

Combining Green and Grey Infrastructure for Water-Wise Cities

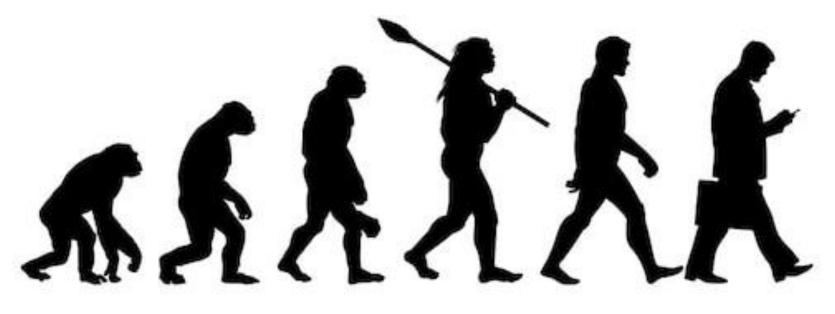
CORINNE TROMMSDORFF, 9 APRIL 2019



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Combining Green and Grey Infrastructure





Survival = connected to Nature

Survival ≠ connected nature





WHITE .

Seoul, Cheonggyecheon River Courtesy of <u>Cities Alive- Water for People</u>

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Singapore Courtesy of <u>Cities Alive- Water for People</u>

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Seattle, rooftop community gardens Courtesy of Urban Farm Company



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CITIES AT THE CENTER OF THE CHALLENGES AND OPPORTUNITIES



Sustainable growth city Liveable City **Secure** city

Challenge 3: contribute to preserving long term resources

Challenge 2: provide an attractive space for people and businesses to live, work and play

Challenge 1: water security relating to "survival"

THE COP... URGING TO ACTION

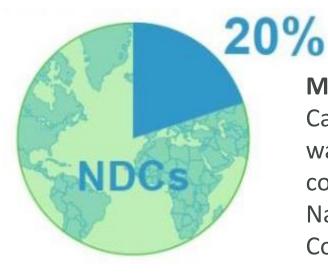








ADAPTATION required



MITIGATION potential

Carbon neutral urban water services would contribute up to 20% of the Nationally Determined Contributions

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GLOBAL AGENDAS TOWARDS SECURE, LIVEABLE AND SUSTAINABLE PLACES







K. Weinberger UN ESCAP presentation 2015

CITIES AT THE CENTER OF THE CHALLENGES AND OPPORTUNITIES



Liveable Sustainable City growth city

Secure city Addressed all at once in a Water-Wise City agenda Creating a common language

Survival

The IWA Principles Cities

For Urban Stakeholders to Develop a Shared Vision and Act towards Sustainable Urban Water in Resilient and Liveable Cities 4 Levels of Action





Regenerative Water Services

 Use a Systemic Approach integrated with Other Services.
Increase the Modularity of Systems and Ensure Multiple Options

2 Water Sensitive Urban Design

Water Sensitive Urban Design

Visible Water

 Modify and Adapt Urban Materials to Minimise Environmental Impact

Basin Committed Other

Basin-Connected Cities

4 Water Wise Communities

Water Wise Communities



Over 70 years heritage working with and connecting people in the sector to help solve global, regional and local water challenges.

"A global network of water professionals striving for a world in which water is wisely, sustainably and equitably managed"

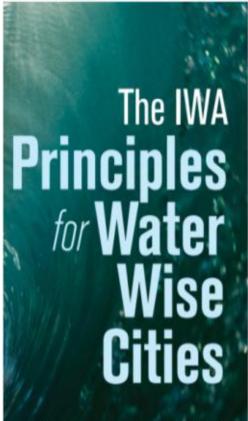
- IWA Strategic Plan 2019-2024

IWA'S MAIN ACTIVITIES



Communities	Publications	Events	Thought leadership
10,000 members in 140 countries	14 Journals 40 books/year	Biennial Congress with over 9000 participants	Leading edge technologies and best practices
50 Specialist Groups	WATER RESEARCH		
Communities of water regulators, cities, utilities		Over 30 conferences/year with over 50,000 participants	

THE PRINCIPLES FOR WATER-WISE CITIES



For Urban Stakeholders to Develop a Shared Vision and Act towards Sustainable Urban Water in Resilient and Liveable Cities



THE WATER SECTOR EMBRACING "GREEN AND GREY" CITIES





2. Water Sensitive Urban

Design

- Enable regenerative water services
- Design urban spaces to reduces flood risks
- Enhance liveability with visible water
- Modify & adapt urban materials to minimise environmental impact

THE WATER SECTOR EMBRACING "GREEN AND GREY" CITIES





Leveraging the value created for:

- Health
- Urban spaces (parks, heat mitigation, buildings comfort and esthetics)
- Ecosystems
- People well-being and sense of belonging to a place
- Recovering social dialogue and creating a sense of Community

CHANGING OUR PERSPECTIVES



Away From Solving One challenge with One Solution



CHALLENGES AND ENABLERS TO COMBINING GREEN AND GREY





The main enabler = our capacity to collaborate across services

THE OPPORTUNITY OF "BLUE, GREEN, AND GREY" CITIES





The untapped opportunity = Connecting people between themselves and to their "place"

Sponge City, Ningo Yinzhou Turne River, China Courtesy of <u>Cities Alive- Water for People</u>

CONTRACTOR PROPERTY.



Sydney Park Wetland, Courtesy of <u>Cities Alive- Water for People</u>

Contract States and

Vancouver UBC Courtesy of <u>Cities Alive- Water for People</u>

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NEW INSPIRATION FOR A TRANSITION TO BLUE, GREEN AND GREY CITIES





Water in cities has been kept hidden from citizens, both visually and as a topic.

It's been confined to a technical topic, but not brought to the citizens attention.

Dominique ALBA

Directrice générale de l'Apur - Atelier parisien d'urbanisme

NEW INSPIRATION FOR A TRANSITION TO BLUE, GREEN AND GREY CITIES





Cities have grown to be a collection of very diverse shapes and forms, citizens have become more different from each other than ever before, with a wide range of backgrounds and expectations that are sometimes hard to reconcile....

Dominique ALBA

Directrice générale de l'Apur - Atelier parisien d'urbanisme

Village, 150 people

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Berlin, ~4M people

Vincent Laforet, Courtesy Fahey/Klein, Los Angeles





NEW INSPIRATION FOR A TRANSITION TO BLUE, GREEN AND GREY CITIES





... We need to find paths that will bring people together around something they share.

Bringing environmental issues to the citizens can be one path to recover the lost social dialogue within the City.

Dominique ALBA

Directrice générale de l'Apur - Atelier parisien d'urbanisme



FROM UNVISIBLE TO VISIBLE



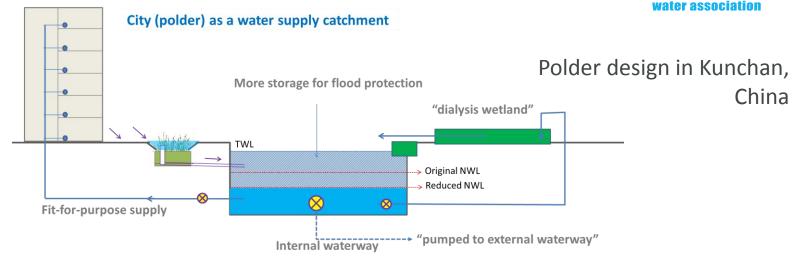


Hammarby Sjostad, Stockholm Former industrial area by the port Source: Cities Alive, Water for People



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FROM TECHNICAL TO SOCIAL DIALOGUE





Co-design workshops with communities in informal settlements, RISE project







the international



Water Sensitive Elwood

Location: Melbourne, VIC



- Community co-design
- Innovative flood resilience
- Making room for water in a former swamp



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Water Sensitive Elwood









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- The main enabler to NBS projects in Cities = Collaboration between urban professionals
- Supported by a shared vision
- > The IWA Principles for water-wise cities aim to create a shared vision

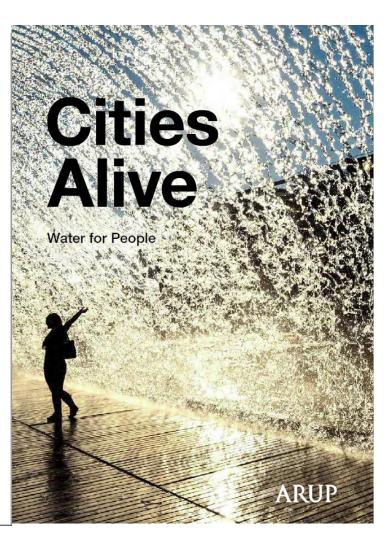
- 2. The untapped opportunity = recover social dialogue in cities
- Nature is a natural bond between people
- Combining blue green and grey can develop a common bond between people and a stronger connection to the place.

A GOOD READ...



Cities Alive: Water for People explores pioneering water approaches in cities around the world. It promotes five key principles that look to reconnect people with the water cycle, and reconnect cities with their basins to deliver resilience and create healthier city environments that will help drive social and economic success.







Thank you!

IWA is by members and for members!

I hope to see you soon in the IWA Community...

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