

# Green cities Indonesia

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# Introduction: Green city concept

## Examples by Niek Roozen



# The green city concept

Green improves the livability of urban surroundings and the well-being of citizens living there

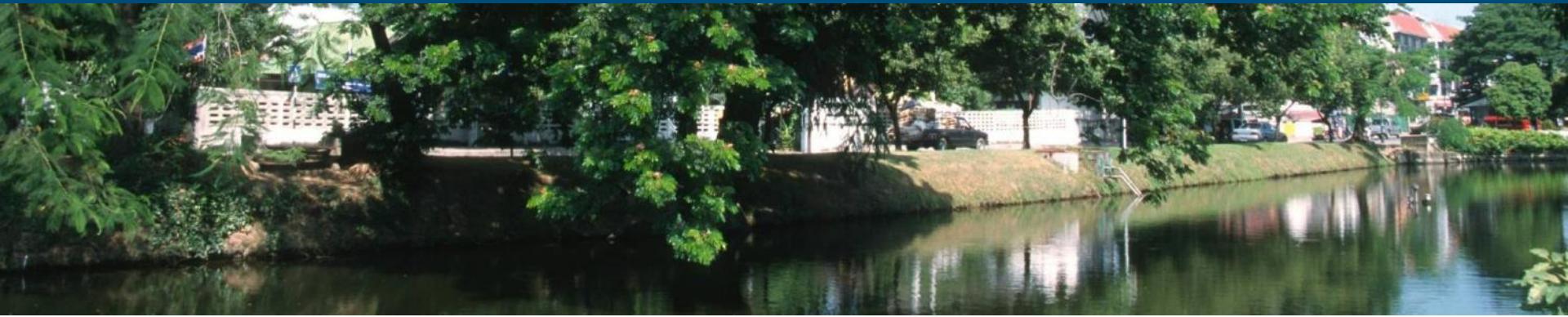




**50% of the entire population of the world lives in cities...**

# Making it work

- An integrated approach is necessary
- This is NOT a single assignment for the developer, architect, builder or landscape architect



# Traditional functions



Green architecture



Fragrance



Beauty



# Plants for culture and religion



# Green for social harmony

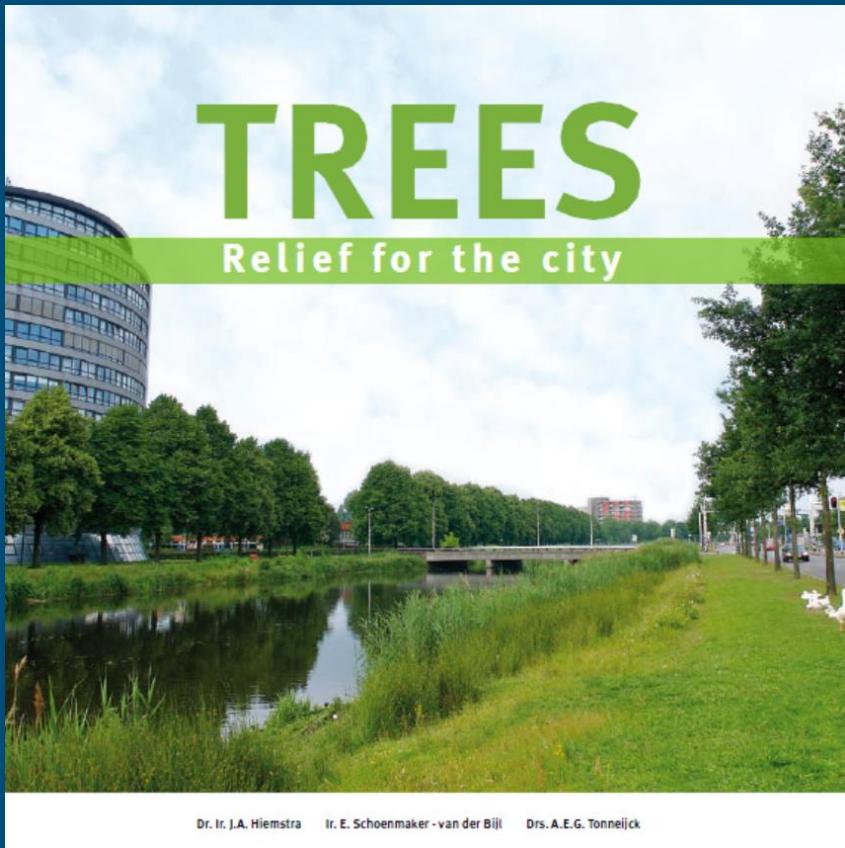


# Plants for aircleaning

(e.g. Particulate Matter, Nitrogen oxide, ozon)



# Brochures Europe & Thailand



# Green to fix CO<sub>2</sub>

(especially in woody parts of trees and shrubs)



# Plants for recreation





Green  
=  
Health



# Green and health

## Danish study

- 93% believes greenery affects mood and health positively;
- Short distance to green reduces stress;
- Short distance encourages higher use frequencies.



Green = money

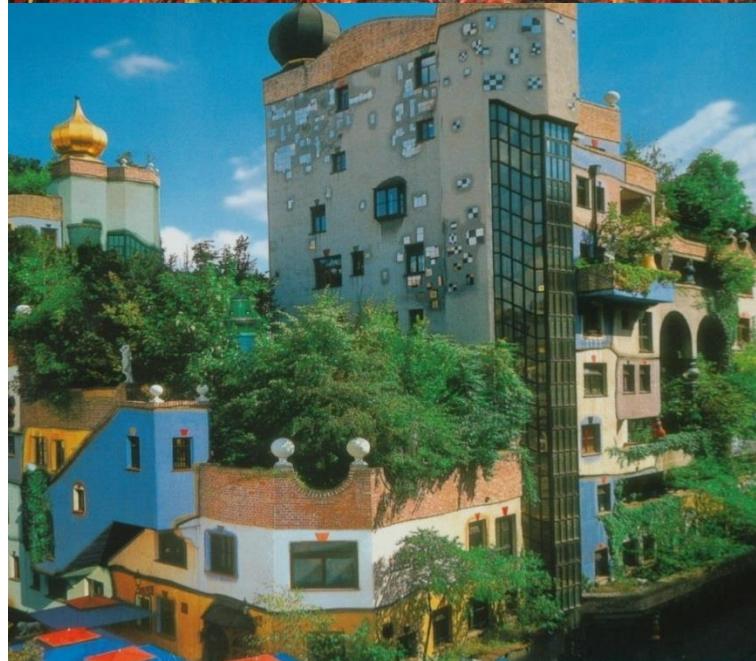


Green = money





Green  
=  
saving  
energy



>> isolation of buildings



Green  
=  
Water-  
retention



>> e.g. by green roofs and wadi's!



Green  
=  
Innovative  
architecture





Green  
=  
Bio-  
diversity



>> also opportunities for nature education!

# Dutch brochure



Biodiversiteit  
in tuin en plantsoen

Biodiversity in garden and urban green

# Care for monumental trees



# Thai brochure



WUR together with Chiang Mai University

# Green has economic value

- Project The Economics of Ecosystems and Biodiversity
- Benefits for society 1,5-2 times higher than costs
- Biodiversity not only a matter for biologists anymore!



# Economic benefits

In green cities:

- 15% less people with obesities : 100 million Euro
- Less anti-depressives: 8,6 million Euro
- 5% costs for care: 1,4 milliard Euro
- Less days in hospital with a green view: 780 million Euro
- More companies by increase of tourism: 428 million Euro

# Basic factors

- Good design
- Right choice of species
- Good management



# Thank you for your attention!

