

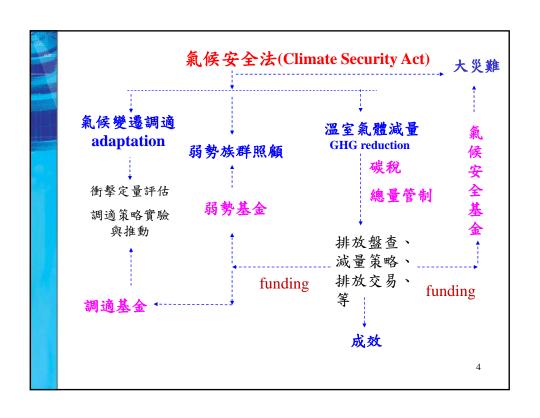
趨勢 (trend)

1.氣候暖化與極端氣象災難頻繁: Climate warming and frequent weather disaters

無法停止。unstoppable

2. 全球合作抑制溫室氣體排放: Global collaboration of the reduction of GHG emission

持續努力中,但暫無法預期新的議定書。 On going with no new protocol in sight.



I. 將每棟建築變成一顆樹 To construct a building as a tree.





將城市變成森林 To change a city into a forest.





所有降落至建物擁有空間內的兩,在達到法定極限前,不准流到此空間之外。 Before exceeding a regulated limit, rain water falling inside the property area has to remain within the area.

How?

在地面上挖一個滯洪湖 或 在地底建一個水庫 A detention pond or a underground water tank

早已在美國執行 Already so, in USA

颱風「凡那比」高雄淹水 Flooding by Fanapi in Kaohsiung



若全市所有地下室都變成臨時蓄水庫? Change basements into temporary water dams. 顯然不夠,因為地下室的蓄水量不足。Not enough! 所以,要以500公釐/日為極限標準,開始規劃地下水庫或建地滯洪池。 A new design about underground structure is needed.



透水鋪面兩水渗透率 permeability of permeable pavement:

at least 3000mm/day

碎石積水層 gravel water storage layer

可儲存量 potential storage: 2500mm/day

承重 200psi ~ heavier than a towing truck

每日車輛數~<30,000 cars/ day

至少四十年不整修 ~ no need for repaving for at least 40 years

非現在的透水水泥、透水柏油、透水磚等可承擔! Not any commercial permeable pavement can handle!