

GE Course

Infrastructure &
People

十大工程思



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Topics to be covered:

- ❖ Short piling and Professional Ethics 短樁與貪污
- ❖ Wall-like Building: Impact on Living Environment 屏風樓 冇“風流”
- ❖ Old Buildings: Structural Safety and Responsibility 舊樓安全你有責
- ❖ Traffic congestion: Unbalanced traffic flows in cross-harbour tunnels 大塞車-東張西弛
- ❖ Highway Development: Social and Environmental Impacts 路政與民生
- ❖ Reclamation in Victoria Harbour 維港 變“維巷”
- ❖ Sewerage Discharge to Victoria Harbour 暢泳在維港
- ❖ Solid Waste Collection & Treatment 垃圾...何去何從?
- ❖ Flooding Problems and Solutions 水能載舟亦能覆舟

Short piling and Professional Ethics

(短樁與貪污)

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36支樁柱只有四支合格

Old Bu



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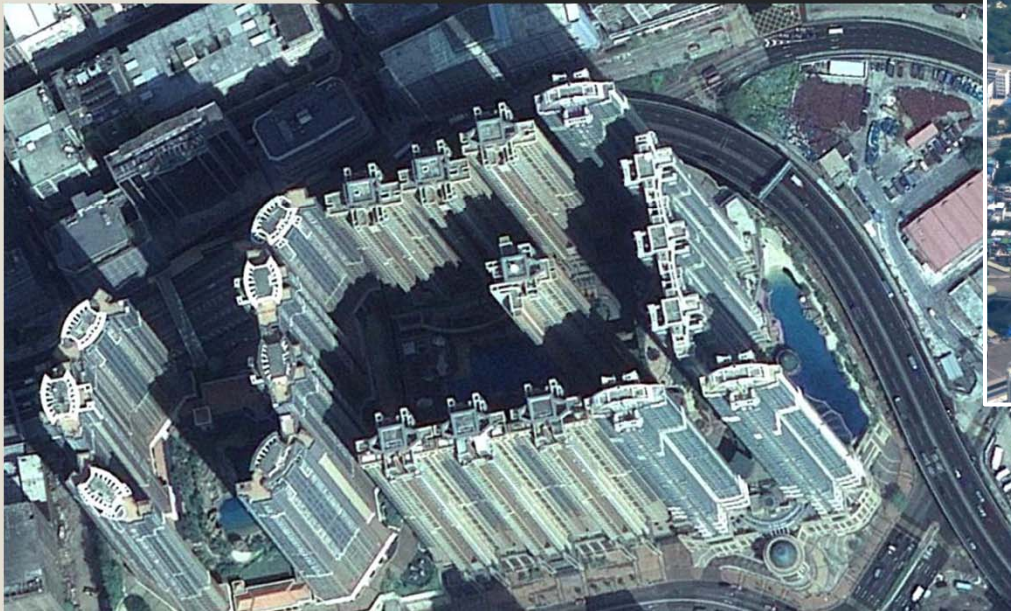
Building Collapse Accident at MTW on 29 Jan 2010



Wall-like Building: Impact on Living
Environment

屏風樓有“風流”

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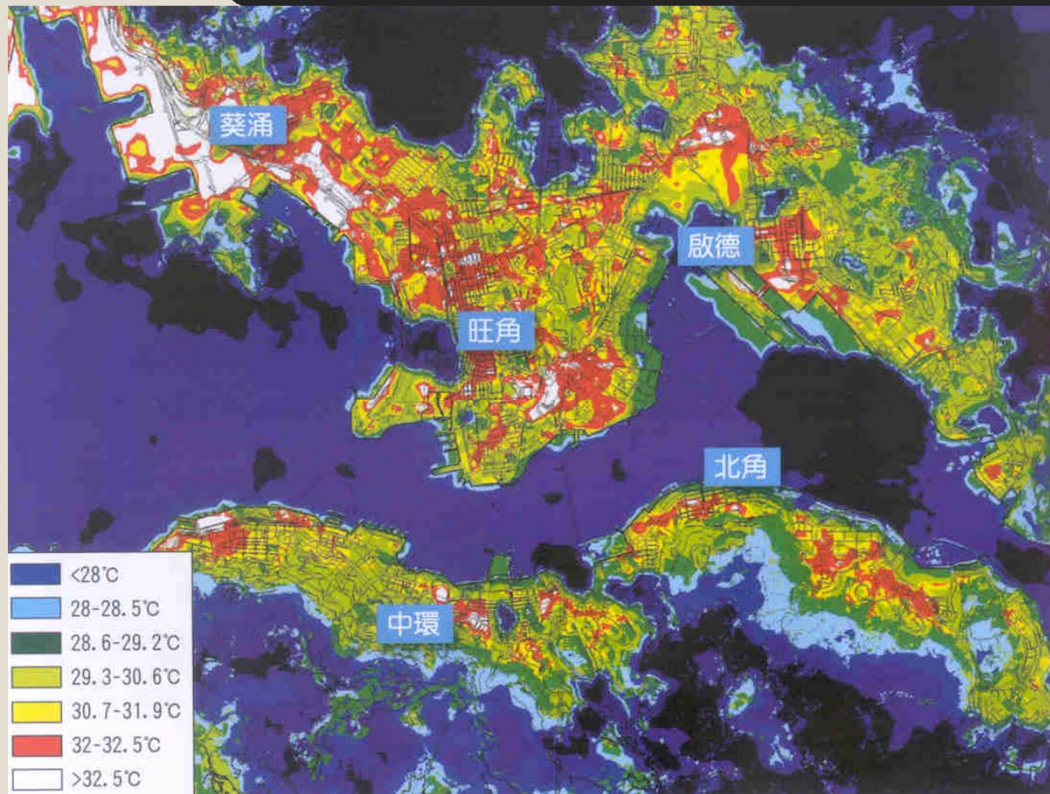


圍港?

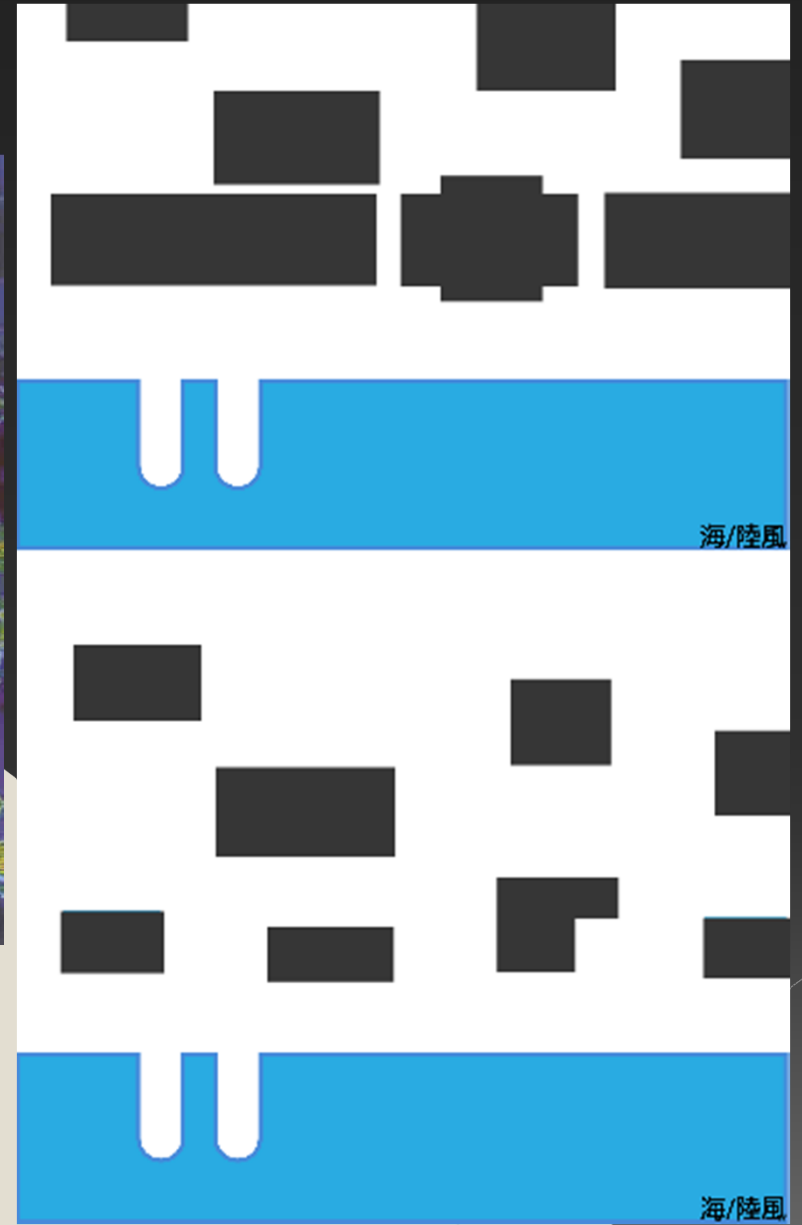
What it is like inside a concrete cage?

Air flow, air quality, health, family
and community.

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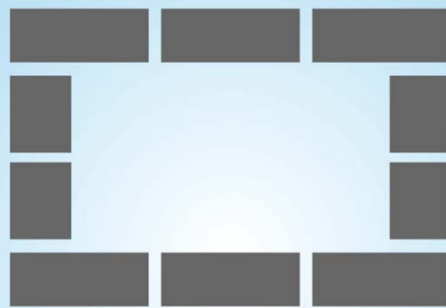
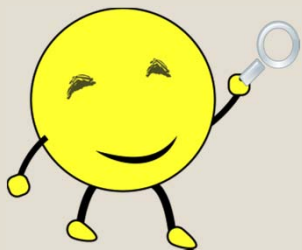


Heat island effect,
air flows, energy





**What is your opinion on the plans?
Your alternative solution?**

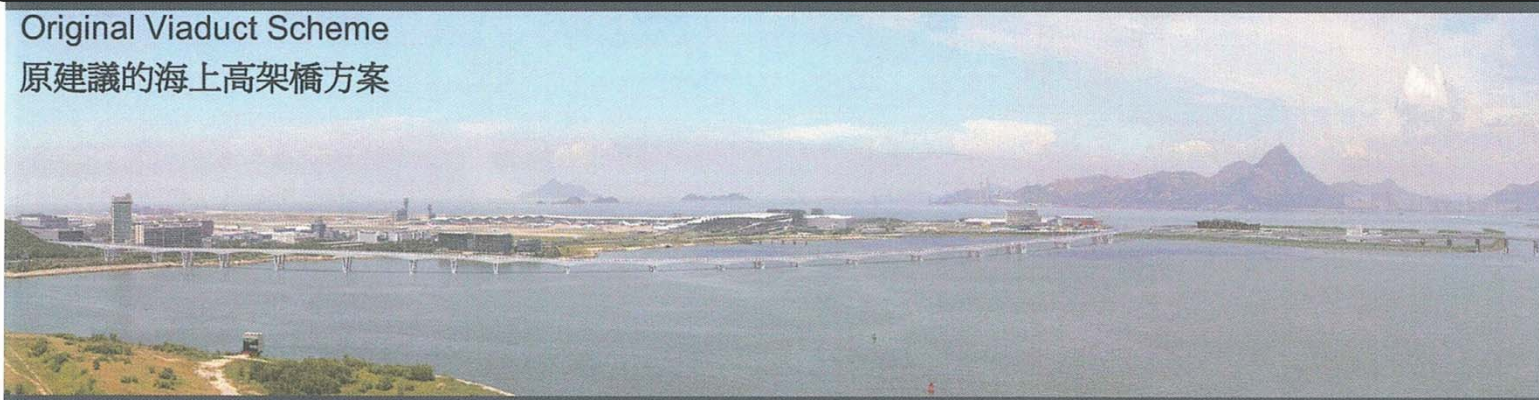


Highway Development : Social & Environmental Impacts

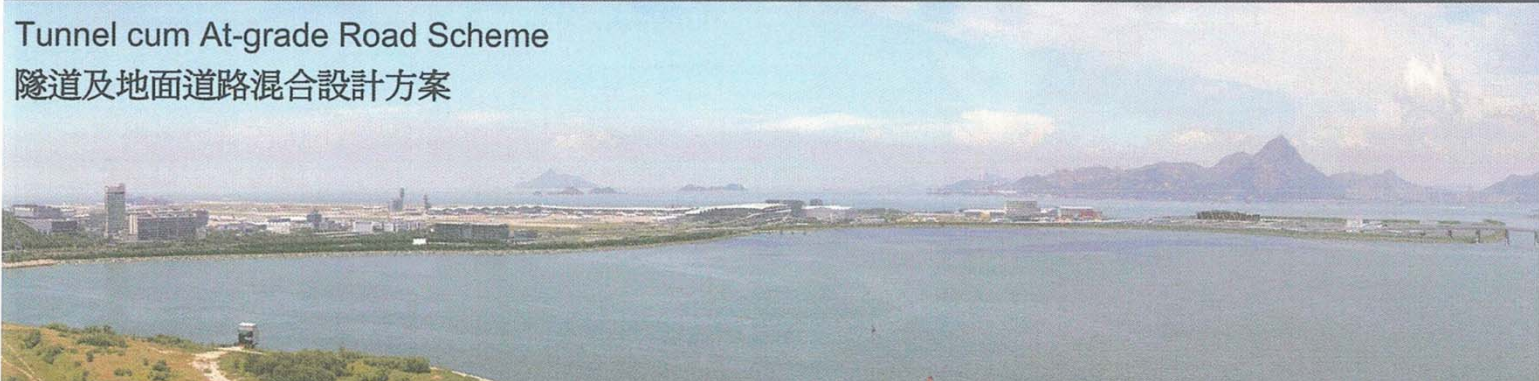
路政與民生

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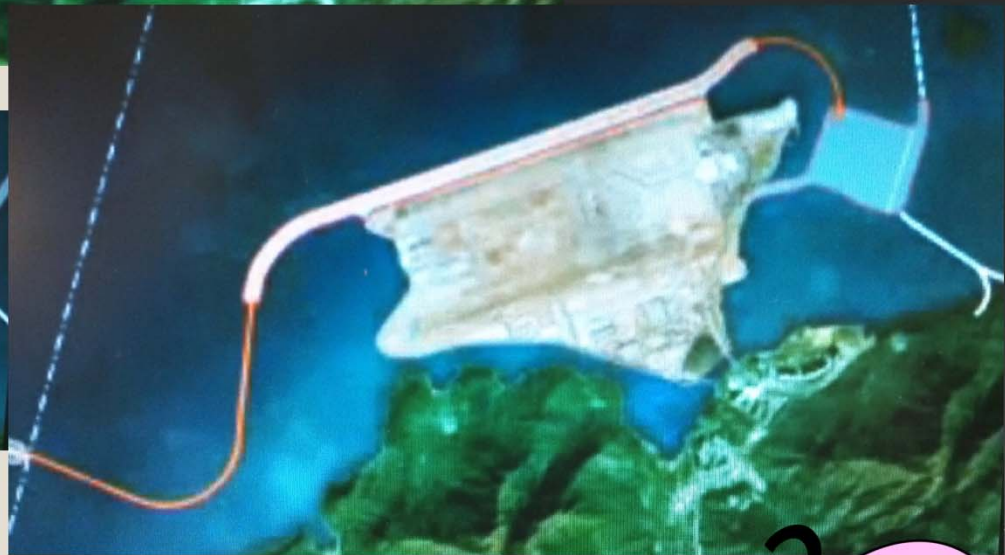
Original Viaduct Scheme
原建議的海上高架橋方案



Tunnel cum At-grade Road Scheme
隧道及地面道路混合設計方案



Hong Kong – Zhuhai – Macao bridge:
Which plan you think is the best?

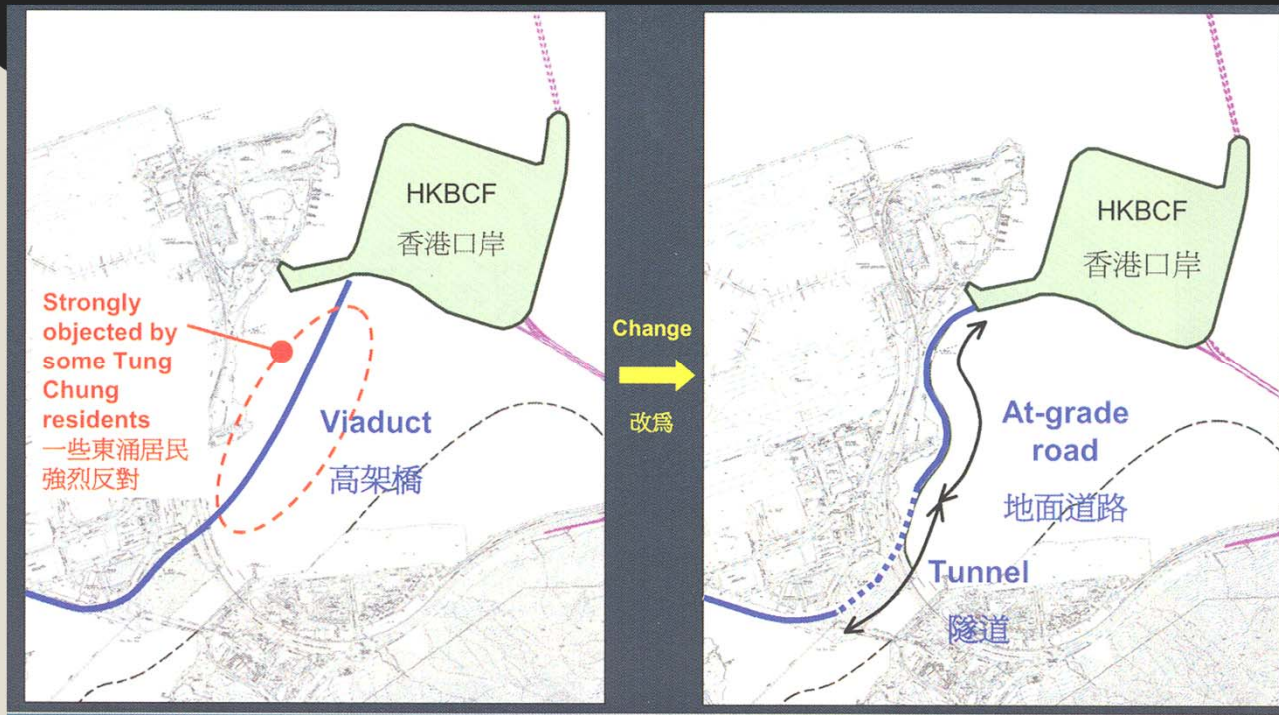


Location and route plans:

Do you have a suggestion?



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Conflict?

What is your solution?



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Barnacle - *Tetraclita squamosa*



Crab-*Gaetice depressus* 平背蟻



Environmental assessment:
Ecological survey and protection

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Traffic congestion: Unbalanced
traffic flows in
cross-harbor tunnels

大塞車
- 東張西弛

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西隧
Western
Cross
Harbour
Tunnel



東隧
Eastern
Cross
Harbour
Tunnel



What's wrong with
our traffic planning ?



紅隧
Hung
Hom
Cross
Harbour
Tunnel

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How clean is our
Victoria Harbour ?

暢泳在維港？

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How clean is our Victoria Harbour ?

暢泳在維港？



邱騰華：不應以辦渡海泳為維港水質指標

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2011-11-16 HKT 14:57



BBC NEWS

ASIA-PACIFIC

16 October 2011 Last updated at 09:37 GMT

Hong Kong revives harbour swim race after pollution ban

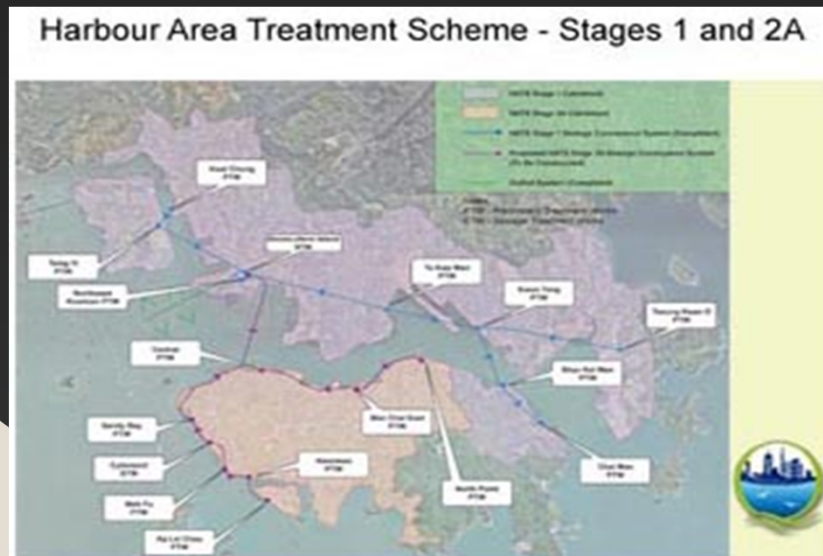
Hong Kong has revived its iconic cross-harbour swim, suspended for 33 years because of pollution concerns.

Sewerage Discharge to Victoria Harbour

Stone Cutter's Island Treatment Plant



Harbour Area Treatment Scheme



Lido Beach 麗都灣

Reclamation in Victoria Harbour

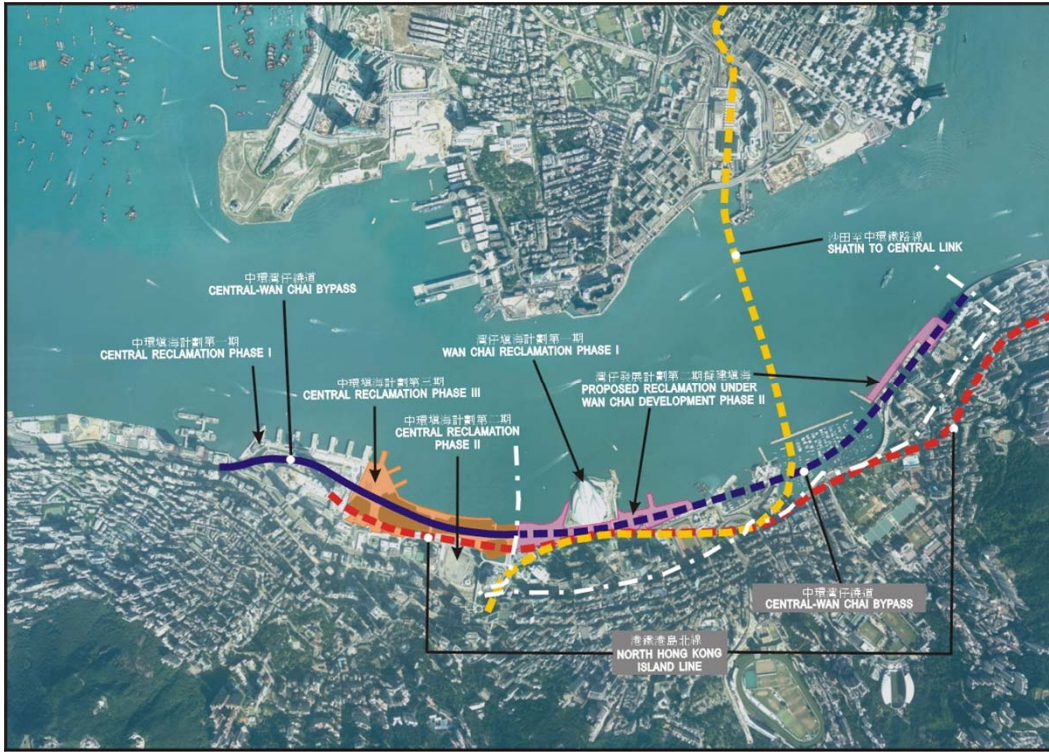
維港變維巷？

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Reclamation in Victoria Harbour

Is it really necessary ?

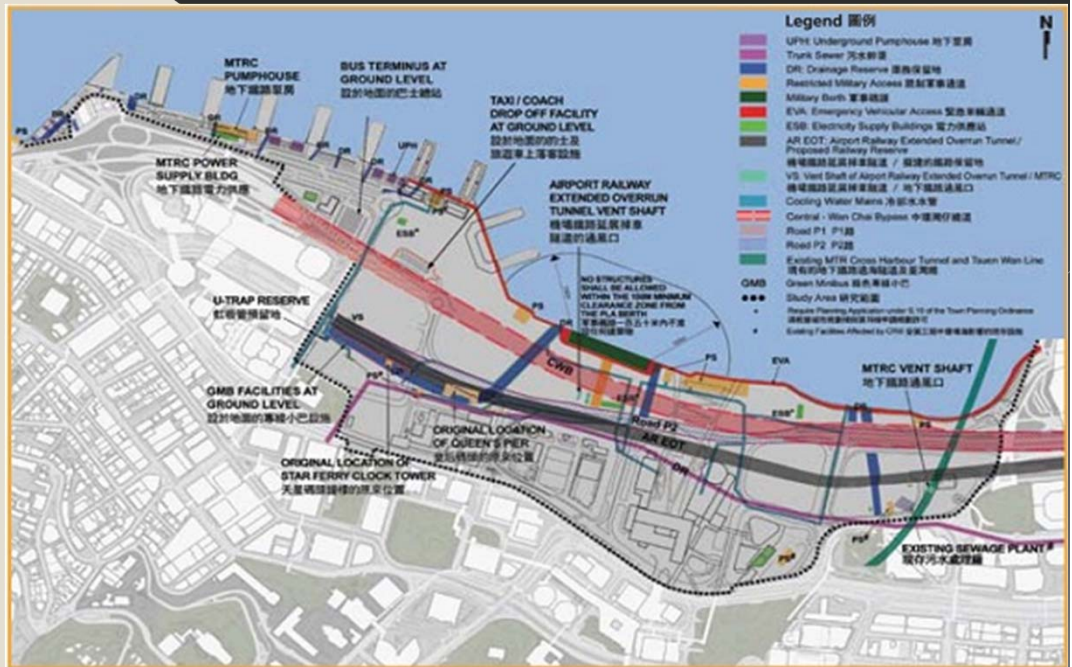




SKETCH No. HK121486

維港變維巷

維港變維巷？



Solid Waste Collection & Treatment

垃圾...何去何從？

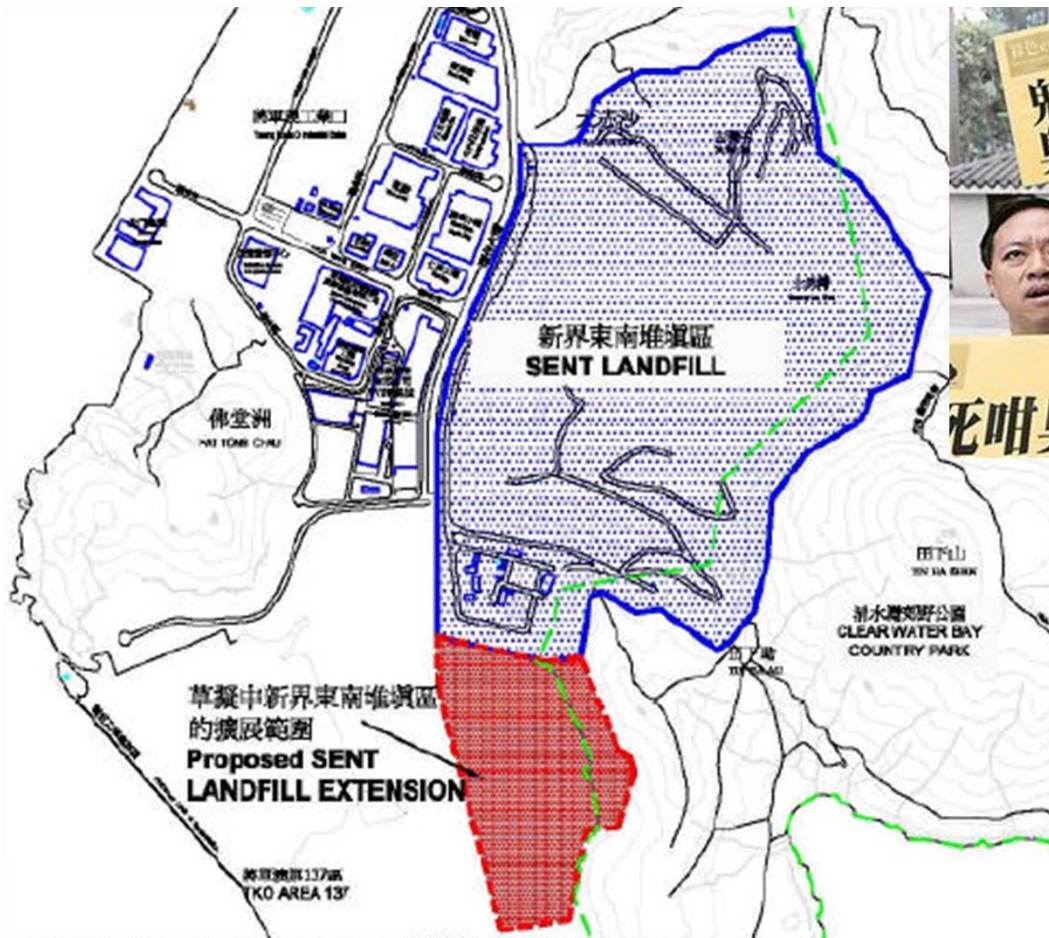
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Solid Waste



垃圾...

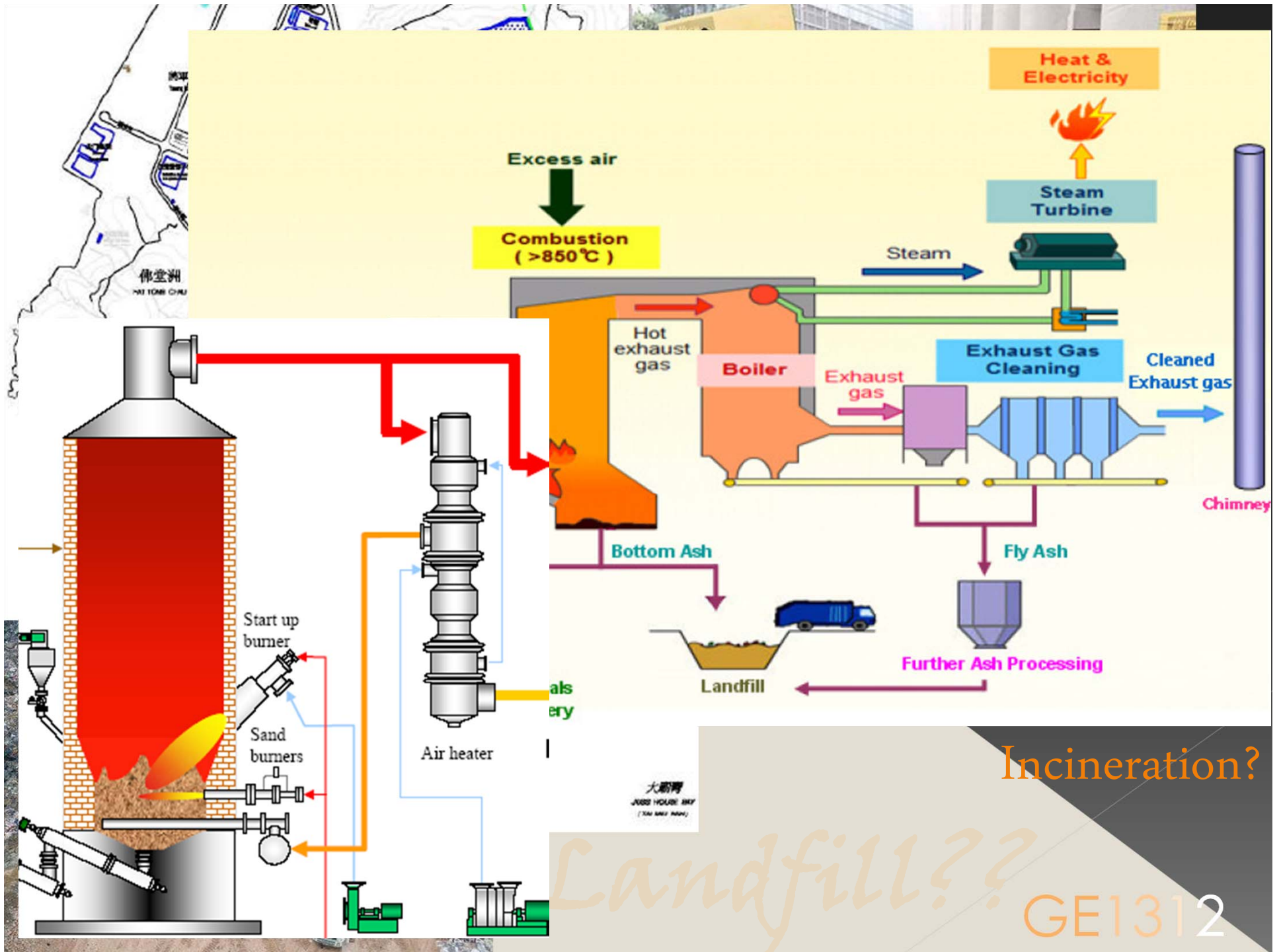




何去何從？

Landfill???





Incineration?

Landfill??

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Flooding

Problems and

Solutions

水能載舟亦能覆舟

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Problems



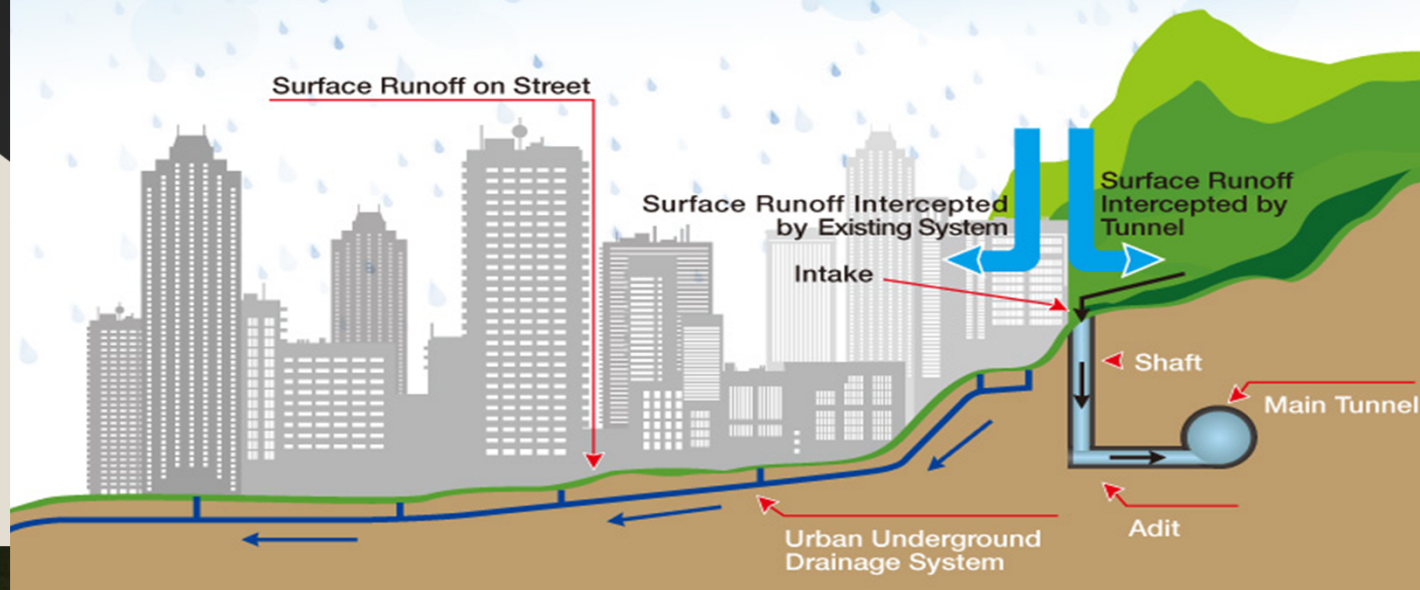
Solutions



Flooding



Problems → Solution



Flood Storage Tank

Stormwater Drainage Tunnel

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