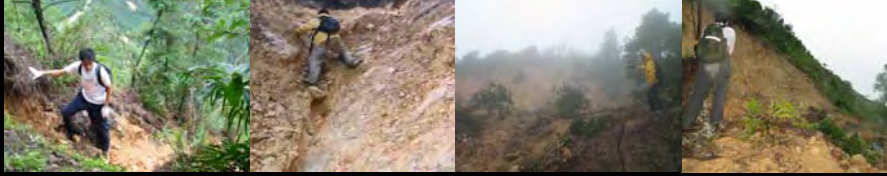


A Practical Guide to



Natural Terrain Hazard Studies - A Practitioners Perspective

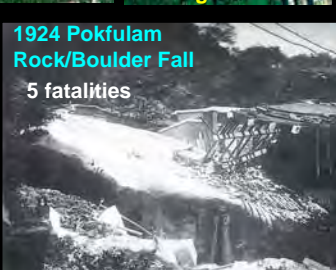
Introduction

Sam K.C. Ng



Natural Hillside in Hong Kong

Plan area ~690 km² (total land area 1100 km²)

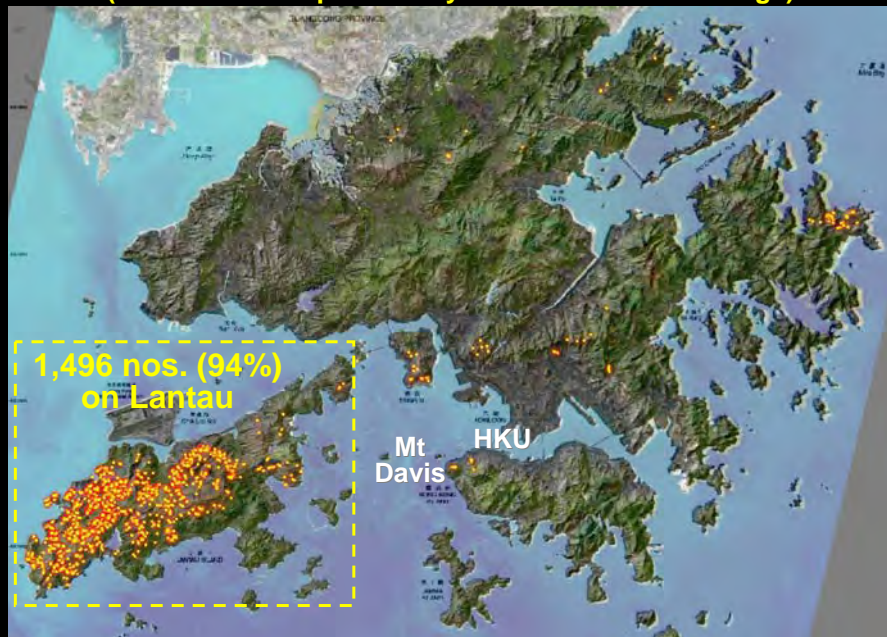


Post-2010 Landslip Prevention and Mitigation Programme (LPMitP) – approved in Dec 2007

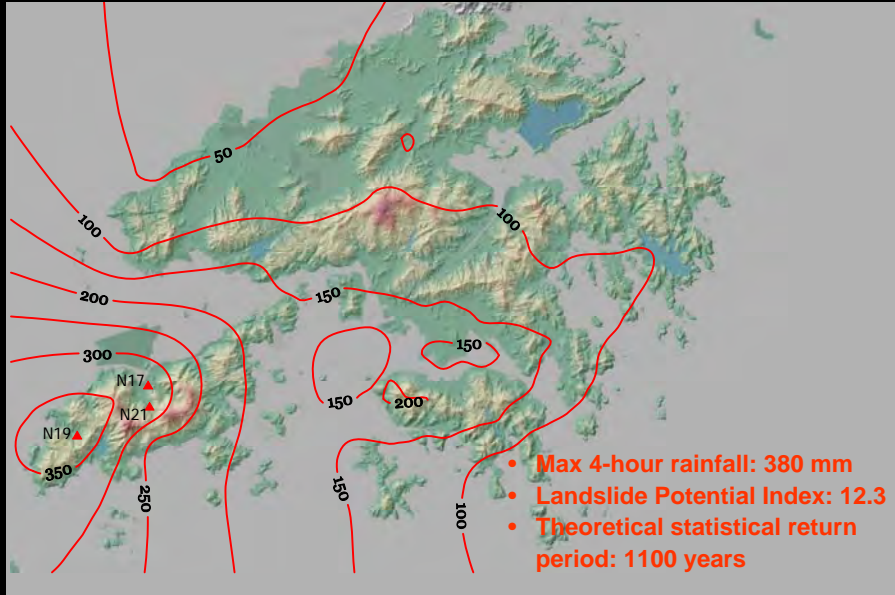
with respect to natural terrain landslide hazards

- Expanded effort to systematically combat the risk pursuant to the ‘react-to-known-hazard’ approach
- Risk mitigation works to be implemented for 30 natural hillside catchments each year
- Annual expenditure about HK \$300 million (~US \$40 million)

**June 2008 Rainstorms - 1,585 natural terrain landslides
(based on helicopter survey and SPOT satellite image)**



4-hour Rainfall Isohyets (04:30 – 08:30 on 7 June 2008)



Serious Flooding along North Lantau Highway and Yu Tung Road (7 June 2008)



Enhanced Natural Terrain Landslide Inventory vs Landslides occurred during June 2008 Rainstorms

	ENTLI (~16,000)	June 08 Landslides (~1,600)
Runout \geq200 m	162	105
Runout \geq200 - 500 m	149	87
Runout $>$500 - 1000 m	12	14
Runout $>$1000 m	1	4

