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School of Law

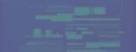
香港城市大學 City University of Hong Kong

Safeguarding Data Security Amid Increasing Cyberattacks

School of Law, City University of Hong Kong Course: Law and Technology (PLE5031/LW566H) 16 February 2024

Ada CHUNG Lai-ling Privacy Commissioner for Personal Data alle state







1. Overview of the Data Protection Principles as specified in the Personal Data (Privacy) Ordinance (PDPO)

- 2. Cyberattacks and data breaches
- 3. PCPD's initiatives to promote data security



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Definition Personal data means any data –

(Section 2(1) of the PDPO)



Relating directly or indirectly to a living individual;

From which it is practicable for the **identity** of the individual to be directly or indirectly **ascertained**; and

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In a form in which access to or processing of the data is practicable



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Who? Three groups are involved

Data Subject

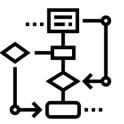


The individual who is the **subject** of the data

Data User



A person who, either alone or jointly or in common with other persons, controls the collection, holding, processing or use of the data **Data Processor**



A person who -

- a) Processes personal
 data on behalf of
 another person; and
- b) Does not process the data for any of the person's own

purposes

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6 Data Protection Principles

(Schedule 1 to the PDPO)



Represent the core requirements of the **Personal Data (Privacy) Ordinance (PDPO)**

Cover the entire lifecycle of the handling of personal data, from collection, holding, processing, use to deletion

Data users must comply with the DPPs

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DPP1 Purpose and Manner of Collection of Personal Data



Must be collected for a lawful purpose directly related to a function or activity of the data user



The means of collection must be lawful and fair



The data is **necessary, adequate but not excessive** in relation to the purpose of collection



All practicable steps shall be taken to inform the data subject whether it is obligatory to supply the personal data, the purpose of data collection, and the classes of persons to whom the data may be transferred, etc.

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DPP2 Accuracy and duration of retention

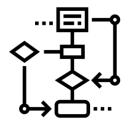
Data User



Should take all practicable steps to ensure:

- the accuracy of the personal data
- the personal data is not kept longer than is necessary for the fulfilment of the purpose for which the data is

Data Processor



If a data processor is engaged to process personal data, the data user must adopt contractual or other means to prevent the personal data from being kept longer than is necessary

used

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DPP3 Use of personal data



Personal data shall not, without the **prescribed consent** of the data subject, be used for a new purpose.

"Prescribed consent" means express consent given voluntarily which has not been withdrawn in writing



Under certain circumstances, a relevant person in relation to a data subject may, on his or her behalf, give the prescribed consent required for using the data subject's personal data for a **new purpose**.

"<u>New purpose</u>" means any purpose which is <u>unrelated to</u> <u>the original purpose or its</u> <u>directly related purpose</u> when the data is collected



DPP4 Security of personal data



Data users should take all practicable steps to ensure the personal data that they hold is protected against unauthorised or accidental access, processing, erasure, loss or use



If a data processor is engaged, the data user must adopt contractual or other means to prevent unauthorised or accidental access, processing, erasure, loss or use of the data transferred to the data processor for processing





All practicable steps should be taken to ensure that a person can:







Ascertain a data user's **policies and practices** in relation to personal data

Be informed of the kind of personal data held by a data user Be informed of the main **purposes** for which personal data held by a data user is or is to be used



DPP6 Data access and correction





A data subject must be given access to his personal data

A data subject must be entitled to the right to request corrections where the data is inaccurate. A data user must comply with a data access/correction request (DCR) within 40 days after receipt

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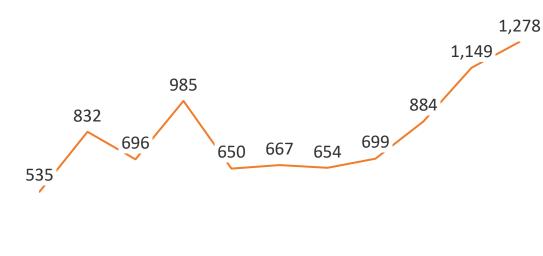
Global Situation The bad news is that cyberattacks are rising

Cyberattacks around the world

Ransomware victims

Q1 2021 – Q3 2023

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State of play in 2023

of **organisations** experienced **cyberattacks** in a global survey





94%

of IT professionals lose sleep worrying about the organisation being hit by a cyberattack



13

Source: Sophos

Global Examples The Medibank and social media cases – why we need to be worried



Medibank (2022)

- Hackers used the credential stolen from an employee account with preferential access to the internal system of the insurer
- Health data of over 9 million customers
 breached

Source: Reuters (2022)



For Immediate Release

Global Data Breach Involving Various Social Media and Online Platforms Privacy Commissioner's Office Reminds Platform Users to Stay Vigilant

Global Data Breach Involving Social Media Platforms (2024)

 Reports that researchers uncovered global data breach incidents affecting various online platforms involving 26 billion records of personal data

Source: PCPD (2024)

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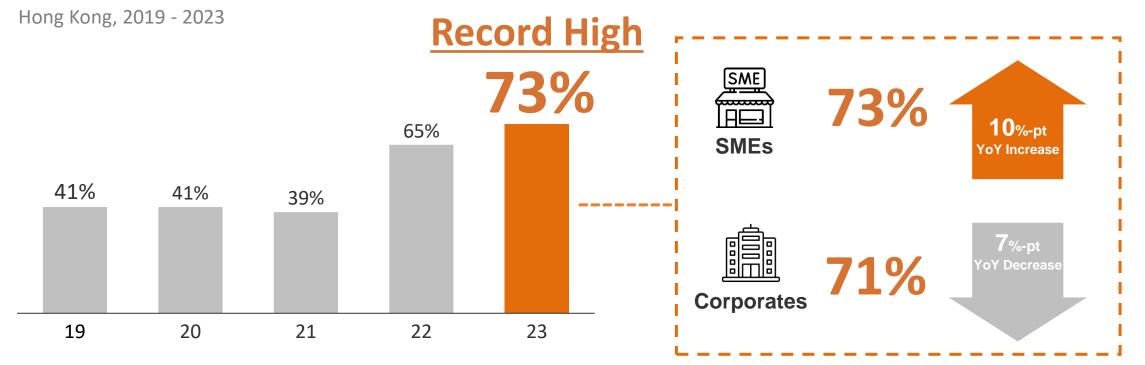


Local Cyber Security Attacks

Cyberattacks are also increasing in Hong Kong

PCPD's survey with HKCERT shows nearly ¾ of enterprises faced cyberattacks in 2023, the highest in five years

% of enterprises that encountered cyberattacks in the past 12 months



Source: Hong Kong Enterprise Cyber Security Readiness Index



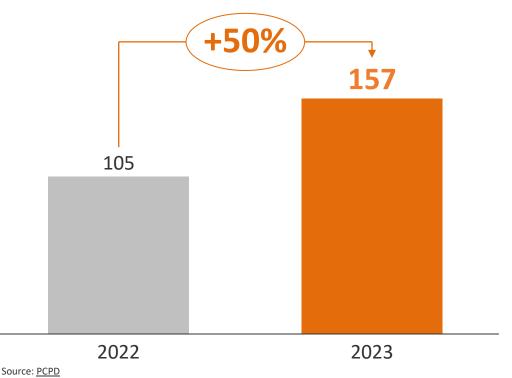
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Local Data Breaches

Data breach notifications surged in 2023; hacking was a major contributor

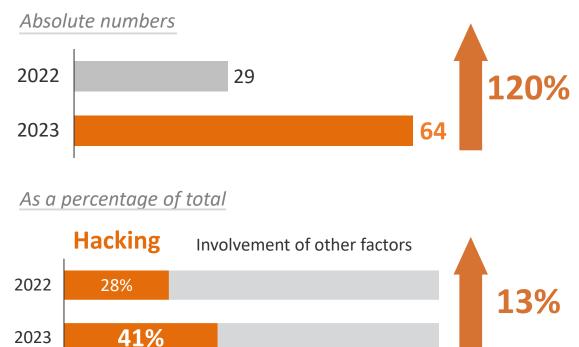
Compared with 2022, DBNs in 2023 rose substantially by 50%

Data breach notifications to PCPD



DBNs involving hacking rose both absolutely and relatively

Data breach notifications involving hacking



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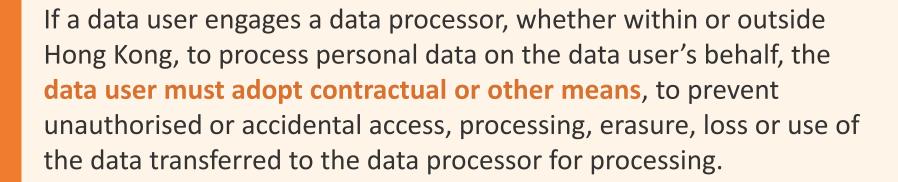
Legal Liability A data breach may amount to contravention of DPP4(1) and (2)

DPP4(1)



A data user shall take **all reasonably practicable steps** to ensure that the personal data it holds is protected against unauthorised or accidental access, processing, erasure, loss or use.







Inspections and Compliance Checks

PCPD takes proactive actions

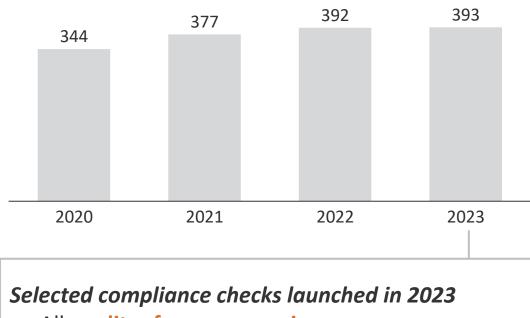
Inspections

Inspections by PCPD in the past three years		
Report Date	Companies Inspected	
9 Oct 23	ZA Bank Limited	
20 Sep 23	The Registration and Electoral Office	
20 Dec 22	TransUnion Limited	
18 Aug 21	(1) CLP Power Hong Kong Limited and (2) The Hongkong Electric Company, Limited	

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Compliance checks





- All credit reference agencies
- Users of AI systems



Investigation against Carousell Limited

Unauthorised scraping of personal data of Carousell users

Background



The investigation arose from a data breach notification lodged by Carousell Limited



The company reported that a listing posted on an online forum offered the sale of the personal data of 2.6 million Carousell users, including the personal data of 324,232 users in Hong Kong

Carousell's Explanation



The data breach incident was caused by a security vulnerability relating to a system migration

Data User's Obligation



Although Carousell Limited was at all material times using the information systems and database under the centralised model of the Carousell Group, Carousell Limited as a data user under the PDPO has a positive duty to safeguard the security of the personal data under its control



Investigation against Carousell Limited Findings

From the evidence collected in the investigation, the Privacy Commissioner considered that the incident had been caused by these deficiencies:



Failure to check whether a privacy impact assessment was conducted



Failure to check whether a comprehensive code review process was implemented



Failure to ensure a thorough security assessment was conducted



Failure to check and ensure that there was a written policy for the code review process



Failure to ensure that effective detection measures were implemented



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Investigation against Carousell Limited Decision

DPP4(1) contravention



Carousell Limited had **not taken all practicable steps** in relation to the system migration to ensure that the **personal data held by Carousell** were protected from unauthorised or accidental access, processing, erasure, loss or use, thereby contravening DPP 4(1) concerning the security of personal data The Privacy Commissioner served an Enforcement Notice on Carousell Limited, directing it to remedy and prevent recurrence of the contravention





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PCPD's Data Security Initiatives

PCPD is helping data users enhance data security and prevent data breaches

Data Security Thematic Webpage

One-stop access to resources on data security



Data Security Hotline

Provide SMEs with a channel to make enquiries about compliance with the PDPO



Data Security Scanner

Self-assessment toolkit for enterprises to assess adequacy of data security measures of ICT systems



Guidance Materials

- Data Breach Response Plan
- Guidance Note on Data Security Measures for ICT
- Privacy Management Programme (PMP)

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Data Breach Response Plan

Putting a plan in place can help minimise impact of a data breach

What?

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- A document setting out **how** an organisation should **respond in a data breach**
- The plan should outline:
 - a set of procedures to be followed in a data breach
 - strategy for identifying, containing, assessing and managing the impact brought about by the incident from start to finish

Why?



Help ensure a **quick response** to and **effective management** of a data breach

Elements

- Description of what makes a data breach
- $_{d \rightarrow \Box}^{\diamond \leftarrow \circ}$ Internal incident notification procedure
- & Contact details of response team members
- E Risk assessment workflow
- Containment strategy
- Communication plan
- $\mathbb{Q}_{\mathbf{k}}$ Investigation procedure
- Record keeping policy
- នៃខ្ញុំ Post-incident review mechanism

Training or drill plan

Handling Data Breaches

Handling a data breach requires 5 steps, with a preparatory plan in place



Guidance on Data Breach Handling and Data Breach Notifications

INTRODUCTION

Good data breach handling makes good business sense

A good data breach handling policy and practice is not only useful for containing the damage caused by a breach, but also demonstrate the data user's responsibility and accountability when tackling the problem, by formulating a clear action plan that can be followed in the event of a data breach. In addition to enabling the data subjects affected by the breach to take appropriate protective measures, data breach notifications can help reduce the risk of litigation and maintain the data user's goodwill and business relationships, and in some cases the public's confidence in the organisation.

This guidance is aimed at assisting data users to prepare for and handle data breaches, to prevent recurrence and to mitigate the loss and damage caused to the data subjects involved, particularly when sensitive personal data is involved.

What is personal data?

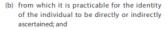
Data breach incidents often involve the personal data of individuals, such as customers, service users, employees and job applicants of organisations. Under the Personal Data (Privacy) Ordinance (Chapter 486 of the Laws of Hong Kong) (PDPO), personal data means any data'

 (a) relating directly or indirectly to a living individual;

Section 2(1) of the PDPC

2 Under section 2(1) of the PDPO, a "data user", in relation to personal data, other persons, controls the collection, holding, processing or use of the data





(c) in a form in which access to or processing of the data is practicable.

What is a data breach?

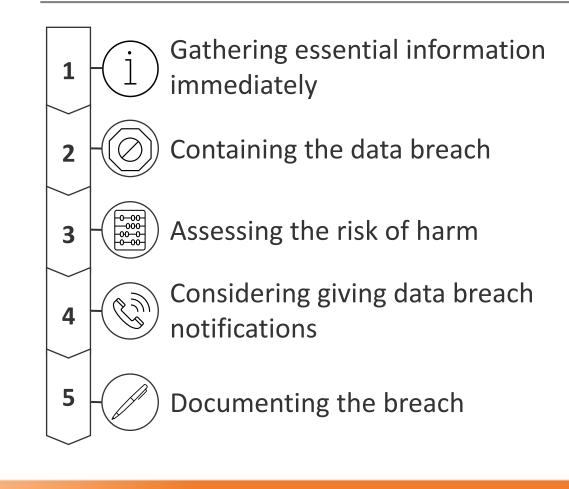
A data breach is generally regarded as a suspected or actual breach of the security of personal data held by a data user², which exposes the personal data of data subject(s) to the risk of unauthorised or accidental access, processing, erasure, loss or use.

The following are some examples of data breaches:

The loss of personal data stored on devices such as laptop computers, USB flash drives, portable bard disks or backup tapes



Handling data breaches



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Guidance Note on Data Security Measures for ICT

We recommend best practices in strengthening data security

Guidance Note on Data Security Measures for Information and **Communications Technology** ᠿ





Robust data security system is a core element of good data governance

Background

We have witnessed an **increasing number of data breaches** over the years

Data users should step up their data security measures to **prevent malicious attacks** on their information systems

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7 Recommended Measures Taking the below measures enhances data security of organisations

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Privacy Management Programme (PMP) Definition and benefits of adoption



私隱管理系統

What's PMP?

A management framework

- For the **responsible collection**, **holding**, **processing** & **use of personal data** by the organisation
- To ensure compliance with Personal Data (Privacy) Ordinance (PDPO)



Minimise risk of data security

Why PMP?

incidents



Handle data breaches effectively to minimise damage



Ensure compliance with PDPO



Build trust with employees and customers, and enhance corporate reputation and competitiveness

"Guide for Independent Non-Executive Directors" published by HKIoD recommends use of PMP as part of ESG management!

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Privacy Management Programme: A Best Practice Guide (revised in Mar 2019) Guidance on Data Breach Handling and Data Breach Notifications (revised in Jun 2023)



Guidance Note on Data Security Measures for Information and Communications Technology (Aug 2022)

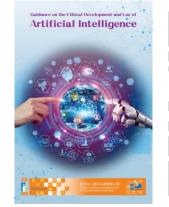




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Guidance on the Ethical Development and Use of Artificial Intelligence (Aug 2021)









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