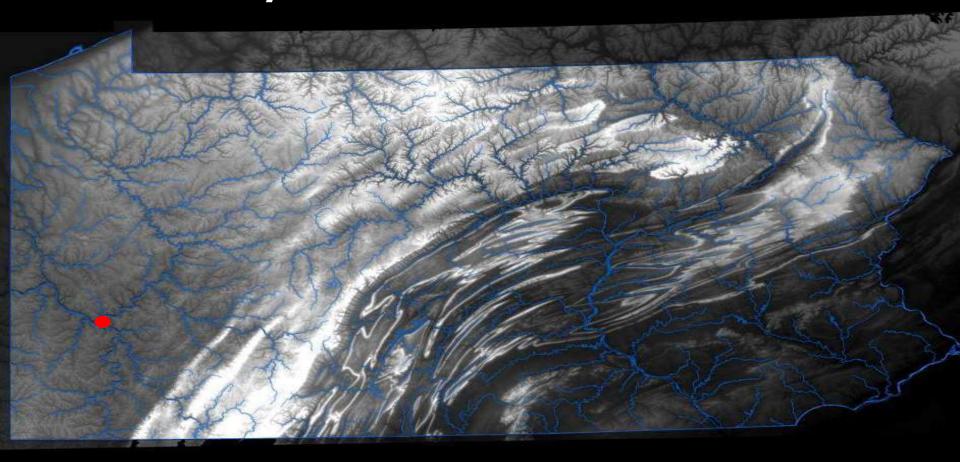


SHAPING LIVEABLE CITIES THE ART TO INTEGRATE BLUE, GREEN AND SOCIAL

COPENHAGEN, 20.03.2015

RAMBOLL

Water is everywhere before it is somewhere ...

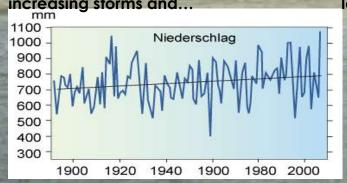


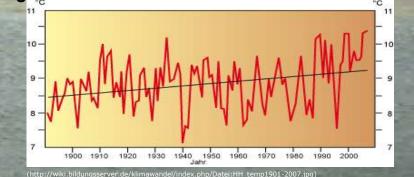


The Current Challenges

- 1. Climate change
- 2. Traditional growing cities with increasing hard covered surfaces
- 3. Limited capacities of drainage facilities, economic limits for upgrading

Hamburg's Statstics on Climate Changee for green areas and open water increasing storms and... longer dry and warm seasons





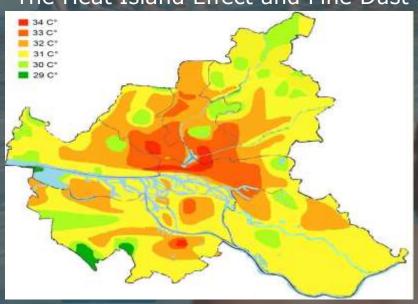
(http://wiki.bildungsserver.de/klimawandel/index.php/Datei:HH prec.jpg)



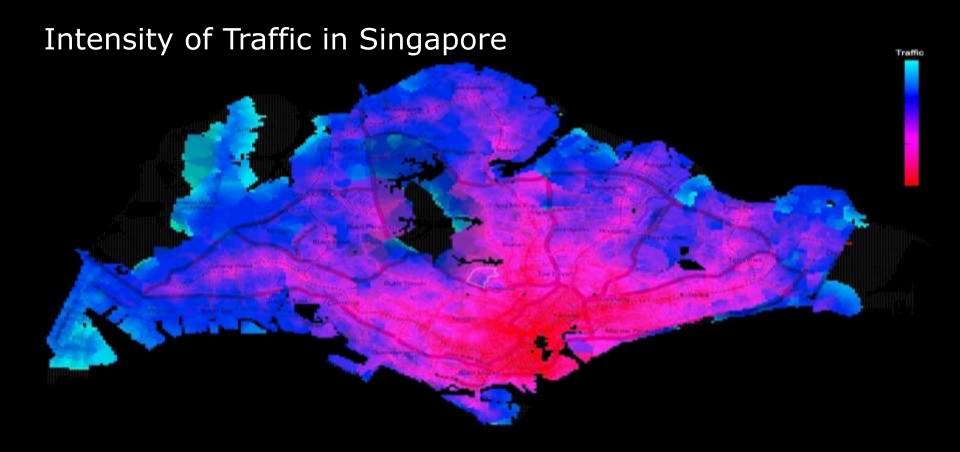
Climate change and its consequences

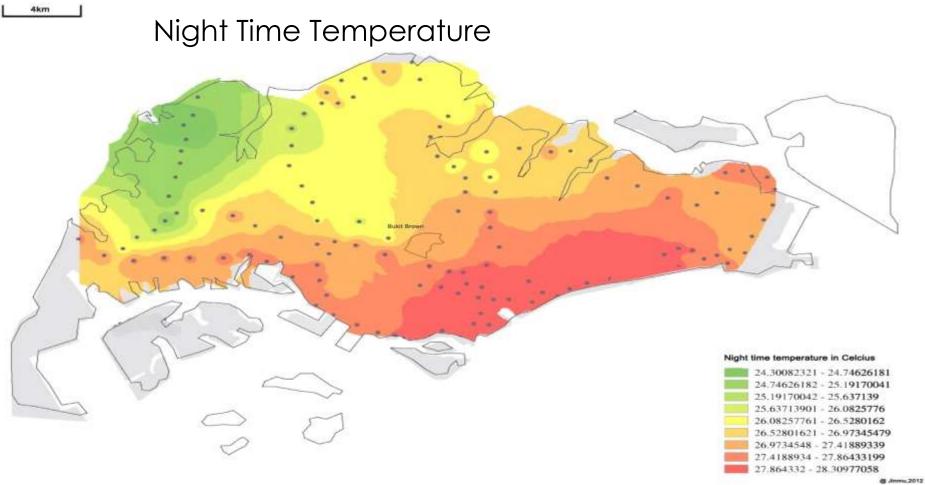
OVERHEATING AND DUST

The Heat Island Effect and Fine Dust stress the Health of citizens







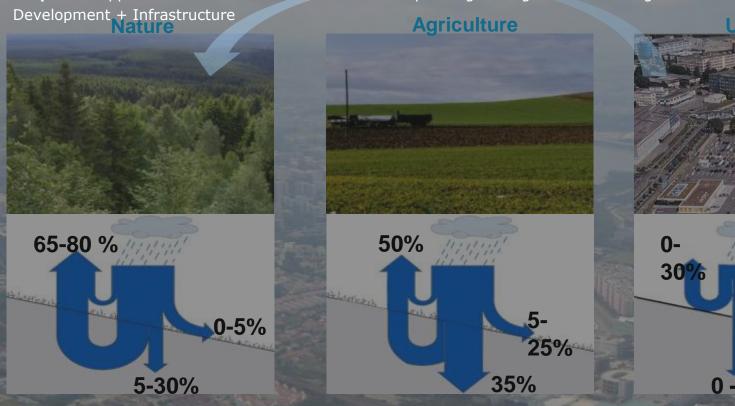


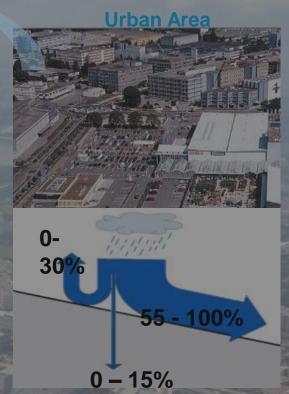




Water Sensitive Urban Design

Step 1: To approach REPLATRING - Stap En URBANNeW ATERBALANCE





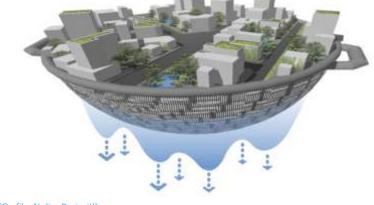
Water Sensitive Urban Design INTEGRATION OF STORMWATER MANAGEMENT EXAMPLE OF HAMBURG, GERMANY | RISA Program

STATUS:



END OF PIPE SOLUTION **ELIMINATION OF WATER**

GOAL:



INTEGRATIVE SOLUTION **WATER AS A TREASURE** Our Infrastructures today form all Cityscapes, the Waterscapes and Landscapes.

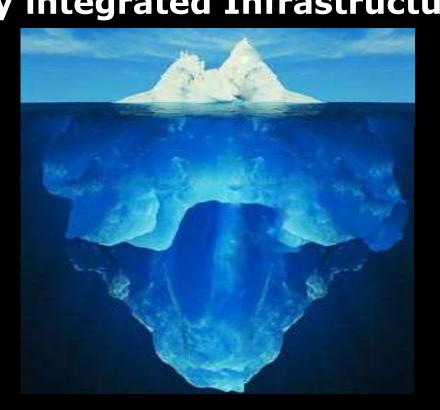
Their Influence on Environment, Climate, Lifequality...

How to create consensus and site responsive? Green, Blue and Socially integrated Infrastructure?

Visual Architectural

Environmentally Intelligent Infrastructures

Energy and Resource Management / Protection



Cultural Sensitive Diversity and a deep rooted Genius Loci











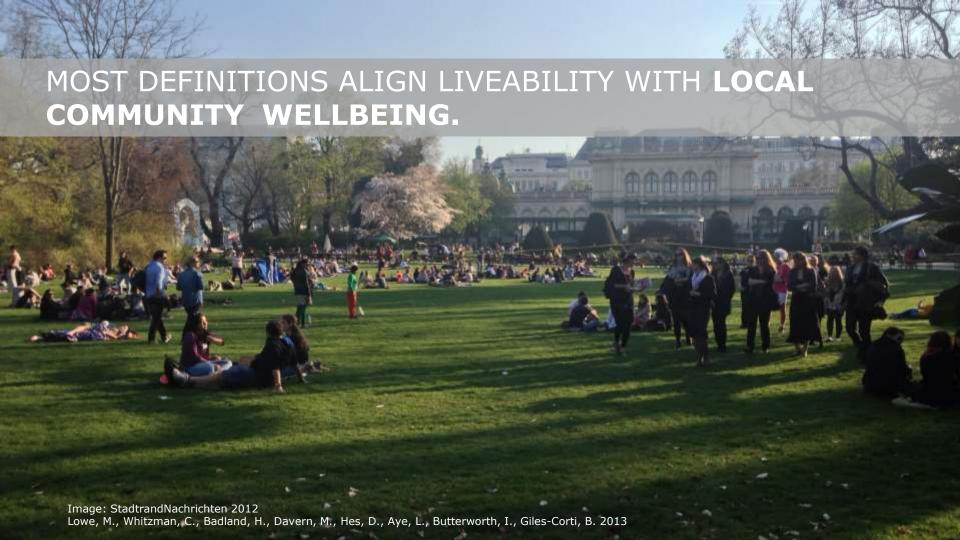


World EXPO 2000











STRONG **SOCIAL NETWORKS** REGARDLESS OF CITIZENS BEING RICH OR POOR AND THE GUARANTEE TO BE **SUPPORTED BY THE NEIGHBOURS** ARE REGARDED AS ONE OF THE **MOST IMPORTANT ASPECTS OF LIVEABILITY**.

LIVEABILITY ALSO APPEARS TO BE PRIMARILY CONCERNED WITH THE **PHYSICAL ATTRIBUTES** OF A PARTICULAR LOCATION.





THERE IS A **CULTURAL DIMENSION** TO LIVEABILITY, CONCERNING HOW PEOPLE ARE **EDUCATED AND ROOTED IN THEIR TRADITION**.









THE SUBJECTIVE AND RELATIVE NATURE OF THE TERM VARY BETWEEN GROUPS AND INDIVIDUALS ACCORDING TO DIFFERENT AND SHIFTING PERCEPTIONS, VALUES AND DESIRES.





PORTLAND/OREGON TANNER SPRINGS PARK







PUBLIC INVOLVEMENT











Portland, Oregon, USA The new Pearl District 2004

RAMBOLL

ART AS INSPIRATION









SINGAPORE BISHAN-ANG MO KIO PARK





LOCATION PLAN



FACT SHEET

Design: 2008-2010 Construction: 2009-2012 Area: 63ha / 155 acres concrete drain channel:

2.7km

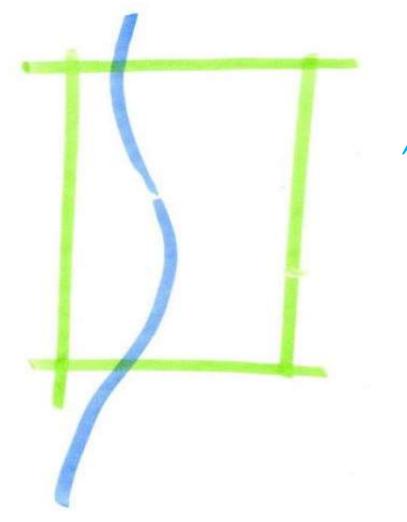
Natural river: 3.0km

Clients: Public Utilities Board (PUB)

National Parks Board

(NParks)





"To integrate the **river** with the **park** via a holistic sustainable approach that will engage the public and engender a sense of ownership and appreciation for our water resources".















Observation Pods / Canopy Walk

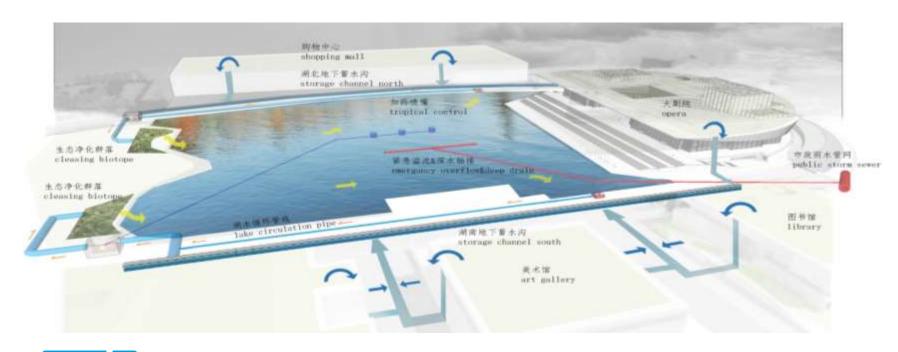
TIANJIN CULTURAL PARK Tianjin, China





LITANG CULTURAL PARK

Tianjin, China









Thank You