

HONG KONG

Extreme Climate Risks for an Extreme High-density City

K S Wong

Secretary for the Environment





Mongolia

North Korea

Japan

China

South Korea

Nepal

India

Bangladesh

Myanmar

Laos

Hong Kong

Taiwan

Thailand

Cambodia

Vietnam

Philippines

Sri Lanka

Malaysia

Singapore

Indonesia

Papua New Guinea

Australia

FACTS ABOUT HONG KONG



Tropical climate



Climate change risks

Tropic of Cancer

The Equator



**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



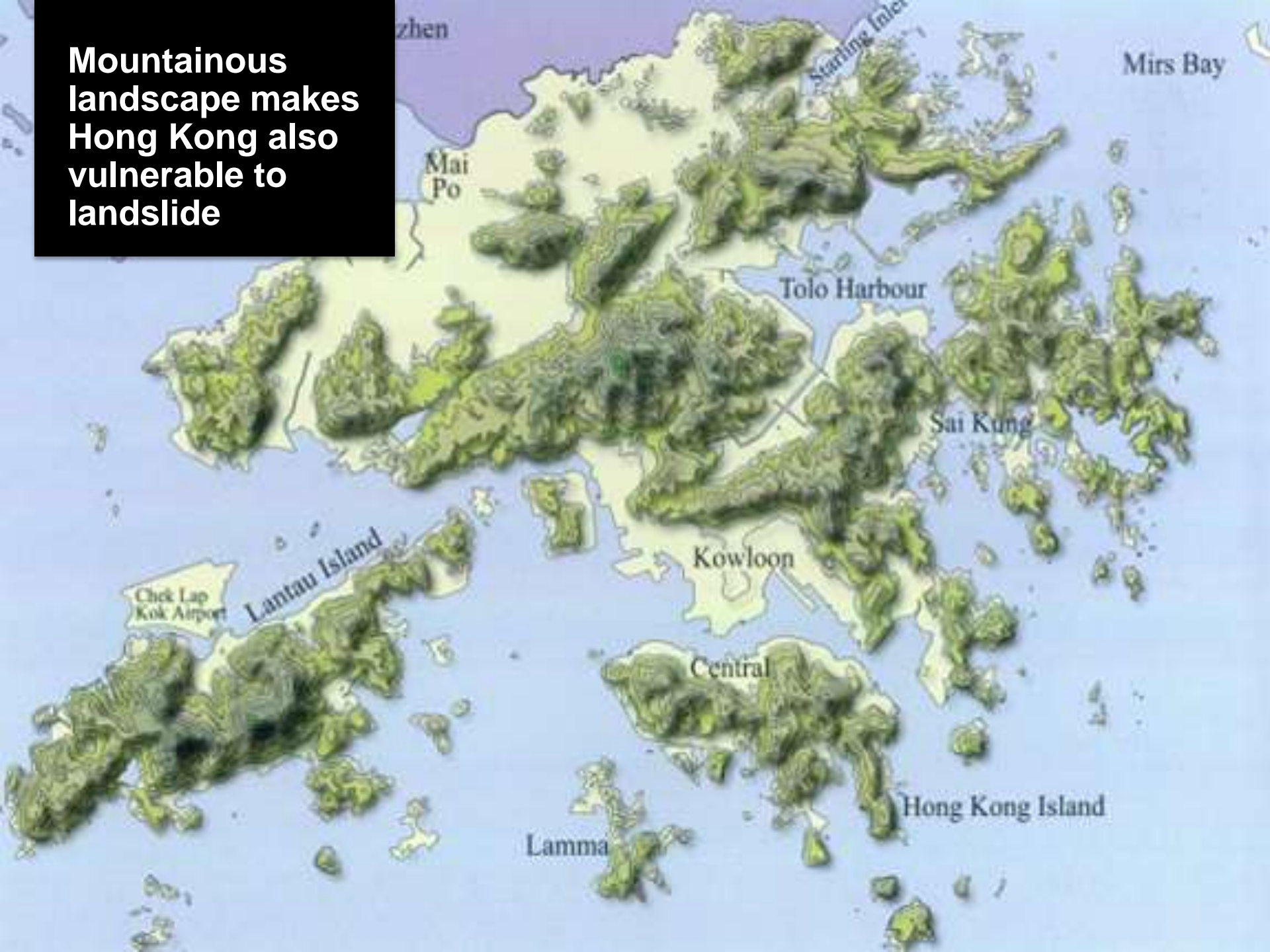


Flooding in 1926



DES VOEUX ROAD . CENTRAL.

**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



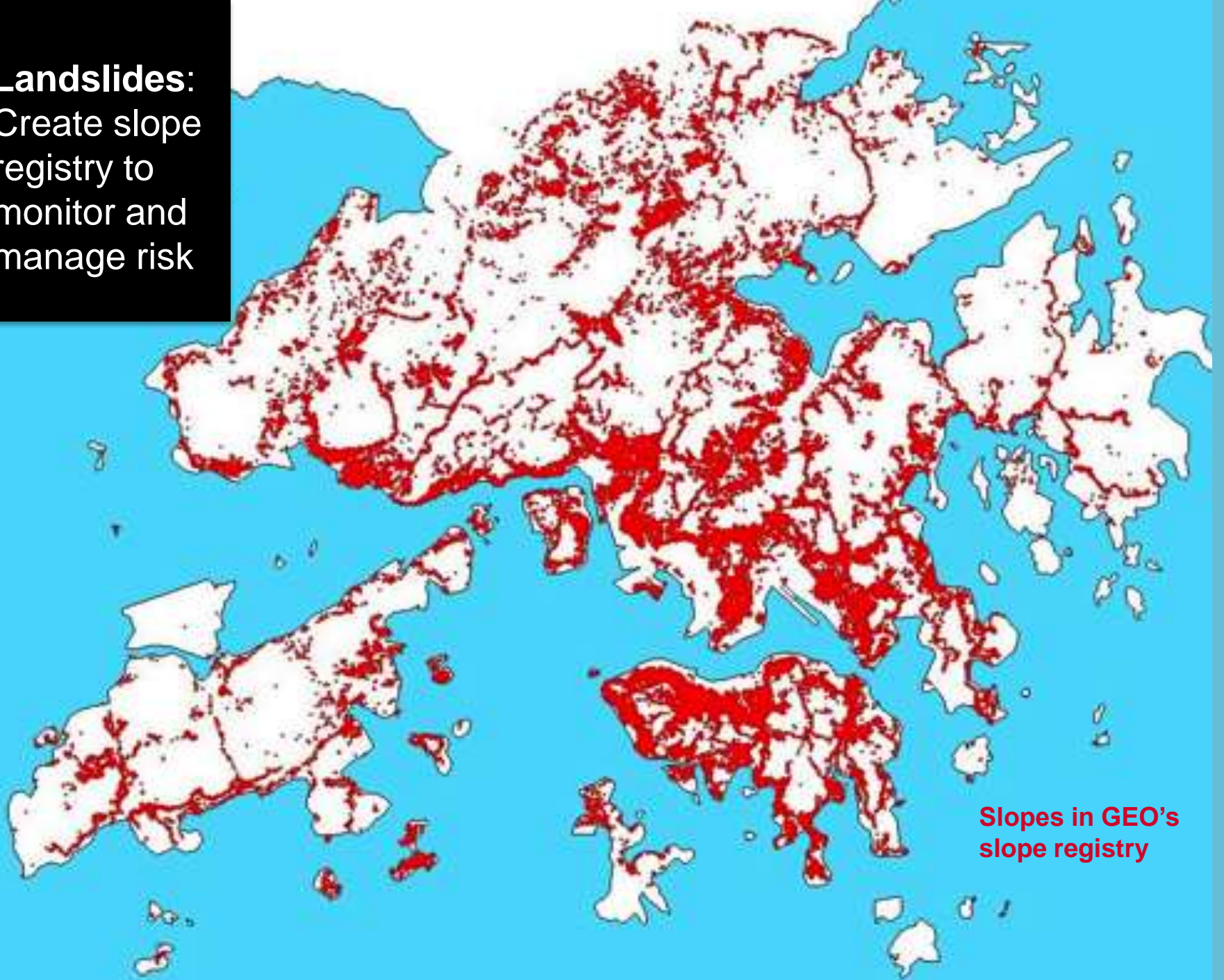
Create systems for on-going monitoring and risk management of extreme weather



There will be multiple innovations



Landslides:
Create slope
registry to
monitor and
manage risk



**Slopes in GEO's
slope registry**

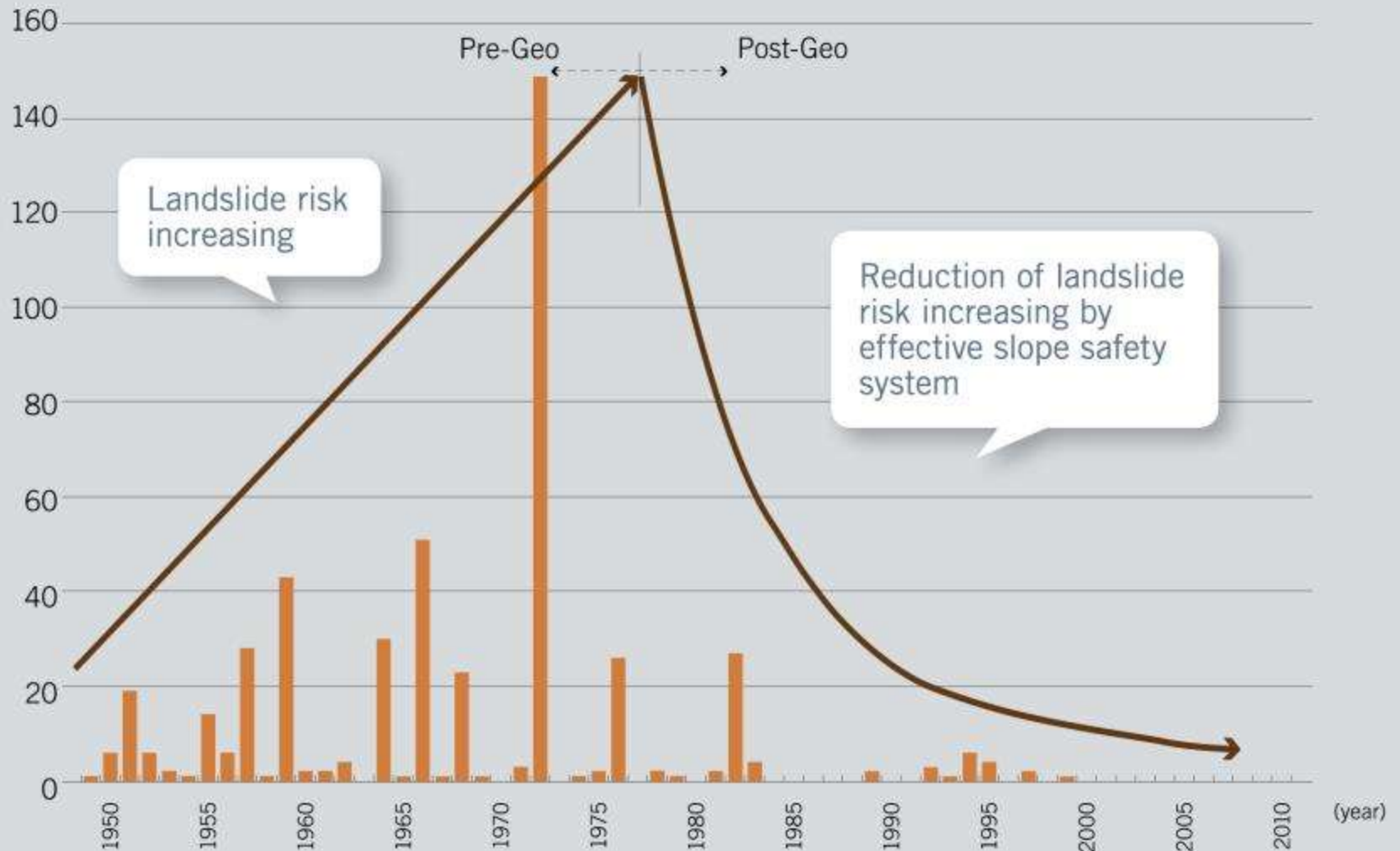
Slope Management:

moving from shotcrete to bio-methods



Landslides: Fatalities dropped

Hong Kong landslide fatalities





INNOVATION:
More robust engineering
to build on hillsides