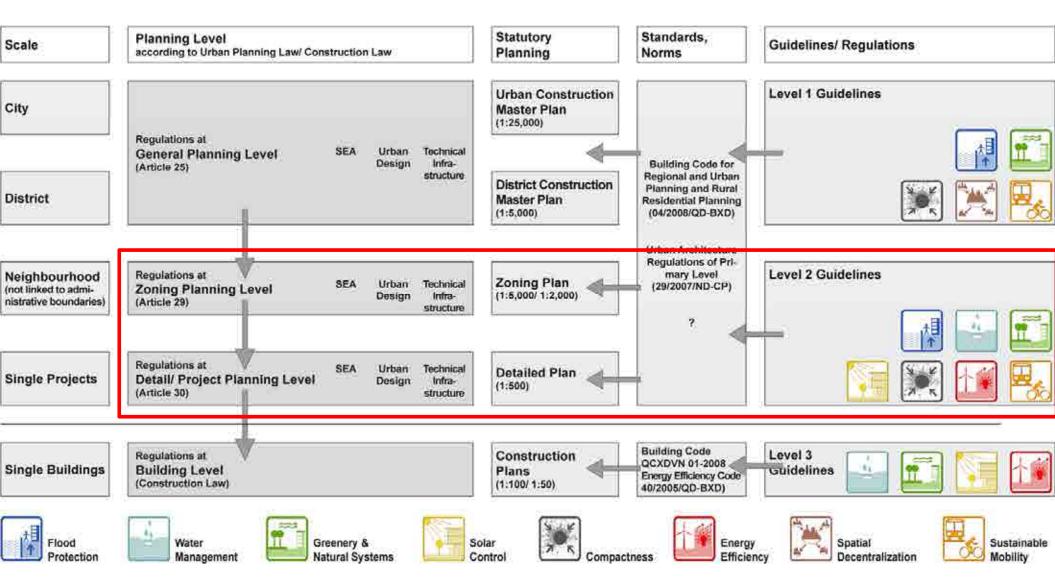


Integration of Climate Change Aspects into Urban Planning - Design Coding and Zoning -

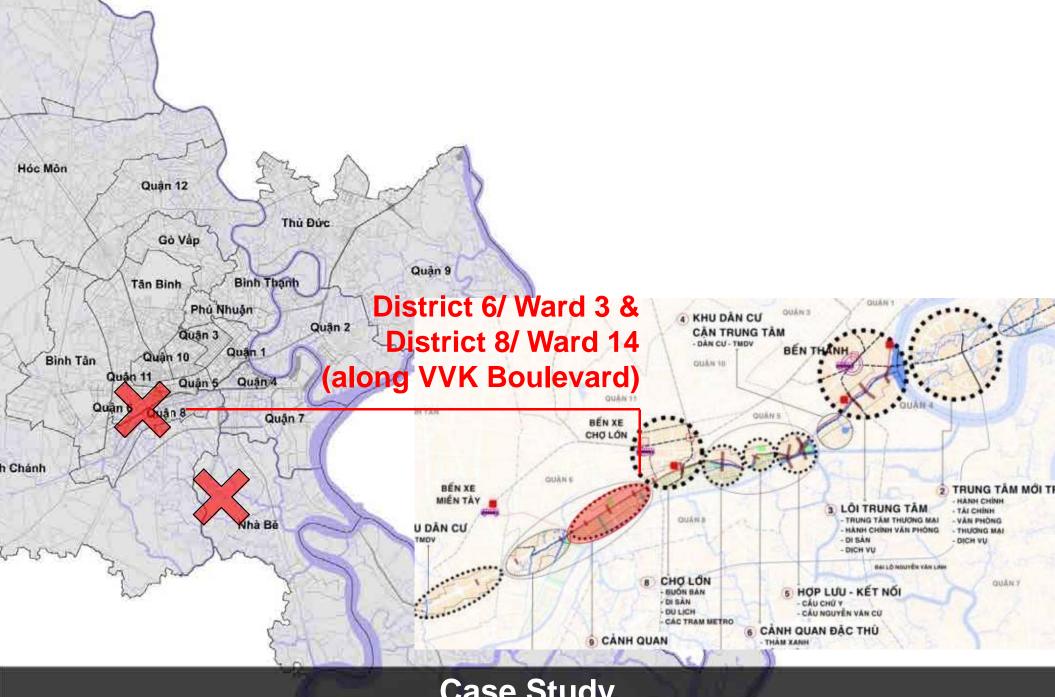
Ronald Eckert, Dept. of Urban Planning, University of Cottbus



2. DPA – Megacity Roundtable HCMC Department of Planning and Architecture 15. March 2012 | TP Ho Chi Minh



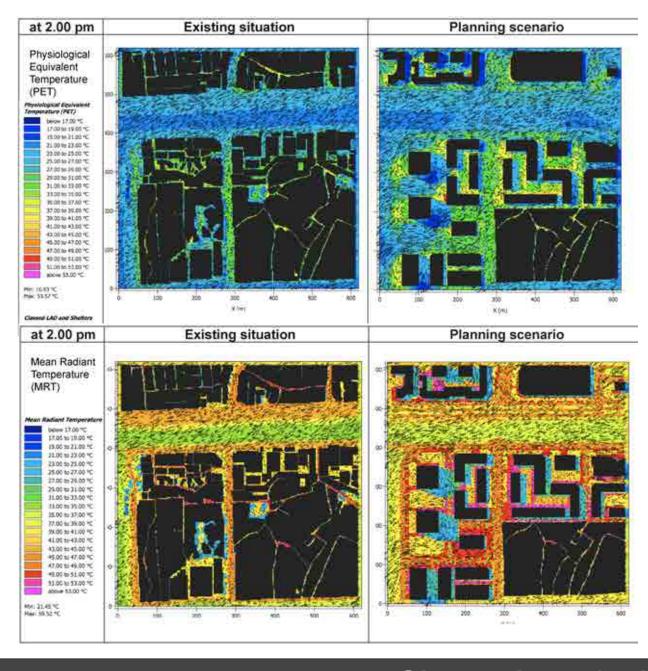
Integration of Design Principles for Climate Change Adaptation into Urban Development Projects



Case Study
Redevelopment of a Climate-Sensitive Inner-City Area



Design Proposals for a Redevelopment and Increase of Land Utilization along VVK Boulevard



- Assessment of Environmental and Climate Change Impacts is required
- Link to SEA & Climate Proofing

Exemplary Simulation of Micro-Climate (Existing Situation & Urban Design Proposal)

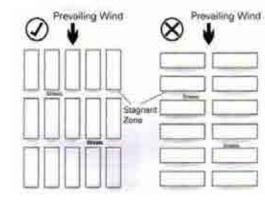
Problem

Low ventilation/ Blocking of winds

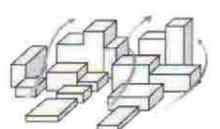


Solutions

Adjust the orientations of buildings and streets

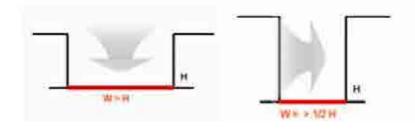


Varify building heights



Adjust distances between buildings

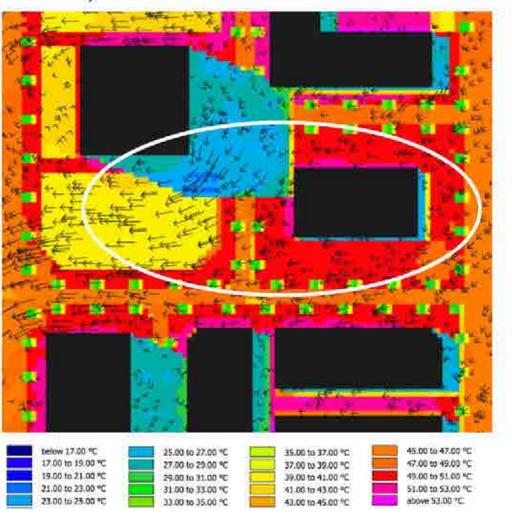




Drawing Recommendations/ Requirements for Urban Design Example: Orientation of Buildings

Problem

Uses of materials (building and pavement materials)

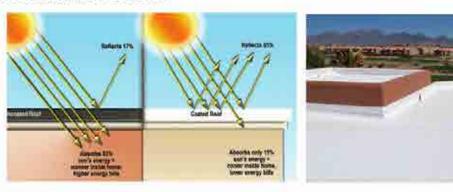


Solutions

Use bright and permeable pavements

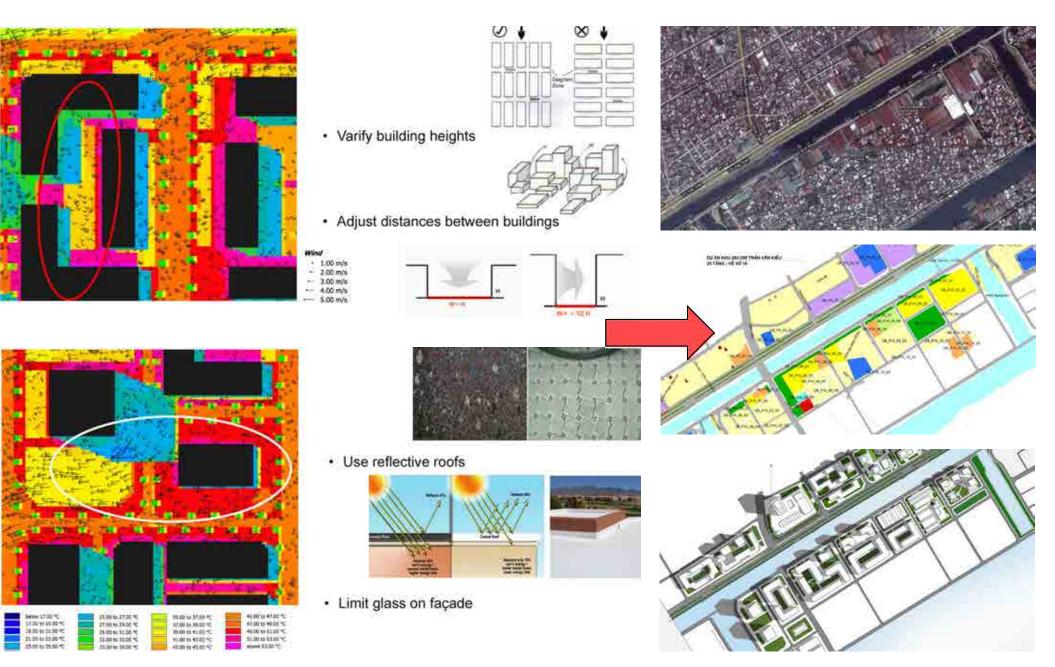


Use reflective roofs

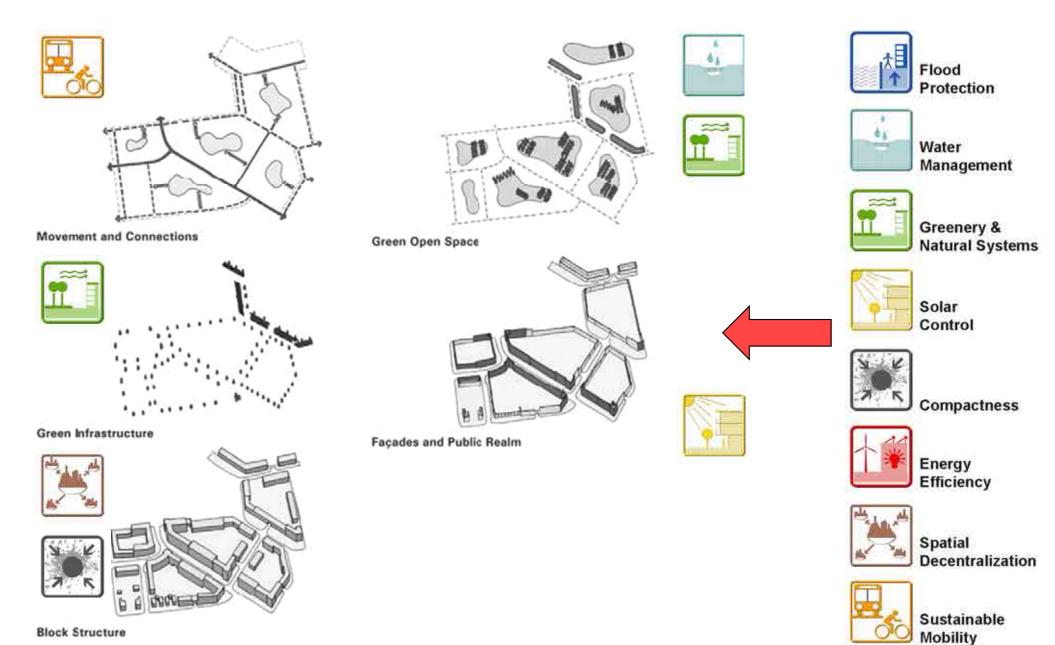


· Limit glass on façade

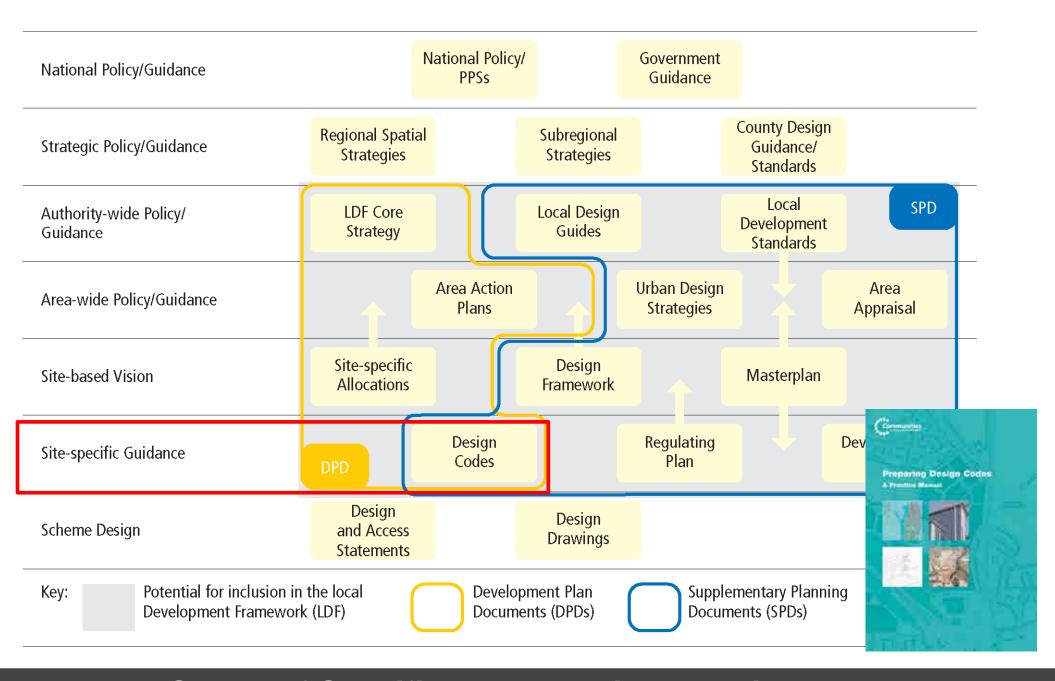
Drawing Recommendations/ Requirements for Urban Design Example: Use of Pavement Materials



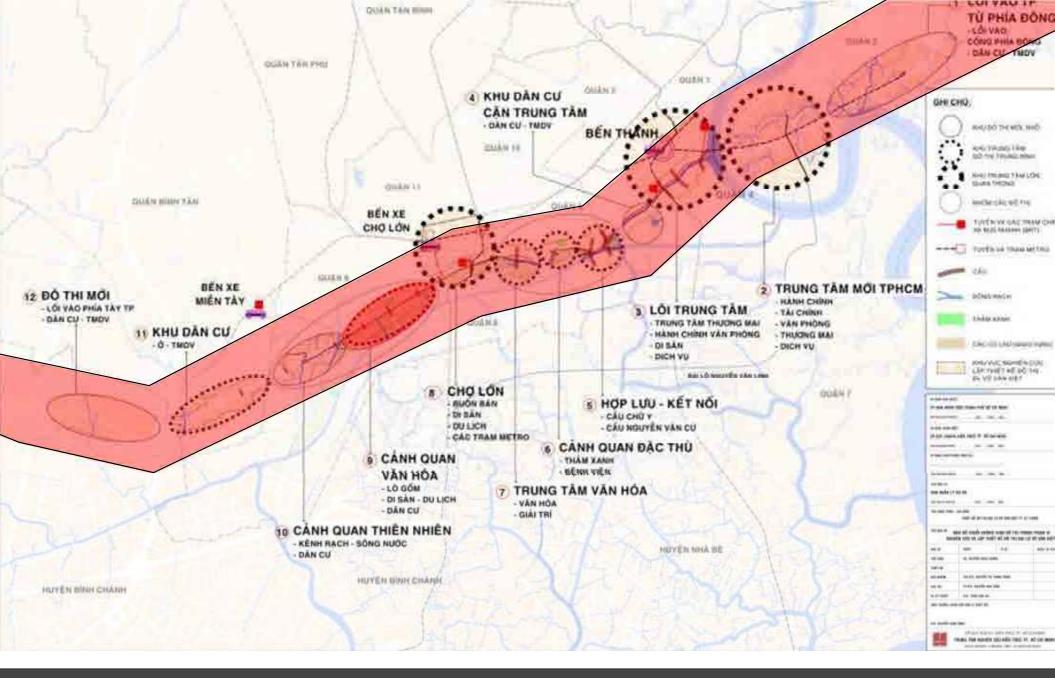
Effective Implementation into Development Project through Formal/ Regulatory Instruments?



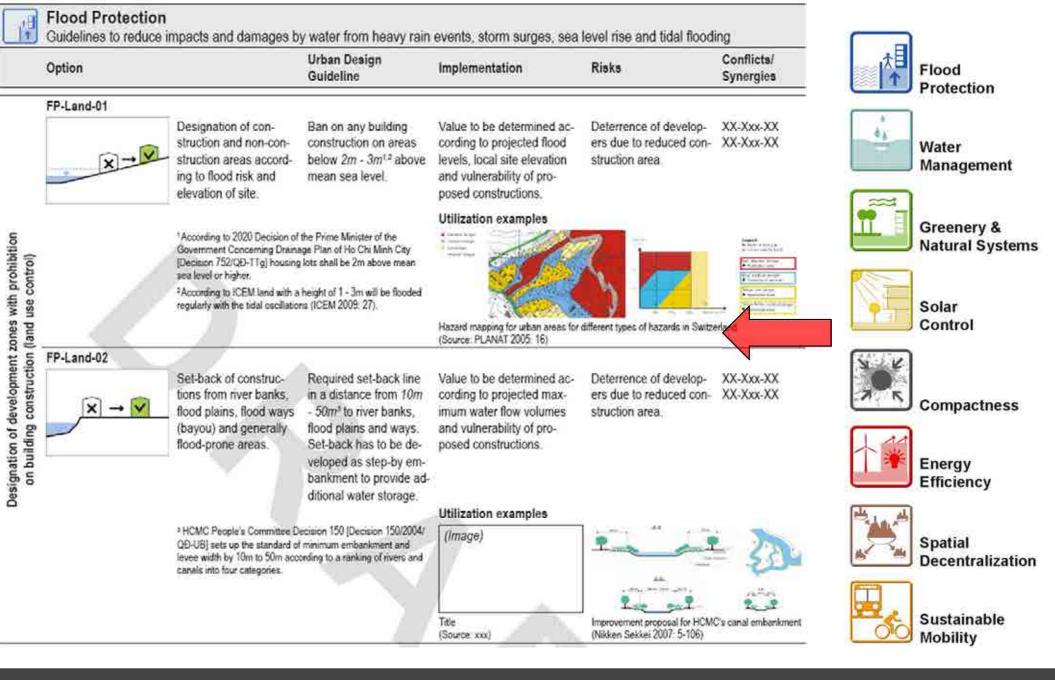
Option – Design Coding



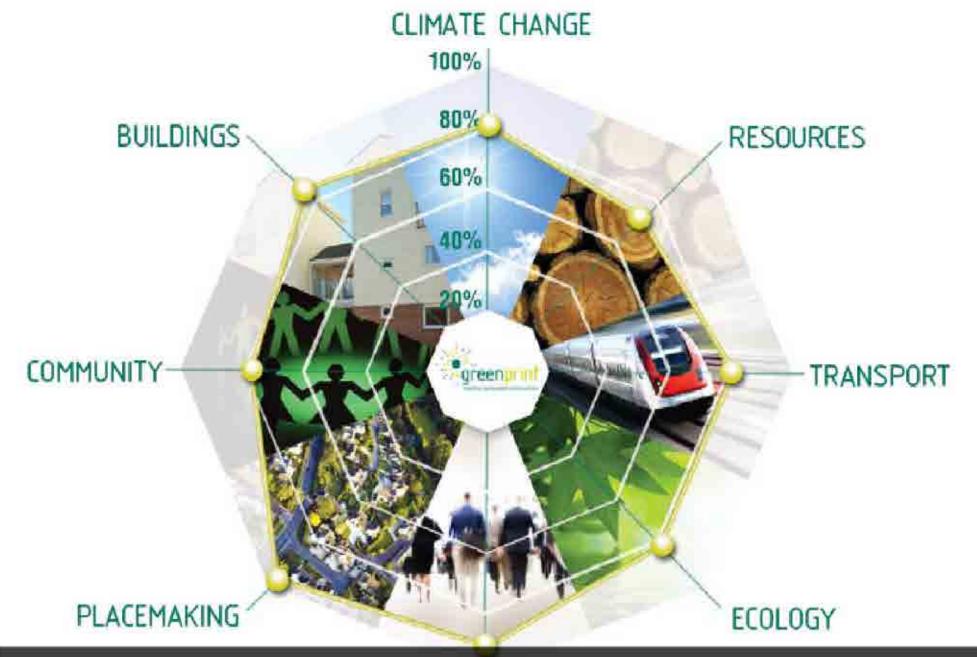
Set-up of Specific Urban Design Requirements (Mandatory for a single Developer/ Project)



Option – Zoning



Set-up of Area-wise Urban Design Requirements (Mandatory for a all Projects within a Zone)



Thank You for Your Attention!

BUSINESS