HONG KONG

Extreme Climate Risks for an Extreme High-density City

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FACTS ABOUT HONG KONG

Tropical climate

Climate change risks
Adapting to typhoons has been a necessity for Hong Kong.
The Regional Context
Pearl River Delta ...

Dealing with storms and floods has been an on-going challenge

Area
1,000 km²

Population
7.2 million
Flooding in 1926
Mountainous landscape makes Hong Kong also vulnerable to landslide
Major landslides in the 1970s caused major loss of lives and damage ...
THEN and NOW
[Video from 1992]
Lesson 1970s to 2000

Sustain investments in preventing floods and landslides, and in improve quality of buildings to withstand storms.

Create systems for on-going monitoring and risk management of extreme weather.

There will be multiple innovations.
Landslides: Create slope registry to monitor and manage risk

Slopes in GEO’s slope registry
Slope Management: moving from shotcrete to bio-methods
Landslides: Fatalities dropped

Hong Kong landslide fatalities

- Pre-Geo: Landslide risk increasing
- Post-Geo: Reduction of landslide risk increasing by effective slope safety system
INNOVATION:
More robust engineering to build on hillsides