Education Bureau
Education Services Centre
Kowloon Tong
11 March 2015

C.Y. Jim

Department of Geography
University of Hong Kong
hragjcy@hku.hk
geog.hku.hk/staff_FT/jim.html



© Copyrights: CY Jim

高中通識教育科知識增益系列課程: 可持續發展的城市生態

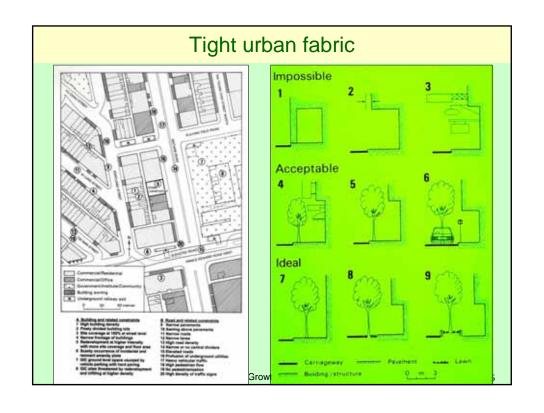
樹木營造綠意盎然的城市

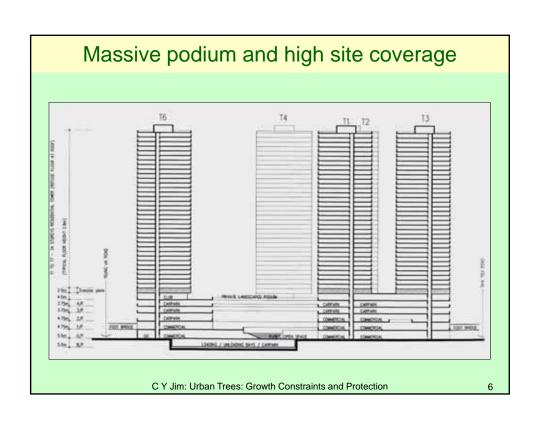
- 1. 樹木對綠化都市的益處及作用
- 2. 樹木在城市生長的限制及保護

- 1. Introduction
- 2. Early tree-planting history
- 3. Notable tree losses and fatal collapses
 - 4. Site limitation and degradation
- 5. Species selection and planting material quality
 - 6. Soil and rooting constraint
 - 7. Paving and grade change influence
 - 8. Construction impact and vandalism
 - 9. Tree care
 - 10. Tree transplanting
 - 11. Conclusion

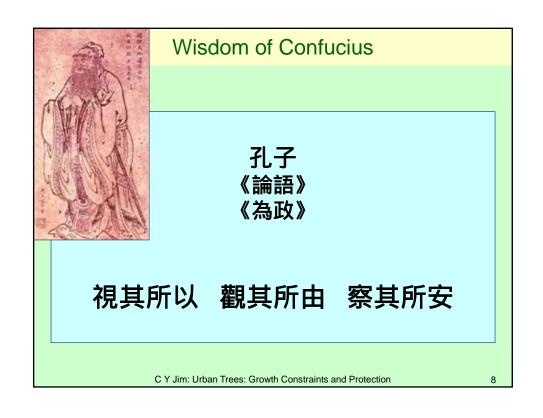
33

Compact city development mode





Accelerated tree decline and management burden Drought Air pollution Detailation Sall toxicity Excessive princing Poor drainage Figure 2-36 Trees often die from a series of taked evens. A mentality spiral describes the tree's transition from vigorous to stressed, from mensed to instruct, from inspired to declining, and from declining to dead. At each stage, C.Y.Jim: Urban-Trees: Growth Constraints and Protection





Wisdom of Liu Zong Yuan

柳宗元 《種樹郭橐駝傳》

順木之天 以致其性 其本欲舒 其培欲平 其土欲故 其築欲密

C Y Jim: Urban Trees: Growth Constraints and Protection

q

Learning from the past

Spanish-born philosopher and critic George Santayana (1863–1952) once said in an enduring epigram that

"Those who cannot remember the past are condemned to repeat it".

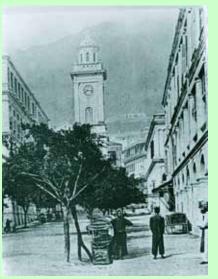
C Y Jim: Urban Trees: Growth Constraints and Protection

- 1. Introduction
- 2. Early tree-planting history
- 3. Notable tree losses and fatal collapses
 - 4. Site limitation and degradation
- 5. Species selection and planting material quality
 - 6. Soil and rooting constraint
 - 7. Paving and grade change influence
 - 8. Construction impact and vandalism
 - 9. Tree care
 - 10. Tree transplanting
 - 11. Conclusion

1111

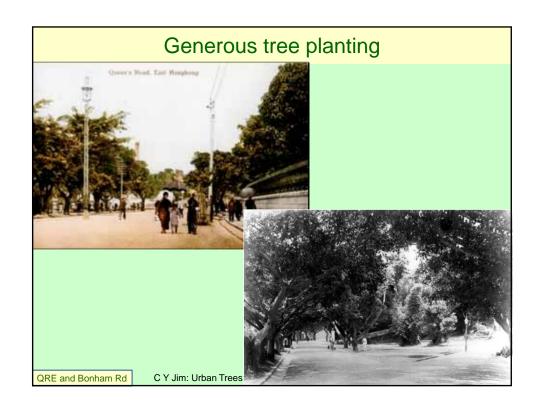
Roadside tree planting tradition

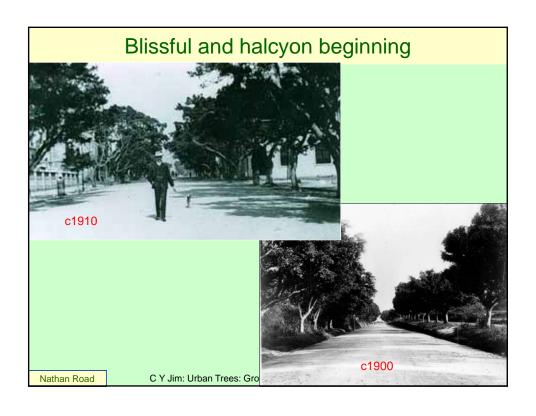


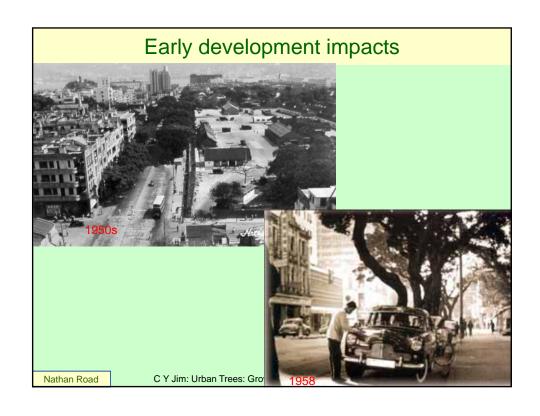


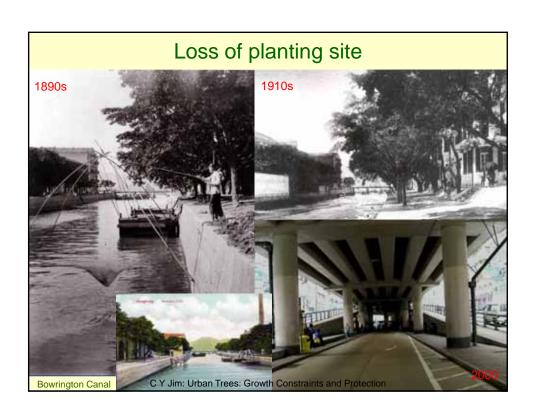
Central

C Y Jim: Urban Trees: Growth Constraints and Protection

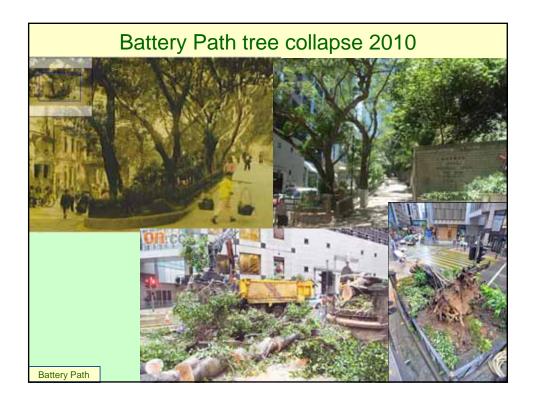








- 1. Introduction
- 2. Early tree-planting history
- 3. Notable tree losses and fatal collapses
 - 4. Site limitation and degradation
- 5. Species selection and planting material quality
 - 6. Soil and rooting constraint
 - 7. Paving and grade change influence
 - 8. Construction impact and vandalism
 - 9. Tree care
 - 10. Tree transplanting
 - 11. Conclusion



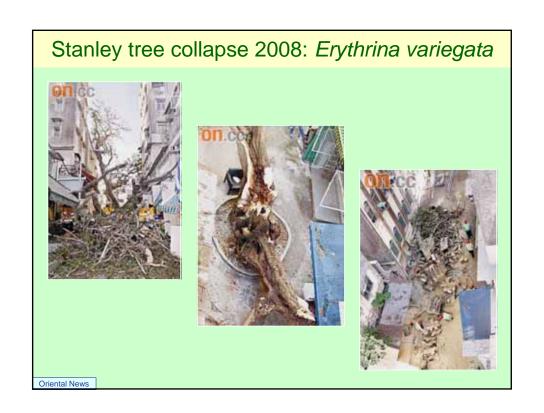




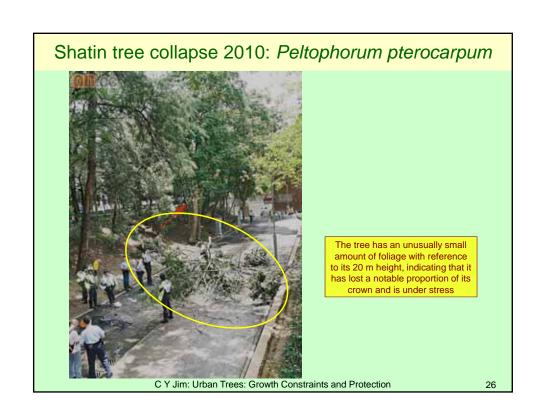
Brown root rot disease attacking weak trees C Y Jim: Urban Trees: Growth Constraints and Protection









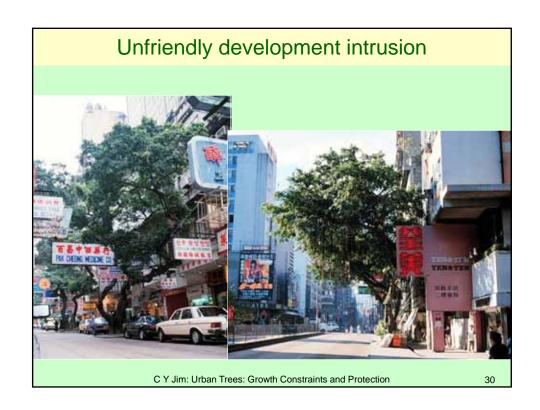


Lam Tsuen tree collapse 2012: Ficus microcarpa



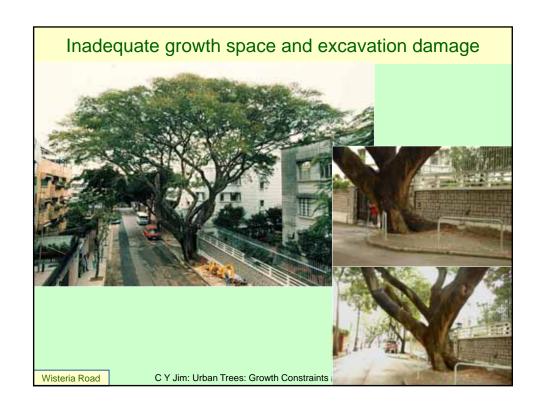


- 1. Introduction
- 2. Early tree-planting history
- 3. Notable tree losses and fatal collapses
 - 4. Site limitation and degradation
- 5. Species selection and planting material quality
 - 6. Soil and rooting constraint
 - 7. Paving and grade change influence
 - 8. Construction impact and vandalism
 - 9. Tree care
 - 10. Tree transplanting
 - 11. Conclusion



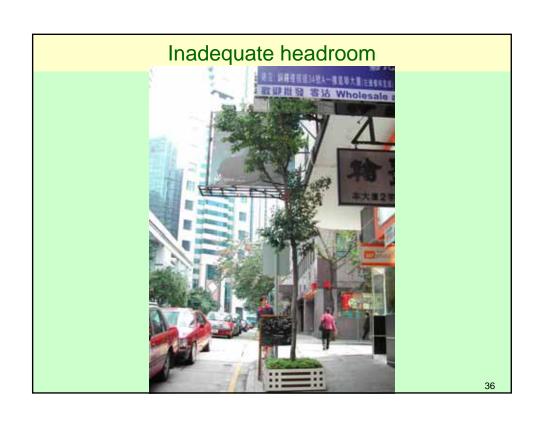








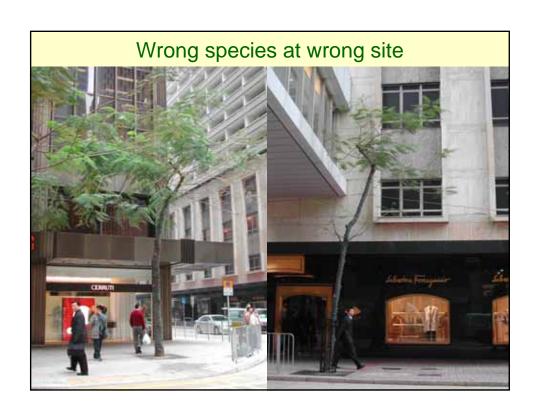


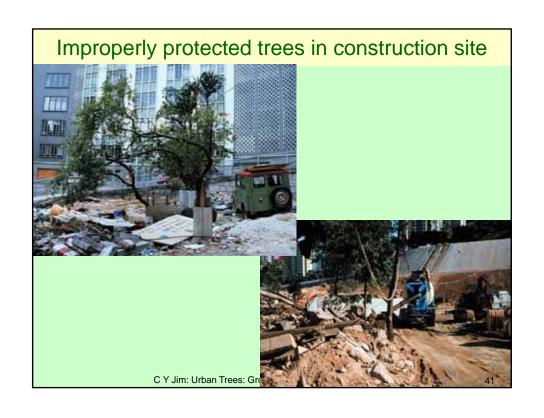


- 1. Introduction
- 2. Early tree-planting history
- 3. Notable tree losses and fatal collapses
 - 4. Site limitation and degradation
- 5. Species selection and planting material quality
 - 6. Soil and rooting constraint
 - 7. Paving and grade change influence
 - 8. Construction impact and vandalism
 - 9. Tree care
 - 10. Tree transplanting
 - 11. Conclusion















- 1. Introduction
- 2. Early tree-planting history
- 3. Notable tree losses and fatal collapses
 - 4. Site limitation and degradation
- 5. Species selection and planting material quality
 - 6. Soil and rooting constraint
 - 7. Paving and grade change influence
 - 8. Construction impact and vandalism
 - 9. Tree care
 - 10. Tree transplanting
 - 11. Conclusion

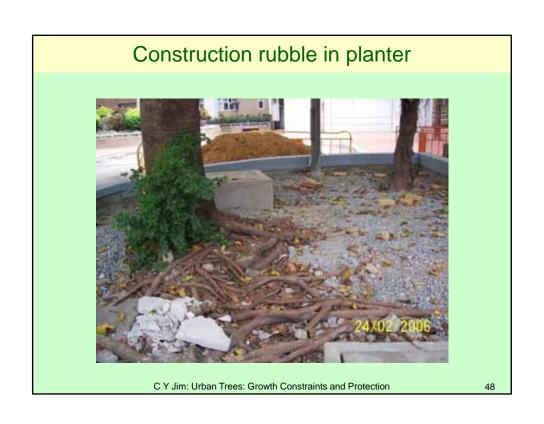
4545

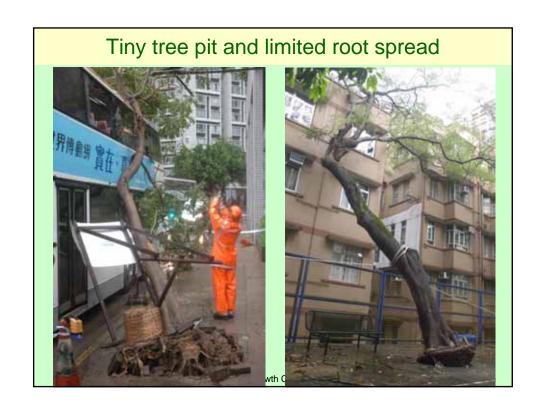
Poor soil and poor root growth

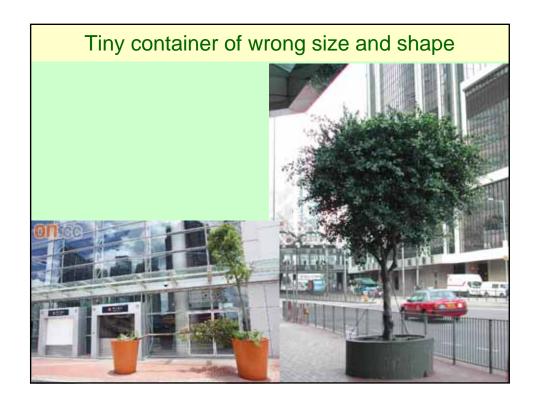


C Y Jim: Urban Trees: Growth Constraints and Protection

























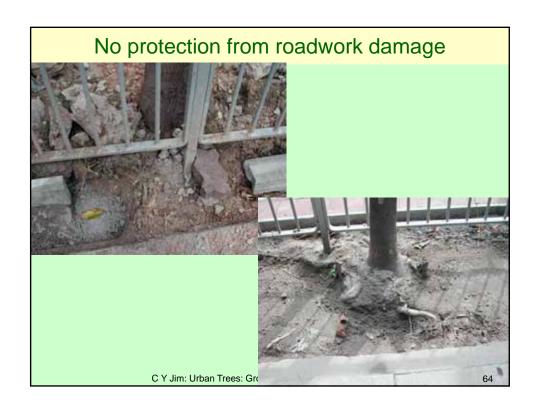


















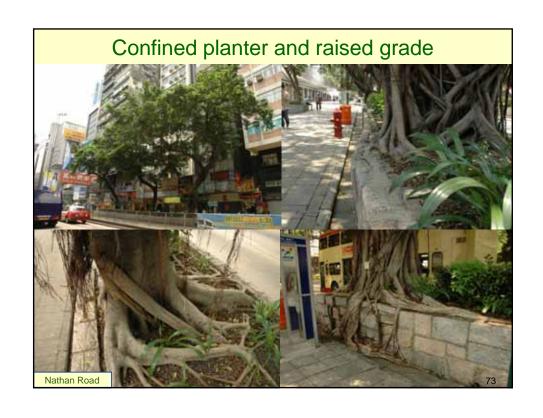


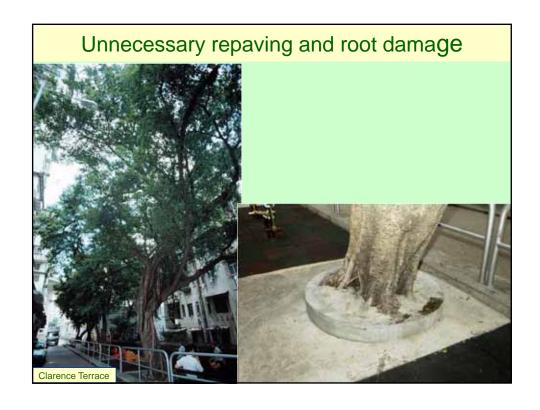


- 1. Introduction
- 2. Early tree-planting history
- 3. Notable tree losses and fatal collapses
 - 4. Site limitation and degradation
- 5. Species selection and planting material quality
 - 6. Soil and rooting constraint
 - 7. Paving and grade change influence
 - 8. Construction impact and vandalism
 - 9. Tree care
 - 10. Tree transplanting
 - 11. Conclusion

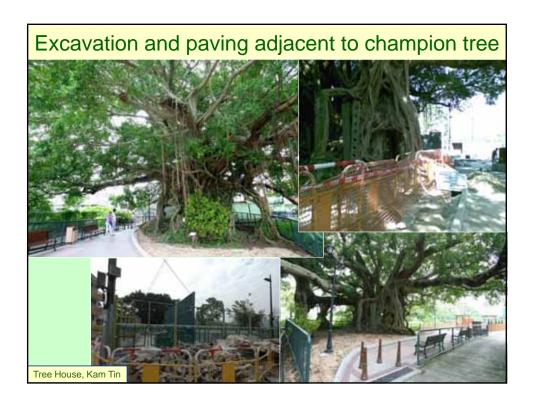


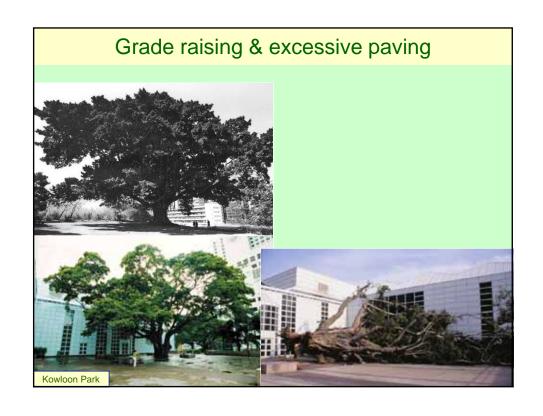




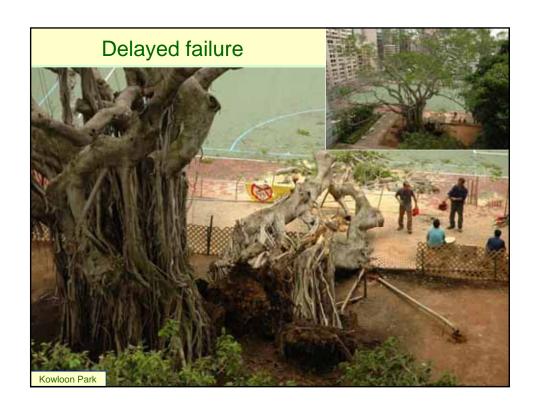








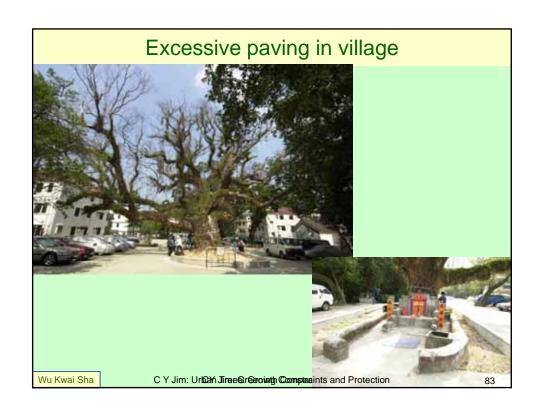


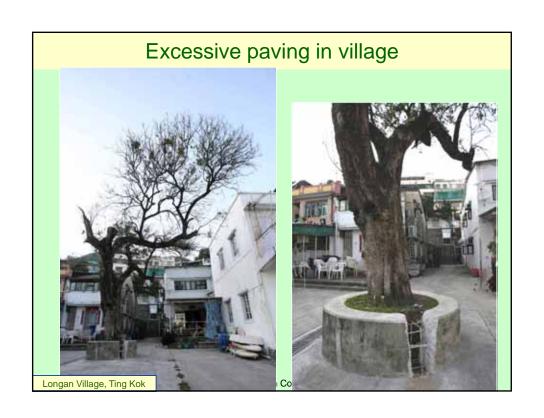












Urban trees: Growth constraints and protection

- 1. Introduction
- 2. Early tree-planting history
- 3. Notable tree losses and fatal collapses
 - 4. Site limitation and degradation
- 5. Species selection and planting material quality
 - 6. Soil and rooting constraint
 - 7. Paving and grade change influence
 - 8. Construction impact and vandalism
 - 9. Tree care
 - 10. Tree transplanting
 - 11. Conclusion

8585

Trenching damage C Trenching damage







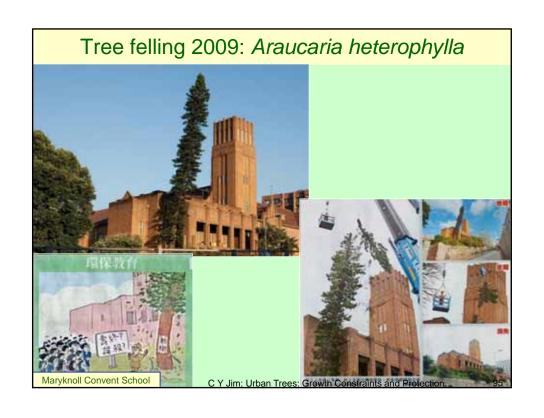


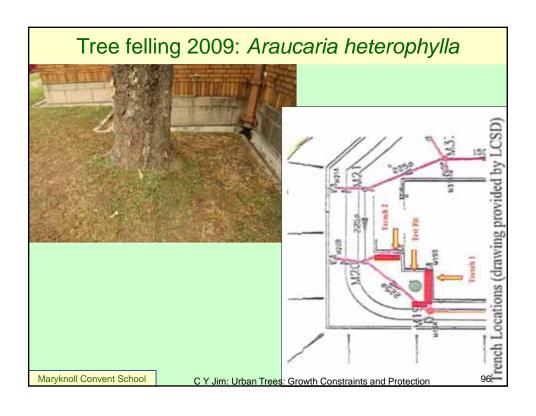


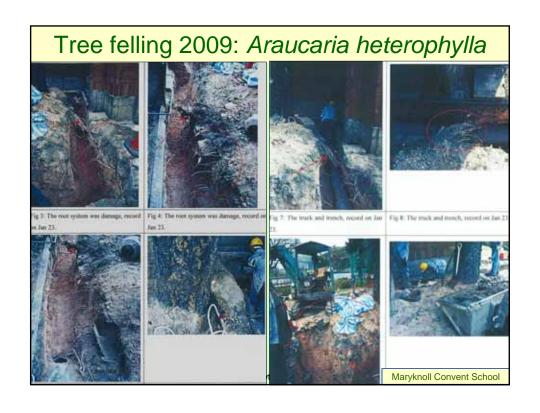










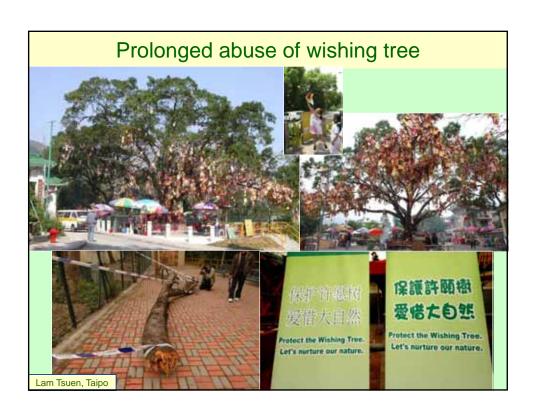


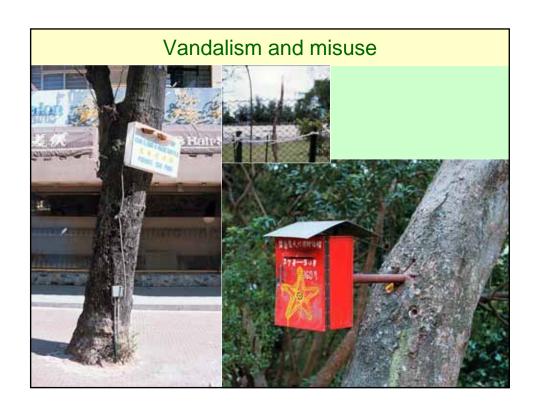


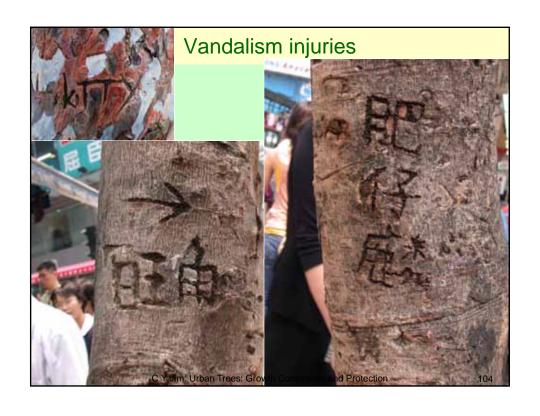












Tree theft (Aquilaria sinensis)





Urban trees: Growth constraints and protection

- 1. Introduction
- 2. Early tree-planting history
- 3. Notable tree losses and fatal collapses
 - 4. Site limitation and degradation
- 5. Species selection and planting material quality
 - 6. Soil and rooting constraint
 - 7. Paving and grade change influence
 - 8. Construction impact and vandalism
 - 9. Tree care
 - 10. Tree transplanting
 - 11. Conclusion

0606





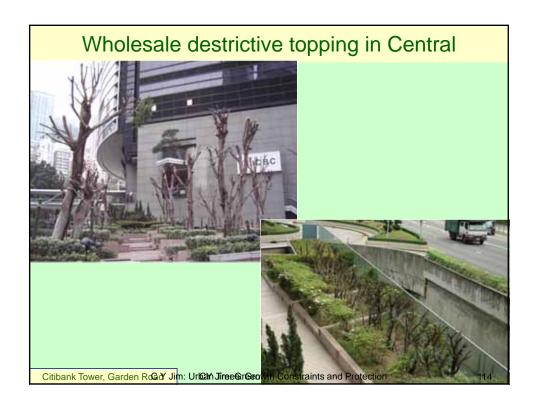


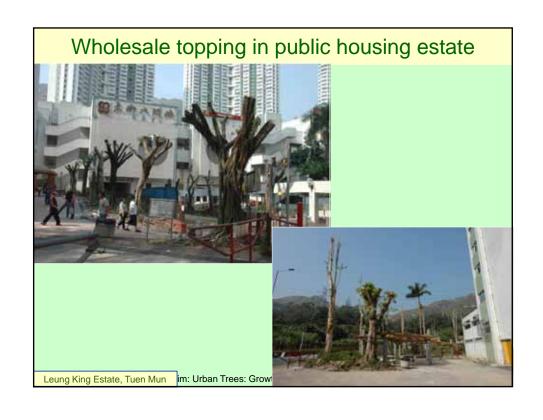


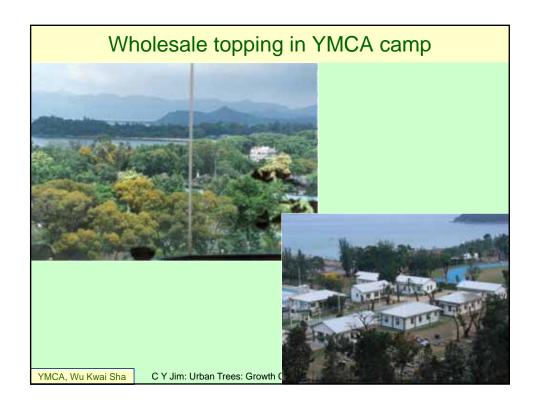






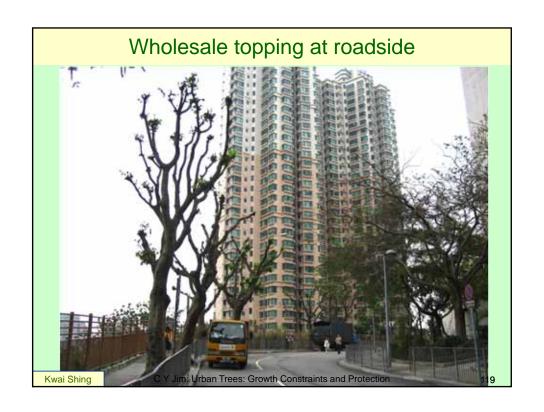


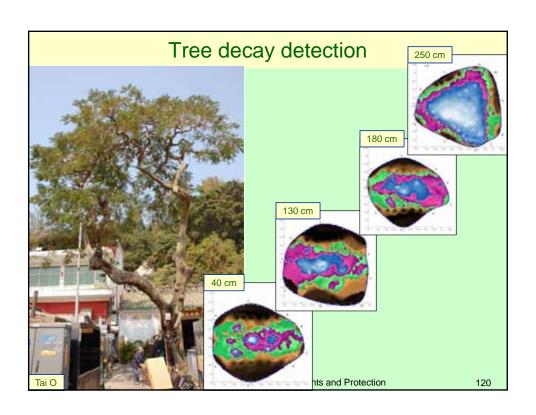


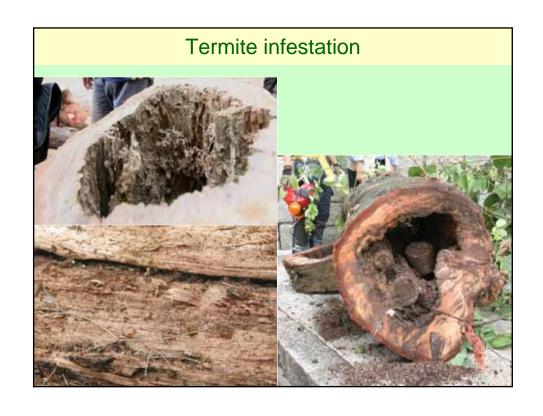












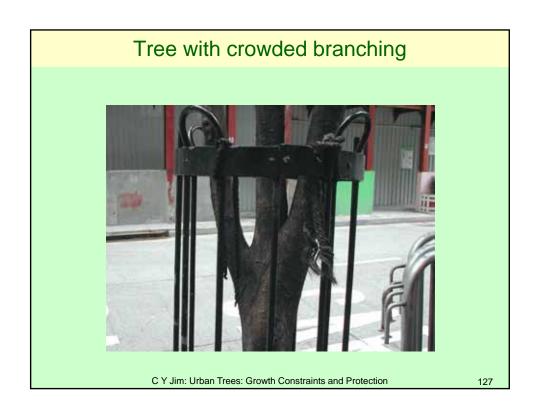


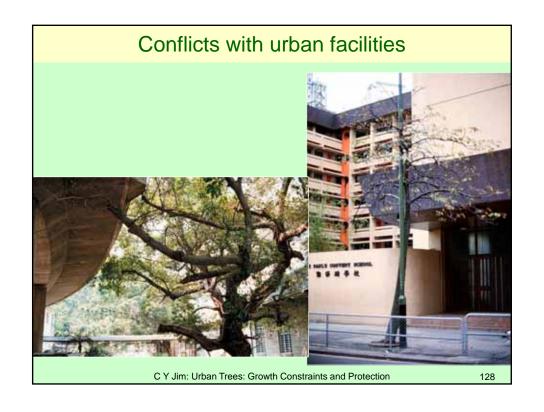




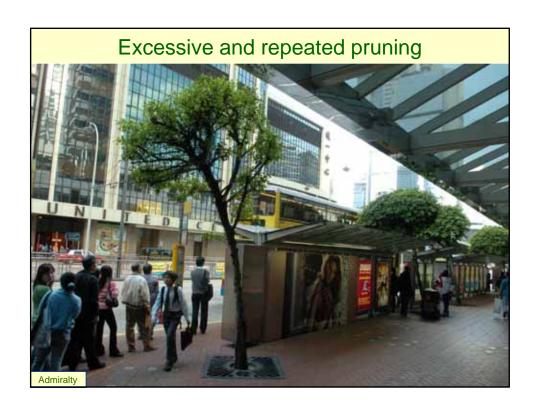


















Urban trees: Growth constraints and protection

- 1. Introduction
- 2. Early tree-planting history
- 3. Notable tree losses and fatal collapses
 - 4. Site limitation and degradation
- 5. Species selection and planting material quality
 - 6. Soil and rooting constraint
 - 7. Paving and grade change influence
 - 8. Construction impact and vandalism
 - 9. Tree care
 - 10. Tree transplanting
 - 11. Conclusion

3434



















Urban trees: Growth constraints and protection

- 1. Introduction
- 2. Early tree-planting history
- 3. Notable tree losses and fatal collapses
 - 4. Site limitation and degradation
- 5. Species selection and planting material quality
 - 6. Soil and rooting constraint
 - 7. Paving and grade change influence
 - 8. Construction impact and vandalism
 - 9. Tree care
 - 10. Tree transplanting
 - 11. Conclusion

4444









