

INTERNATIONAL URBAN FORESTRY CONFERENCE LANDSCAPE-BASED SOLUTION FOR CLIMATE RESILIENCE

MODIFYING ENVIRONMENT IS NOT UNNATURAL Ian McHarg (1994)



Images sourced from internet

INTERNATIONAL URBAN FORESTRY CONFERENCE LANDSCAPE-BASED SOLUTION FOR CLIMATE RESILIENCE

Erwin Anton Gutkind identifies four stages in man's changing attitude to his environment over the known period of civilization:

Fear of the unpredictable forces

Aggression and conquest

1

2

3

4

Rational adaptation of the environment

An age of responsibility and unification

Stage One

Fear of the unpredictable forces of nature



Skara Brae House



Indian Tribes

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LANDSCAPE-BASED SOLUTION FOR CLIMATE RESILIENCE

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Stage Two

growing self-confidence leading to a more rational adaptation of the environment for different needs.



Medieval town with pattern closely related to physiographic features.



Rice fields of China

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Stage Three

the stage of aggression and conquest needs.



Automobile-oriented urban region



Felled forest

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Fear of the unpredictable forces

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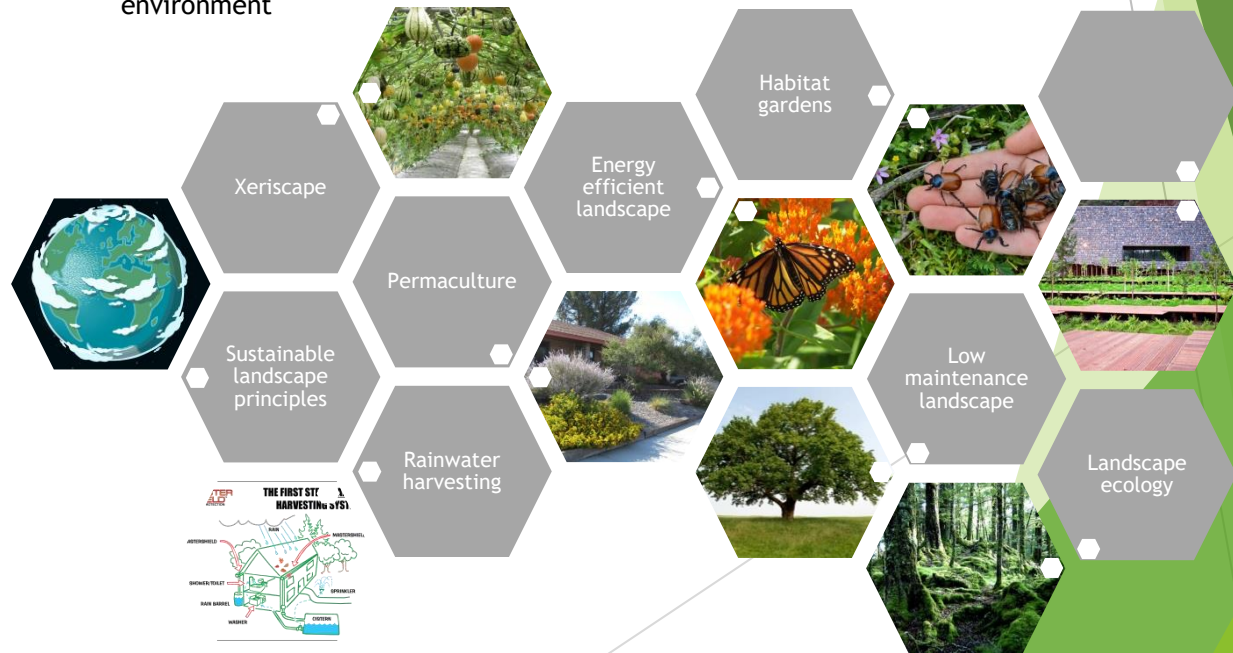


Rational adaptation of the environment

An age of responsibility and unification

Stage Four

Towards the future, an age of responsibility and unification.





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“... it is anything but straightforward to define their profession.”

“The profession of landscape architecture is much more diverse than the public may imagine”

But have a number of important things in common:

- *A deep appreciation for the environment*
- *A commitment to the highest standards of design and planning*
- *Pride in knowing that their work directly enhances the quality of people's lives*

- Kelleann Foster 2010



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STEPPING INTO A NEW ERA

The world is moving into a phase when landscape design may well be recognized as the most comprehensive of the arts. The reasons for this are threefold:

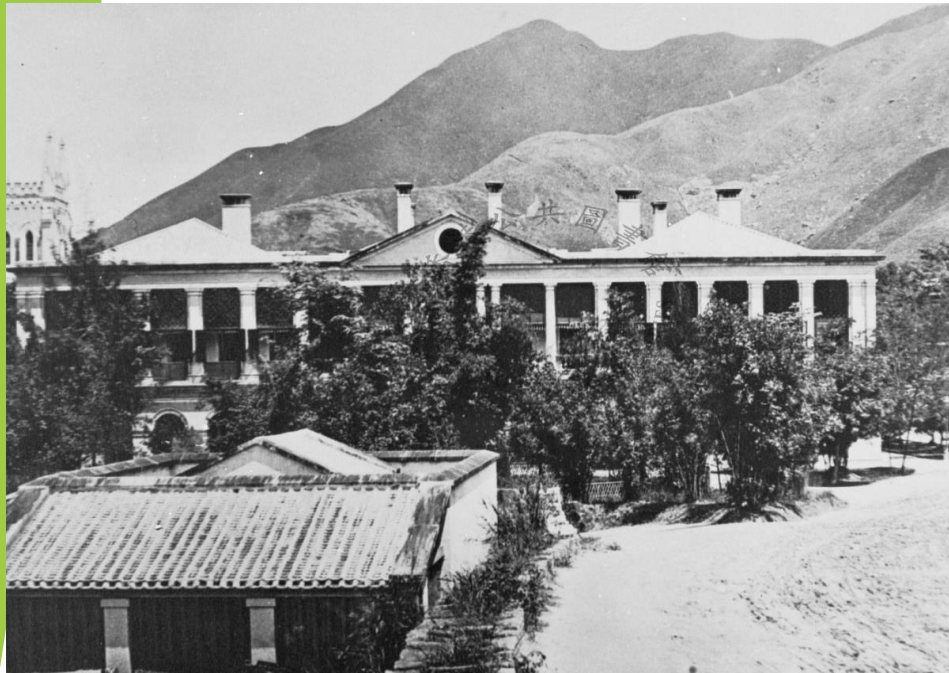
- a) The existing delicately balanced order of nature within the biosphere, or protective envelope of the planet, is being disturbed by the activities of man, and it seems that only his own exertions can restore a balance ensure survival;*
- b) These exertions call first for ecosystems that are no more than a return to an efficient animal state of sustained existence;*
- c) Man's destiny being to rise above the animal state, he creates around him an environment that is a projection into nature of his abstract ideas*

The Landscape of Man: Geoffrey and Susan Jellicoe 1995



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Remark by the British Foreign Secretary Lord Palmerston in 1841 that Hong Kong was a “barren rock with hardly a house upon it”.

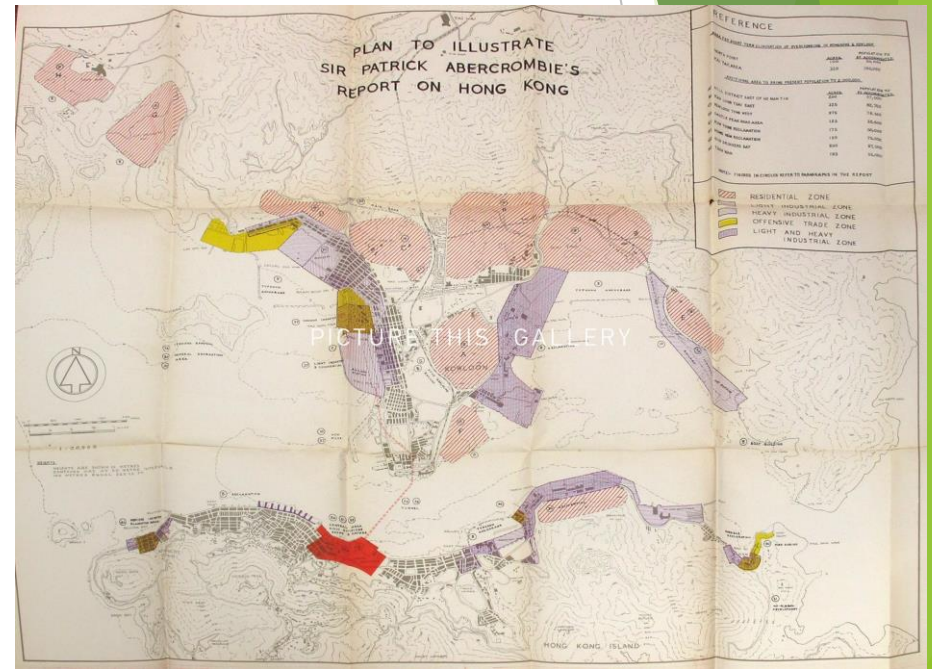


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1943 map by Sir Patrick Abercrombie based on 'social and functional analysis'



Preliminary Planning Report, Sir Patrick Abercrombie (1948)

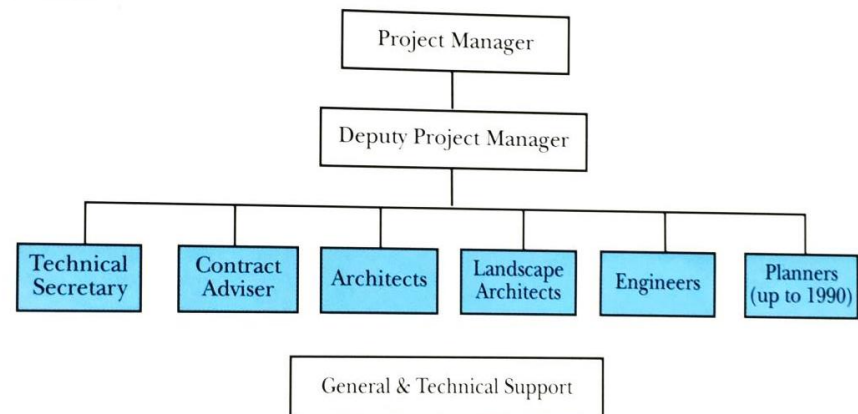
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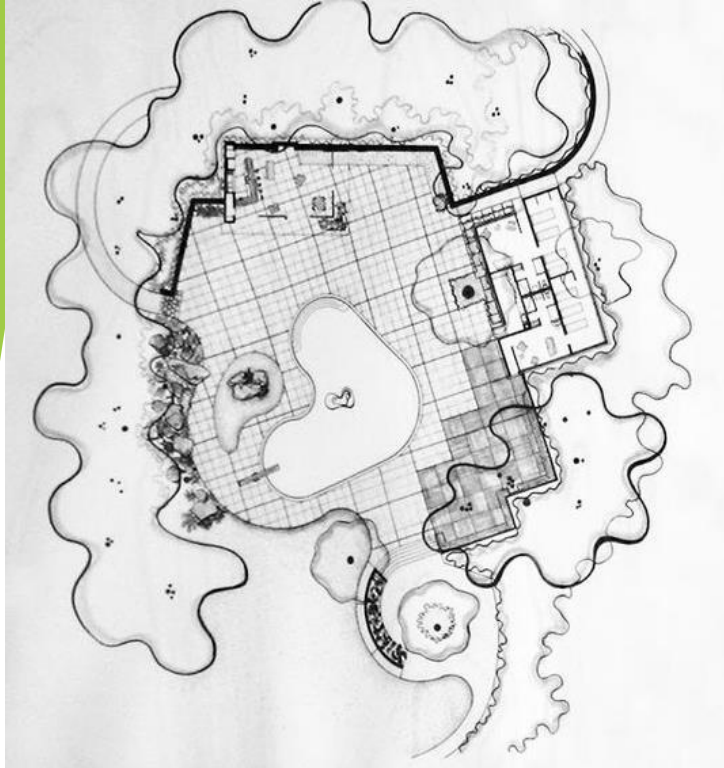
New towns planned in the 80s

Multi-disciplinary team in a typical
 New Territory Development
 Department in the 70s/ 80s





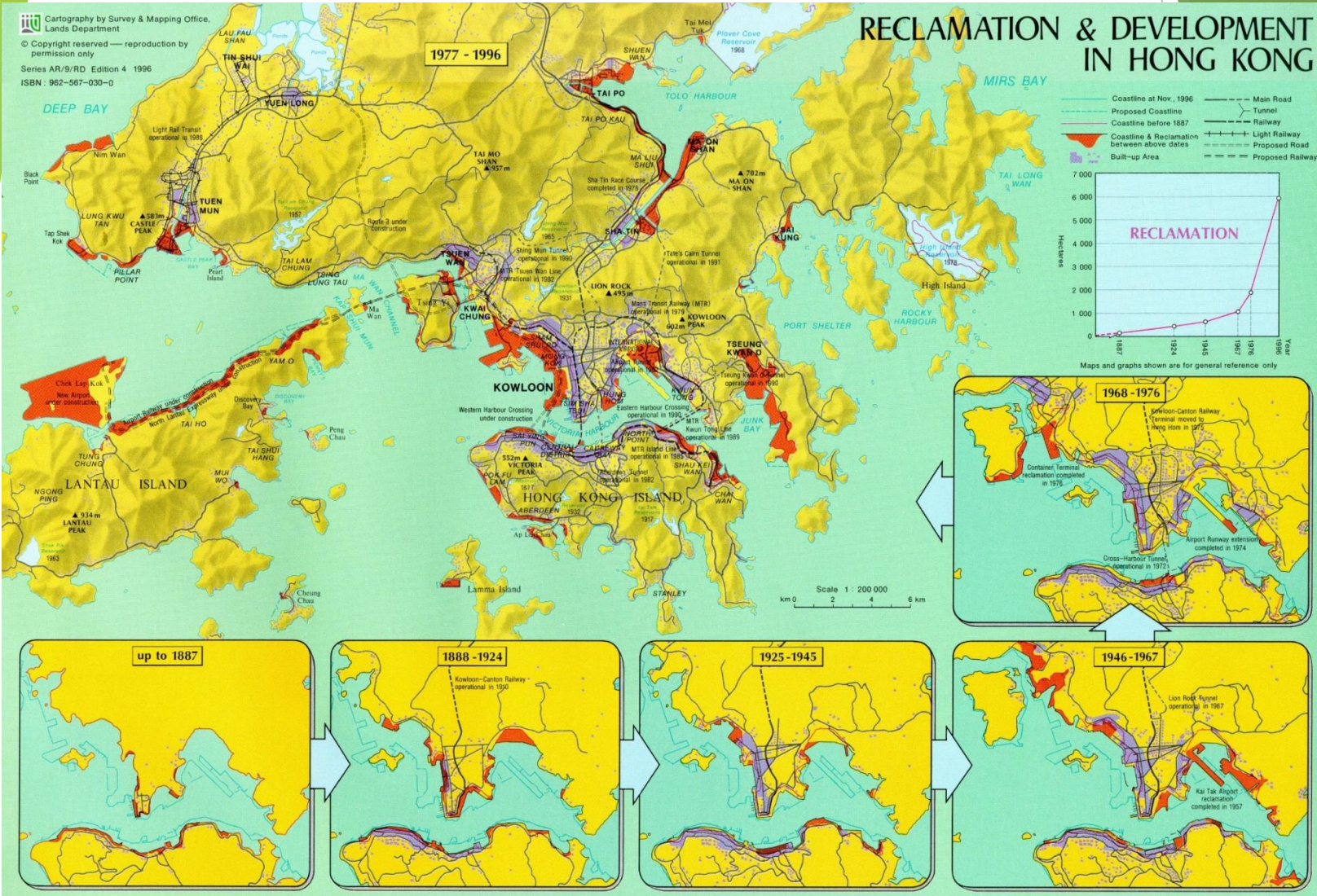
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<https://www.pinterest.com/agatabyrne/thomas-church/>

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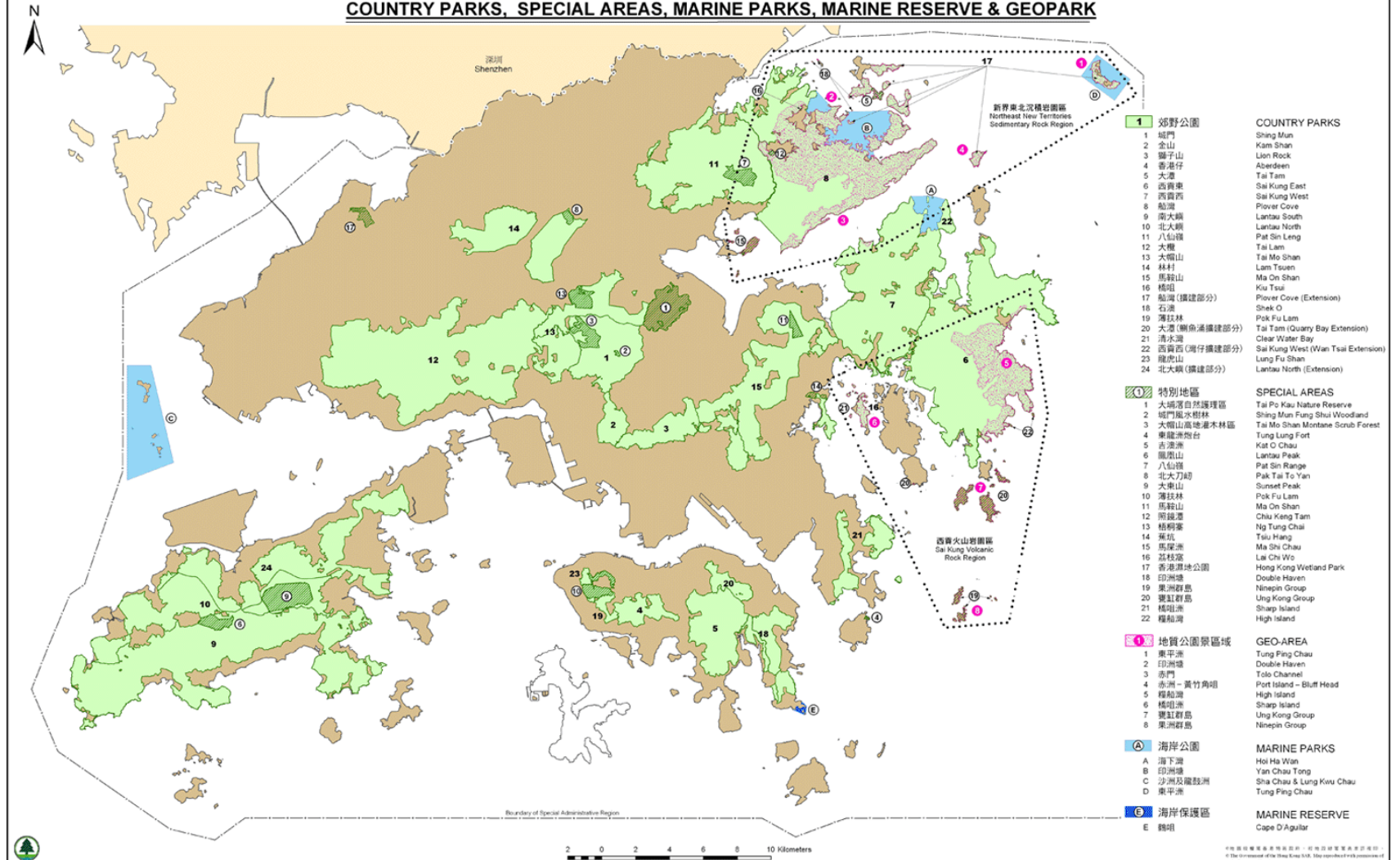
LANDSCAPE-BASED SOLUTION FOR CLIMATE RESILIENCE



Reclamation and Development in Hong Kong as at 1996 (Lands Department, 1996)

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郊野公園、特別地區、海岸公園、海岸保護區及地質公園 COUNTRY PARKS, SPECIAL AREAS, MARINE PARKS, MARINE RESERVE & GEOPARK



INTERNATIONAL URBAN FORESTRY CONFERENCE

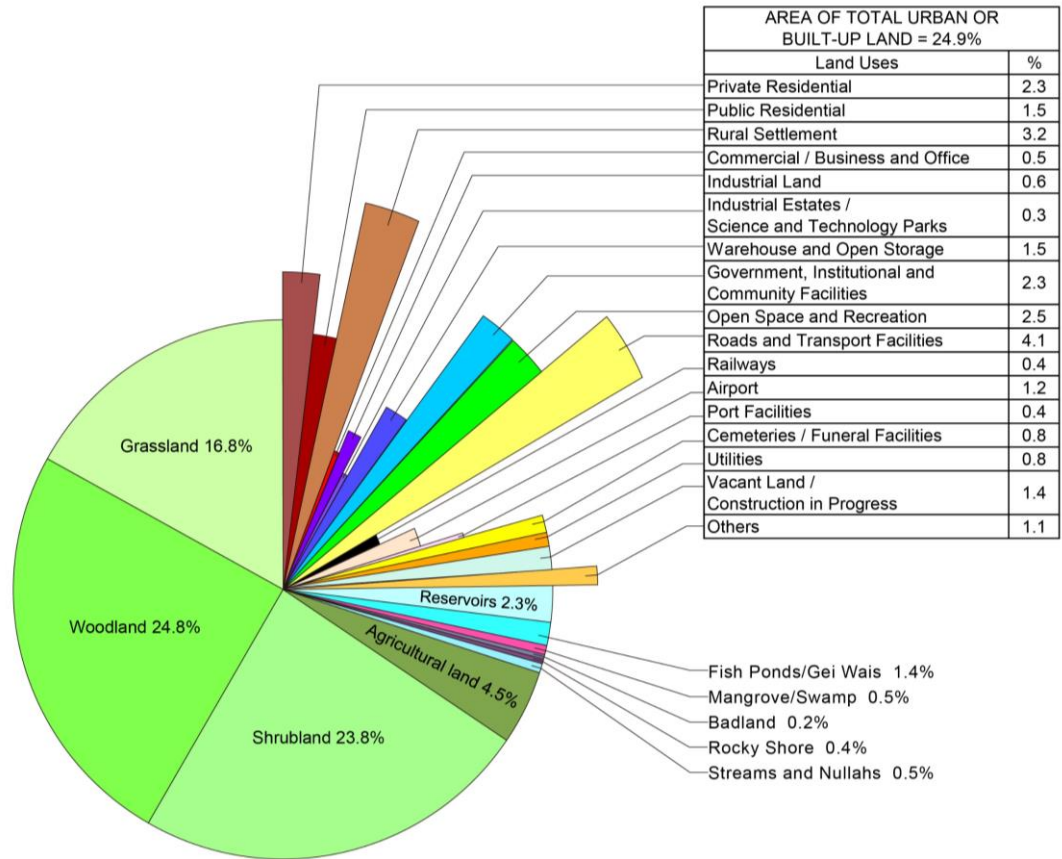
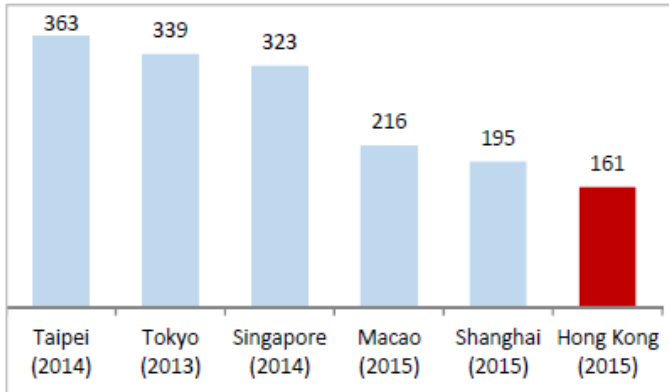
LANDSCAPE-BASED SOLUTION FOR CLIMATE RESILIENCE

Total area of territory 2755 km²; Total land area ~1110 km²

Selected cities	Population density [#]
Hong Kong	25 900
Singapore	11 400
Seoul-Incheon	8 800
Taipei	7 600
London	5 600
Beijing	5 100
Tokyo-Yokohama	4 500

Note: (#) In terms of number of persons per km² of built-up urban area.

(sq ft)



Total land area = 1,111 km² (including about 4 km² of Mangrove and Swamp below the High Water Mark). Country Parks, Special Areas and Mai Po Ramsar Site cover about 41.7% of the land area of Hong Kong.

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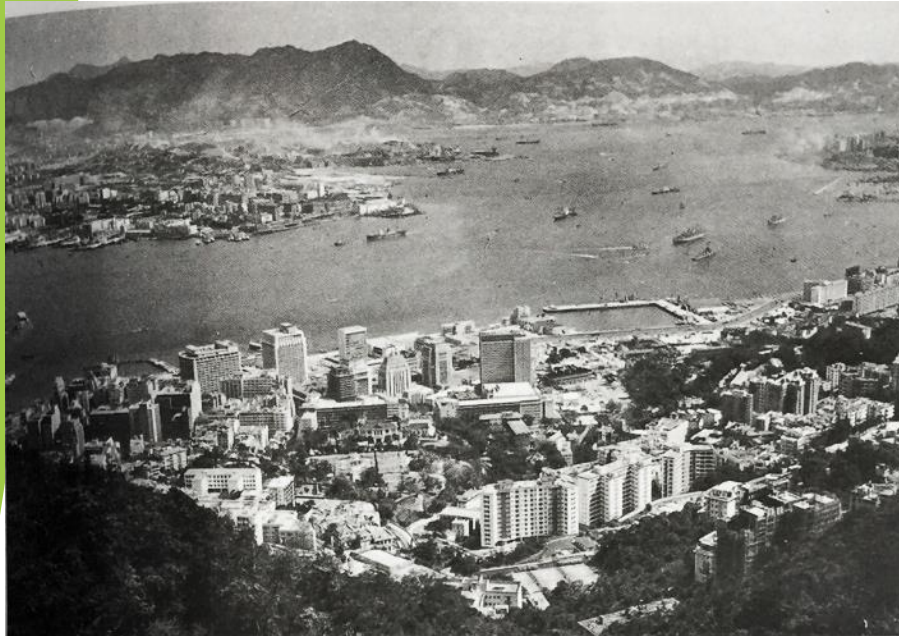


Sourced from *Cities Health and Well-Being*, LSE Cities (2011)



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No height restriction on Mid-Levels until TPB amended Mid-Levels West Outline Zoning Plan in 2008



Images sourced from internet

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4. The following green features may upon application and subject to conditions be excluded from GFA and/or SC calculations under the Buildings Ordinance:

- (a) Balconies for residential buildings;
- (b) Wider common corridors and lift lobbies for residential buildings;
- (c) Communal sky gardens for residential buildings;
- (d) Communal podium gardens for non-residential buildings;
- (e) Acoustic fins; and
- (f) Wing walls, wind catchers and funnels.

2. The following green/innovative features may upon application and subject to conditions be exempted from Gross Floor Area (GFA) and/or Site Coverage (SC) calculations under the Buildings Ordinance:

- (a) Non-structural prefabricated external walls;
- (b) Utility platforms for residential buildings;
- (c) Noise barriers;
- (d) Communal sky gardens for non-residential buildings; and
- (e) Modular Integrated Construction.



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Development Bureau's Technical Circular (Works) No. 3/2012
 Buildings Department's Practice Notes PNAP APP 152

Area of the Site	Minimum Site Coverage of Greenery		Remark
	Total Greenery Areas	At-grade Greenery Areas	
$\geq 20\,000\text{ m}^2$	30%	15%	No minimum Greenery Areas requirement at other locations
$\geq 1\,000\text{ m}^2$, but < $20\,000\text{ m}^2$	20%	10%	

Site Area	Minimum Site Coverage of Greenery	
	Primary zone	Overall
$1,000\text{ m}^2 - 20,000\text{ m}^2$	10%	20%
$\geq 20,000\text{ m}^2$	15%	30%

A Worked Example for Calculation of Site Coverage of Greenery

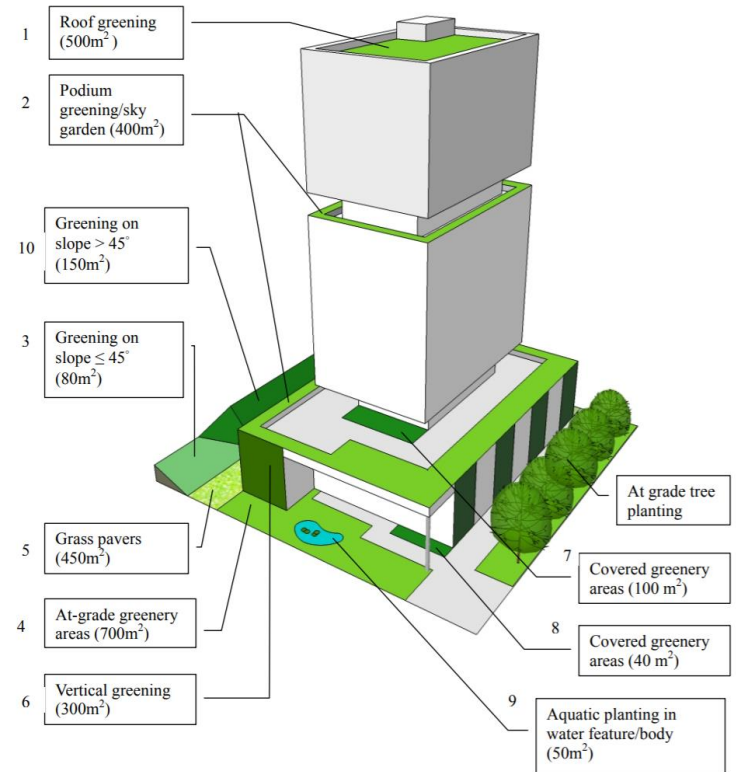


Figure 1 – Types of Greenery Areas (Diagrammatic illustration only)



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Photo credit: K11 Atelier



INTERNATIONAL URBAN FORESTRY CONFERENCE LANDSCAPE-BASED SOLUTION FOR CLIMATE RESILIENCE

City-wide Landscape Based Strategy towards Climate Adaptation

Performance Based Urban Greenery

- Apply Established Science in Practice
- Cross-Disciplinary & Cross-Border Collaboration in Capacity Building
- Establish Landscape-Based Climate Adaptation Strategy and Key Principles
- Identify Major Areas where the Strategy and Principles could be incorporated within the Legal & Administrative Framework and Assessment Tools



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Directions:

- Identify aspects of vulnerability in communities, natural system, businesses
- Explore and advocate landscape-based climate adaptation strategies
- Identify opportunities where the strategies could be integrated in existing regulations, guidelines, sustainability assessment tools
- Identify key barriers and gaps in the formulation or implementation of the strategies

Potential Outputs

- Position statement
- Value-mapping/ Vulnerability mapping
- Publication on key principles/ best practices
- Engagement/ dissemination exercises

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Classification & Definition

Green wall systems: A review of their characteristics (Manso & Castro-Gomes, 2014)

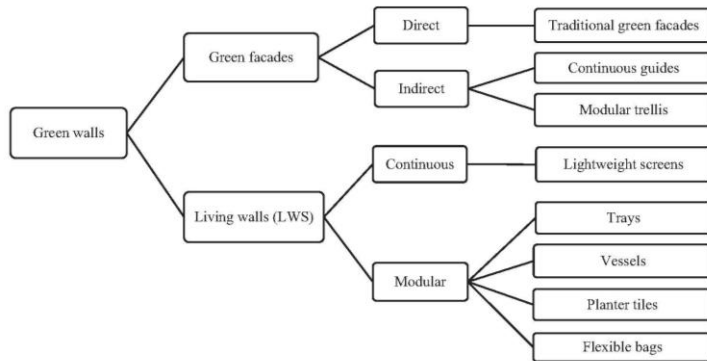


Fig. 1. Classification of green walls, according to their construction characteristics.

Mapping of their benefits

Green Facades and Living Walls - A Review Establishing the Classification of Construction Types and Mapping the Benefits (Radic, Didig Auer, Aug. 2019)

- Thermal performance
- Reduction of air pollution
- Reduction of noise
- Hydrology
- Educational
- Habitat for urban wildlife
- Visual & Social
- Economic

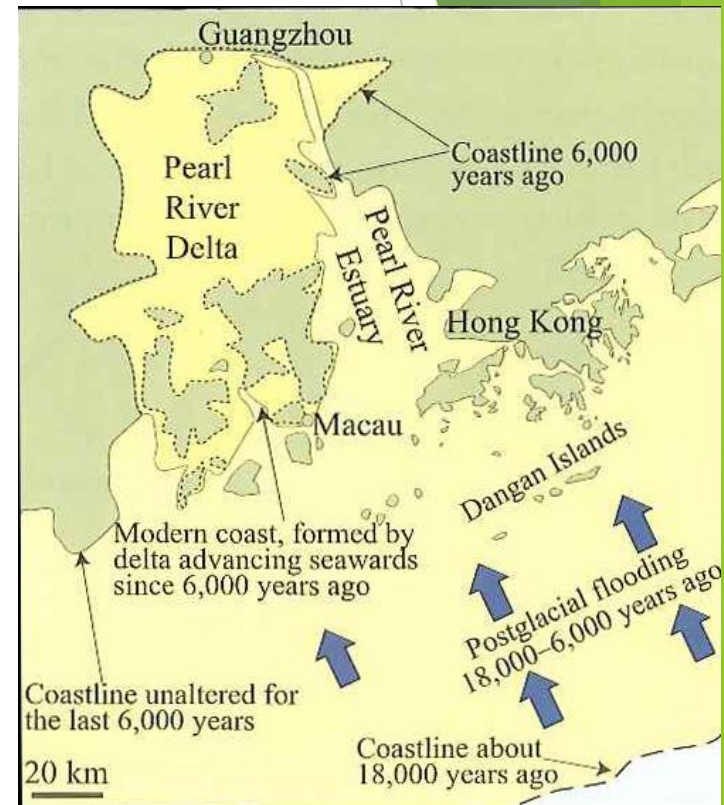
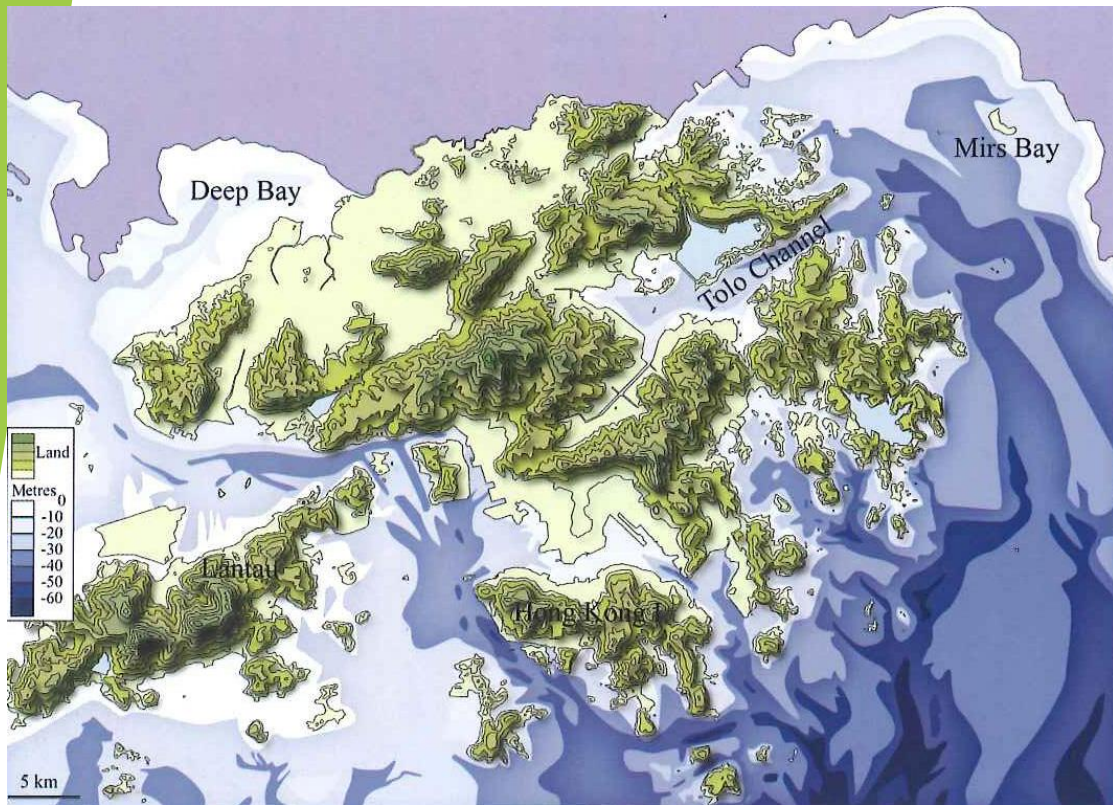
Typologies of Greenery on Dense Urban Fabric

Dense and Green Building Typologies: Research, Policy and Practice Perspectives, Thomas Schröpfer, Sacha Menz (2019)

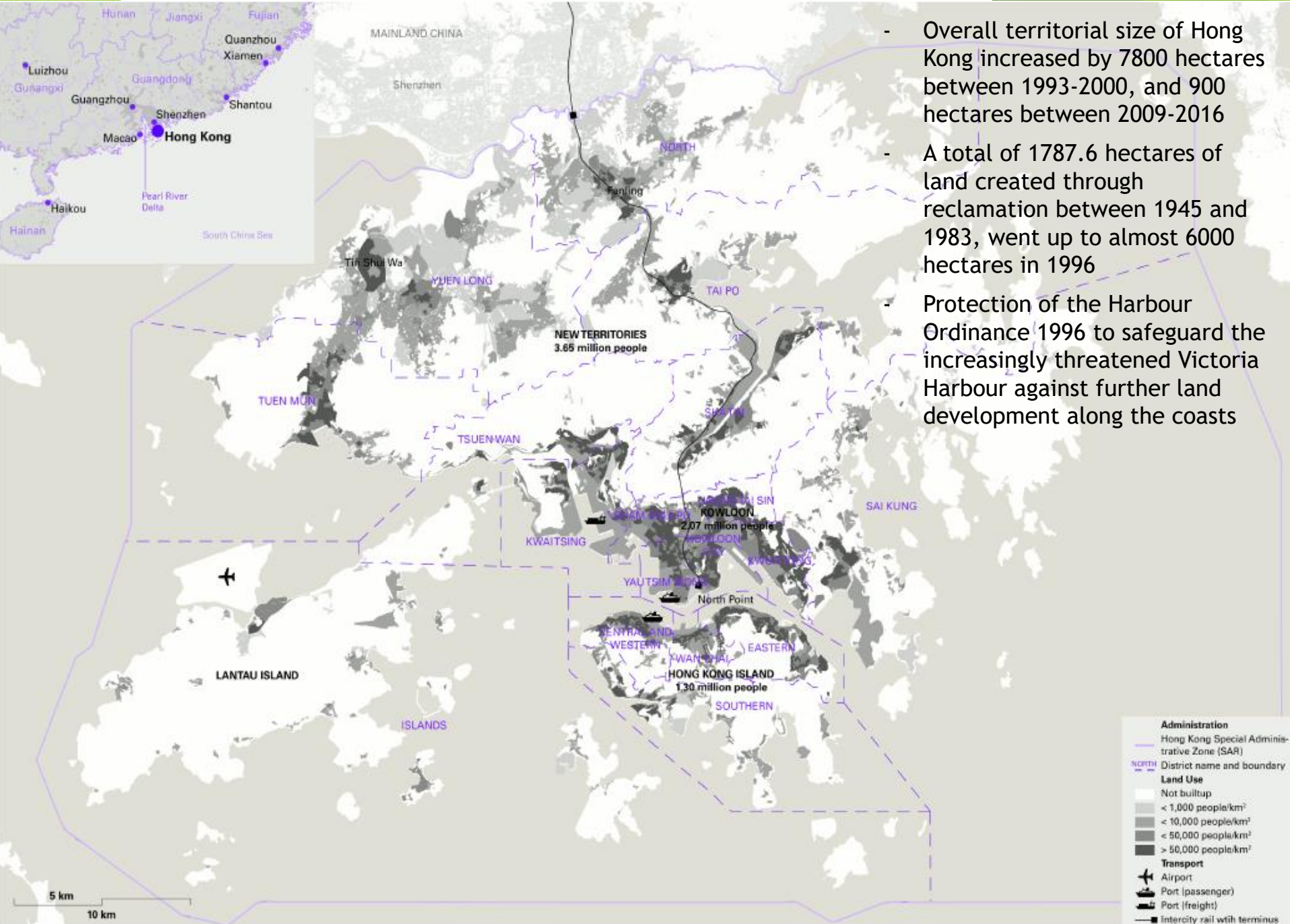


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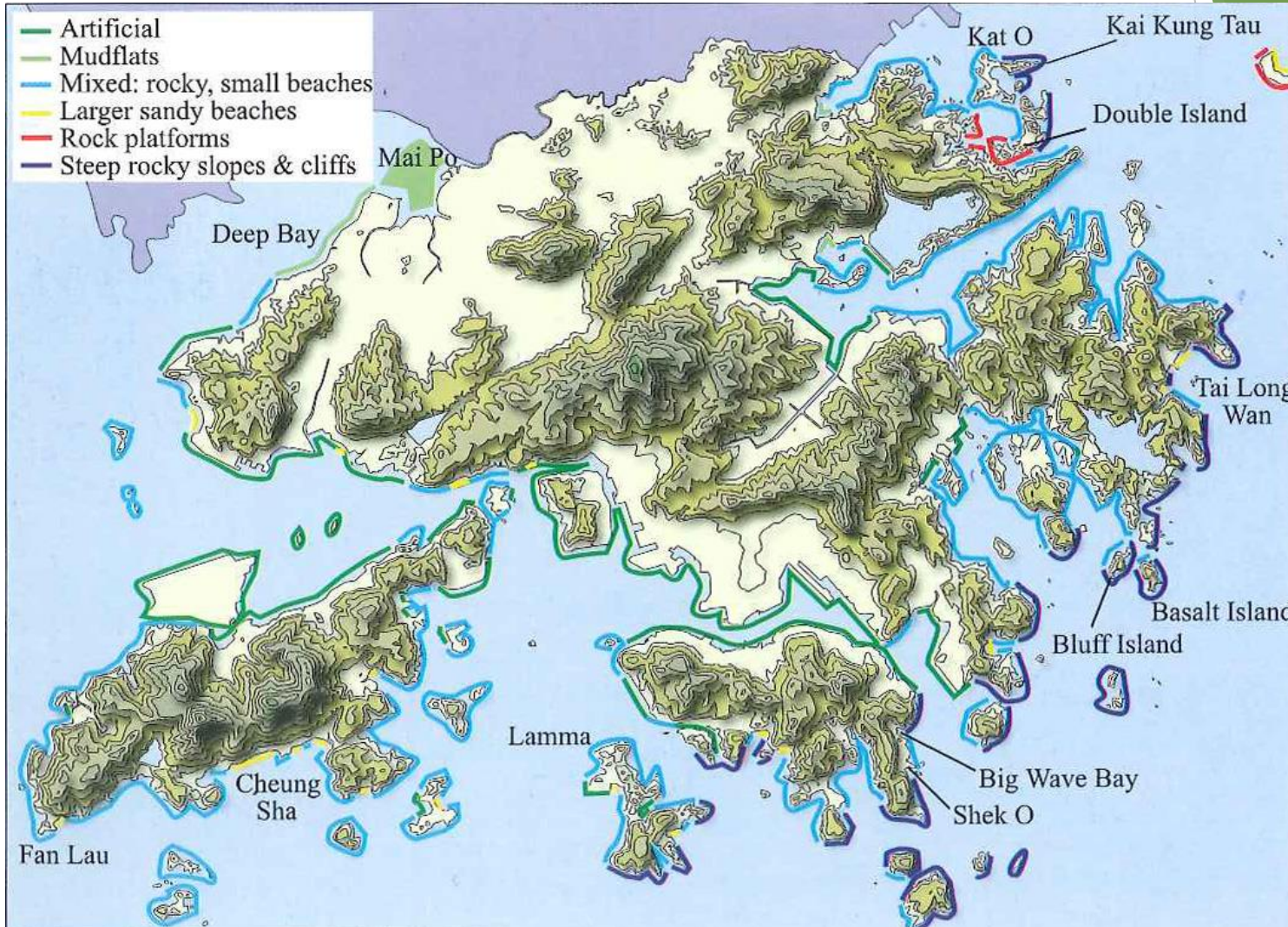
Owen & Shaw (2007)



- Overall territorial size of Hong Kong increased by 7800 hectares between 1993-2000, and 900 hectares between 2009-2016
- A total of 1787.6 hectares of land created through reclamation between 1945 and 1983, went up to almost 6000 hectares in 1996
- Protection of the Harbour Ordinance 1996 to safeguard the increasingly threatened Victoria Harbour against further land development along the coasts

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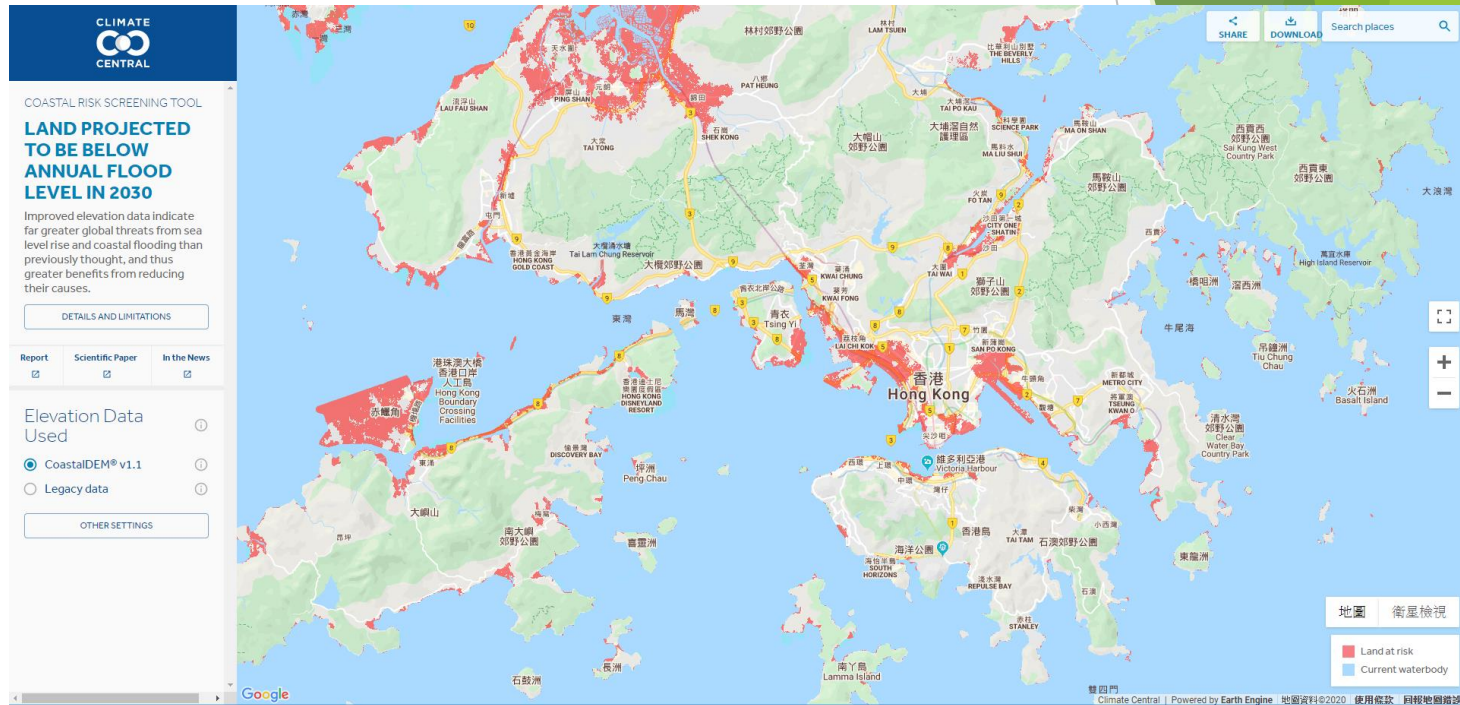


image source (top left, top right, bottom left, bottom right)
Conceptual Spatial Framework, Hong Kong 2030, HKSAR Government (2016)
https://en.wikipedia.org/wiki/Central_and_Wan_Chai_Reclamation
<https://www.westkowloon.hk/en/the-district/background-142>
<https://www.ktd.gov.hk/udgm/en/>

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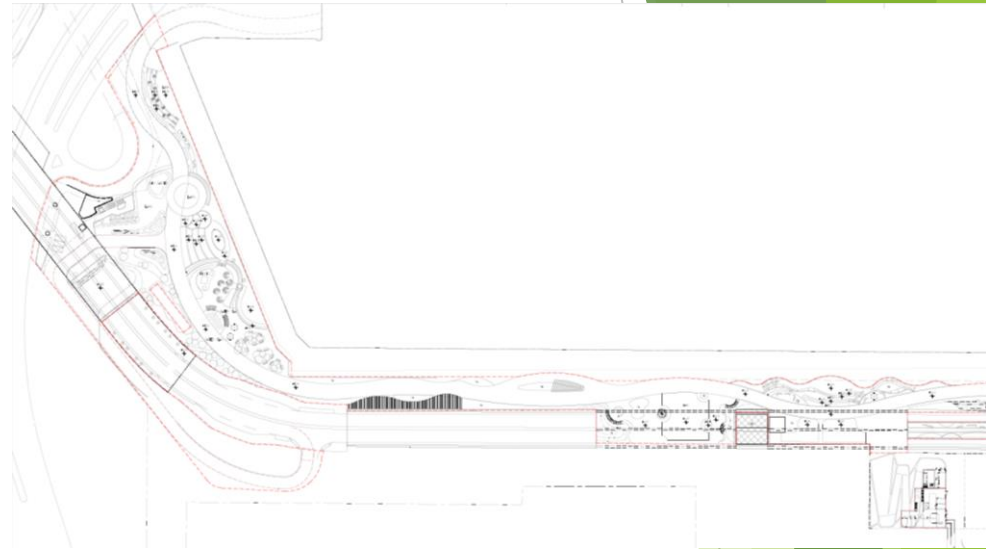
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Country	SRTM million people	Coastal DEM million people	Change million people
1. China (mainland)	29	93	+67
2. Bangladesh	5	42	+37
3. India	5	36	+31
4. Vietnam	9	31	+22
5. Indonesia	5	23	+18
6. Thailand	1	12	+11
Total, global	79	300	+221

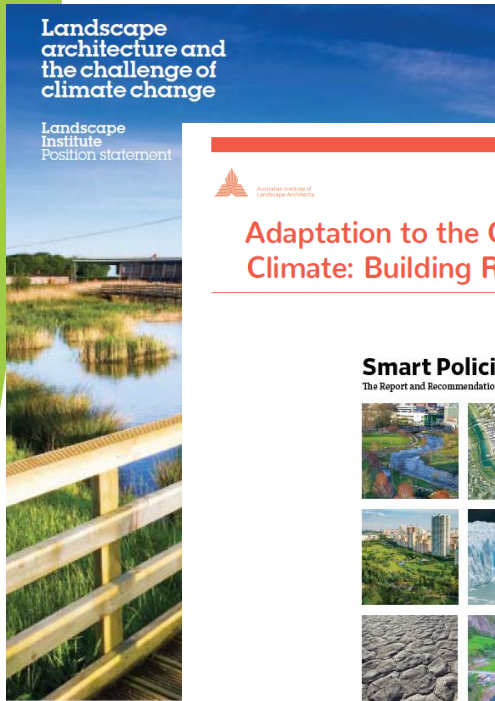


Kulp, S.A., Strauss, B.H. New elevation data triple estimates of global vulnerability to sea-level rise and coastal flooding. *Nat Commun* 10, 4844 (2019) doi:10.1038/s41467-019-12808-z

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LI 2008



AILA 2015

ASLA Jun. 2018

- LI climate and biodiversity emergency declaration (Jun. 2019)
- AILA declared climate emergency (Jul. 2019)
- IFLA declared a climate and biodiversity emergency (Sept. 2019)



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HKILA Accredited Arborists Scheme | 香港園境師學會認可樹藝師計劃

- Established in 2011
- Local accreditation and regulatory mechanism
- Platform for cross-disciplinary and cross-border exchange/ collaboration



INTERNATIONAL URBAN FORESTRY CONFERENCE LANDSCAPE-BASED SOLUTION FOR CLIMATE RESILIENCE



August 25, 2018 (Sat)

2:15p.m.-4:30p.m.

Registration starts at 2:00

Lecture Hall S212, THEi's Chai Wan Campus,
133 Shing Tai Road, Chai Wan, Hong Kong

Seminar Speakers



Mr. Patrick H T LAU, JP
Member of Development Bureau's
Urban Forestry Advisory Panel

*Urban Forestry and Landscape Architecture –
Planning and Implementation*



Prof. CHIU Siu Wai
Honorary Senior College Tutor,
CUHK

*The Diverse Fungal Tree Killers in Hong Kong
with Early Diagnosis for Saving Trees*



Mr. Chris TL LEE
Director of CM Wong & Associates
and Vice Chairman of HKIE
Geotechnical Division

*Stability Checking of Masonry Wall with Wall
Tree*

Language: Cantonese supported by English
2 CPD points

Admission Fee:

HKIS, HKIA, HKIE, HKILA, HKIP

Full members HK\$120

non-member HK\$150

Student members free of charge

Mr. Patrick LAU, JP is Chairman of Earthasia International Holdings Limited. He is a fellow member and former president of the Hong Kong Institute of Landscape Architects, chairman of the Association of Landscape Consultant. He has over the years directed several major landscape projects in the regions including pioneering projects related to urban landscape in Hong Kong such as the Penny's Bay development and West Kowloon Cultural District Nursery Park. He is currently a member of Development Bureau's Urban Forestry Advisory Panel.

After retirement Prof. Chiu is a honorary senior college tutor in CUHK. Beside contribution to international mycological and environmental communities, she is actively promoting BioScience education, e.g. conducting tree pests and treatment workshops and teaching horticulture programmes. She was a member of the advisory committee on Fisheries and Agriculture for ARCD and is lately a member of the advisory council on Food and Environmental Hygiene, FHB, The Government of Hong Kong SAR. Prof. Chiu studies and applies fungi and plants for improving the environment.

Mr. Chris Lee is a Director of CM Wong & Associates Ltd. and has over 20 years of experience in geotechnical engineering. He is also the Vice Chairman of HKIE Geotechnical Division. He has involved in various private development projects comprising of site formation, foundation, slope upgrading works and Excavation & Lateral Support (ELS) works for deep excavation. He is the RGB for numerous private development projects with significant geotechnical content. He has also worked as the Project Manager for a variety of slope related government consultancies under the CBDD, HD, LandsD, HyD and DSD.



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广东省沿海城镇绿化植物防风 应用与管理指引（试行）



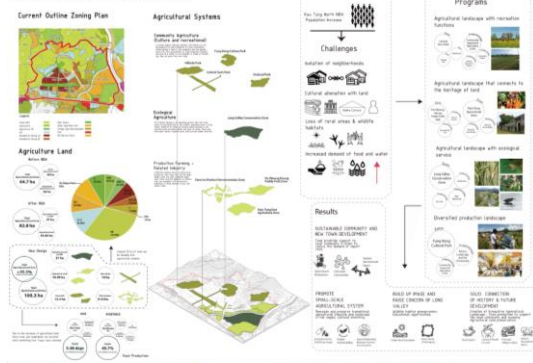
广东省住房和城乡建设厅
二〇一九年六月



INTERNATIONAL URBAN FORESTRY CONFERENCE LANDSCAPE-BASED SOLUTION FOR CLIMATE RESILIENCE



SITE ANALYSIS & DESIGN STRATEGY



Organizer:



亞洲人居環境協會
Asian Habitat Society

In collaboration with:



Member of VTC Group
VTC 綠建築師

Supporting Organization:





農與境

AGRI-LANDSCAPE

THEI's Landscape Architecture curated a studio and symposium on sustainable landscape design with Kwo Tong North as the subject site in 2015. As a step further this study led by Asian Habitat Society (AHS) inquires the dynamics between productive landscape and the social, cultural, ecological, and recreational values of the lands. In view of the new agricultural policy and land supply initiatives in place for Hong Kong, we take the opportunity of this exhibition opening where scholars and agricultural experts will share their views on the topic.

EXHIBITION
12/f, North Block, THEI Chai Wan Campus

DATE
15th-31st Aug, 2018

TIME
10am-7pm
(closed Sunday)

SEMINAR & EXHIBITION OPENING
S2J2, Lecture hall
17th Aug, 2018
6:30pm-8:30pm



Dr. Chow Sung Ming – The Conservation of Ecosystem Services
Instructor, Department of Applied Social Science, The Hong Kong Polytechnic University
Dr. Chow Sung Ming is currently teaching social policy and social entrepreneurship, the Department of Applied Social Science, The Hong Kong Polytechnic University. He is also the member of Land Justice League and co-founder of social enterprises Sage Kitchen and Hong Kong Fair Trade House. His recent publications include The Hong Kong Local Agriculture Reader (Landscape Education Foundation, 2015) and New Ideas of Sustainable Living and Cooking in Hong Kong (Impress, 2015).



Mr. Ng Hei Man – Eco-agriculture in Long Valley: Retrospect and Prospects
Campaign Manager, The Conservancy Association
Mr. Ng Hei Man graduated from The Chinese University of Hong Kong in 2007 with a Bachelor of Social Science degree in Geography and Resource Management. After joining The Conservancy Association in 2007, he has involved in rural monitoring work and environmental policy advocacy. He has represented CA in joining various conservation campaigns, such as protection of Tai Long Sai Wan, North-east New Territories, and so on, to express the importance of countryside and agricultural land towards rural sustainability.



Mr. Yip Tsz Lam – Farming, Living & Environment
Senior Sustainable Agriculture Officer, Kadoorie Farm and Botanic Garden
Mr. Yip Tsz Lam has over 15 years of sustainable farming experience, including management of vegetable, herb, orchard and tea landscape. He has organized a wide variety of farming courses, such as crop farming, farmer introduction, seedling and beekeeping, in the past 10 years. Apart from on-site management and outreach training, Yip also concerns about local agriculture development issues like the Agricultural Park, Land Supply and Agricultural Priority Areas Policy.

RUNDOWN
6:30pm – 6:40pm
Mr. Paul Chan – Welcome Note
6:40pm – 7:00pm
Dr. Chow Sung Ming –
The Conservation of Ecosystem Services
7:00pm – 7:20pm
Mr. Ng Hei Man, Roy –
Eco-agriculture in Long Valley: Retrospect and Prospects
7:20pm – 7:40pm
Mr. Yip Tsz Lam –
Farming, Living & Environment
7:40pm – 7:50pm
Q&A and Group Photo
8:00pm – 8:30pm
Exhibition Opening at 12/f North Block
The medium of delivery is in Cantonese*

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Resilient City - Landscape Planning towards Climate Adaptation

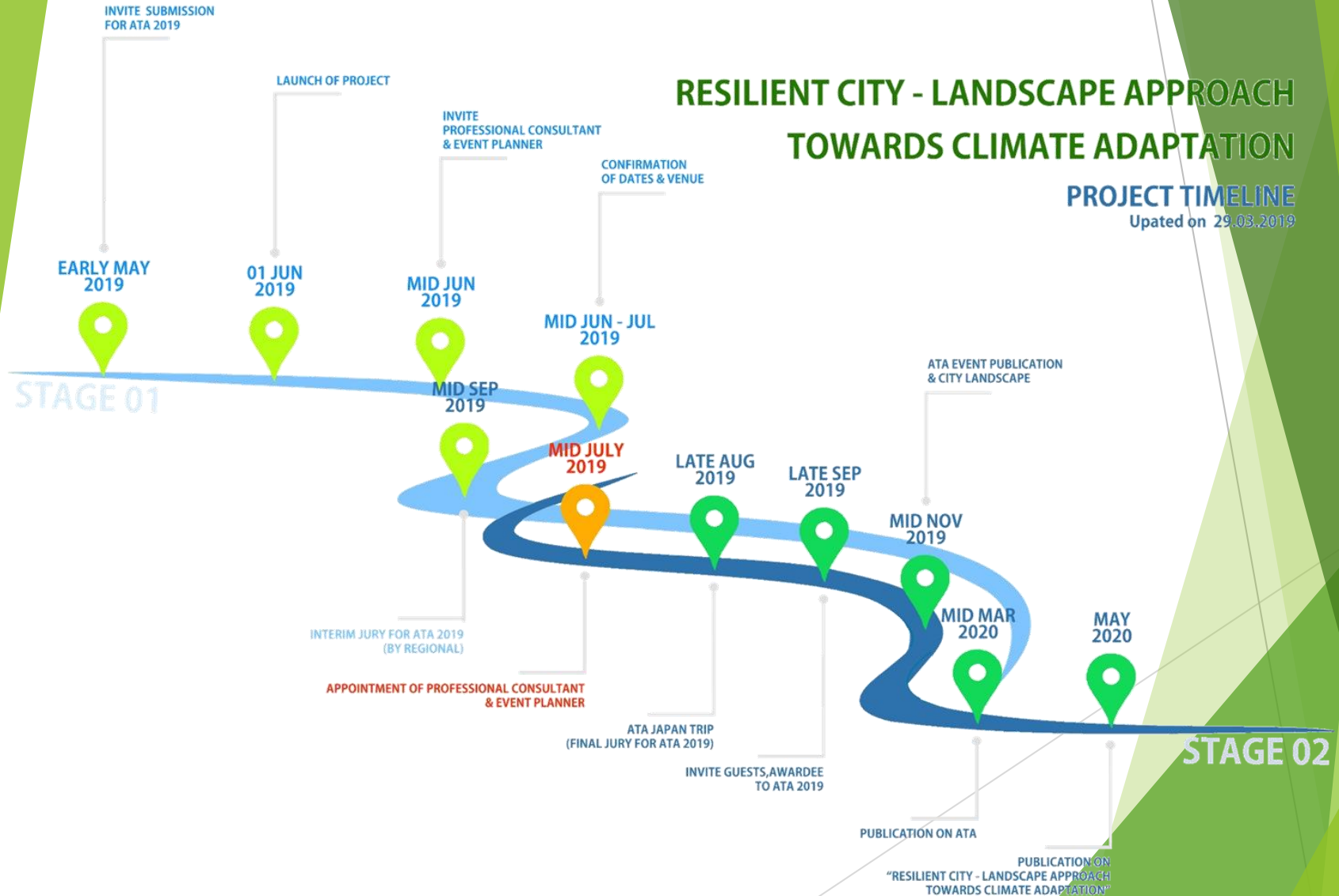




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RESILIENT CITY - LANDSCAPE APPROACH TOWARDS CLIMATE ADAPTATION

PROJECT TIMELINE
Updated on 29.03.2019





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アジア ASIAN 都市景観賞 TOWNSCAPE 亞洲 AWARDS

The Association of Landscape Consultants (ALC) is hosting the 10th anniversary of the Asian Townscape Awards (ATA) and ATA 2019 presentation ceremony in Hong Kong. Initiated by UN-HABITAT (Regional office for Asia and Pacific), Fukuoka Asian Urban Research Centre (URC), Asian Habitat Society (AHS), and Asia Townscape Design Society (ATDeS), the ATA was established in 2010 to honour projects

INITIATORS of ATA:



HOSTED BY:



SPONSORS:



COLLABORATING ORGANISATION:

Hong Kong Institute of Landscape Architects
Asian Habitat Society
Urban Studies Programme,
Chinese University of Hong Kong
MSc in Urban Design, School of Architecture,
Chinese University of Hong Kong
School of Life Sciences,
Chinese University of Hong Kong
Technological and Higher Education Institute
of Hong Kong
Professional Green Building Council
Hong Kong Institute of Urban Design
Hong Kong Greening Contractors Association

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Any inquiries / 查詢, contact the co-organisers as recommended in
this material/only event organised under this project
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Special Administrative Region or the Working Committee of the
Professional Services Advancement Support Scheme.

ATA 2019 HONG KONG RESILIENT CITY LANDSCAPE PLANNING TOWARDS CLIMATE ADAPTATION

22-23 November 2019

that effectively enhanced living environment through urban transformation, and awarded in the past 9 years projects from over 90 cities in the Asian communities. Conference titled Resilient City – Landscape Planning towards Climate Adaptation will be held on the day before the ATA ceremonies that aims to exchange on landscape-based climate adaptation strategies.

KEYNOTE SPEAKERS:



Prof. Makoto YOKOHARI
Professor
Graduate School of Engineering and the Graduate Program in
Sustainability Science, The University of Tokyo
DYNAMIC OPEN SPACE PLANNING FOR FUTURE CITIES



Dr. Jackie YIP
Senior Conservation Officer (Biodiversity)
Agriculture, Fisheries and Conservation Department, HKSAR Government
**MAKING SPACE FOR
BIODIVERSITY IN OUR URBAN AREAS**



Mr. Ronnie TAN
President
Singapore Institute of Landscape Architects
AT THE CROSSROADS



Prof. Laura Falkenberg
Assistant Professor
Simon F.S. Li Marine Science Laboratory, School of Life Sciences,
The Chinese University of Hong Kong
**ECOSYSTEMS SERVICES IN
AN ERA OF DEVELOPMENT AND CLIMATE CHANGE**



Prof. Hendrik TIEBEN
Associate Professor / Associate Director
School of Architecture, The Chinese University of Hong Kong
CAPACITY BUILDING FOR COMMUNITY RESILIENCE

ADDRESS: 133 Shing Tai Road, Chai Wan, Hong Kong
Technological and Higher Education Institute of Hong Kong (Chai Wan Campus)

22 November, **FRIDAY** CONFERENCE
9:30am to 12:30pm
Lecture Room S202, Z/F

23 November, **SATURDAY** Sharing Seminar Plus ATA Ceremony Details
9:30am to 6pm
Lecture Room S202, Z/F

22 - 23 November, **FRIDAY & SATURDAY** Exhibition
9am to 7pm
Learning Common

For Details & Registration,
please download the form from <http://ahshk.org/ata-2019> or Scan the





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Local Policies/ Guidelines (for discussion)

- Hong Kong's Climate Action Plan 2030+ (2017)
- EPD's *A Study of Climate Change in Hong Kong - Feasibility Study* (2010)
- Port Works Design Manual Corrigendum No. 1/2018

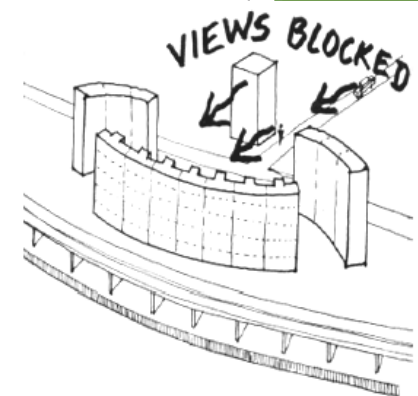
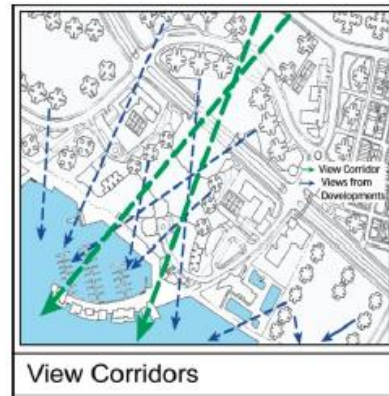
Local Guidelines to adopt the output of the initiatives (for discussion)

- Chapter 4, 10, 11 of HKPSG
- Harbourfront Planning Principles and Harbour Planning Guidelines (2006 & 2007)

INTERNATIONAL URBAN FORESTRY CONFERENCE LANDSCAPE-BASED SOLUTION FOR CLIMATE RESILIENCE

Examples of gaps in existing administrative framework:

- HKPSG Chapter 11 - Urban Design Guideline focuses on functional and visual aspects
- Harbourfront Planning Principles and Harbour Planning Guidelines (2006 & 2007)
- Focus mainly on visual quality, physical forms and connectivity. Landscape seen more as beautification. Lacking climate adaptation, ecological aspects.



LANDSCAPING

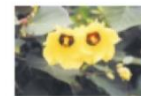
- Areas along both sides of the Victoria Harbour should be landscaped to optimise greening of the harbour-front areas. Both permanent and temporary landscaping, preferably with tree planting into the ground and lawn, are encouraged to improve amenity. Attention should be given to the design such that they will not affect pedestrian flow and create barriers to public access to the harbour-front e.g. by avoiding use of planters.
- Planting species should be carefully selected, taking into account the local characteristics, salty and windy environment of the coastal areas and soil conditions of the particular location. Examples of tree species which can tolerate salt sprays and strong wind include *Ficus microcarpa*, *Hibiscus tiliaceus*, *Melaleuca quinquenervia*, *Plumeria rubra* and *Roystonea regia*. Examples of flowering species which are tolerant of coastal stresses and can display attractive flowers include *Koelreuteria bipinnata* (Golden Rain Tree), *Pongamia pinnata* (Ponga Oil Tree), *Melia azedarach* (Persian Lilac), *Callistemon viminalis* (Weeping Bottlebrush), *Cassia fistula* (Golden Shower) and *Cassia javanica var. indochinensis* (Pink and White Shower).



王棕
Roystonea regia



紅雞蛋花
Plumeria rubra



黃槿
Hibiscus tiliaceus



細葉榕
Ficus microcarpa

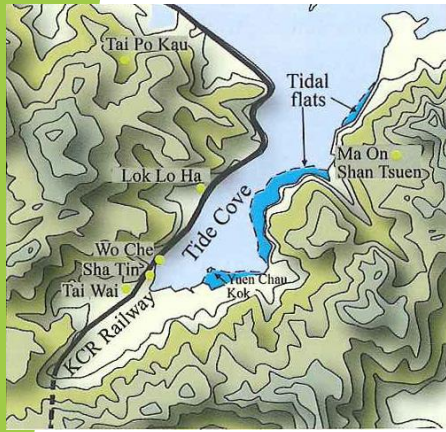


白千層
Melaleuca quinquenervia

圖 27 適合海旁環境的樹木種類例子
Fig. 27 Examples of tree species suitable for harbour-front environment

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LANDSCAPE-BASED SOLUTION FOR CLIMATE RESILIENCE



Shatin Valley, coastline in 1957 and in 1999, Owen & Shaw (2007)



Shatin Sewage Treatment Works (internet image)



Barangaroo, Sydney (internet image)