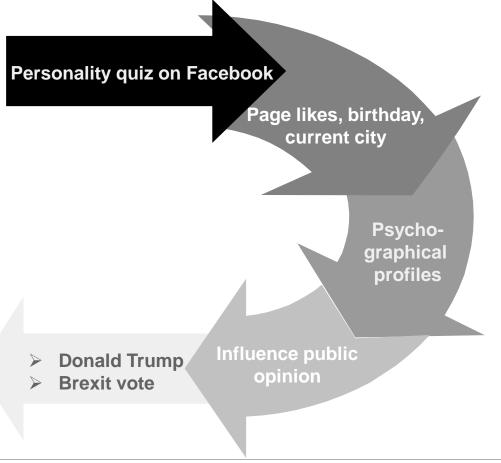


### 3b. Social Networking - Security Incidents(Cont'd)

Facebook – Cambridge Analytica data scandal









#### 3c. Social Networking - Privacy Concerns

- Social engineering
  - One of the most prevalent social media threats
  - Most popular tactic for cyber criminals

Gather personal information through social media platforms

Use a plausible fake account to establish trust

Start asking for specific information

- Project names
- Infected document
- Prepared website



### 3c. Social Networking - Privacy Concerns(Cont'd)

- Celebrity name misuse
  - Hackers registering a new account under the name of a celebrity
  - Spread misinformation and rumors
  - Extract followers' personal information
- Compromised site
  - Social networking site compromised with malicious code
  - Visitors would be susceptible to attack
  - Rogue advertisements and third-party applications



### 3d. Social Networking - Practical Tips

- Read the privacy policy
  - Personal Information Collection Statement (PICS) & Privacy Policy Statement(PPS)
  - Get to know how personal data will be handled
- Avoid providing excessive personal data
  - Consider the genuine need
  - Is the supply of the data obligatory?
- Check the privacy settings
  - You can control what to be shared and how









## 3d. Social Networking - Practical Tips (Cont'd)

- Be cautious about third-party applications
- A picture tells a thousand words
  - Pictures may contain information you do not intend to share
- No simple "delete" button
  - Things you disclose online may be copied or kept permanently
  - No control over who can read it
  - Obtain consents of your friends before disclosing their data
- Social networks ≠ entirely virtual
  - People could trace or identify you in the physical world



## 3d. Social Networking - Practical Tips (Cont'd)

- Remove unused accounts
  - Reduce the fragmented information left on the Internet
- Do not add random strangers as "friend"
- Do not use same passwords for multiple accounts
- Use new features with caution



### **THINK** before you ACT



#### **Appendix**

https://www.pcpd.org.hk/english/complaints/statistics/statistics.html

https://www.info.gov.hk/gia/general/201804/25/P2018042500268.htm

https://www.statista.com/statistics/412500/hk-social-network-penetration/

https://www.pcpd.org.hk/english/data\_privacy\_law/ordinance\_at\_a\_Glance/ordinance.html

https://www.pcpd.org.hk/mobileapps/practice.html

https://www.apple.com/business/site/docs/iOS\_Security\_Guide.pdf

https://support.google.com/android/answer/9079631

https://motherboard.vice.com/en\_us/article/78kk4z/another-day-another-hack-117-million-linkedin-emails-and-password

https://www.facebook.com/help/325807937506242

https://help.instagram.com/196883487377501

https://www.whatsapp.com/security/

https://www.symantec.com/blogs/threat-intelligence/mobile-privacy-appsk



# General Data Protection Regulation (GDPR) of the European Union (EU)

- Effective from 25 May 2018
- Note the extra-territorial effect
- Any EU presence and activities / EU data subjects elements (see Recitals (22) to (24))

http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32016R0679&from=EN

- The University's GDPR website: <a href="https://intraweb.hku.hk/reserved\_2/gdpr/index.html">https://intraweb.hku.hk/reserved\_2/gdpr/index.html</a>
- The ISDM Policy website: <a href="https://isdm.hku.hk">https://isdm.hku.hk</a>





# The System and Practices in the University

The Privacy Policy Statement (revised version 2015):

http://www.hku.hk/privacy\_policy/

Code of Practice (revised version 2015): https://uis.hku.hk/web/gsabc/pdpo\_cop.pdf (portable storage devices, incident handling / reporting and other guidelines)





# The System and Practices in the University

- Data Collection Statement
- Statutory Data Access / Correction Request Process
- Sub-committee for Information Security and Data Management, Information Technology Policy Committee (compliance / monitoring) (formerly the Central Compliance Team) - Note the Information Security and Data Management (ISDM) Policy which also covers personal data
- University Data Protection Officer and Personal Data Protection Coordinators
- Information Technology Services (advice / security measures / guidelines / training information):
  <a href="http://www.its.hku.hk/services/training/infosec/personal-data-protection">http://www.its.hku.hk/services/training/infosec/personal-data-protection</a>



# The System and Practices in the University

### The Public Expectation

### **Awareness and Education**

#### **GOOD PRACTICE**





### Thank you!





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