City Blueprint

Development of urban water services

Transition

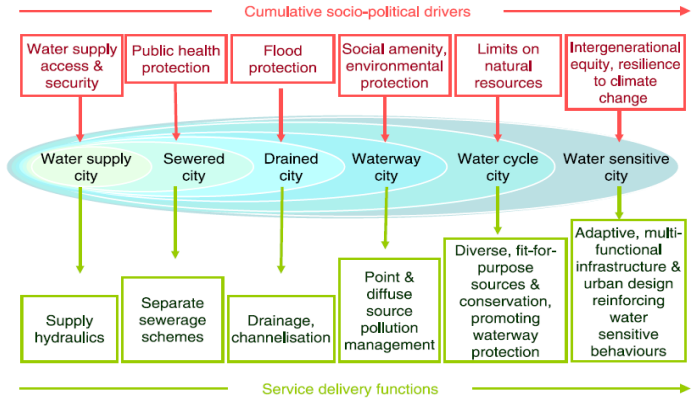


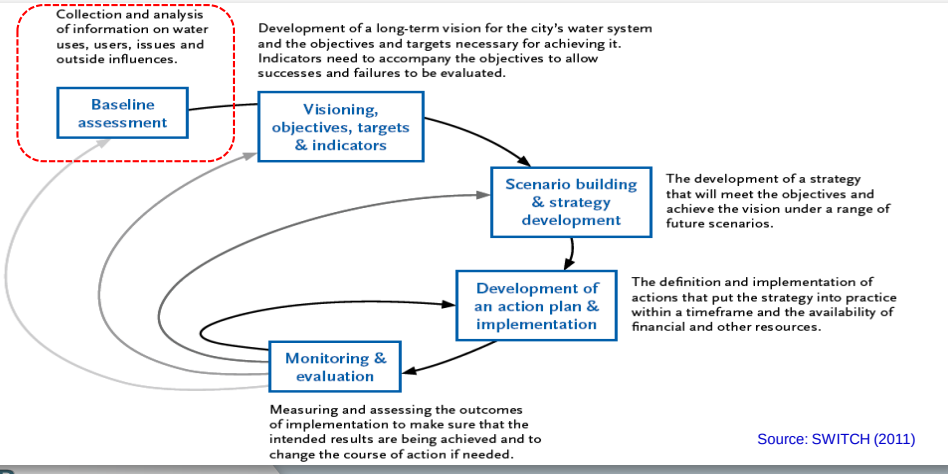
Figure 1 | Urban Water Management Transitions Framework (source: Brown *et al.* 2009).

KWR Watercycle Research Institute

City Blueprint

Planning cycle

Managing water in the cities of the future



KWR Watercycle Research Institute

City Blueprint

City Blueprint	Baseline assessment of the sustainability of urban water services
Indicators	Twenty-four indicators divided over eight broad categories: 1.Water security 2.Water quality 3.Drinking water 4.Sanitation 5.Infrastructure 6.Climate robustness 7.Biodiversity and attractiveness 8.Governance
Data	Public data or data provided by the (waste) water utilities and cities based on a questionnaire for urban water cycle services
Scores	0 (concern) to 10 (no concern) **(blue is good)**
BCI	Arithmetic mean of 24 indicators which varies from 0 to 10
Stakeholders	Water utility, waste water utility, water board, city council, NGOs
Process	Interactive with all stakeholders involved early on in the process

KWR Watercycle Research Institute

City Blueprint

City Blueprint assessments

30 cities/regions (June 2014)

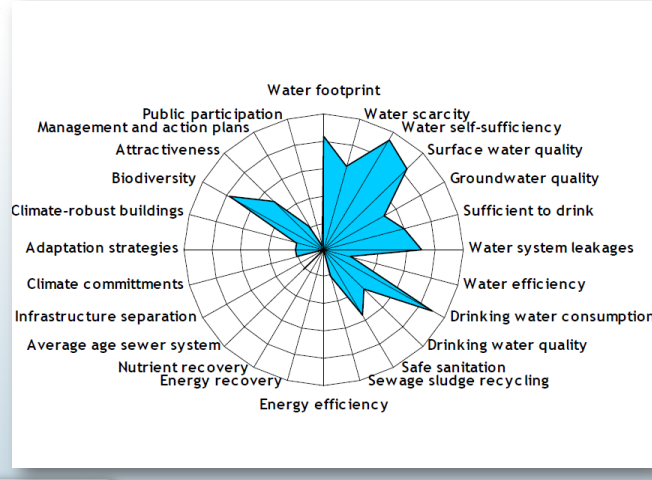
Algarve (Portugal)
Amsterdam (The Netherlands)
Ankara (Turkey)
Athens (Greece)
Belém (Brazil)
Berlin (Germany)
Bologna (Italy)
Bucharest (Romania)
Copenhagen (Denmark)
Dar es Salaam (Tanzania)
Eindhoven (The Netherlands)
Genova (Italy)
Hamburg (Germany)
Ho Chi Minh City (Vietnam)
Istanbul (Turkey)
Jerusalem (Israel)
Kilamba Kiaxi (Angola)
Lyon (France)
Maastricht (The Netherlands)
Malmö (Sweden)
Malta (Malta)
Manresa (Spain)
Melbourne (Australia)
Oslo (Norway)
Reggio Emilia (Italy)
Reykjavic (Iceland)
Rotterdam (The Netherlands)
Scotland (UK)
Venlo (The Netherlands)
Zaragoza (Spain)

KWR Watercycle Research Institute

City Blueprint

Dar es Salaam

City Blueprint

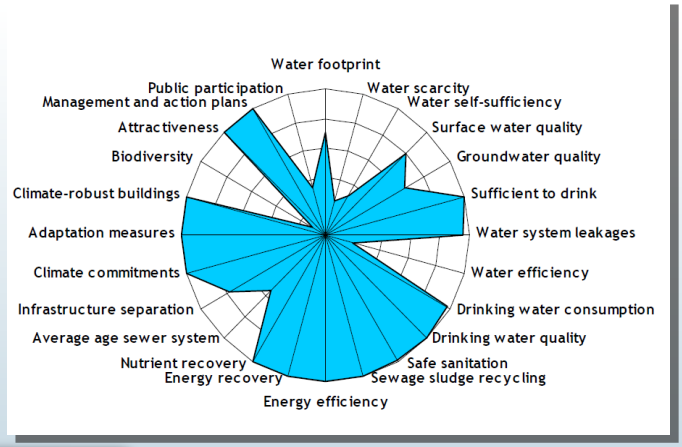


KWR Watercycle Research Institute

City Blueprint

Hamburg

City Blueprint

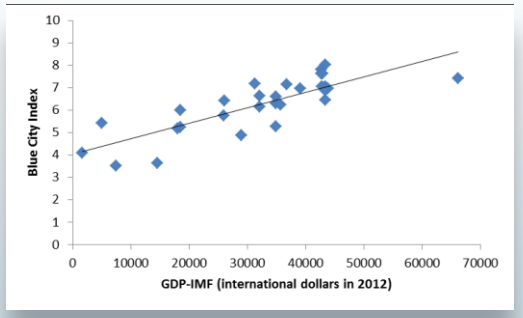


KWR Watercycle Research Institute

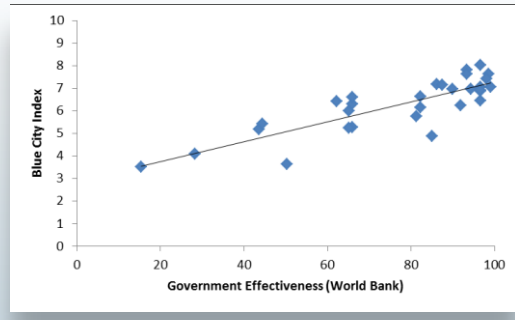
City Blueprint

Blue City Index

GDP CORRELATION



GOVERNMENT EFFECTIVENESS CORRELATION

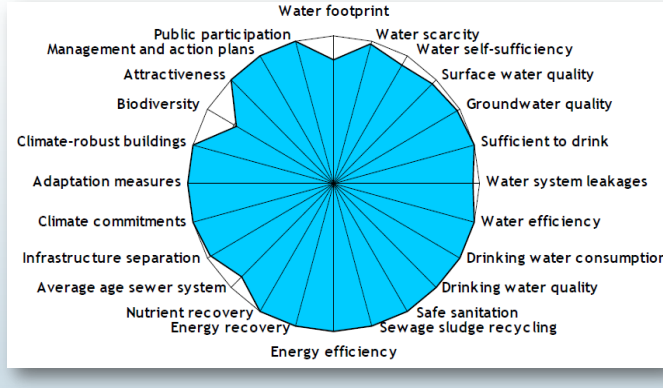


KWR Watercycle Research Institute

City Blueprint

Learning from best practices

City Blueprints optimised

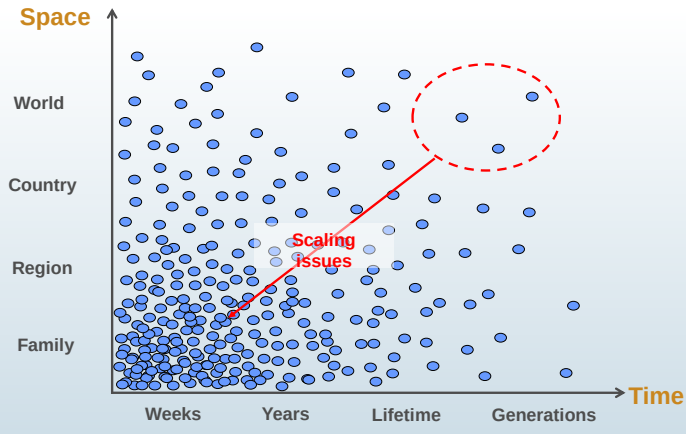


Source: Van Leeuwen, 2013

KWR Watercycle Research Institute

City Blueprint

Wicked problems



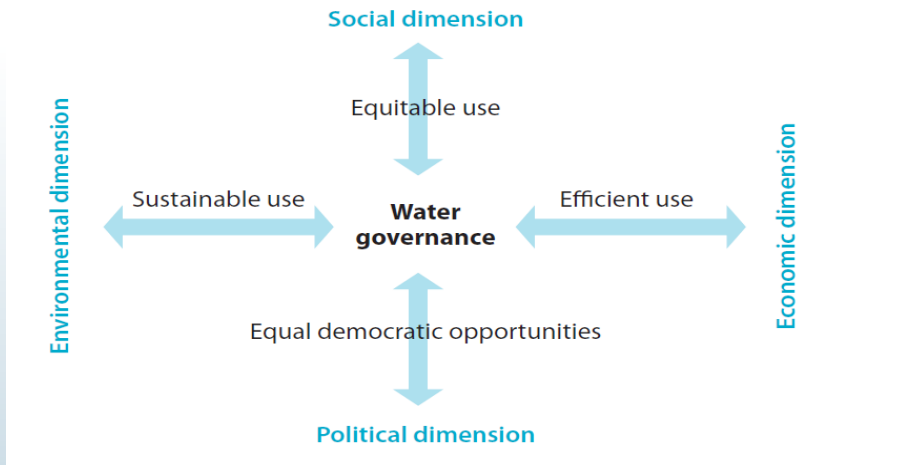
'Wicked' water problems:
- Complexity
- Uncertainty
- Diverse views and interpretations

Management Responses:
- Integrated
- Adaptive
- Participatory

Examples:
- Climate Change
- (Un)sustainability
- Poverty (MDGs)
- IWRM

City Blueprint

Integrated water governance



Source: UNDP 2013

KWR Watercycle Research Institute

City Blueprint

To conclude
Addressing sustainability

City Blueprint is a baseline sustainability assessment (quick scan):

- communicative instrument: dialogue between stakeholders
- learning from best practices
- first step towards integrated governance of urban water management

European Innovation Partnership on Water: City Blueprints Action Group

- facilitating cities in addressing the sustainability of urban water servies
- platform for benchmarking and collaboration
- cross-sectoral: water in smart cities approach - BluesCities project (2015-2016)

KWR Watercycle Research Institute

City Blueprint

EIP Water Action Group
Pooling resources – Innovating water

CITY BLUEPRINTS

POLITICAL COORDINATOR

Richard Elelman
Head of Public Administrations at Fundació CTM Centre Tecnològic and Administrative Director of NETWERC H2O
Av. Bases de Manresa, 1. 08242 Manresa, Spain
T +34 93 877 7373
M +34 608 54 55 28
E richard.elelman@ctm.com.es
W www.ctm.com.es / www.netwerch2o.eu
Skype: richardelelman

TECHNICAL COORDINATOR

Cornelis Johannes (Kees) van Leeuwen
Chair Water Management and Urban Development
Principal Scientist at KWR Watercycle Research Institute
P.O. Box 1072, 3430 BB Nieuwegein, The Netherlands
T +31 30 6069617
M +31 652041795
E kees.van.leeuwen@kwrwater.nl
W www.kwrwater.nl
Skype: leeuwke47

KWR Watercycle Research Institute


Jos Frijns, 25-09-2014
More articles, images and videos in our online annual report
annualreport.kwrwater.nl
@KWR_Water
© KWR Watercycle Research Institute