Integrated policy making on quiet urban areas
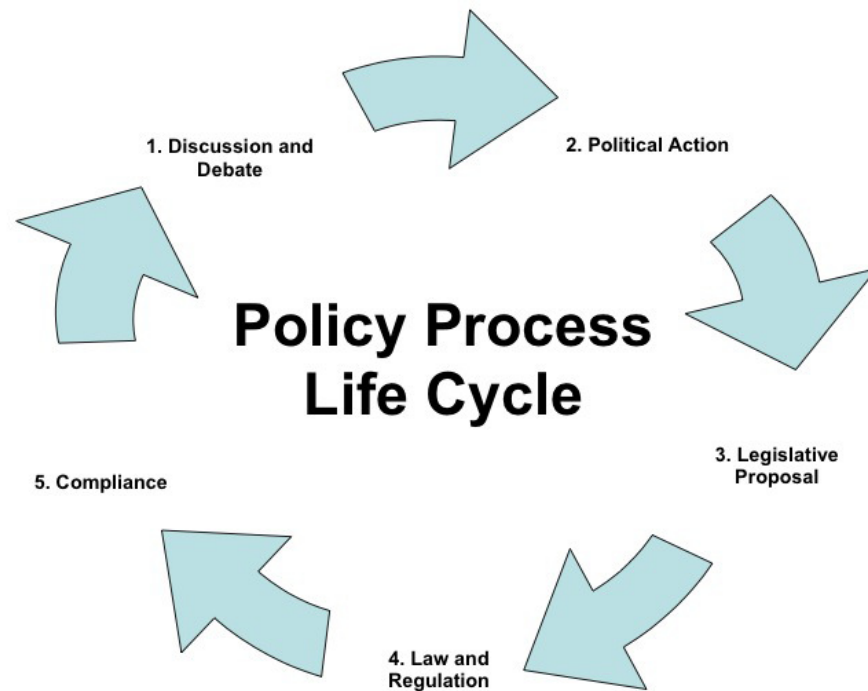## Miriam Weber Ph.D

Content

- Policy, politics, politicians
- Policy effectiveness and instrument mixes
- It's all about framing…
- Resilient cities
- Policy integration
- Inspiration: examples of Rotterdam initiatives

Policy, politics, politicians

Policy Process Life Cycle

1. Discussion and Debate
2. Political Action
3. Legislative Proposal
4. Law and Regulation
5. Compliance

Policy Process Life Cycle

Awareness Raising — Problem Definition — Identification of Options — Policy Selection — Implementation — Evaluation

Policy problem framing (1)

- Noise = annoyance and sleep disturbance
- Needed action: limit noise exposure on dwellings
- Selected instruments:
  - National legislation (spatial planning)
  - EU legislation (immission limits (certain) noise sources)
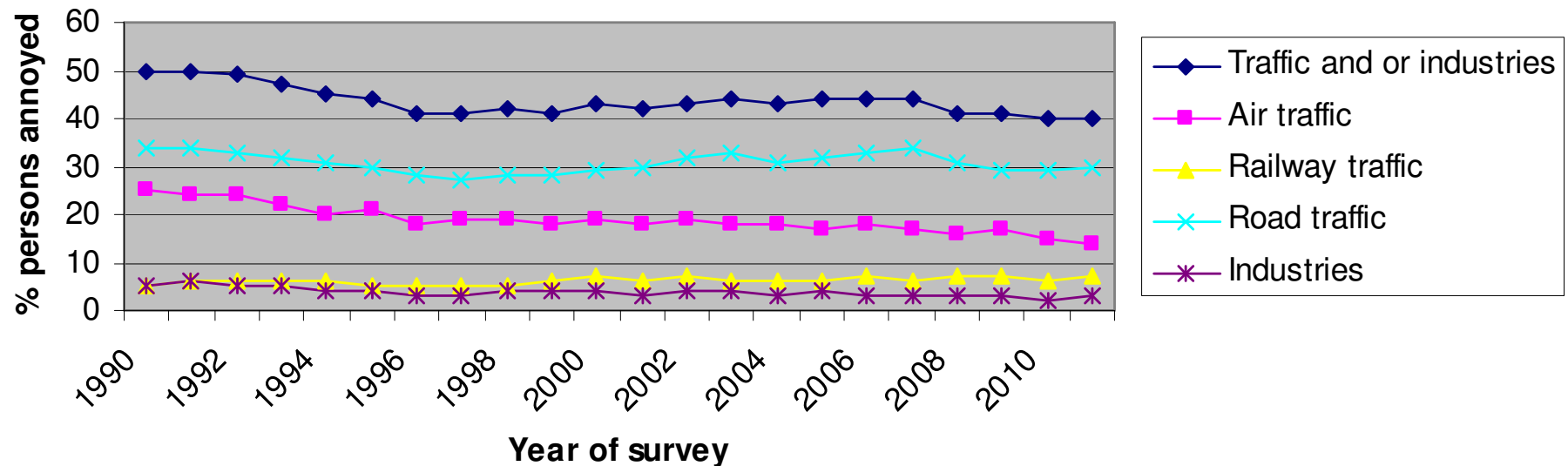 - END (mapping, action planning, and………)

Policy problem framing (2)

- **END (cont.)…….protection of areas where the acoustic environment is good**

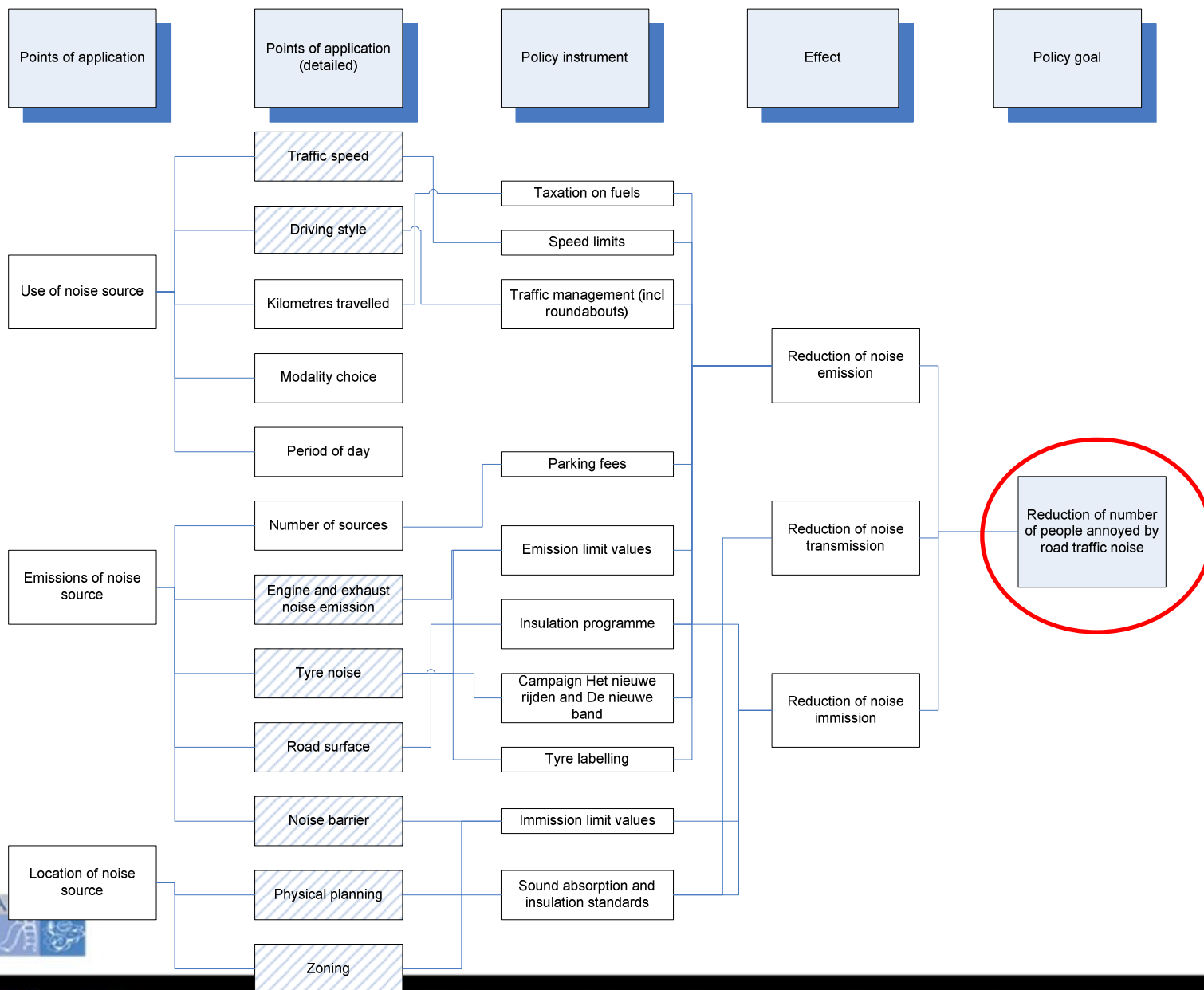- **Noise = soundscape = perceived acoustic quality / appreciation by humans**

Picture: Organ of Corti near St. Paul's Cathedral London

Policy effectiveness and instrument mixes

Trends in noise annoyance in the Netherlands

It's all about framing….

It's all about framing......

TABLE I. Listener state, typical activity...

Listener state

In search

In reading

Listening

quiet façade

quiet area

..., watching TV...

Park, street, square, market, shops...

Kitchen, restaurant, bathroom...

Library, classroom, bedroom, living room...

Urban use

Current policy

Soundscape design

Noise and soundscape

Noise control

Sources: Andringa et al. (2013), RIVM (2013), and www.qside.eu

Resilient cities*

Urban resilience

is the capacity of **individuals**, **communities**, **institutions**, **businesses** and **systems** within a city to *survive*, *adapt*, and *grow* no matter what kind of chronic stresses and acute shocks they experience.

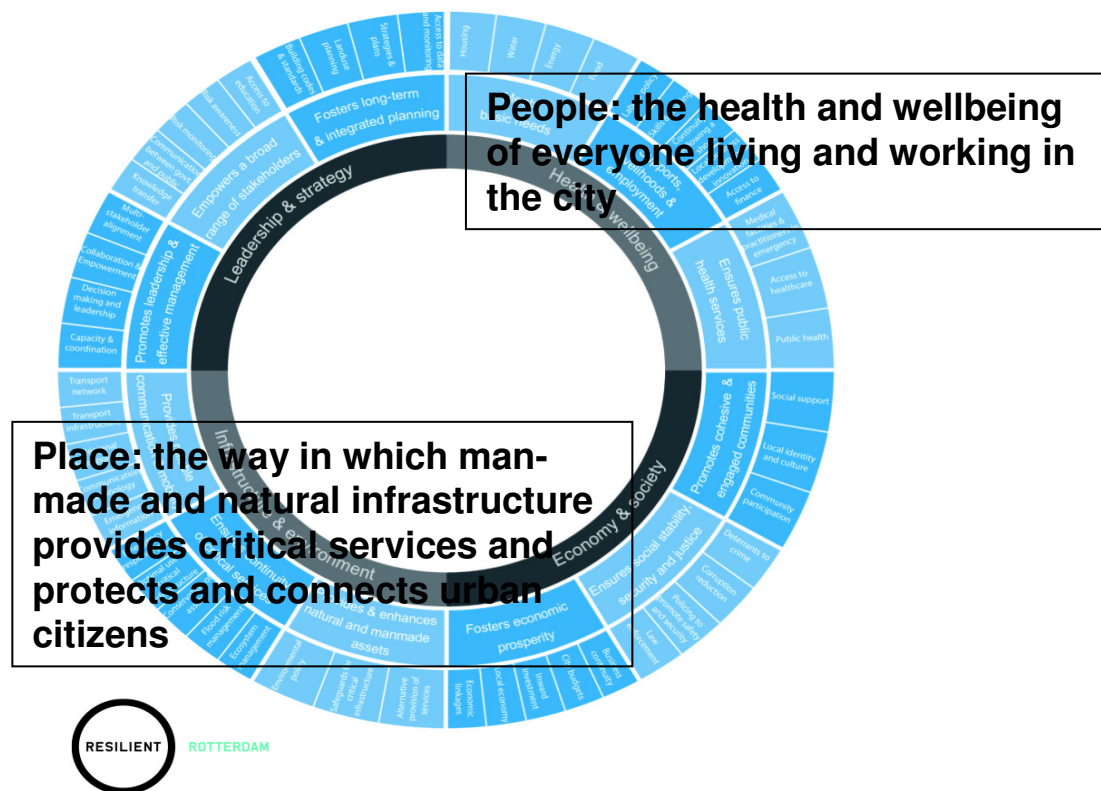* source: Rockefeller Foundation and 100RESILIENTCITIES

Resilient systems

Resilient systems exhibit certain qualities
that enable them to withstand, respond, and adapt
more readily to shocks and stresses

Reflective	Resourceful	Robust	Redundant	Flexible	Inclusive	Integrated
Ability to learn	.... and act	...conceiving systems & assets that can withstand shocks & stresses as well as using alternative strategies to facilitate rapid recovery			...planned to take account of city-wide needs and promote coordinated actions	

City Resilience Framework

People: the health and wellbeing of everyone living and working in the city

Place: the way in which man-made and natural infrastructure provides critical services and protects and connects urban citizens
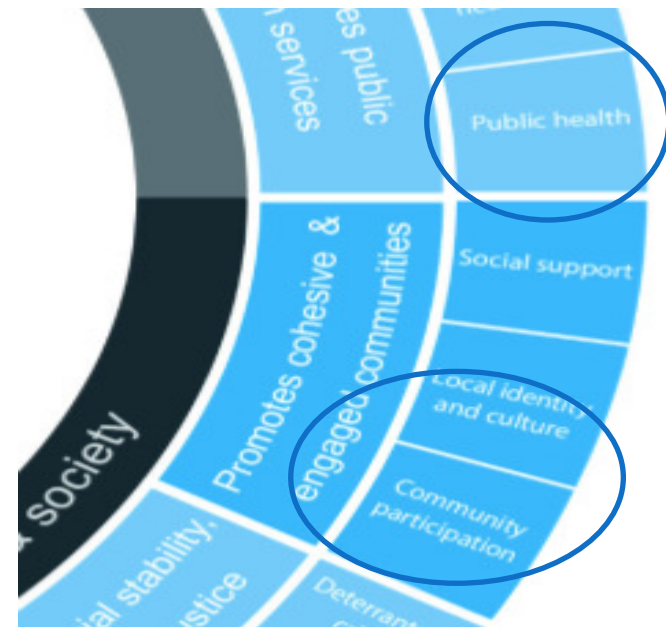
- City resilience has 4 key dimensions, i.e.
  - Health and wellbeing
  - Economy and society
  - Infrastructure and environment
  - Leadership and strategy

City Resilience Framework (detail)

- **Multiple factors** contribute to resilience and there are **multiple entry points for action**
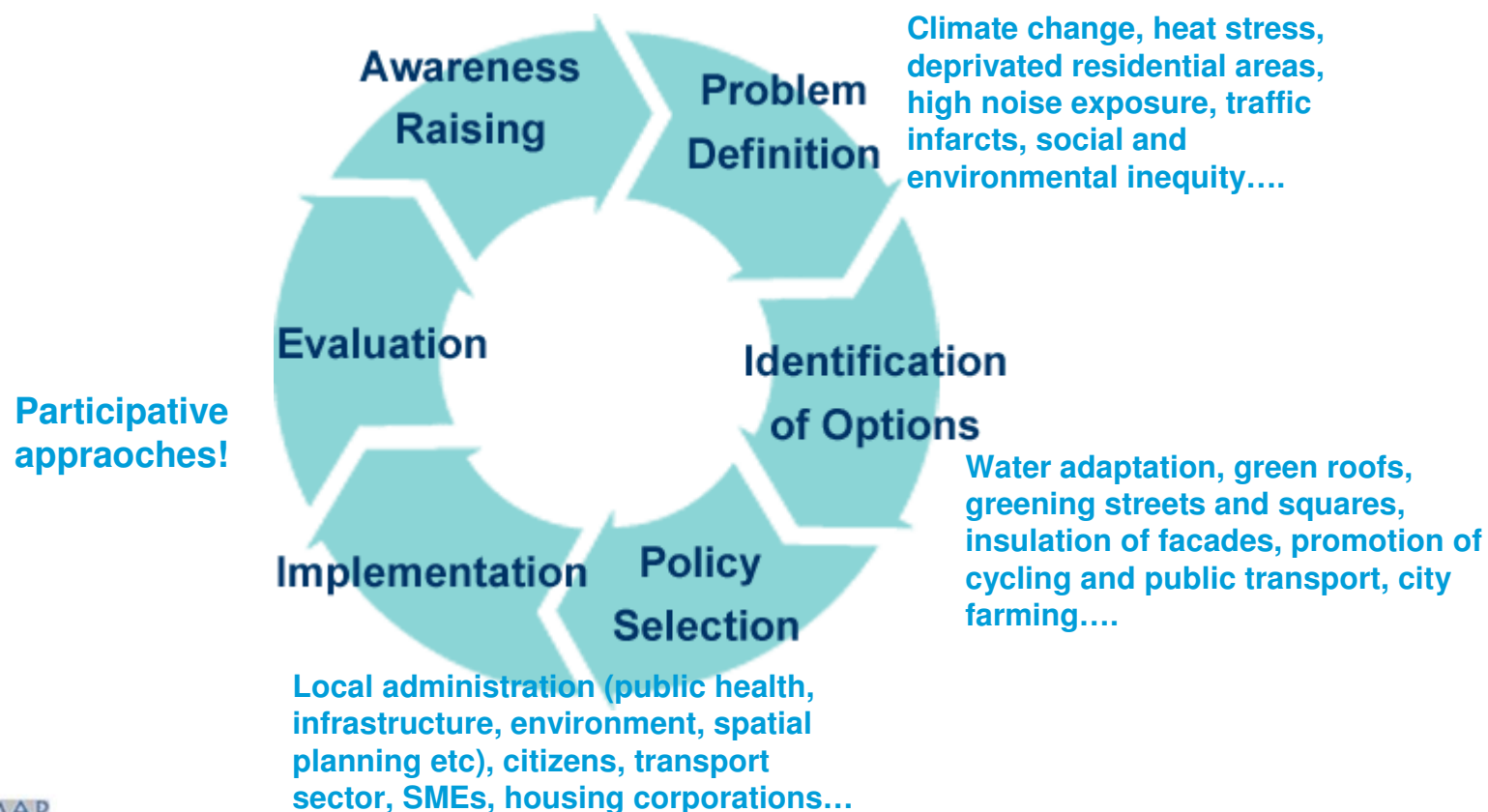
Policy integration

- Environmental Policy Integration (e.g. Lafferty and Hovden, 2003) is the **incorporation** of environmental objectives into **all stages of policy making** in non-environmental policy secors and a commitment to **minimise contradictions** between environmental and sectoral policies by giving **principled priority** to the former over the latter.

QUA (policy) integrated into….

Awareness Raising

Problem Definition

Climate change, heat stress, deprivated residential areas, high noise exposure, traffic infarcts, social and environmental inequity….

Evaluation

Identification of Options

Participative appraoches!

Water adaptation, green roofs, greening streets and squares, insulation of facades, promotion of cycling and public transport, city farming….

Implementation

Policy Selection

Local administration (public health, infrastructure, environment, spatial planning etc), citizens, transport sector, SMEs, housing corporations…

Quiet Urban Areas: appraisal

- Lessons learned from Rotterdam pilots on factors for appraisal of quiet urban areas

Parameter	Parameter	Correlation
Soundscape evaluation	Soundscape unpleasant_pleasant	,561
Soundscape evaluation	Soundscape annoying_relaxing	,606
Overall quality	Visual pleasantness	,524
Soundscape evaluation	Soundscape characteristic_normal	,560
Acoustic quality at home	Annoyance_at home_cars	,774
Audibility of nature sounds	Importance of nature features	,427

statistically significant p < 0,05

Quiet Urban Areas: appraisal

	Positive scores	Relative positive scores
Air quality	66.3%	69.6%
Safety	62.7%	63.3%
Maintenance	86.7%	78.6%
Services, and materials (banks, play-areas etc.)	79.5%	74.7%
Accessibility	92.8%	83.4%
Noise in the surrounding	72.3%	68.7%
Natural elements (green areas, water, birds etc.)	96.4%	82.8%
Climate (humidity, brightness, wind etc.)	68.7%	69.6%
Visual aspects	86.7%	79.8%
Scent	56.6%	68.1%

Inspiration

- Green and natural features
- Energy
- Social inclusion
- Public health
- Infrastructure
- Sustainable transportation
- Water management and adaptation
- Facilities, maintenance
- Etc…..

Inspiration…

Reflective	Resourceful
Ability to learn	…. and act

Green focus areas

Bloemhof

KRACHTGROEN

maak groen een zaak van iedereen

Inspiration….

Robust Redundant Flexible

…conceiving systems & assets that can withstand shocks & stresses as well as using alternative strategies to facilitate rapid recovery
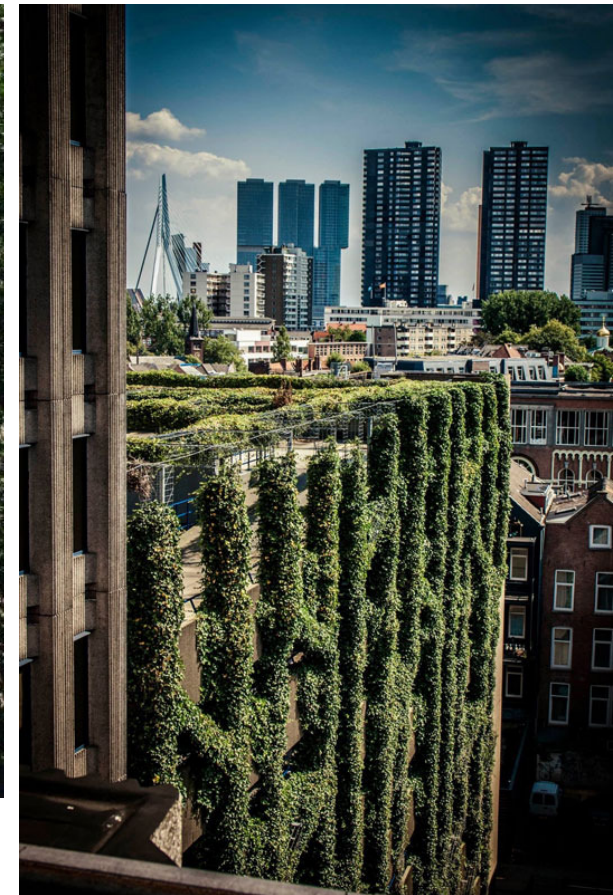
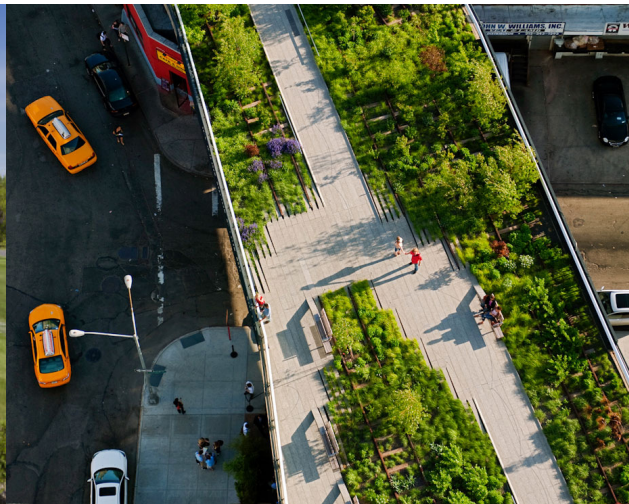# Watersquare (Van Benthemplein)

Green roofs

Green façades

Thornico building and parking garage, source http://www.thornicobuilding.com

'Green at odd places'

Dakpark Rotterdam   High line New York   Promenade plantee Paris

Resilient systems

Inclusive **Integrated**

...planned to take account of
city-wide needs and promote
coordinated actions

Green blue connections

Maas

Schie

Rotte

Green citizen initiatives

Tuin aan de Maas

Schat van Schoonderloo

Wijktuin de Esch

Concluding remarks

Questions and suggestions?

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Appendix: Organ of Corti

- https://www.youtube.com/watch?v=6S6raz1AsBsText