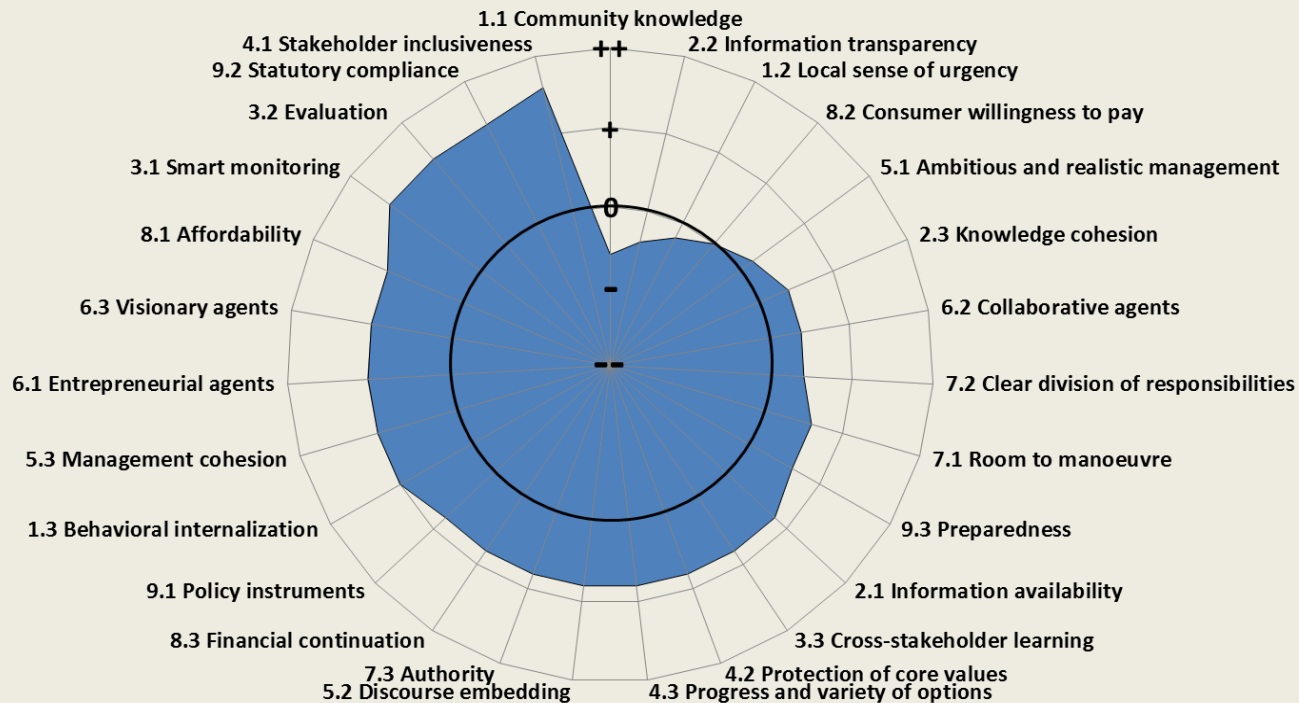


Water Governance Capacity Framework



Stef Koop



EIP Water

Boosting opportunities – Innovating water

Increasing risk over time of weather-related hazards to the European population: a data-driven prognostic study

Giovanni Forzieri, Alessandro Cescatti, Filipe Batista e Silva, Luc Feyen



Summer floods in Central Europe



Droughts & forest fires Southern Europe

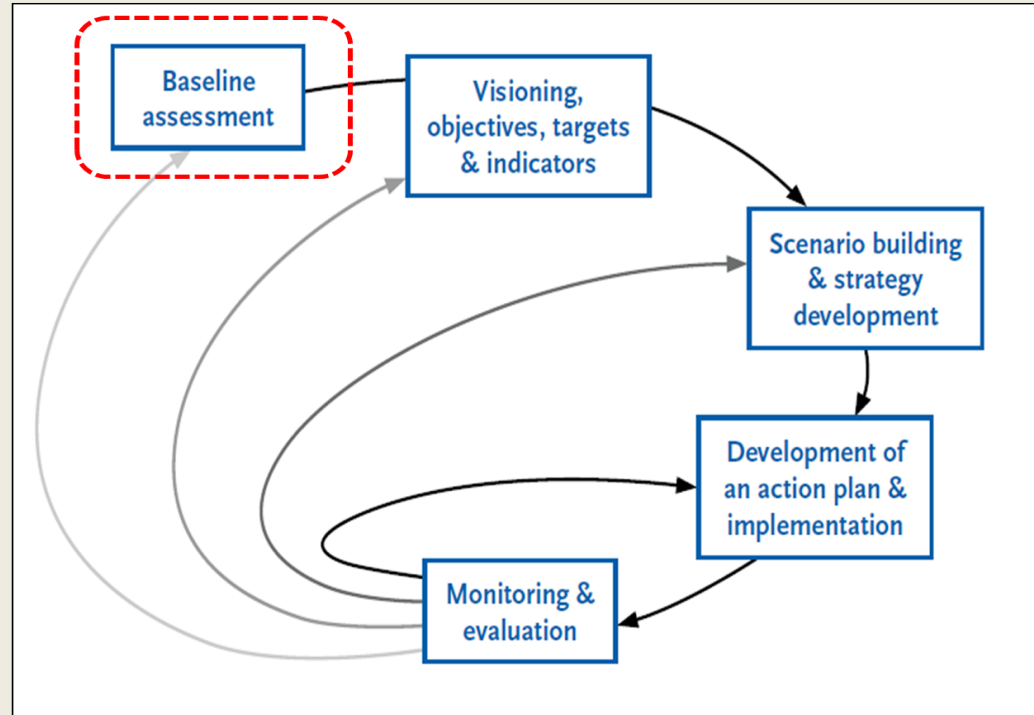


Hurricane Irma, Harvey

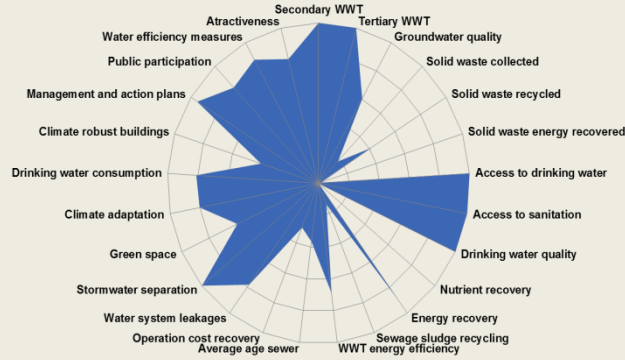
Europeans yearly exposed to extreme weather:
From 25 million (1981–2010) to 351 million in 2100!

Cities need a long-term vision and strategy

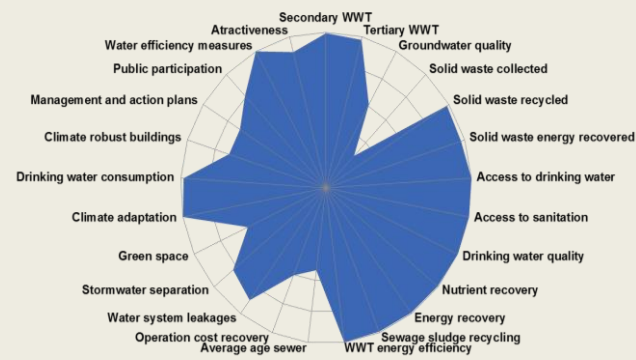
Cities need to start investing in adaptation measures based on a **long-term vision and strategy** and by sharing best practices (Van Leeuwen, 2014).



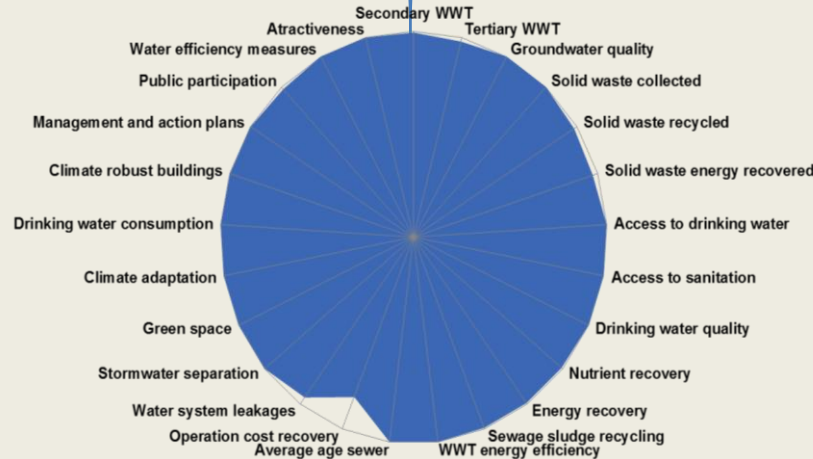
Melbourne BCI: 5.4



Amsterdam BCI: 8.3



Best practices exist: How can they be adopted by all?



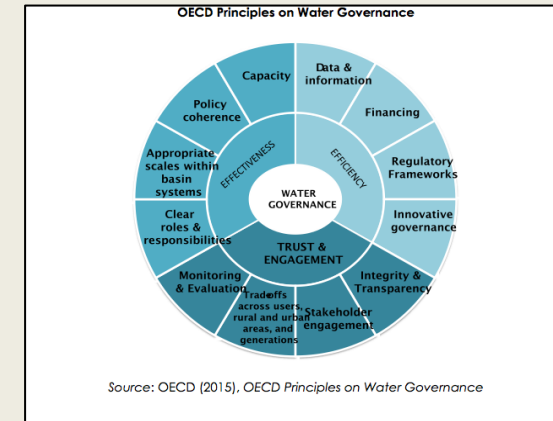
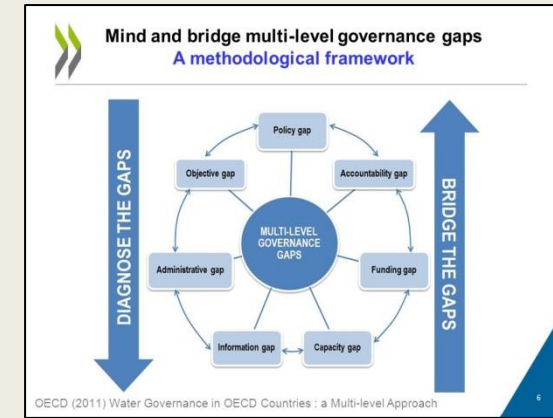
The best scores for each indicator of 45 cities

Urban water solutions include:

1. Many organisations
2. Multi-levels of governance & multiple sectors
3. Different interests from public and private stakeholders

- How well are these institutions able together to solve common water challenges?

How can their problem-solving capacity be increased?



Governance Capacity Framework

Making scientific knowledge concrete & applicable

Dimensions

Conditions

Indicators

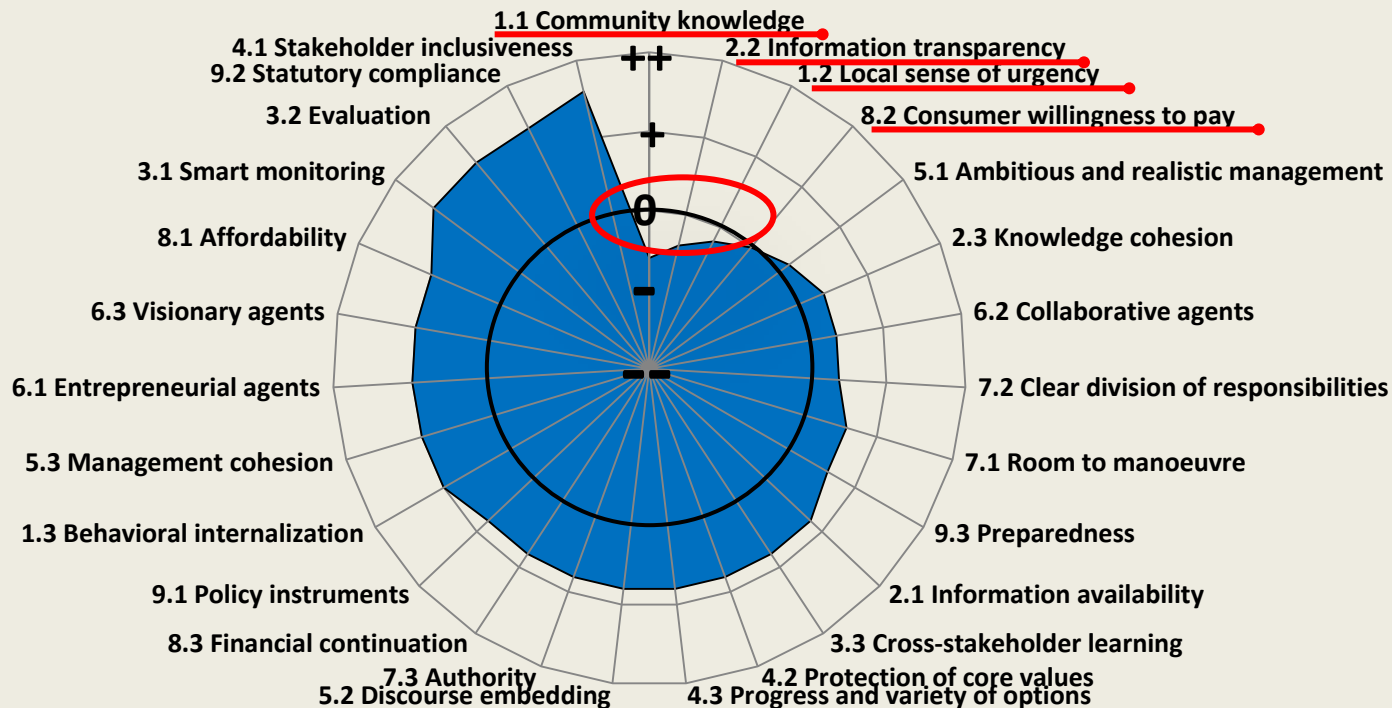
Knowing	1 Awareness	1.1 Community knowledge 1.2 Local support 1.3 Behavioural internalization
	2 Useful knowledge	2.1 Information availability 2.2 Information transparency 2.3 Knowledge cohesion
	3 Continuous learning	3.1 Smart monitoring 3.2 Evaluation 3.3 Cross-stakeholder capacity building
Wanting	4 Stakeholder engagement process	4.1 Stakeholder inclusiveness 4.2 Protection of core values 4.3 Progress and choice variety
	5 Policy ambition	5.1 Ambitious and realistic goals 5.2 Discourse embedding 5.3 Policy cohesion
	6 Agents of change	6.1 Entrepreneurial agents 6.2 Collaborative agents 6.3 Visionary agents
Enabling	7 Multi-level network potential	7.1 Room to maneuver 7.2 Clear division of responsibilities 7.3 Authority
	8 Financial viability	8.1 Affordability 8.2 Consumer willingness to pay 8.3 Financial continuation
	9 Implementing capacity	9.1 Policy instruments 9.2 Legal compliance 9.3 Preparedness

Through **three stages**:

1. Literature study to preliminary score each indicator
2. In-depth interviews with main stakeholders to refine the scores
3. The interviewees feedback & final score is determined



Overall results Amsterdam



Flooding



Water scarcity



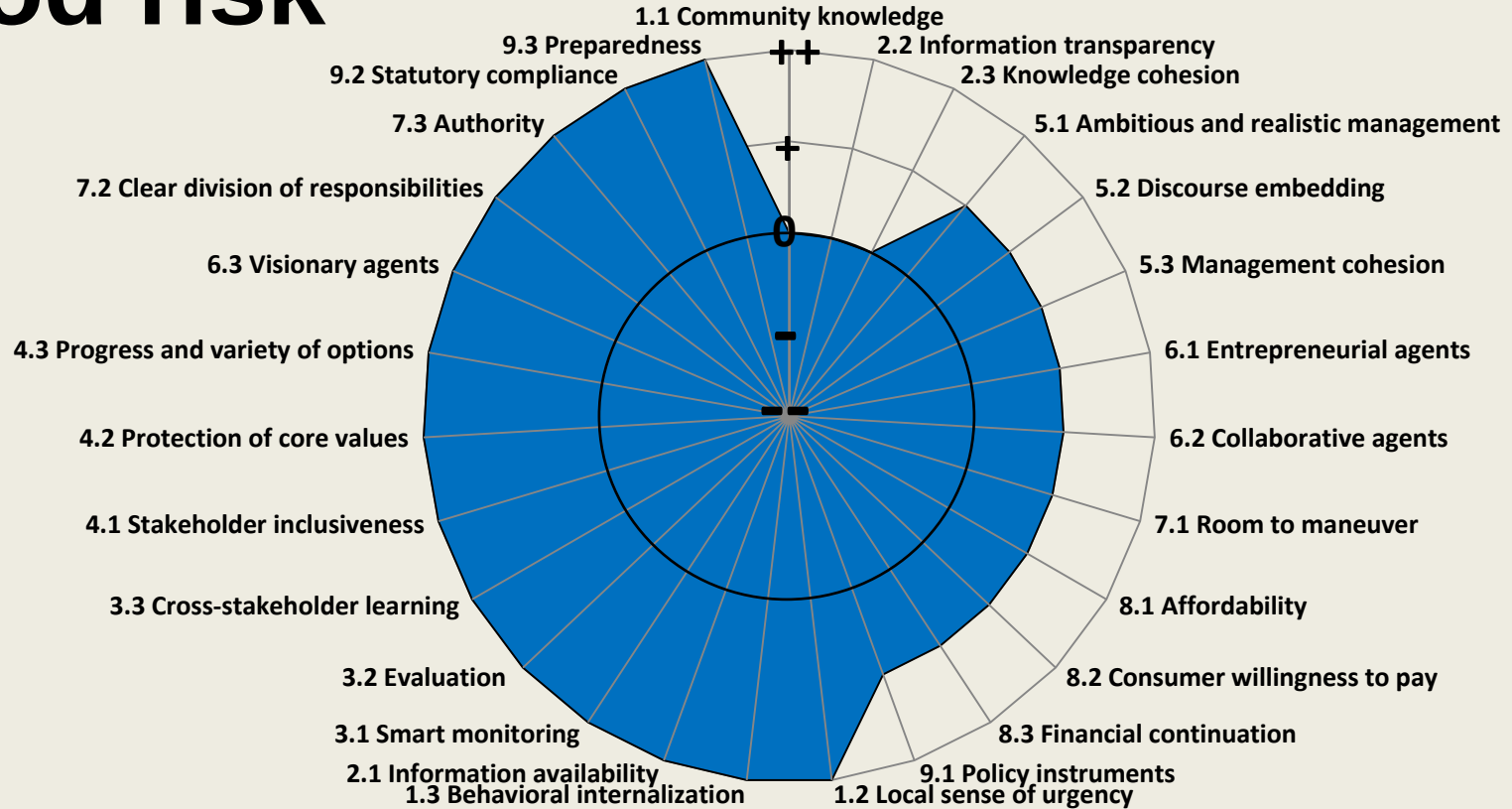
Urban heat islands



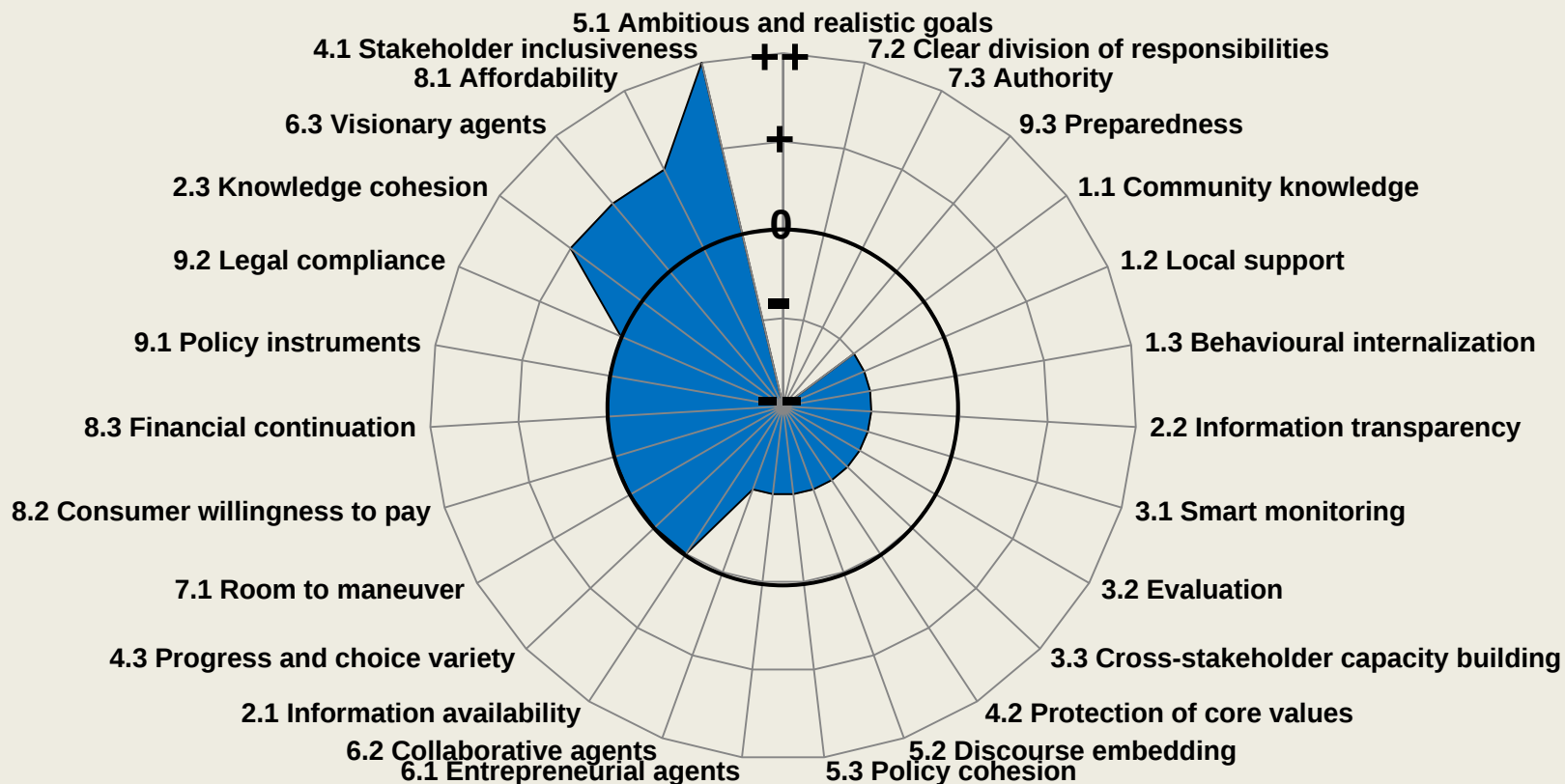
Water quality



Flood risk



Urban Heat islands



Analysed Cities:

- 1. Ahmedabad, India
- 2. Amsterdam, the Netherlands
- 3. Bandung, Indonesia
- 4. Leicester, UK
- 5. Melbourne, Australia
- 6. Milton Keynes, UK
- 7. New York City, USA
- 8. Quito, Ecuador



Cities being analysed:

- 9. Cape Town, South Africa
- 10. Jerusalem, Israel
- 11. Rotterdam, the Netherlands
- 12. Taipei, Taiwan
- 13. Seoul, South Korea

Flood risk	Amsterdam	New York City	Leicester	Milton Keynes	Melbourne	Bandung	Ahmedabad
1 Awareness	+	0	+	-	0	0	0
2 Useful knowledge	+	0	+	++	0	+	0
3 Continuous learning	++	0	+	+	+	0	-
4 Stakeholder engagement process	++	+	0	+	0	-	0
5 Policy ambition	+	+	0	+	0	0	0
6 Agents of change	+	+	0	0	+	0	-
7 Multilevel network potential	++	+	0	0	0	0	0
8 Financial viability	+	+	0	0	+	0	+
9 Implementing capacity	++	+	+	0	0	0	0

Conclusions: focus on governance and involvement

‘Technology is important to implement an intelligent city concept, to create new business opportunities, to attract investments and to generate employment. **But technology alone would not bring about any wonders.** Good governance and the active involvement of citizens in the development of new organization models for a new generation of services and a greener and healthier lifestyle are also important.’

Hahn, former EU Commissioner for Regional Policy



Improving Implementation Capacities of Cities and Regions by sharing best practices on Urban Water Cycle Services



FURTHER INFORMATION

1. City Blueprint website of EIP Water: http://www.eip-water.eu/City_Blueprints
2. City Blueprint website of Watershare®: <http://www.watershare.eu/>
3. Netwerch2o: <http://www.netwerch2o.eu/>
4. BlueSCities: <http://www.bluescities.eu/>

Contact

Kees van Leeuwen kees.van.leeuwen@kwrwater.nl

Richard Elelman richard.elelman@ctm.com.es

Stef Koop stef.koop@kwrwater.nl