



# Big Data for Re-Industrialisation in Greater Bay Area

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# Outline

1. Greater Bay Area
2. Re-industrialization
3. Conclusions

## 加快落实区域发展战略

- 继续推动西部大开发、东北全面振兴、中部地区崛起、东部率先发展
- 深入推进京津冀协同发展、粤港澳大湾区建设、长三角一体化发展
- 推进长江经济带共抓大保护



- 编制黄河流域生态保护和高质量发展规划纲要
- 推动成渝地区双城经济圈建设
- 促进革命老区、民族地区、边疆地区、贫困地区加快发展
- 发展海洋经济





# 大灣區

## Guangdong-Hong Kong-Macau Greater Bay Area (GBA)

項目	粵港澳大灣區	東京灣	三藩市灣
	(九市兩區)	(一都七縣)	(加州九縣)
地區生產總值	1.3萬億美元	1.8萬億美元	0.8萬億美元
區域面積	5.6萬平方公里	3.68萬平方公里	1.79萬平方公里
人口	6672萬	4383萬	760萬
港口集裝箱輸送量	6520萬TEU	766萬TEU	227萬TEU
機場旅客輸送量	1.5億人次	1.1億人次	0.7億人次

# GBA-GDP

	(a)	(b)/(a)	(b)	(c)/(b)	(c)
	1997	Increase (%)	2007	Increase (%)	2018
Hong Kong	177.353	1.19	211.597	1.60	339.1372
Guangzhou	26.451	4.26	112.550	2.87	322.7173
Shenzhen	20.445	5.24	107.222	3.19	341.9542

Unit : Billion USD

## 虎門大橋

長度：約15.8公里(主橋長4.6公里)

連接：東起虎門威遠，西接南沙

狀況：已通車

## 深中通道

長度：約24公里

連接：東接深圳，西接中山

狀況：料2020年竣工

## 港珠澳大橋

長度：近50公里

連接：東接香港國際機場人工島，西接廣東珠海拱北及澳門北區東方明珠

狀況：具體通車日期待三地協調和訂立通行安排

# 粵港澳大灣區 三大橋樑



GBA-TRANSPORTATION

# GBA-High Speed Railway

- From HK to SZ (Futian): 14 min
- From HK to North SZ: 23 min
- From HK to South GZ: 48 min



# GBA-Hong Kong SWOT Analysis

**Strength (S) :**

Soft skill  
軟實力

**Weakness (W) :**

Lack of holistic technology  
policy  
缺乏全面的科技政策

**Opportunity (O) :**

Leveraging on the Mainland,  
engaging ourselves globally  
背靠祖國，面向國際

**Threats (T) :**

The rising of key cities  
重點城市的起飛



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# What is Re-Industrialisation?

- Re-industrialization is the economic, social and political process of organising regional (national) resources for the purpose of re-establishing industry.
- The process proceeds as a result of a need to reinvigorate regional (national) economies.

(Wikipedia)

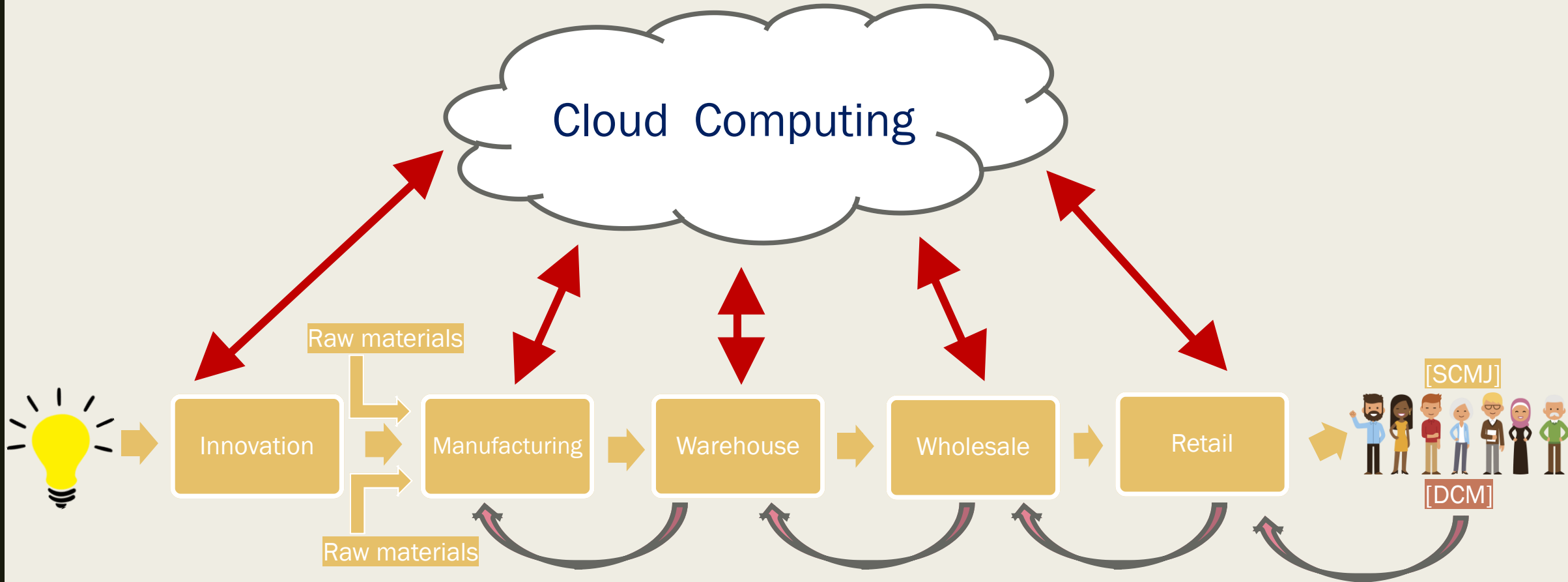
## 推动制造业升级和新兴产业发展

- 大幅增加制造业中长期贷款
- 发展工业互联网，推进智能制造

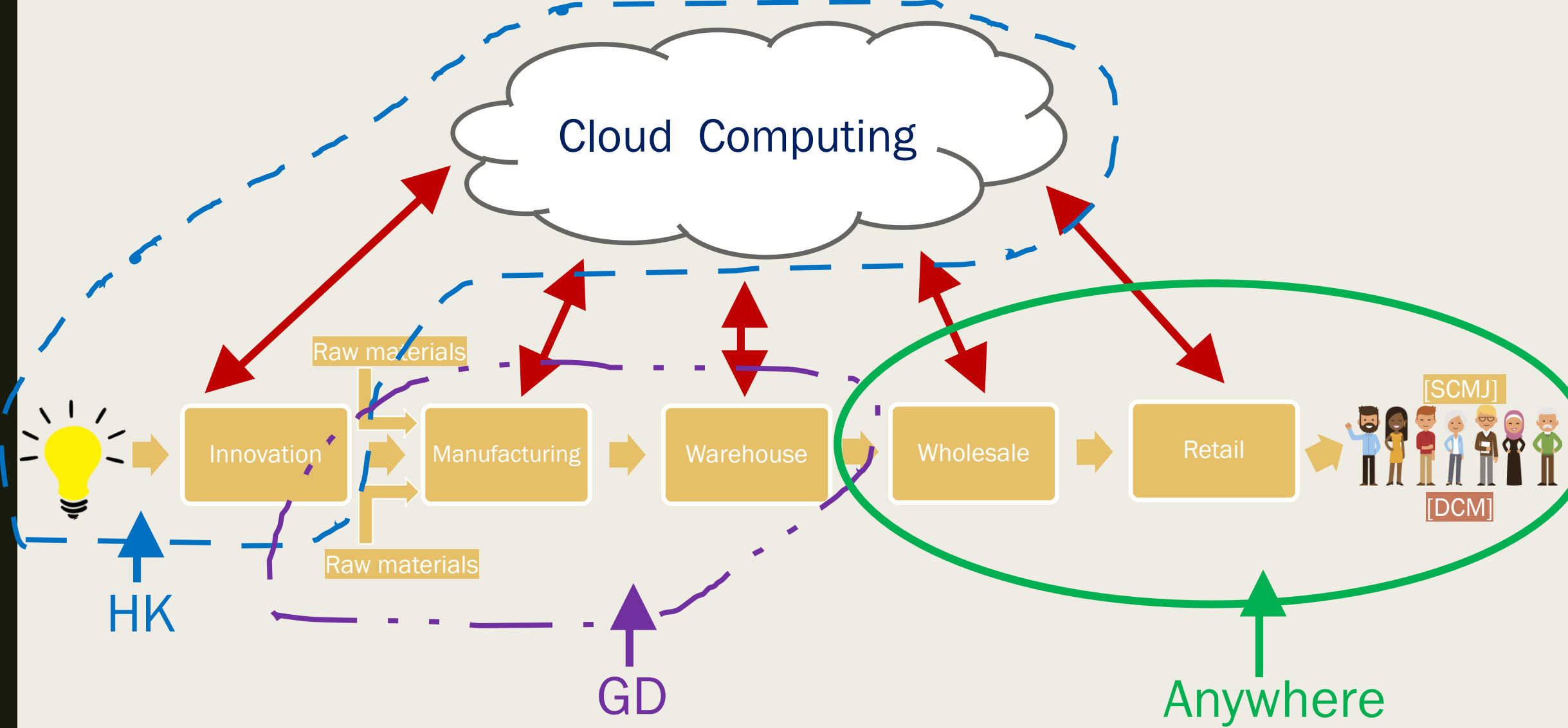


- 电商网购、在线服务等新业态在抗疫中发挥了重要作用，要继续出台支持政策，全面推进“互联网+”，打造数字经济新优势

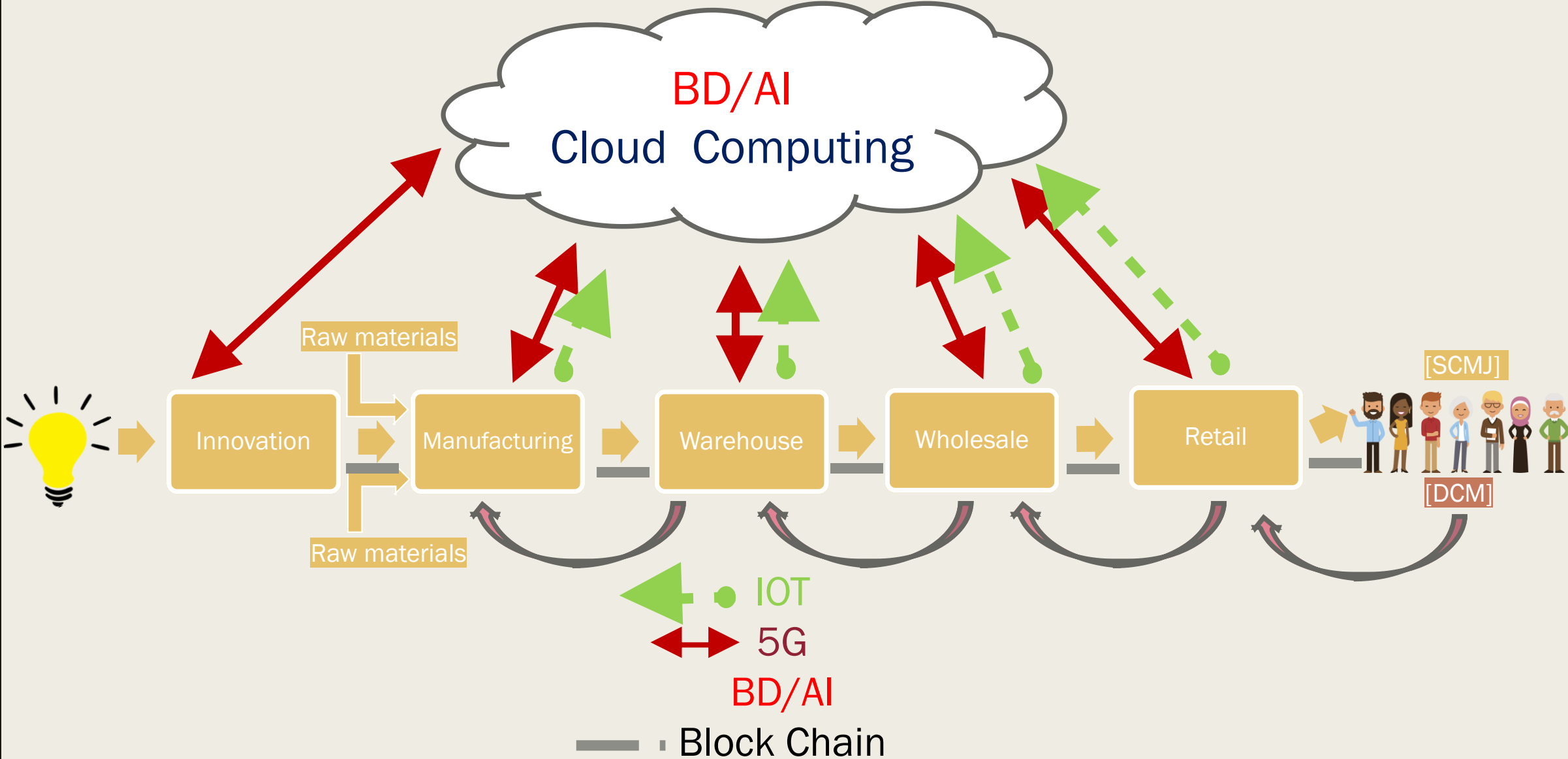
# New Re-industrialisation Model



# Division of Labour for Industrialisation in GBA



# Innovation & Technology for Re-Industrialisation



# Innovation Ecosystem

Seeding	Budding	Growth	Plantation
Basic Research (HK)	Prototyping (HK) Marketing Trial (GD) (Spin Off)           (SZ)	Mainland Market (GD)	International Market & Financing (HK)

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# Characteristics of Re-industrialisation

1. Supply VS Demand Driven
2. Mass VS Customised Production
3. Batch VS Just-In-Time Manufacturing
4. Rigid VS Agile, Process
5. Innovation VS Traditional Product

# Critical Success Factor (CSF)

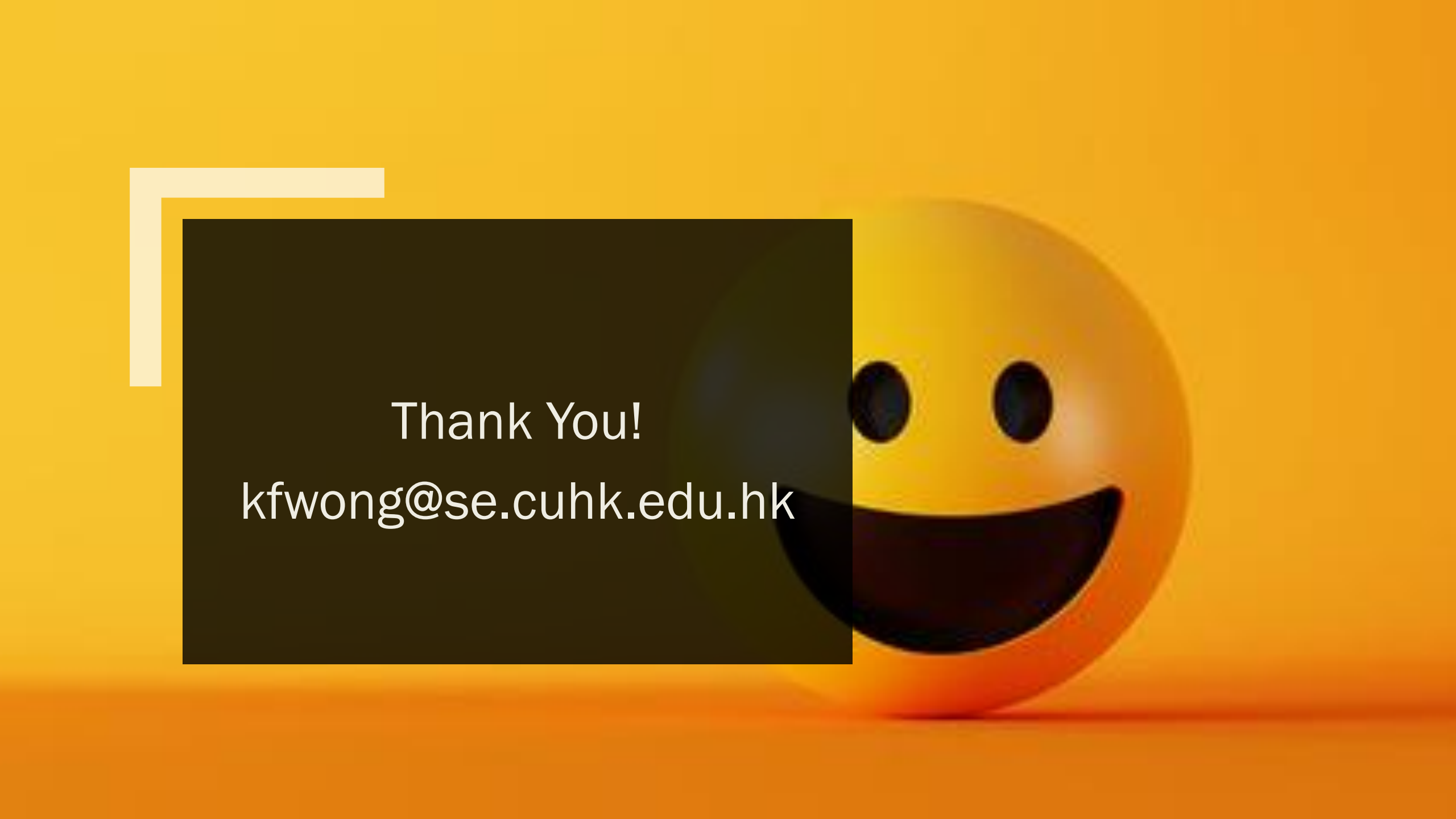
1. Digital Transformation
2. Big Data Analytics
3. GBA Digital Integration



# Data Governance

- Noisy Data
- Biased Data
- Small Data
- Life Data
- Appropriate Algorithm
- Data Privacy
- Explainable AI (XAI)

**Garbage In Garbage Out!**



Thank You!  
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