



*Developing the Smart City
Blueprint for Hong Kong*

***The HKCSS Convention 2017
cum 70th Anniversary
1 November 2017***

Urban Challenges and Trends



Megatrends

Ageing Population

300 million more people in the world's population will be aged 65 and over by 2025



Economic Shift

In 2030, **E7 will overtake the G7** in their size and purchasing power



Rapid Urbanisation

50% of global GDP is generated by the 300 largest metropolitan areas



Climate & Resource Scarcity

35% to increase in global food demand by 2030
Avg. temp. to rise by over **2° C** in 21st century

Technological Breakthroughs

21 technological shifts to take place by 2027
Avg. data breach costs **\$3.79M**. Total cost of data breaches has incr. 23% since 2013

Local trends

In 2030, **26.4%** of Hong Kong's population will be aged 65+

An ageing population will put **pressure on healthcare services and labour market** over time

Hong Kong's ranking in economic strength may move down to **69th** for 2025 from **21st** for 2015⁹

Greater **regional cooperation** with Mainland China

Hong Kong population expected to be **8.22 million** in 2044¹⁰, affect capacity of public services

Ageing urban system poses challenges to urban regeneration

HK's temp. is expected to further **rise by 1.5-3° C** by 2051-2060¹¹

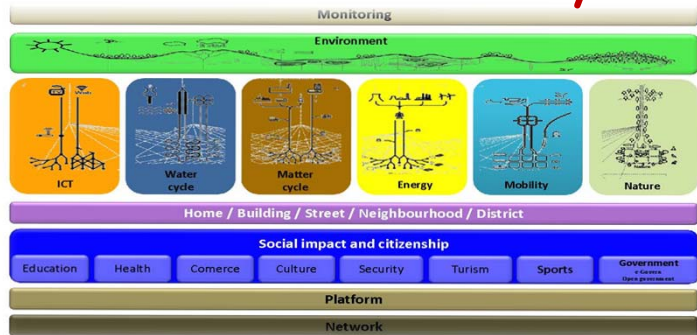


Rapid increase in mobile penetration rate to **232.2%**, amongst the highest in the world¹²

6.1 million smartphone users by 2021¹⁰

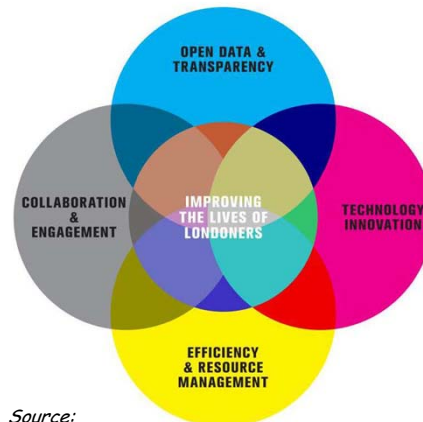
Some Notable Overseas Smart City Initiatives

Barcelona Smart City



Source: http://ibcelona.bcn.cat/sites/default/files/barcelona_smart_city.pdf

Smart London Plan

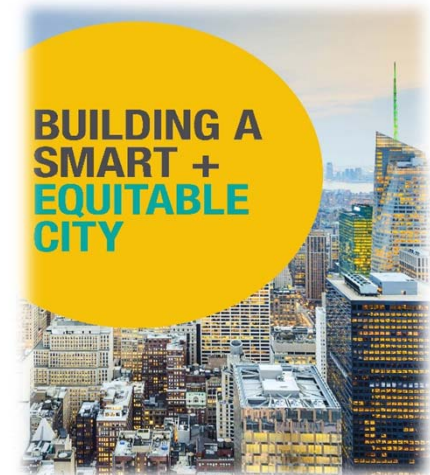


Source:
http://www.london.gov.uk/sites/default/files/smart_london_plan.pdf



Source: <http://www.i2r.a-star.edu.sg/online-kit>

Singapore



Source:
<http://www1.nyc.gov/site/forward/innovations/smartnyc.page>

Consultancy Study Report

***Report of
Consultancy
Study on Smart
City Blueprint for
Hong Kong***

June 2017



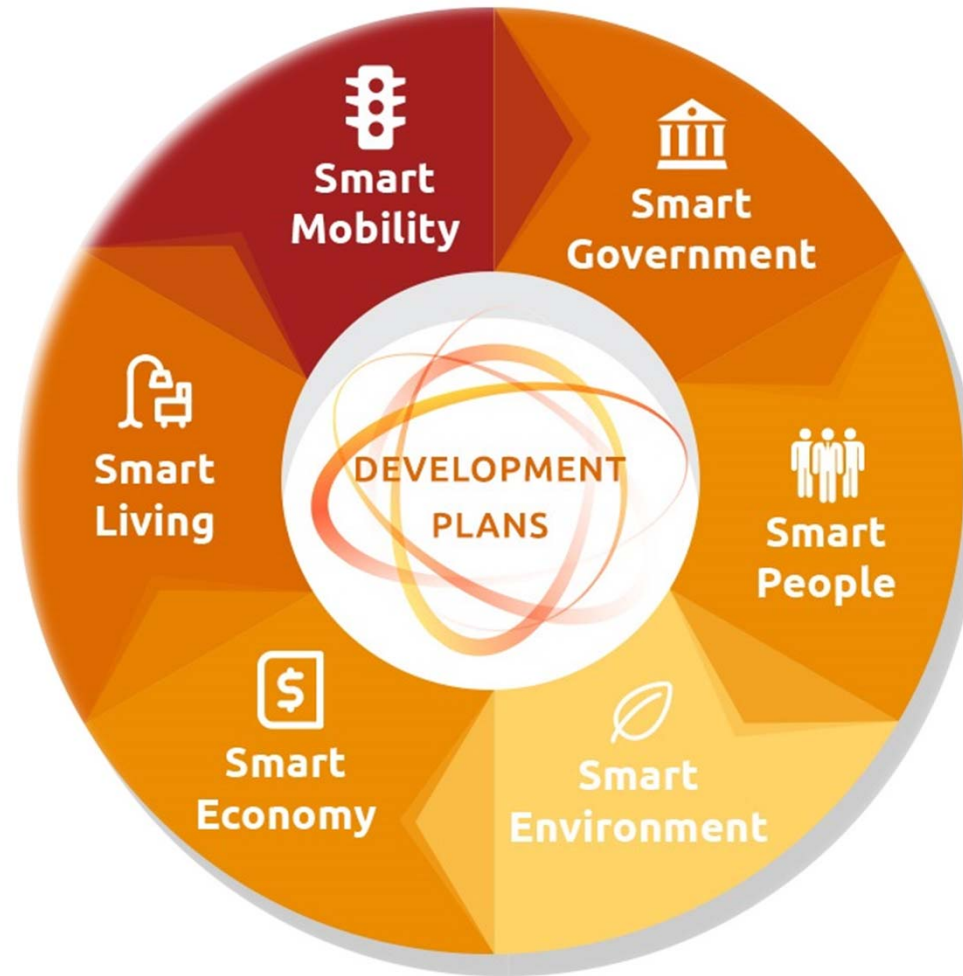
- Vision
- Development Plans
- Governance Arrangement
- Digital Framework
- Public-Private Partnership
- Proposed Pilot Projects

www.smartcity.gov.hk

Smart City Objectives

- 1) to make use of innovation and technology to address urban challenges, to enhance the effectiveness of city management and to improve people's quality of living as well as Hong Kong's sustainability, efficiency and safety;
- 2) to enhance Hong Kong's attractiveness to global businesses and talents; and
- 3) to inspire continuous city innovation and sustainable economic development.

Smart City Development Plans





Digital Payments



Digital Persona



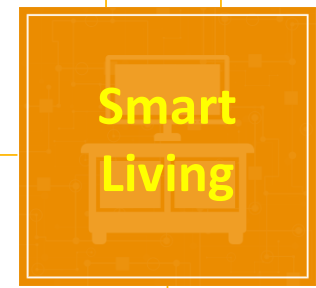
Smart
Community
Healthcare



Smart Workplace



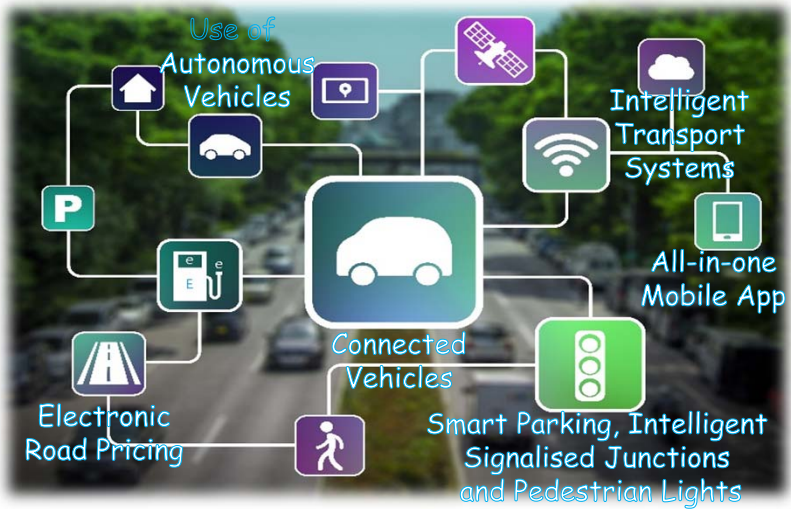
Smart Hospital Services





**Smart
Community
Healthcare**





Smart Public Transport Interchange or Major Bus Stops



Smart Airport



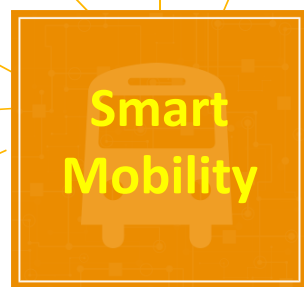
Use of Smart Buses



Promotion of Car Pooling and Sharing



Bike Facilities



Adoption of Smart Technologies in Traffic Enforcement



Installation of In-Vehicle Unit



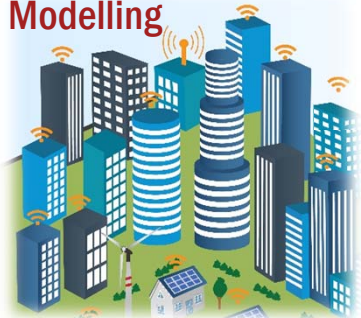
Use of Environmentally-Friendly Ferries for Passenger Ferry Services

Extended pedestrian green time for the elderly and people with mobility difficulties



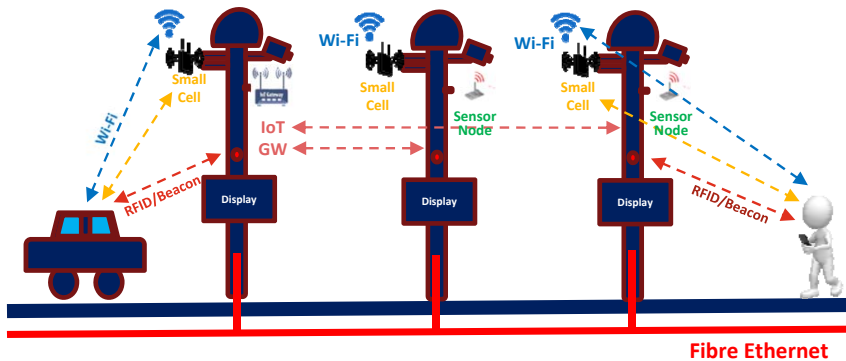
Smart Government

Building Information Modelling



e.gov

Smart Intelligent & Integrated Poles

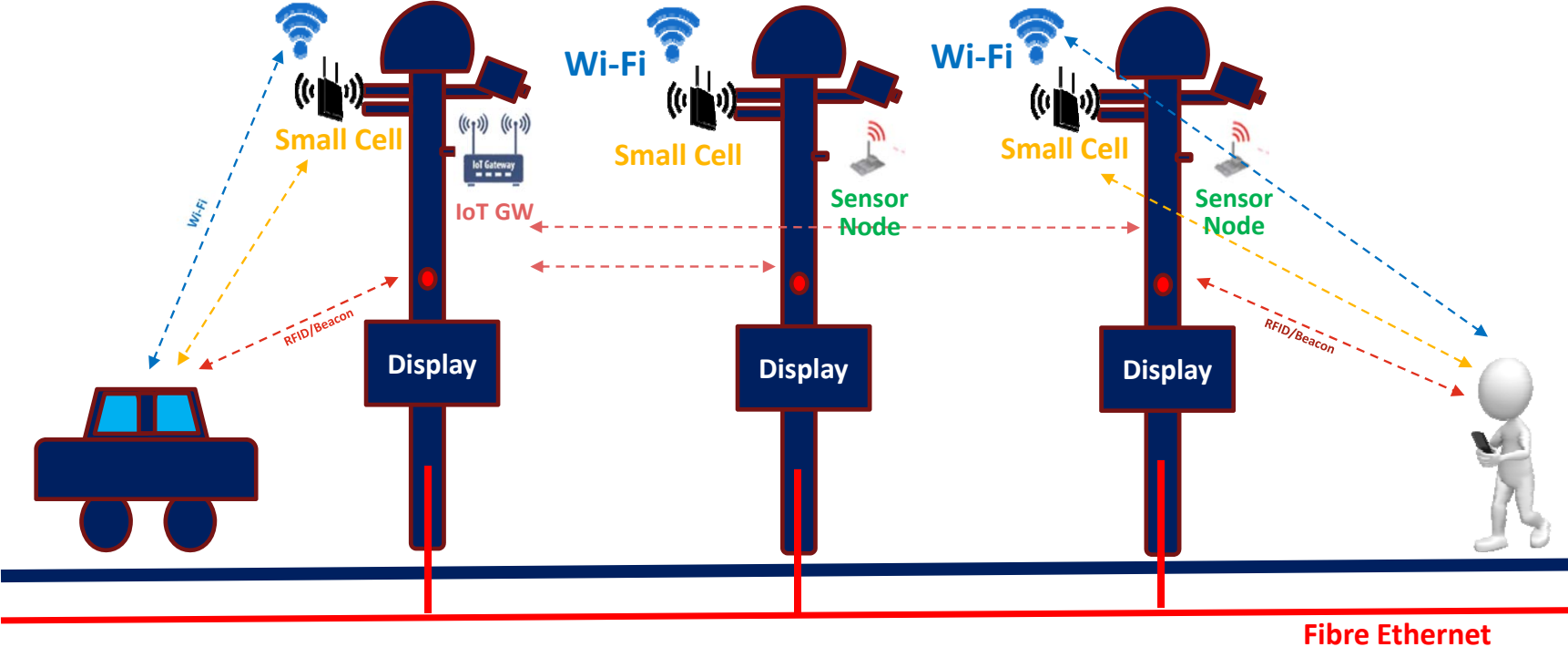


Virtual Hong Kong



Underground Integrated Ducts

Smart Intelligent & Integrated Poles





The Hong Kong Special Administrative Region of the People's Republic of China

The Chief Executive's 2017 Policy Address



Smart Hong Kong – Embarking a New Journey

