Smart Mobility
Current Status

- over 12.6 million passenger trips on public transport every day with railway being the backbone
- over 99% of Hong Kong people possess at least one Octopus card for digital payment across public transportation and retail outlets
- mobile check-in desks
- self-bag drop
- indoor wayfinding
- tracking of airside vehicles
- smart luggage tag

roads are dense with 354 licensed vehicles for every kilometre of road
Intelligent Transport System and Traffic Management

- Integrate existing applications (HKeTransport, HKerRouting and eTraffic News) into an all-in-one mobile app by 2018.
- Develop the installation of "in-vehicle units" (IVUs) for allowing motorists to receive real-time traffic information and paying tunnel fees by remote means through the IVUs, without toll booths in the light of the feasibility study to be completed by 2018.
- Complete the installation of about 1200 traffic detectors in all strategic roads to provide real-time traffic information by 2020.
- In light of the results of the feasibility study, engage the public to develop a detailed Electronic Road Pricing (ERP) Pilot Scheme in Central and its adjacent areas and its implementation strategy in 2019.
- Introduce pilot intelligent traffic signal systems with sensors for pedestrians and vehicles at road junctions starting from 2021.
• Adopt an automatic tolling system without toll booths for the new Tseung Kwan O – Lam Tin Tunnel in the light of findings of field trials and subject to the approval of the Legislative Council on the necessary legislative amendments by 2021

• Facilitate trials of autonomous vehicles in West Kowloon Cultural District and other areas as appropriate

• Facilitate public transport operators’ plans in introducing new electronic payment systems for public transport fare collection, having regard to the systems’ reliability, user friendliness and efficiency

• Encourage public transport operators to open up their data

• Pilot the use of technology to deter improper use of loading and unloading bays and illegal parking from 2018

• Explore the use of crowd management system at Kai Tak Sports Park by the management authority to facilitate the monitoring of people and vehicle flows during major events

Public Transport Interchanges (PTIs)/Bus Stops and Parking

• Release real-time information of franchised buses through mobile devices by 2018 and information display panels at government PTIs and 1,300 covered bus stops by 2020

• Install new on-street parking meters to support multiple payment systems (including remote payment through mobile applications) starting from 2019-20 with provision of real-time parking vacancy information

• Encourage owners or operators of existing public car parks to provide real-time parking vacancy information using technology solutions to facilitate drivers to find parking spaces; and examine practicable measures to require new public car parks to provide real-time parking vacancy information
Environmental Friendliness in Transport

- Establish "bicycle-friendly" new towns and new development areas and improve existing cycle tracks and cycle parking facilities in new towns in phases, with the first phase of improvement works to be completed by 2018

- Take forward "Walk in HK" and encourage people to walk more by launching a series of initiatives under four themes which include
  (i) "Make it smart" by providing user-friendly information on walking routes
  (ii) "Make it connected" by enhancing pedestrian networks
  (iii) "Make it enjoyable" by making walking a pleasant experience
  (iv) "Make it safe" by providing a safe and quality pedestrian environment

Specific measures include providing covers on certain walkways connecting to public transport facilities, commencing a study on enhancing pedestrian connectivity between Wan Chai and Sheung Wan, selecting two areas in Hong Kong for pilot study to test out innovative measures for a comfortable walking environment, etc.

- Progressively expand walking path information on Causeway Bay and Kowloon East on government mobile apps to other districts

- Take forward the "Universal Accessibility Programme" to retrofit barrier free access to existing public walkways, as well as those walkways which fulfil certain criteria

- Take forward new railway projects under the Railway Development Strategy 2014 in an orderly manner for the next stage of railway development, which will translate into environmental benefits by reducing roadside air pollutants and greenhouse gases

- Pilot use of green technologies in local ferry operation
Smart Airport

- Explore the provision of seamless travel experience by using facial biometrics technology including at check-in, boarding pass checkpoint and boarding
- Provide hassle-free travel experience for passengers by expanding mobile check-in services to off-airport locations, such as theme parks, hotels, convention centres, cruise terminal, etc., and providing baggage pick up services
- Facilitate the use of driverless vehicles in designated places, such as the restricted areas in the airport

Goals and Next Steps

Upon implementation of the above, people will be able to –

- enjoy more environmental friendly transport modes, including use of cleaner fuel in vessels to improve air quality and address other environmental concerns
- plan their journeys more efficiently with real-time traffic information
- enjoy better traffic planning and management through enhanced use of data analytics
- enjoy easy and efficient travel with smart airport
- enjoy a pedestrian-friendly environment

Looking Ahead

We will continue to explore and formulate initiatives to –

- alleviate traffic congestion and tackle other traffic management and enforcement issues through wider use of technology
- facilitate the achievement of technology advancement and industry development in vehicle-to-everything (V2X) and autonomous vehicles (AV) and ultimately introduction of AV with integrated Internet access
- enhance walkability and pedestrian wayfinding system