## Urban Challenges and Trends

### Megatrends

<table>
<thead>
<tr>
<th>Challenge</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Ageing Population</strong></td>
<td>300 million more people in the world’s population will be aged 65 and over by 2025</td>
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<td><strong>Economic Shift</strong></td>
<td>In 2030, E7 will overtake the G7 in their size and purchasing power</td>
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<td><strong>Rapid Urbanisation</strong></td>
<td>50% of global GDP is generated by the 300 largest metropolitan areas</td>
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<td><strong>Climate &amp; Resource Scarcity</strong></td>
<td>35% to increase in global food demand by 2030</td>
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<td><strong>Technological Breakthroughs</strong></td>
<td>21 technological shifts to take place by 2027</td>
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### Local Trends

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<tr>
<td>In 2030, 26.4% of Hong Kong’s population will be aged 65+</td>
<td>An ageing population will put pressure on healthcare services and labour market over time</td>
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<td>Hong Kong’s ranking in economic strength may move down to 69th for 2025 from 21st for 2015</td>
<td>Greater regional cooperation with Mainland China</td>
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<td>Hong Kong population expected to be 8.22 million in 2044, affect capacity of public services</td>
<td>Ageing urban system poses challenges to urban regeneration</td>
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<td>HK’s temp. is expected to further rise by 1.5-3°C by 2051-2060</td>
<td>Rapid increase in mobile penetration rate to 232.2%, amongst the highest in the world</td>
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<td>6.1 million smartphone users by 2021</td>
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Some Notable Overseas Smart City Initiatives

Barcelona Smart City

Smart London Plan

Singapore

Source: http://www.london.gov.uk/sites/default/files/smart_london_plan.pdf
Source: http://www.i2r.a-star.edu.sg/online-kit
Source: http://www1.nyc.gov/site/forward/innovations/smart-nyc.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
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
For discussion purpose only

PwC

Installation of

Promotion of Car
Pooling and Sharing

In-Vehicle Unit

Use of Smart Buses

Smart Mobility

Smart Airport

Smart Public Transport Interchange or Major Bus Stops

Use of Smart Buses

Promotion of Car Pooling and Sharing

Bike Facilities

Use of Environmentally-Friendly Ferries for Passenger Ferry Services

Installation of In-Vehicle Unit

Adoption of Smart Technologies in Traffic Enforcement

Connected Vehicles

Electronic Road Pricing

Use of Autonomous Vehicles

All-in-one Mobile App

Intelligent Transport Systems

Smart Parking, Intelligent Signalised Junctions and Pedestrian Lights

Use of Smart Buses
Extended pedestrian green time for the elderly and people with mobility difficulties
Smart Government

Building Information Modelling

5G

Data-analytics-as-a-Service

e.gov

Smart Intelligent & Integrated Poles

Virtual Hong Kong

Virtual 3D simulated platform

Underground Integrated Ducts

Display

Display

Display

Fibre Ethernet
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