Module 2: Rise of Urbanization & Digital Technologies

Day 1
Module 2: Rise of Urbanization & Digital Technologies

Hong Kong – a very densely populated city

- 7.3 million population and 1,110 km² land area
- Land composition:
  - 66.3% (737 km²) woodland/wetland/country park
  - 24.2% (268 km²) build-up area
  - 6.1% (68 km²) agriculture use
  - 3.4% (37 km²) water body/barren land
- 4th most densely populated region in the world:
  - 6,700 persons/km² by gross area
  - 27,000 persons/km² by built area
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Hong Kong – a busy and efficient city

- 59.3 million visitors per year, > 8X population
- 12.6 million passenger-times use of public transportation daily (4.5 million by MTR)
- Ranked 3rd in air passenger flow (68.5 million), 1st in air cargo flow (4.38 million tons), over 406,000 flights per year
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Hong Kong's Global Rankings

- World Competitiveness Index
  the world's most competitive economy

- Data Centre Index
  1\textsuperscript{st} in Asia Pacific

- Internet Connection
  2\textsuperscript{nd} fastest average peak connection speed in the world

- Digital Security and Personal Safety
  world rankings as 4\textsuperscript{th} and 6\textsuperscript{th}, respectively

- Reliable Power Supply
  TIA-942 Tier 4 data center standard, > 99.999% reliability
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Transformation of Hong Kong’s Economy by its people

1967 to 1977: One of Asia’s “Four Dragons/Tigers”
- Manufacturing hub (light industries)
- Employing > 1 million workers, ≈ 30% of GDP

Early 1980’s to 2000: Transformed to a service economy
- Hong Kong’s manufacturing sector moving to Mainland China
- Trade and logistics, financial services, tourism and professional services
- Services sector contributes to more than 90% of GDP
- Manufacturing sector down to 1.4% of GDP

Now: Change to a knowledge-based economy
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Hong Kong’s Distinctive Advantages

- Strategically located at the heart of Asia
- World's freest economy (Fraser Institute) with trust
- Robust and independent legal and judicial system
- World-class infrastructure, including a well-connected high-speed ICT network
- "One Country, Two systems" arrangement, east meets west culture
- "Super-connector" of Mainland China
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- Relocating its Asian Headquarters to Hong Kong
- Hong Kong as its first overseas Innovation Node
- Setting up its first overseas branch in Hong Kong
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Hong Kong as a smart city of the future

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Pilots
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Objectives of Developing Hong Kong into a Smart City

- Make use of technology to address urban challenges to enhance city management and improve quality of life, sustainability, efficiency and safety for citizens
- Enhance city attractiveness to global businesses and talents
- Inspire continuous city innovations and sustainable economic/social development
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Wider Use of Public-Private-Partnership

Benefits of Public-Private-Partnership (PPP)

- Cost Efficiency
- Latest technology and solutions
- Opportunities for local SMEs
- Encouraging innovation
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PPP Experience in European Countries

Austria

- a consortium with 21 companies (mostly SMEs) and 800 freelance experts
- Facilitating joint bidding of Government projects on e-government services, e-learning services, learning management systems and tools, etc.

Estonia – eID and Mobile ID

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PPP Experience in Hong Kong - Wi-Fi.HK
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Smarter Hong Kong – a new journey