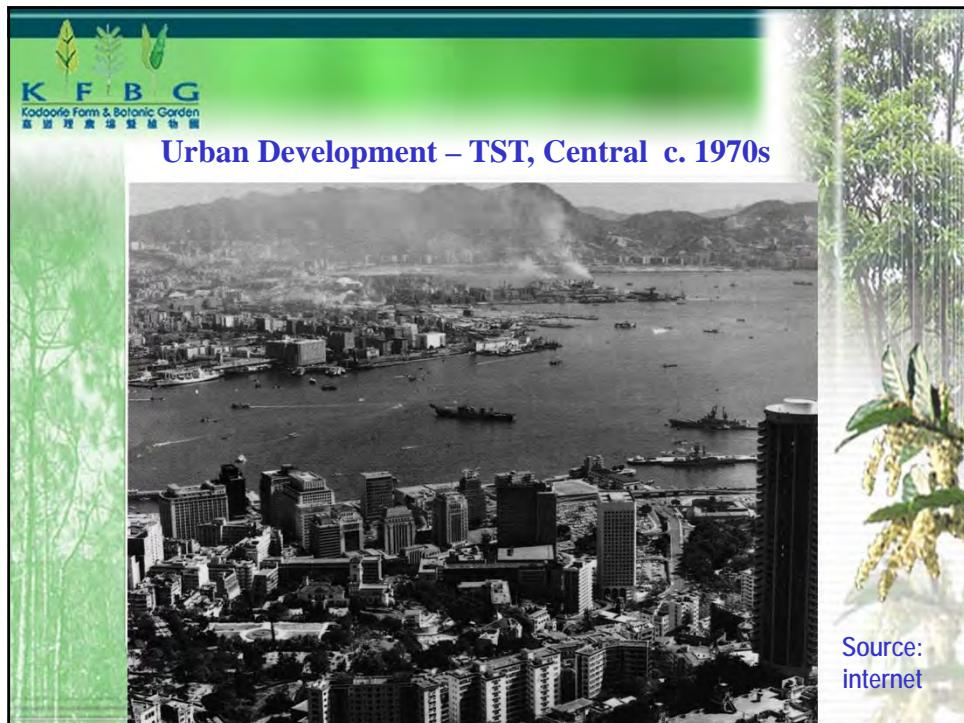


KFBG
Kadoorie Farm & Botanic Garden
基德羅農場暨植物園

Contents

- Background
- Present policy and planning
- Administration and management
- Technical, professional aspects
- Resources and capacity building
- Community involvement

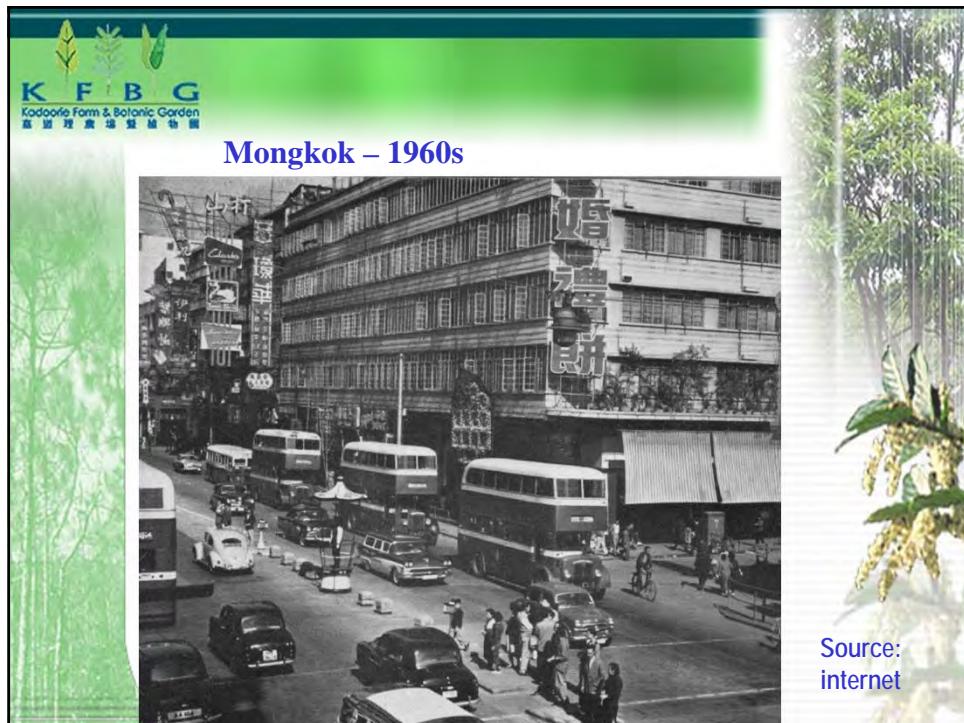


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基德羅農場暨植物園

Urban Development – TST, Central c. 1970s

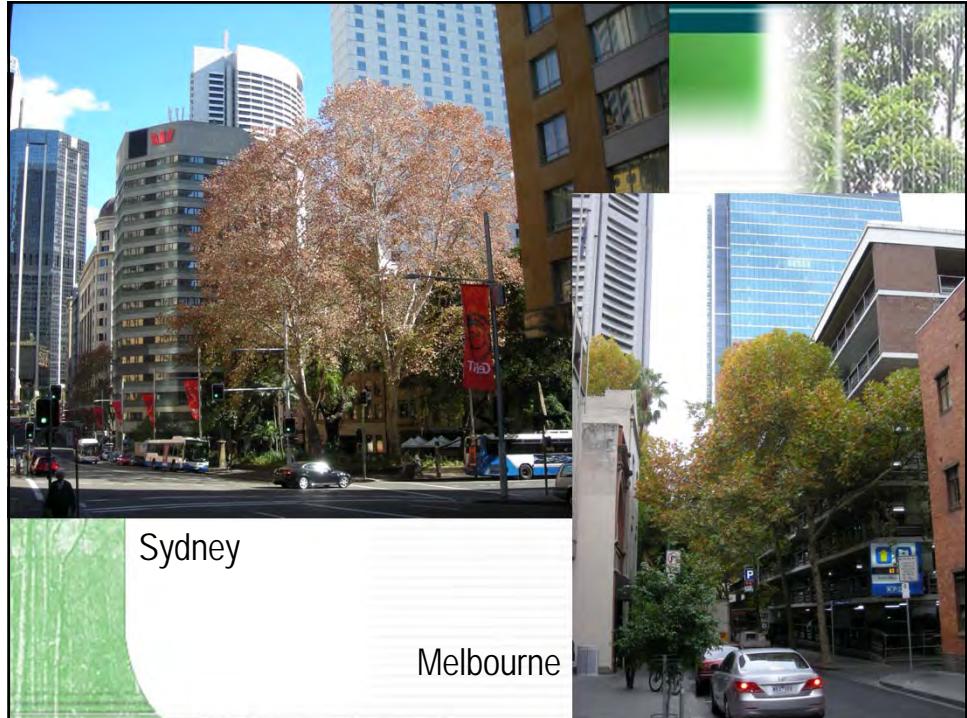


Source: internet





Brisbane, Australia









Aging Effect

Aging of fast-growing tropical trees: natural life span 30-50 years, then health decline

E.g. *Delonix*, *Cassia* spp., *Lagerstroemia* spp. *Bauhinia* spp., *Erythrina* spp., *Acacia mangium*, *Acacia auriculiformis*

Structural weakness

- timber brittle – (above spp.)
- Included bark – e.g. *Celtis sinensis*

Bottle neck effect of aging and weakening

e.g. *Acacia confusa* planted in the 1950s or before





• photos



南昌邨30樹遭去頂 專家：過度修剪 恐染菌枯死

(明報) 11月10日 星期四 05:05

【明報專訊】入伙近20年的深水埗南昌邨，車路旁原種了約50棵樹綠化社區，多年來為街坊遮蔭，結果卻因長得太茂盛，惹來「削冠之災」。管理公司回應居民投訴，指樹木遮擋陽光及引來雀鳥排糞，遂聘承辦商逐一鋸去樹冠，只留下光禿禿的樹枝。樹木專家昨午到場觀察，發現至少已有30多棵樹遭受過度修剪，致命傷是「落鋸」手法不當，有機會令樹木死亡。地政總署 表示會跟進事件。





Ngau Tau Kok Estate, Sept 2006
 Leung King Estate, Nov 2006,
 Wu Kai Sha Youth Camp, 2006
 Nam Choeng Estate, Jan 2007
 Wong Tai Sin Temple, June 2008,
 Bonham Road Church, 2008
 Stanley *Erythrina* case, Aug 2008



Management should begin with a preventive, proactive approach

- Species selection –
the first step
 - right tree for the right place
- Individual selection, Installation, transplantation...









Ordinance

UK, Singapore – Tree Protection Ordinance

HK needs new Legislation

Tree protection clause [not in old land lease];

ETWB -- Technical memorandum – vegetation management, pruning, maintenance, monitoring, supervision etc.

Building Dept -- Practice Notes on Felling and Transplanting of trees

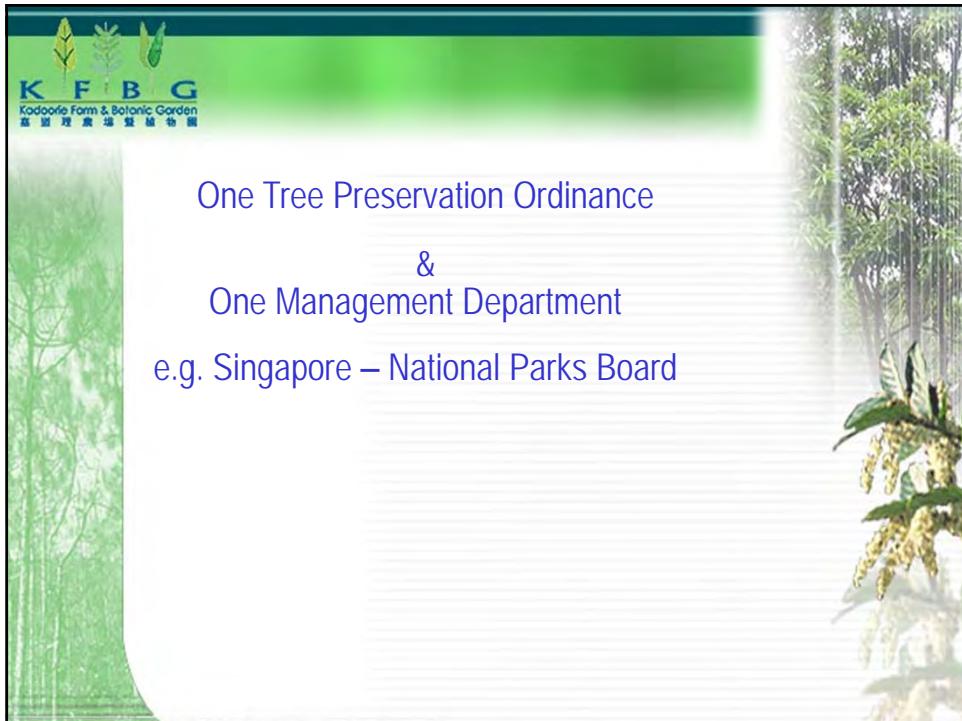
Lands Dept – Application for tree felling



Administration & management

Management of Trees by Government Depts. in Hong Kong

 康樂及文化事務署 Leisure and Cultural Services Department	 漁農自然護理署 Agriculture, Fisheries and Conservation Department
 香港房屋委員會 Hong Kong Housing Authority	 地政總署 Lands Department
 路政署 Highways Department	 水務署 Water Supplies Department
 建築署 Architectural Services Department	 渠務署 Drainage Services Department




• Private sector –

- Gardening contractors -
- Arborists / Horticulturist / Landscape Architects
- Or a tree butcher ?




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**安全帶綁 20 米高
樹幹 不勝負荷折斷
何世柱寓所修樹工
墮下命危**

【本報訊】前全國政協委員何世柱位於跑馬地藍塘道的花園洋房寓所，昨午發生工傷意外，一名工人爬上屋外一棵白蘭樹上修剪樹枝時，疑安全帶綁的一條樹幹不勝負荷截斷，工人連同安全帶及鋸樹裝備從 20 米高處跌下，幸好樹身枝葉及地面泥地卸去不少下墜力，不致當場喪命，但事主經送院急救後情況危殆。 記者：胡恩宏

Source: Apple Daily 20081020


Technical & professional requirements

- Tree Biology (& Arboriculture) is a complex discipline, needs professional knowledge.
- Tree work is highly dangerous and technical, needs professional training.




- **What does it mean by Professional?**
- Extensive academic education and formalized training (degree level &/or above)
- Maintain a high level of output (product/service)
- Self regulating, assessment and control of standard / performance by the industry
- E.g. Accountant, doctor, engineer, lawyer, landscape architect, ... , ...

- **Professional recognition**

- Make arboriculture a profession (at all levels) tree assessment, pruning, maintenance
- Arborist = accountant, doctor, engineer, Landscape Architect...
- E.g.
 - Fees: Leung King Est. ~ \$140,000 for 250 trees (@\$560) => all cut by topping
 - 2 Coral trees in Tuen Wan - \$48,000 (@\$24,000)

Resources & capacity building

- Need to formalize industry standard, protocols etc; provide/encourage training; incentives
- Cf. Chinese Medicinal Practitioners, Property Agency, Automobile industry (voluntary registration).
- Legislation, incentives
- Grace period, e.g. 3-5 years etc.



Training for Construction Industry – by CICTA (with certification)

Supervision of Tree Works Course [12 hrs. course for work site supervisor, no assessment! 600 people completed] since Dec 2006.

⇒ intermediate => advanced courses?

Basic Landscape Theory Course for Landscape Works [6 hrs course including exam.] Started, monthly course since Oct 2008.



Technical training

Proposed by VTC – Skill Upgrade Scheme,
Basic Arboriculture
Tree Climbing and Working Technique

Workshops, Seminars on various arboriculture subjects organized locally and overseas
e.g. ATP organized a 2-day workshop on Tree Assessment by Dr. John Ball, professor of South Dakota State Univ. Nov. 28-29, 2008 Hong Kong.



- **Training in tree works: more professional**
 - HKU SPACE CA preparation course – 30 hrs.
 - In UK, using chainsaw, must received training and passed assessment, as required by law (NPTC Level 2 Cert.).




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– ISA CA – 1 to 3 years in the industry; 200 MC (overall > 70%; each and every domain > 60%); real practical experience needed!!

118 CA; 16 CTW
 c.f. Houseman in a ward!






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- UK – NPTC (National Proficiency Test Council); BTEC
- National Certificate on Horticulture / Arboriculture – Level 2 (ISA CA)
- National Higher Certificate / Diploma on Arboriculture – Level 3 (A-level)
- National Higher Diploma on Arboriculture – Level 4
- Univ. Degree – Level 5
- New Zealand – proper on the job training, Level 2 to Level 4 Cert.; Level 5 – Diploma

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Role of Community

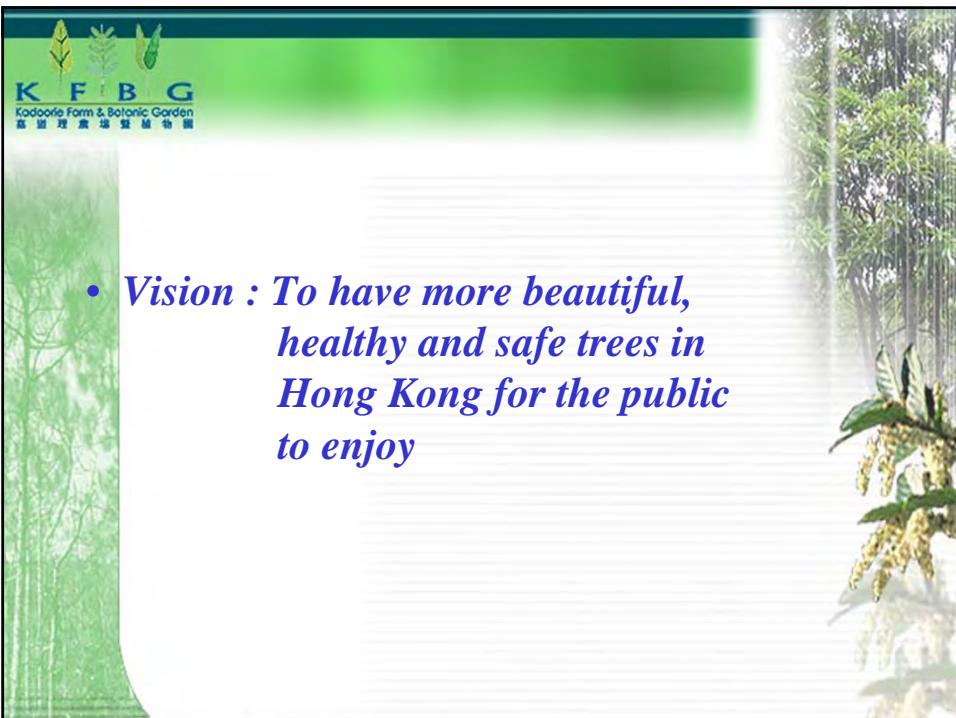
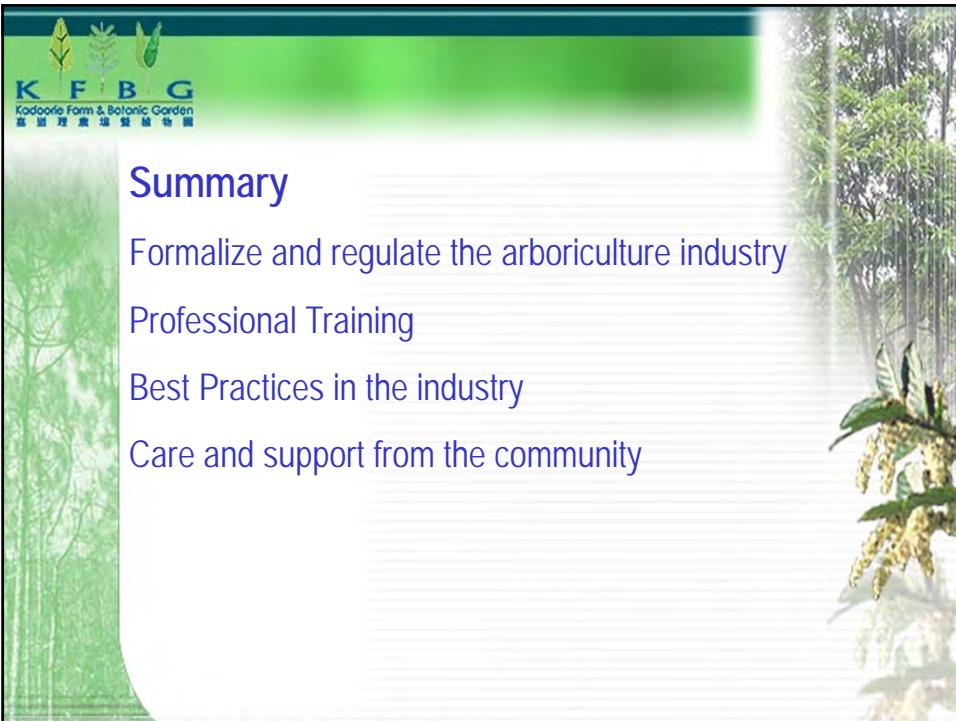
- Need more attention and support from both public and private sectors
- Put much more resources in the community

Discussions in online forum
<http://www.discuss.station.hk/viewthread.php?tid=1071>

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- NGOs and Volunteers
 - Conservancy Association – spotting of trees, training of 1+ 2 days, need follow up by staff.
 - LCSD – green volunteers.

<http://www.treelovers.org.hk/index.php?tn=news&nid=1&nid=620%E2%8C%A9=tw>





THANK YOU !