

地貌變遷

柳中明

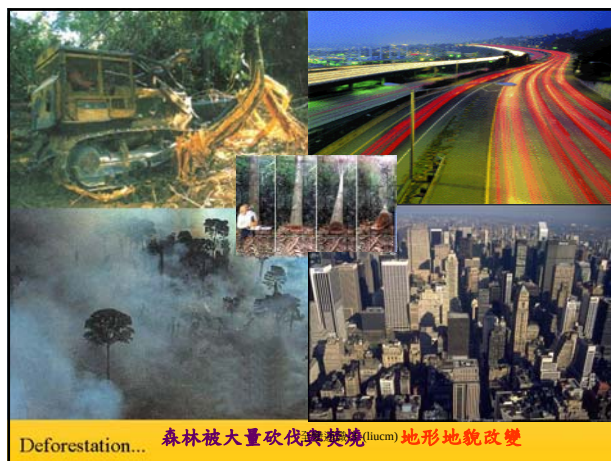
- 全球地貌變遷
- 水庫的興建
- 城市的擴張

討論題綱：

- (a) 你知道台灣那個鄉鎮市的地貌正在變遷嗎？
- (b) 政府推動「平地造林」後的地貌變遷會是如何？

全變通識-3 (liucm)

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一、全球地貌變遷

全變通識-3 (liucm)

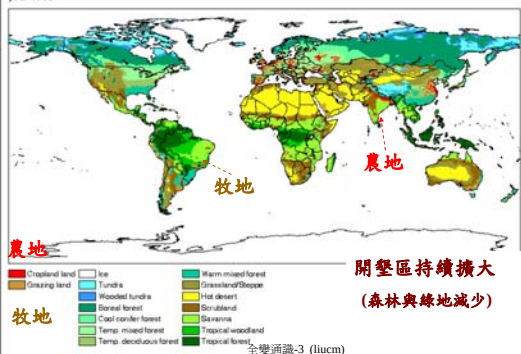
2



global land use change between 1700 and 1990

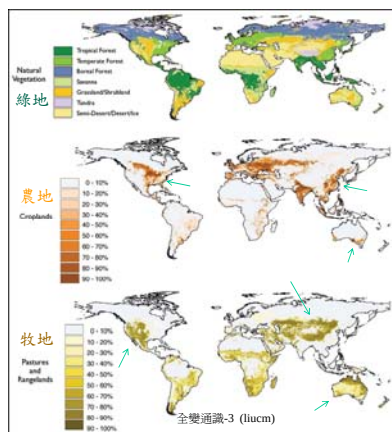
土地利用

year 1700



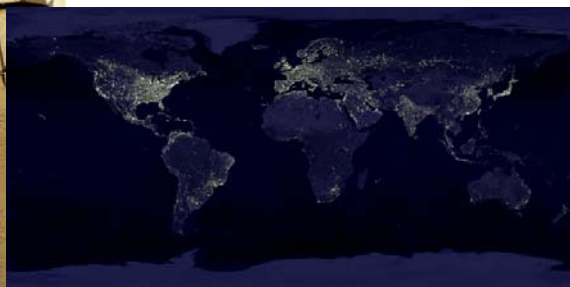
全變通識-3 (liucm)

3



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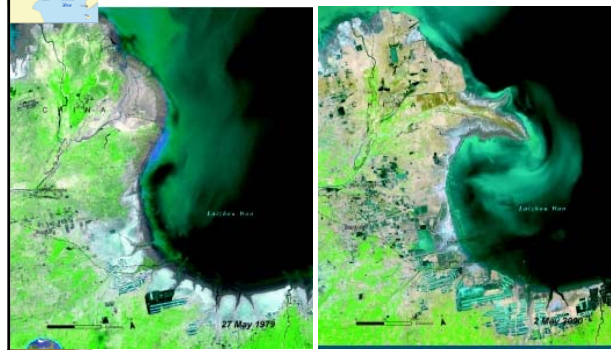
全球亮點 (都市發展)



全變通識-3 (liucm)

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China Laizhou Wan 萊州灣



1979

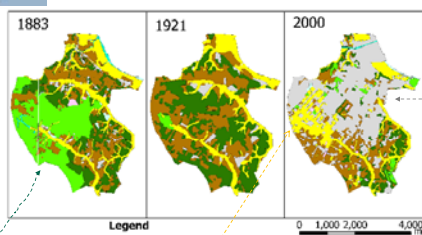
The expand of
Huang He delta

2000

全變通識-3 (liucm)

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Ami Village, southern Ibaraki Prefecture 茨城県



Legend

林地 Woodland 村莊都市 Village, residence, urban
 綠地 Grassland 稻田 Paddy field 農地 Marsh
 旱地 Dry field 農地 農地 Water surface
 農地 農地 農地

全變通識-3 (liucm)

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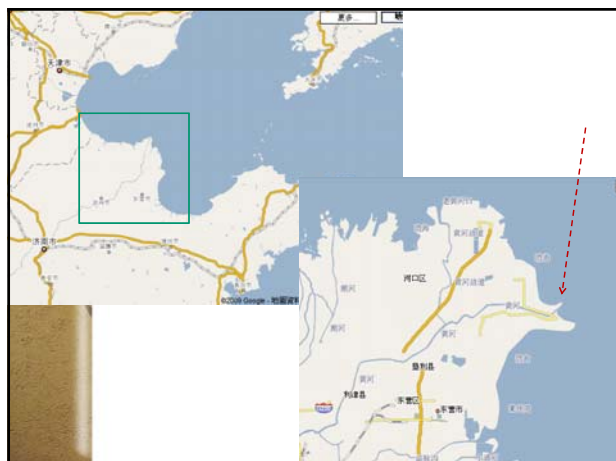
Google Earth 2009



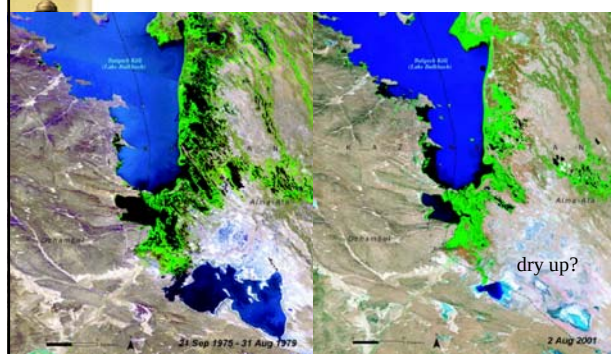
2010

全變通識-3

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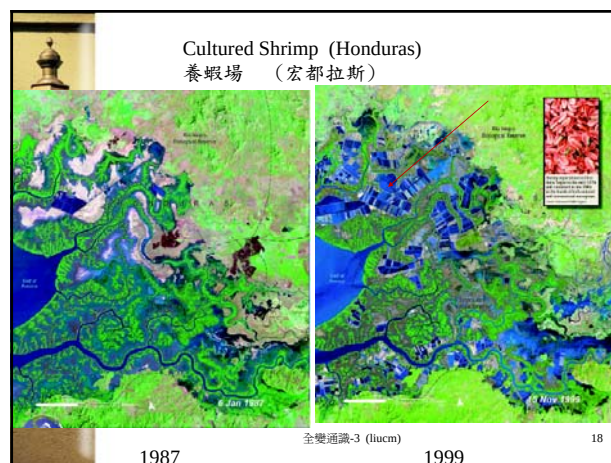
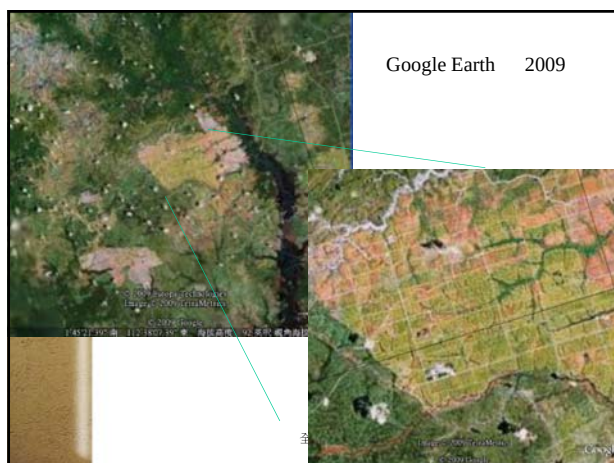
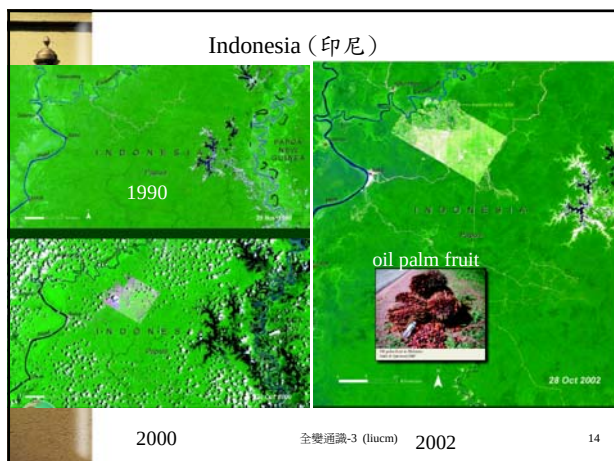
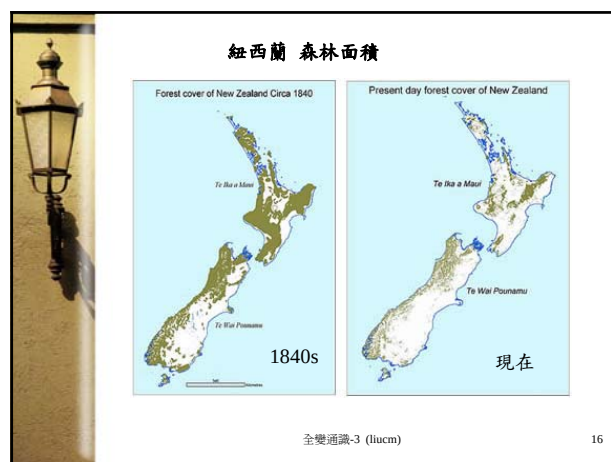
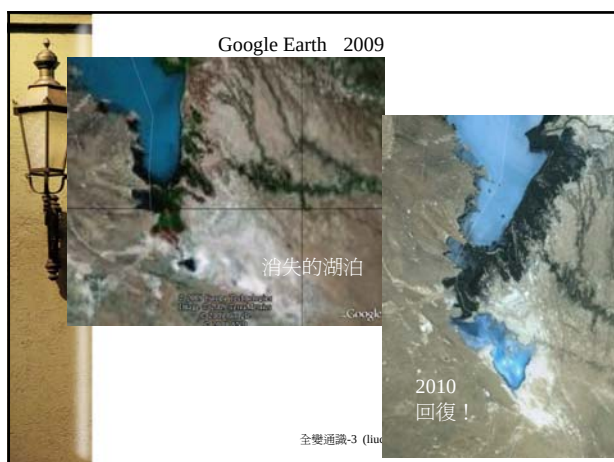
哈萨克 Lake Balkhash 巴爾喀什湖

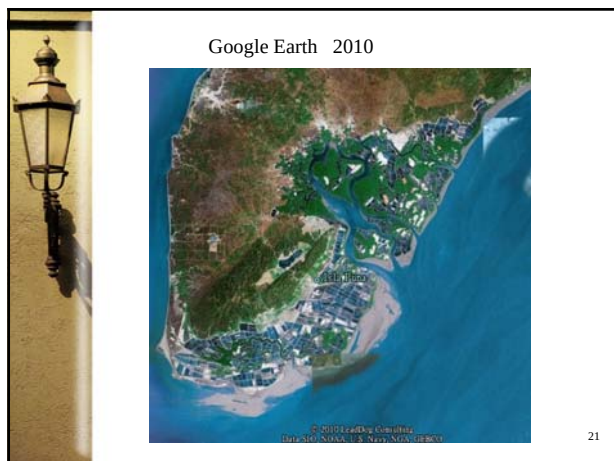
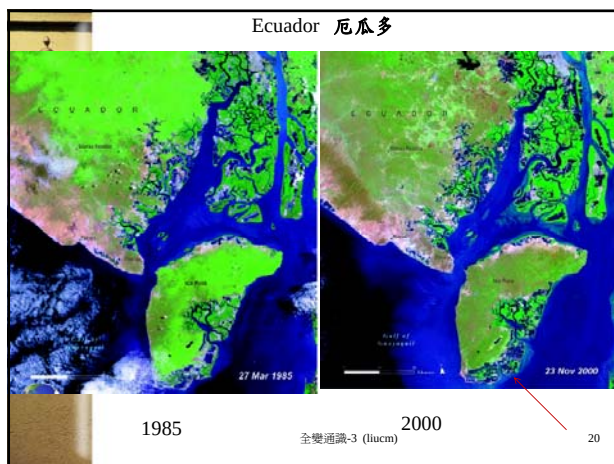
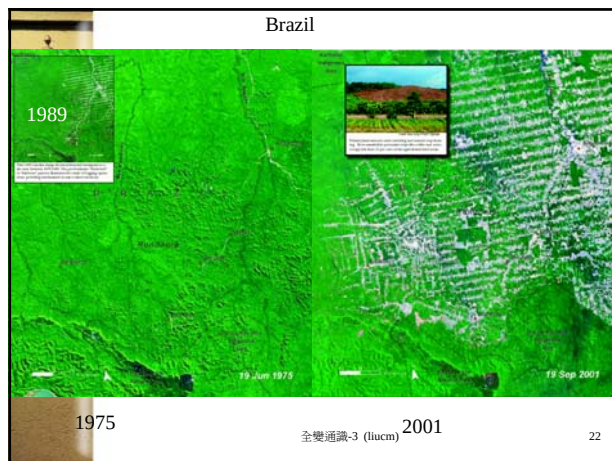


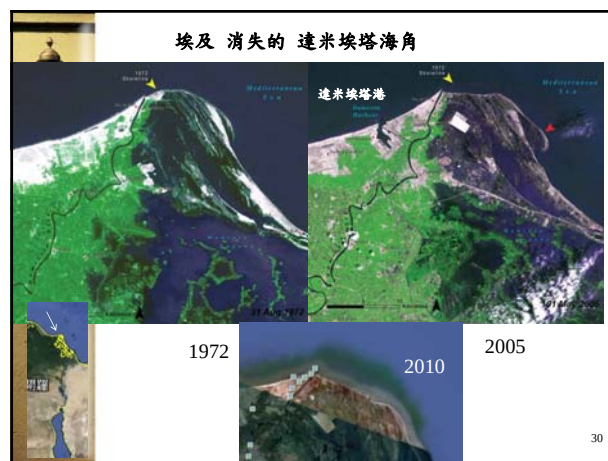
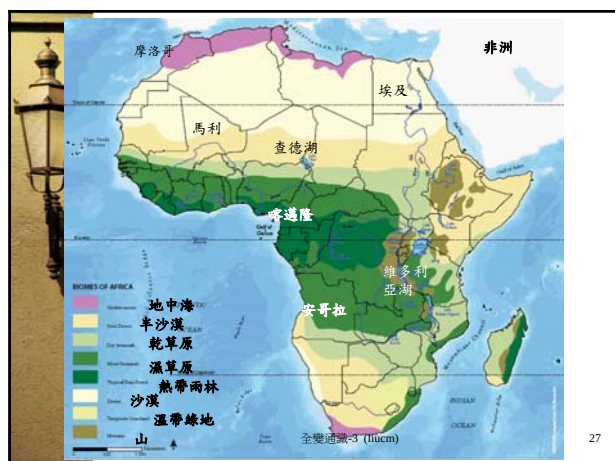
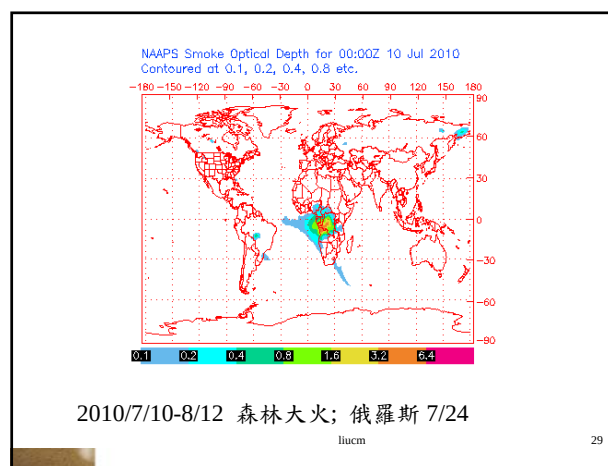
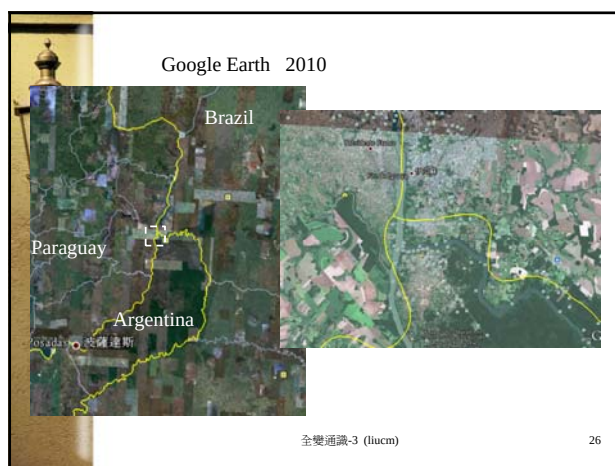
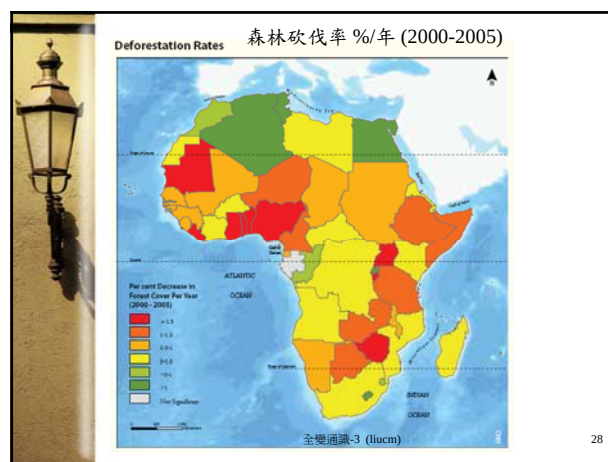
1979

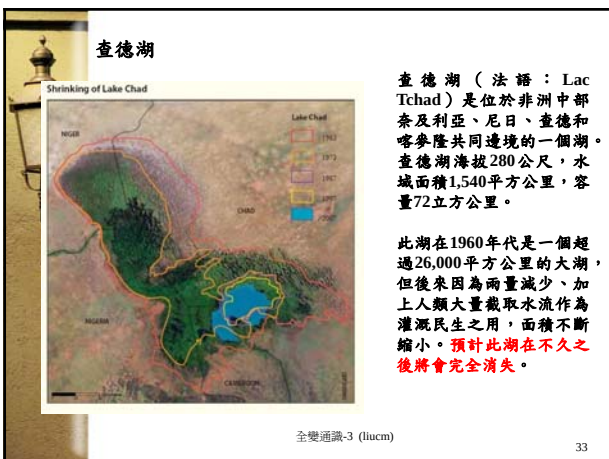
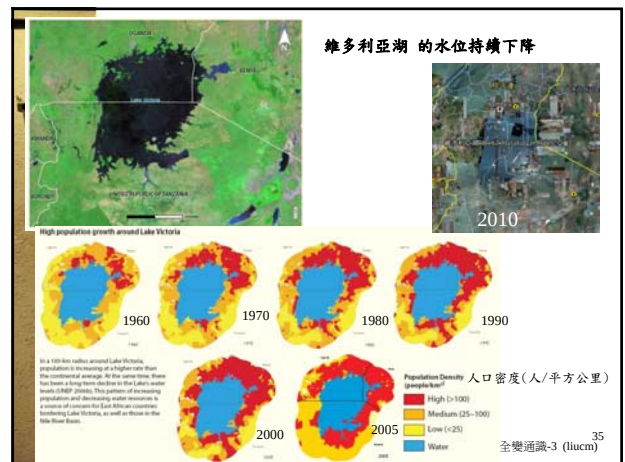
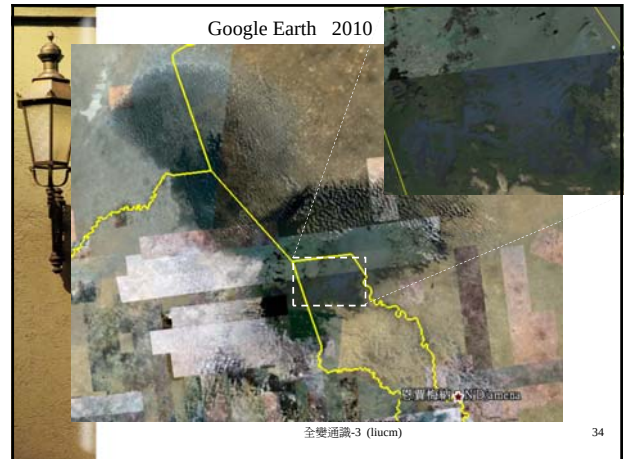
全變通識-3 (liucm) 2001

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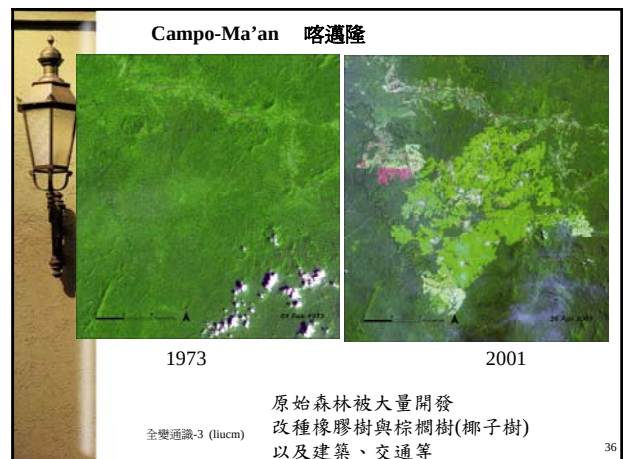


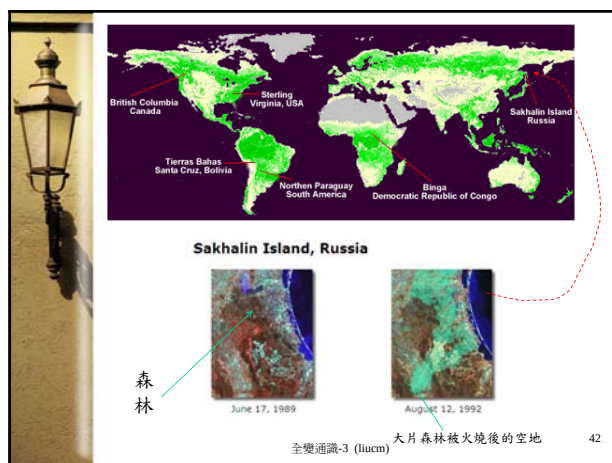
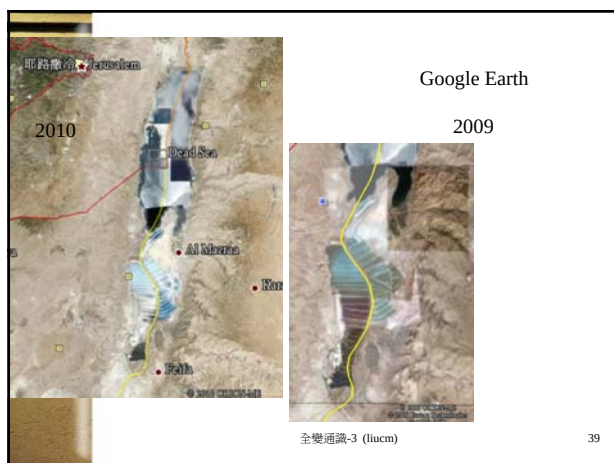
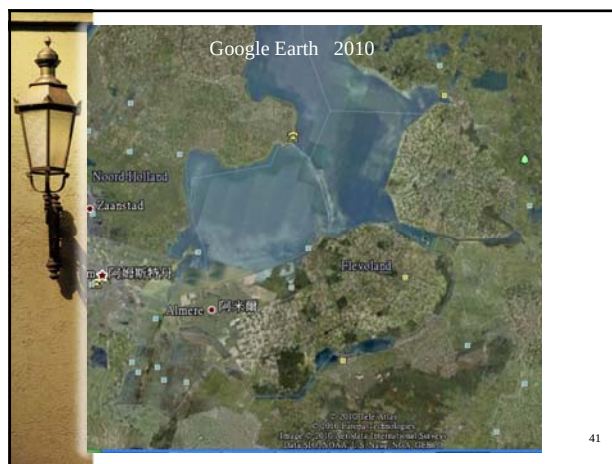
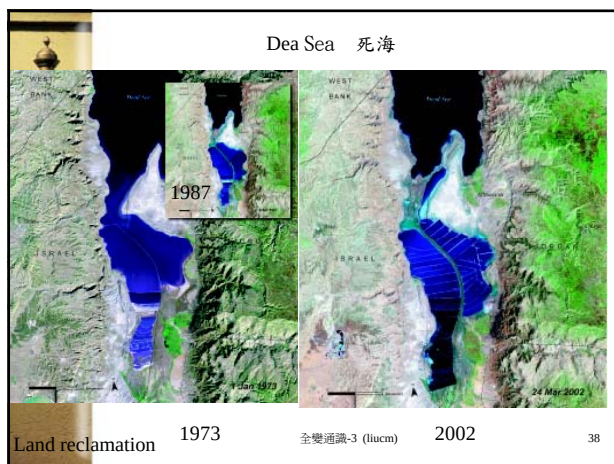
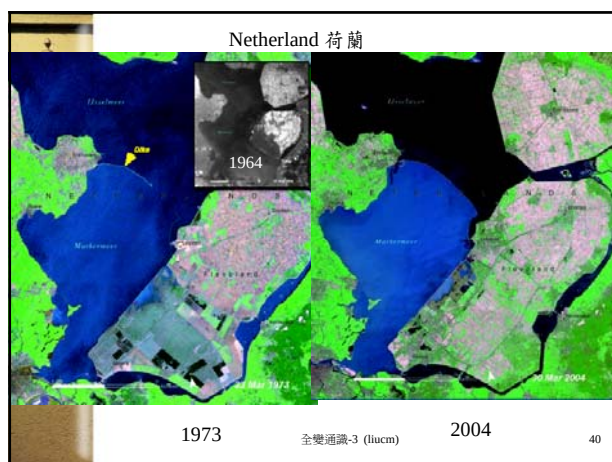
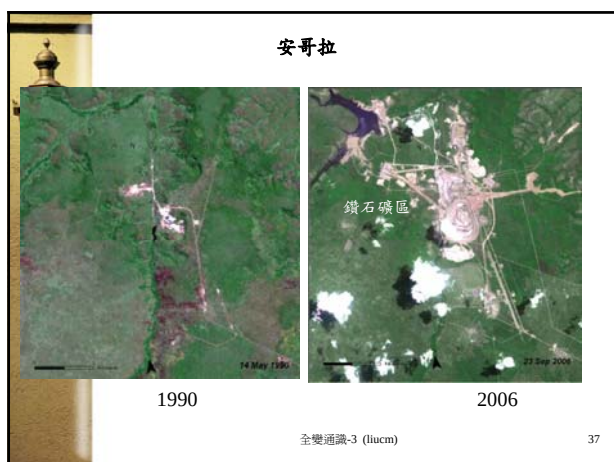




查德湖（法語：Lac Tchad）是位於非洲中部奈及利亞、尼日、查德和喀麥隆共同邊境的一個湖。查德湖海拔280公尺，水域面積1,540平方公里，容量72立方公里。

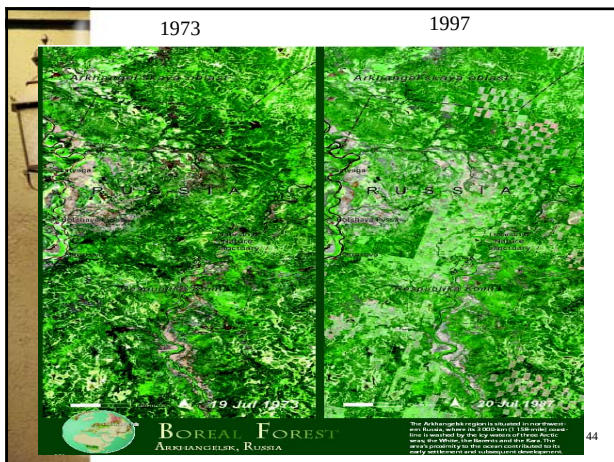
此湖在1960年代是一個超過26,000平方公里的大湖，但後來因為雨量減少、加上人類大量截取水流作為灌溉民生之用，面積不斷縮小。預計此湖在不久之後將會完全消失。







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全變通識-3 (liucm)

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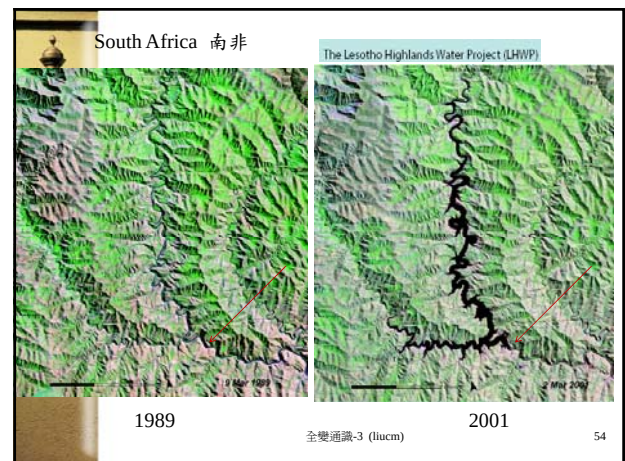
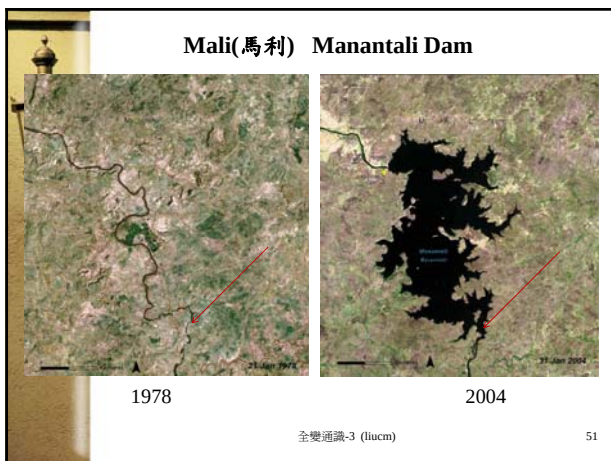
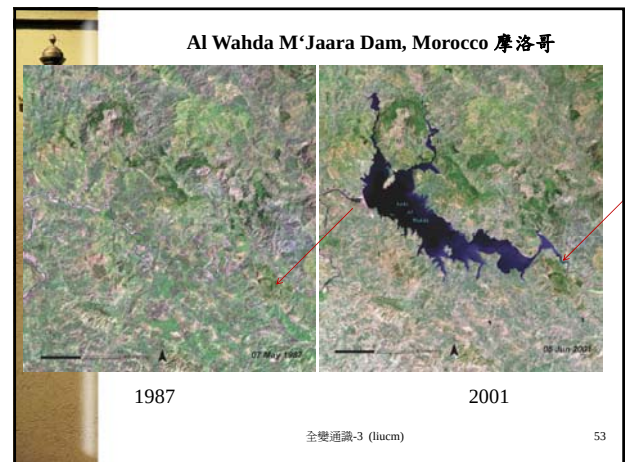
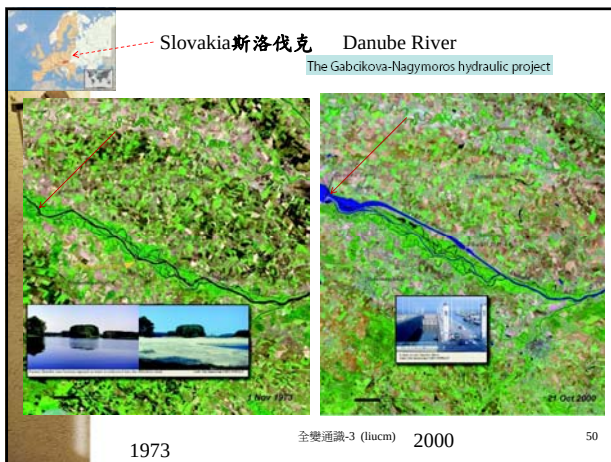
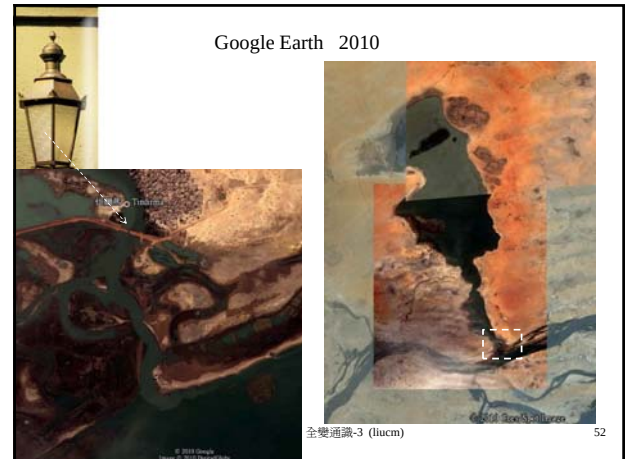


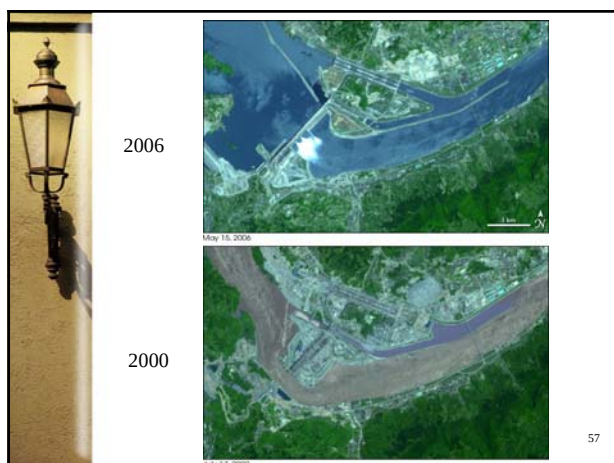
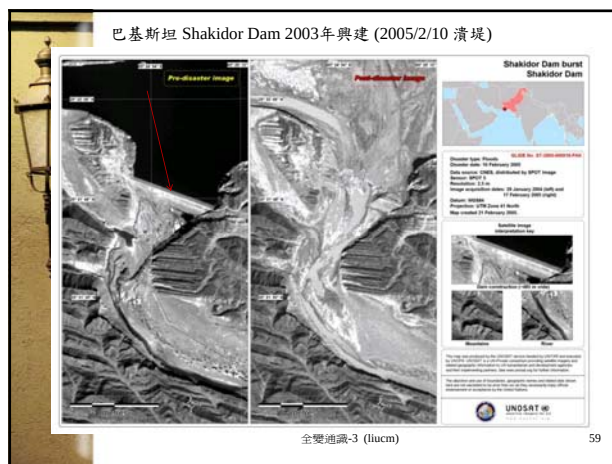
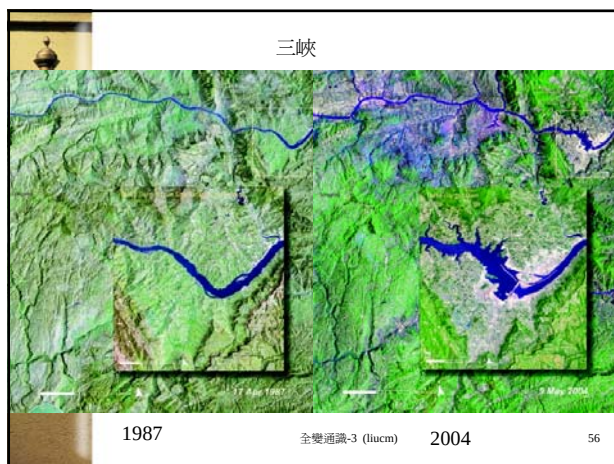
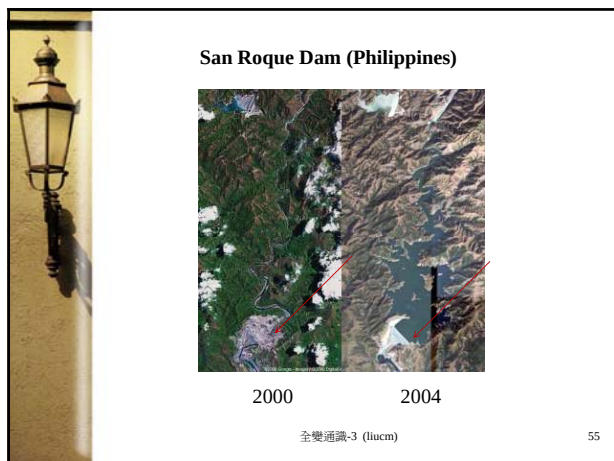
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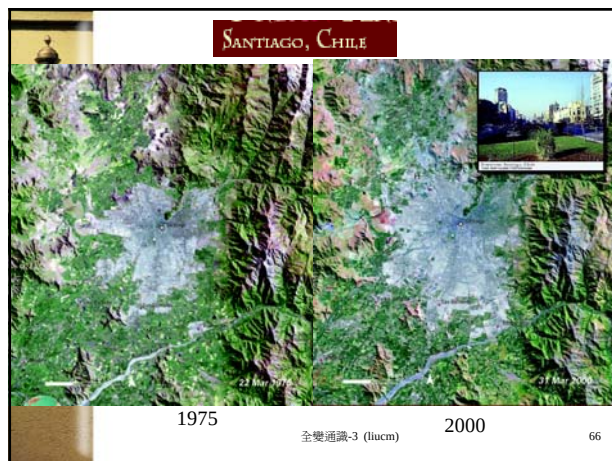
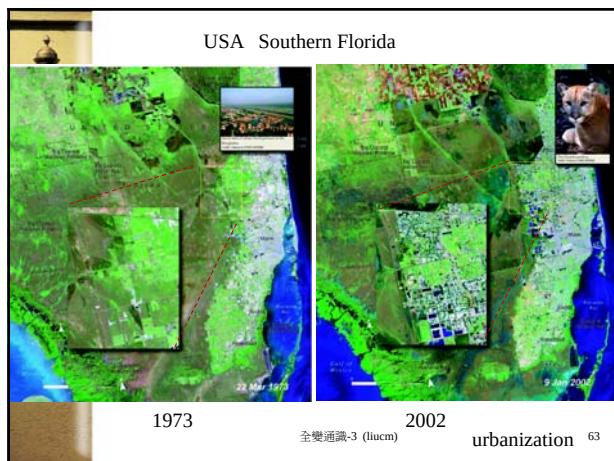
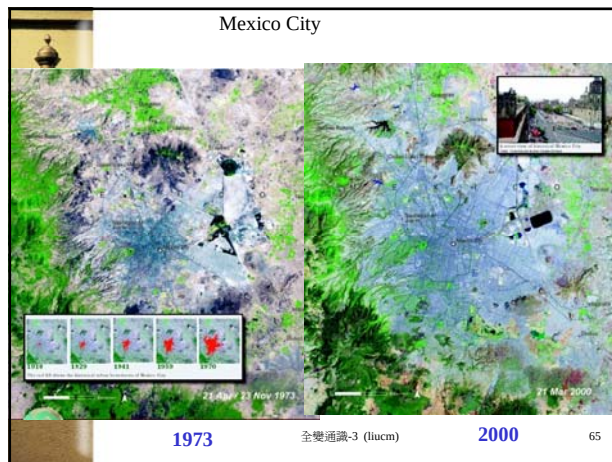
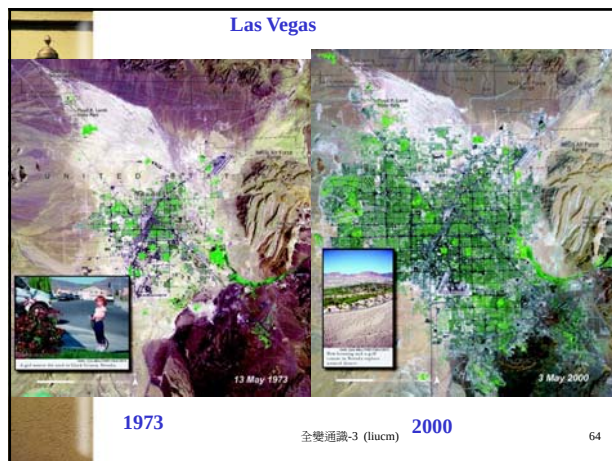
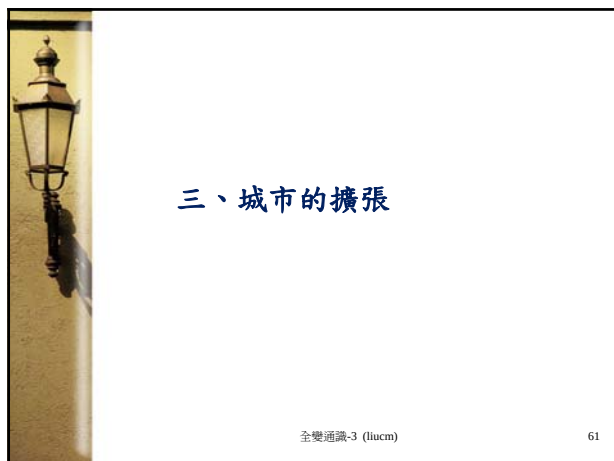


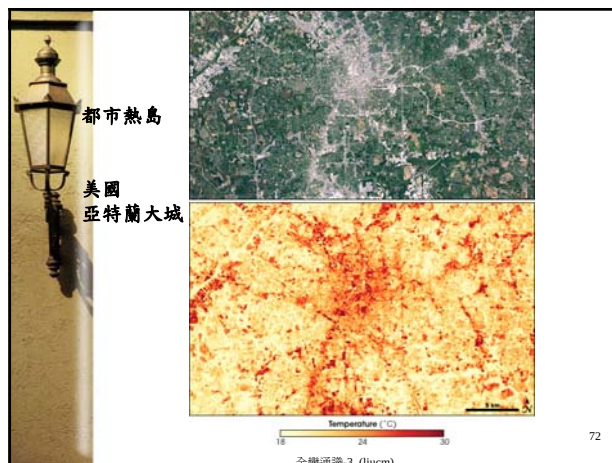
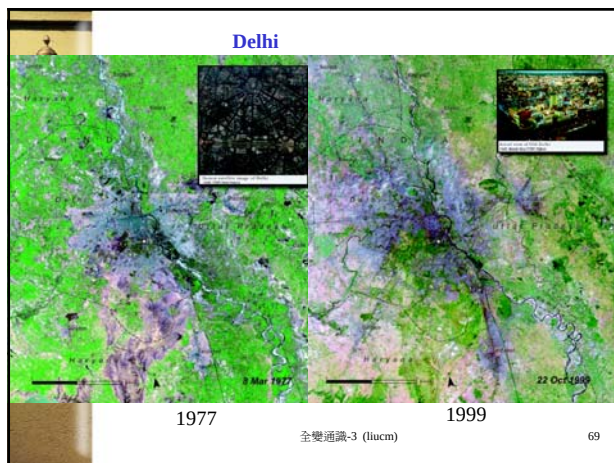
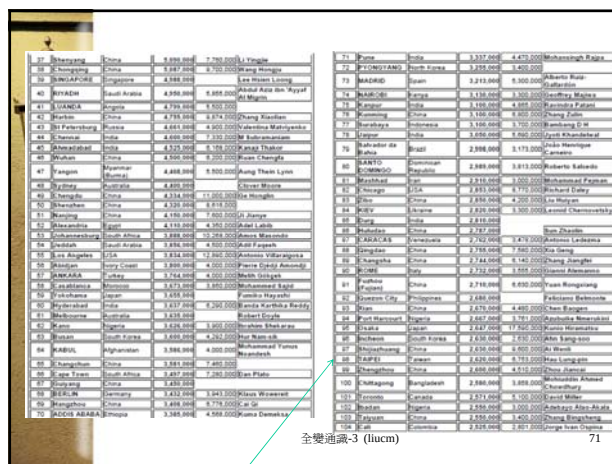
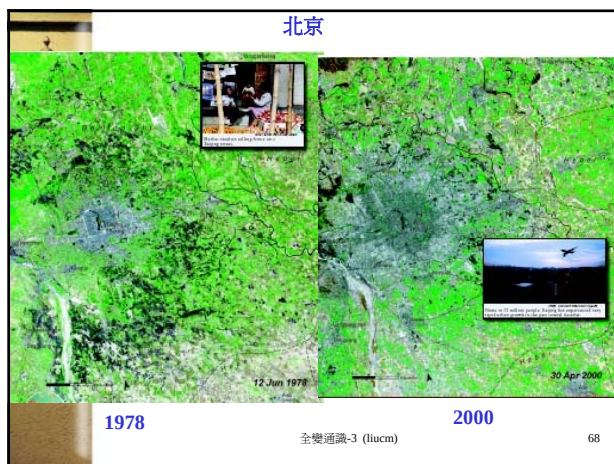
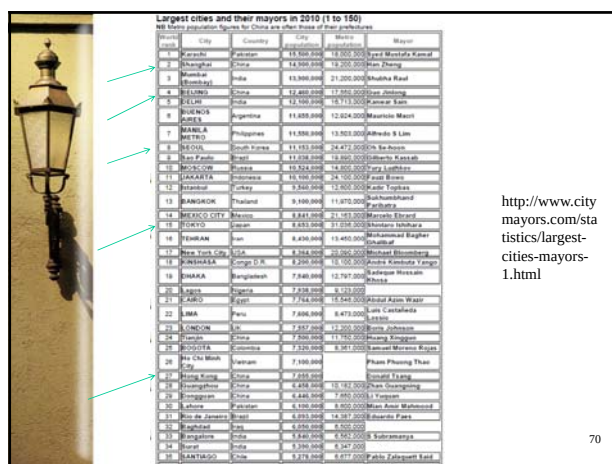
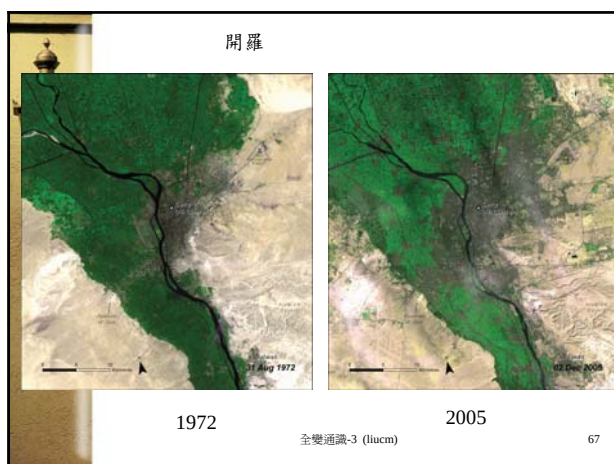
全變通識-3 (liucm)

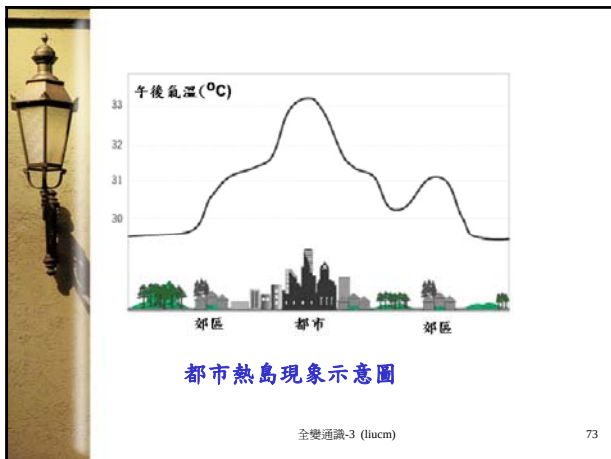
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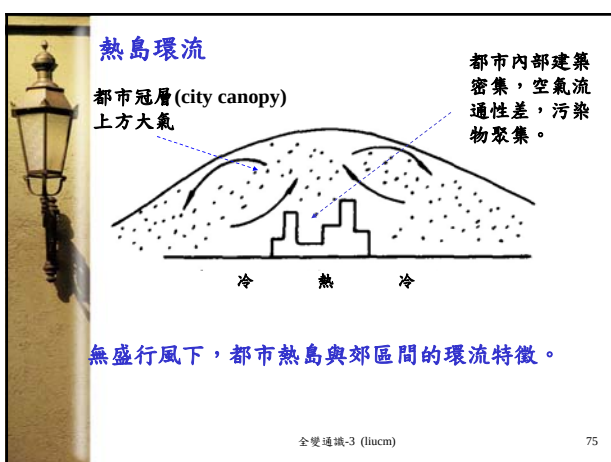






人口增加
人口集中
基礎建設需求增加
土地大幅改變(都市用地擴大)
空氣、水、土壤、垃圾污染……………
災難損失增加

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討論題綱：

(a)你知道台灣那個鄉鎮市的地貌正在變遷嗎？
(b)政府推動「平地造林」後的地貌變遷會是如何？

註：平時討論成績佔總成績的 40%：依每次參加分組(約五~六人一組)討論的過程與結論評分。

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