

Lesson PRESENT 2000 to 2010s

More ambitious and innovative projects to solve challenging flood problems



Promote green buildings

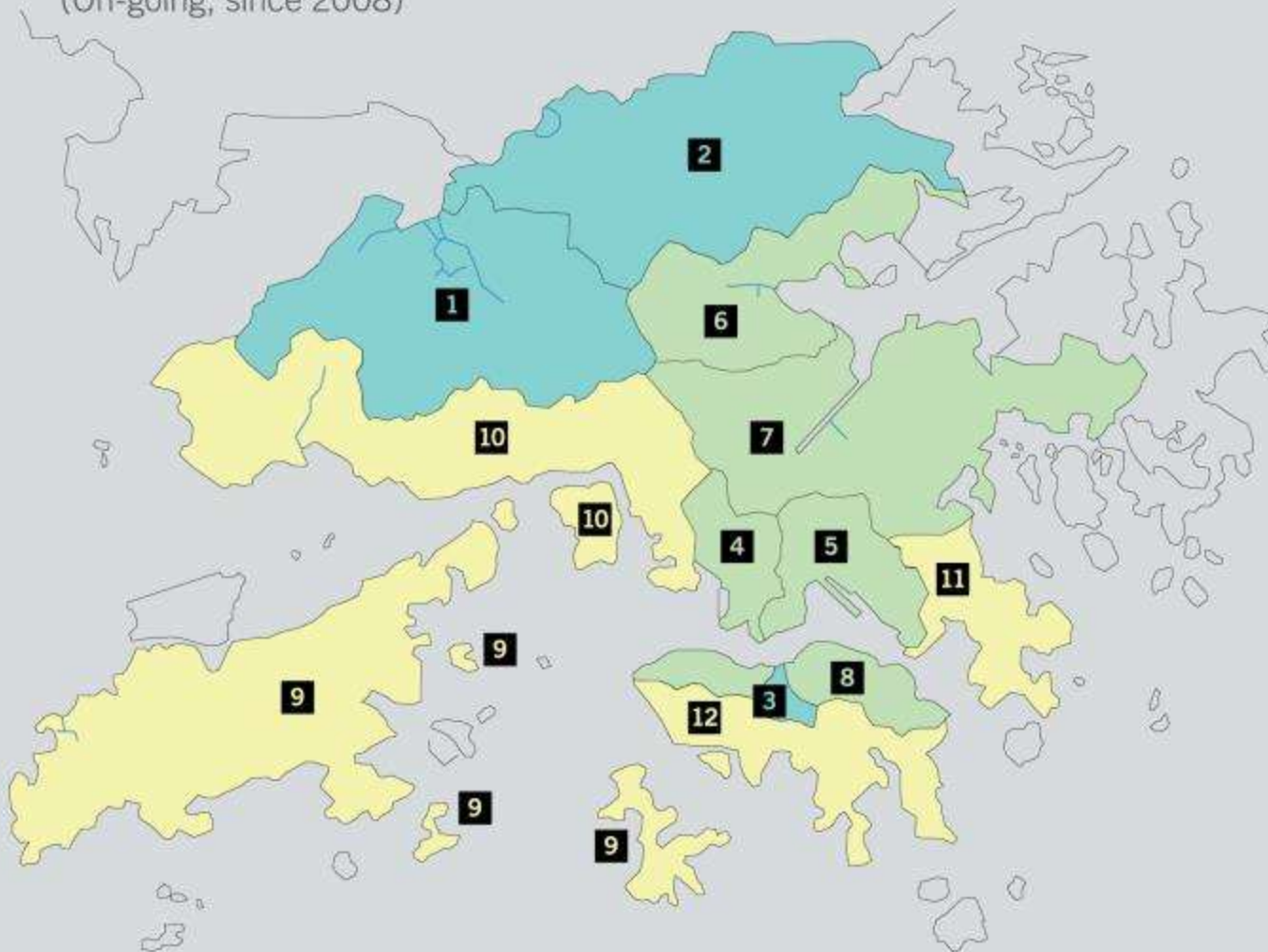


Integrate more bio-methods into solutions

Flooding: Developed Drainage Master Plan

Drainage Master Plan Review Studies

(On-going, since 2008)



Study areas:

Completed

- 1 Yuen Long
- 2 North District
- 3 Happy Valley

On-going

- 4 West Kowloon
- 5 East Kowloon
- 6 Tai Po
- 7 Shatin & Sai Kung
- 8 Northern Hong Kong Island

Planning

- 9 Lautau Island & Islands
- 10 Tsuen Wan, Tuen Mun & Tsing Yi
- 11 Tseung Kwan O
- 12 Southern Hong Kong Island

Innovation: Blue-Green Infrastructure



Challenging Problems:

e.g. storm drainage in Happy Valley



**Serious
flooding in
Happy Valley
2008,
including the
racecourse**

Innovation: Storm drainage projects



Happy Valley project to complete in 2018



Past & Present

Green Building:

- Movement started in the 1990s
- Hong Kong as the **1st Asian city** with Building Environmental Assessment Method



HK-BEAM, BEAM, BEAM Plus



1995



2015

From public housing to university campus



Green buildings registered
for BEAM Plus certification:

20,000,000 m² (by late 2015)



Future

TARGET

ENERGY INTENSITY

Hong Kong to achieve energy intensity reduction by 40 % by 2025 using 2005 as the base

Year
2025

-40%

Be "Energy Aware"
and "Energy Wise"



GOVERNMENT BUILDINGS AND PUBLIC HOUSING

- New government buildings with construction floor area of >5,000 m² with central air-conditioning or >10,000m² to achieve at least BEAM Plus Gold; and
- New public housing to achieve at least BEAM Plus Gold ready



Energy Past & Present

Highly reliable, plentiful and affordable electricity is vital for development



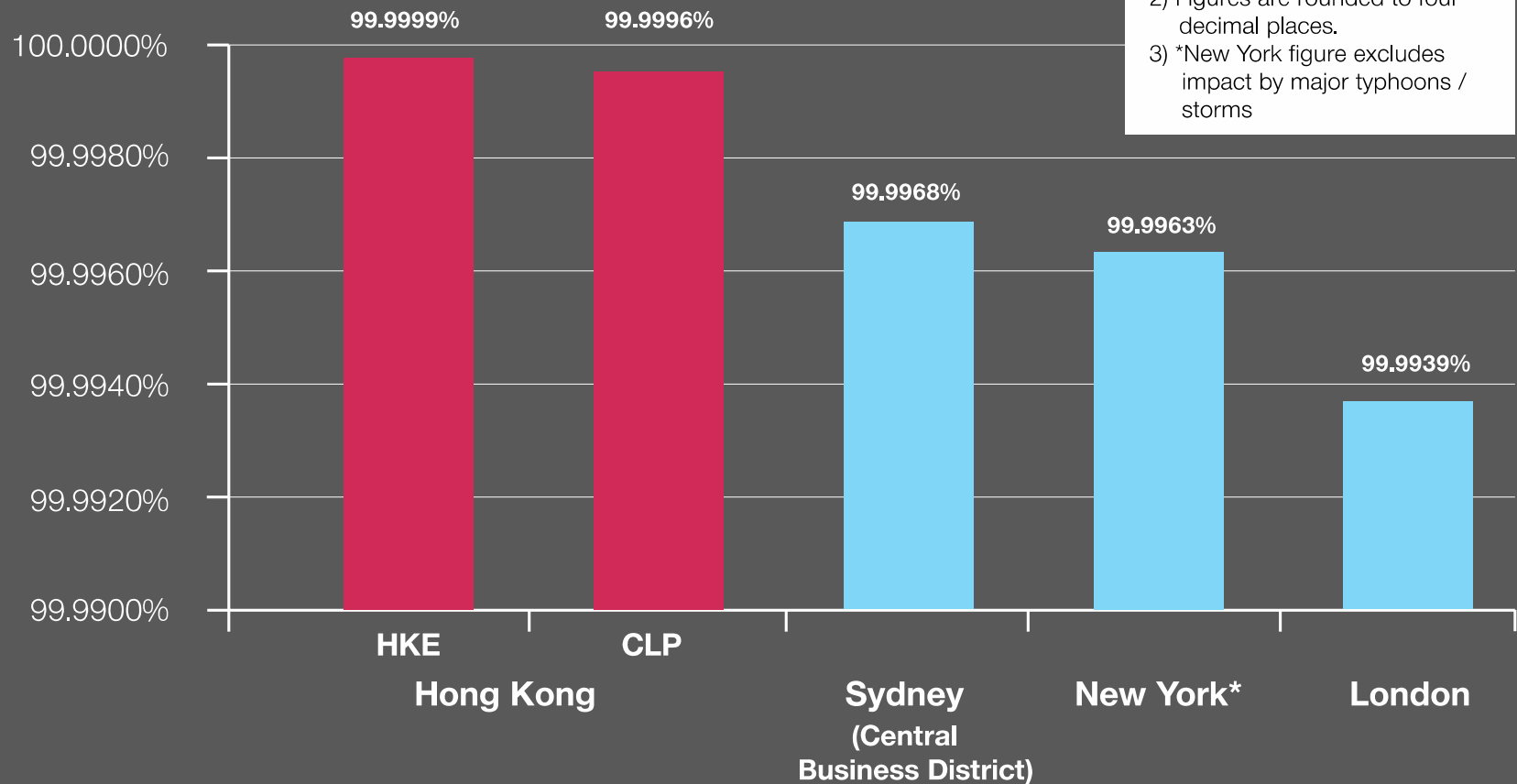
Extreme tall buildings

Elevators and escalators are essential



Very reliable electricity

Supply reliability of Hong Kong and other major cities



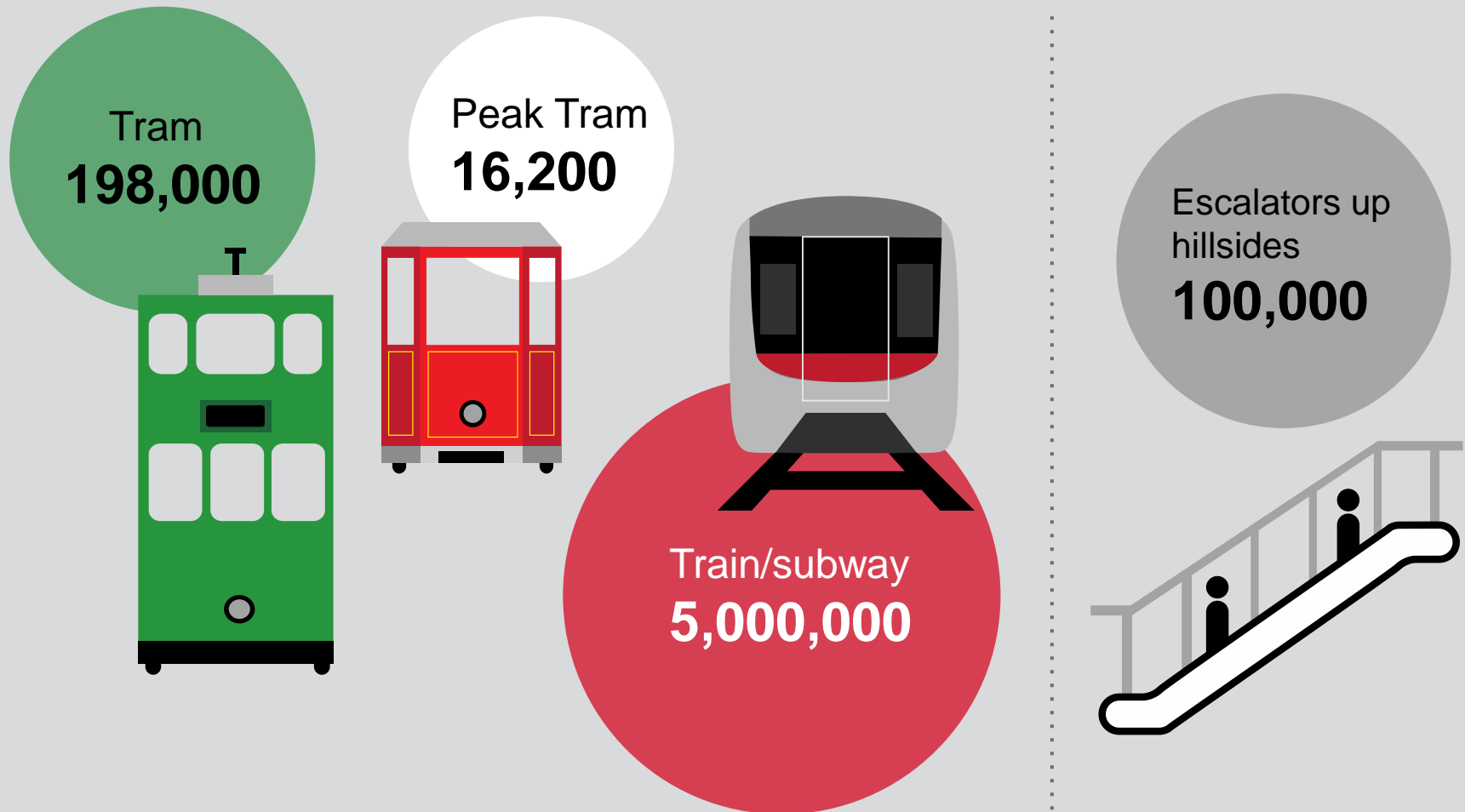
Transport Past & Present

Reliable, efficient and affordable
public transport



Public transport accounts for 90% of all passenger trips in Hong Kong

... mostly by electricity

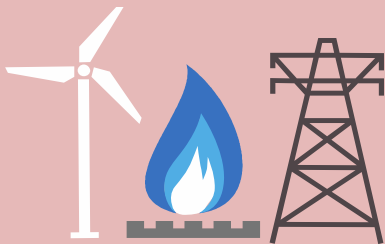


Energy & Transport Future

Electricity

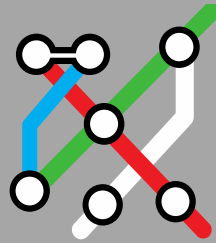


Reduce coal use

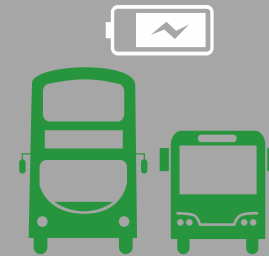


Increase RE
and save energy as
new business model

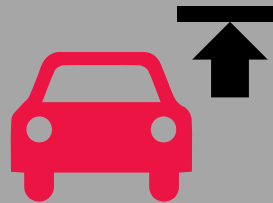
Public Transport



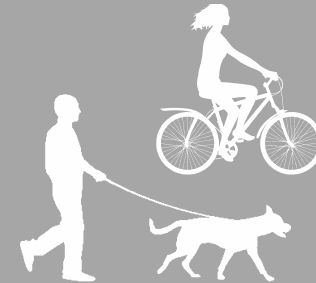
Increase
rail network



Trial clean buses
while keep fares
affordable



control
private car growth

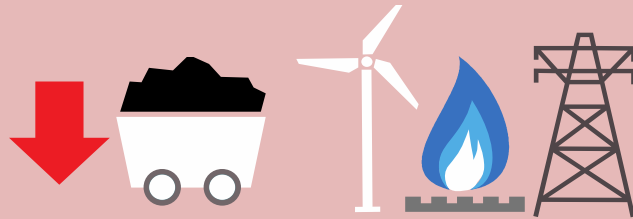


promote
walking/cycling

Going Forward

Energy

Reduce carbon; manage load;
promote RE and energy saving



Buildings

Expedite green
building
movement



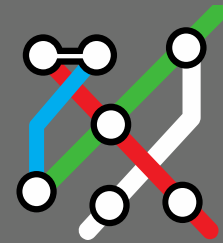
Society

Collaborate with
business and
community,
especially young
people



Transport

Ensure systems
are climate resilient



Finance

Work out new
ways to fund
continuous
investments and
improvements



Going Forward

Smart 聰明

九龍東

城市 **CITY** + District Cooling