

Loïc Fauchon, Honorary President of the World Water Council
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Water and Disasters (HELP)
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Increasing importance of cities

Half of humanity lives in cities

• In 2050, 75% of the world population will live in

cities: almost 7 billion people!

- Cities are growing mainly in developing countries: 5 million people each month
- The development of cities is due to :
 - Growing in urban population (50%)
 - Urban sprawl or extension (25%)
 - Rural exodus (25%)





Increasing threats to water

- Demographic growth in poor countries
- Raising living standards
- Agricultural and industrial economic growth
- Pollution
- Climate evolutions









Cities coping with water uncertainties

- An increasing number of cities are facing floods, droughts, industrial and agricultural pollution
- 21 biggest megacities –out of 33- are located on the coast, ou
- 1,5 billion people live in areas of water scarcity
- Urban and industrial water use is projected to double by 2050
- Around 50% of the African and Asian population live in slums and poor housing







Main challenges

WATER SCARCITY

50% of the world population will be affected in the long term

DROUGHTS

2nd cause of natural disasters with long lasting impacts

FLOODS

84% total deaths caused by water contamination

CLIMATE EVOLUTIONS

Future impact on water availability and quality









Which kind of responses?

LIVABLE:

Improve well being and reduce environmental footprint

INCLUSIVE:

Improve social sustainability

SMART:

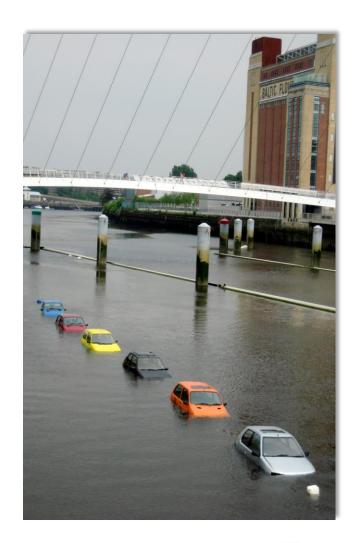
Catch up on the digital transformation

· CIRCULAR:

Optimize resources management

RESILIENT:

Reduce risks and improve adaptability





Cities and Resilience

WHAT IS RESILIENCE?

- From Latin: resilire to spring back, rebound
- Definition: The capacity to recover quickly from difficulties
- From literature: The strength to rebuild without resignation in front of fate or misfortune

WHAT IS A RESILIENT CITY?

- A city that copes with climate evolutions, natural disasters, mass urbanization
- A city that protects its population and secures its economic, cultural and environmental heritage
- A city that reduces the impact of crises and improves its global performance



Solutions for a resilient city coping with disasters

- Containing urban development on the long term through urban planning
- Reducing the water footprint of the cities
- Delivering multiple energy sources
- Creating spots of urban heat
- Forming leaders to risks management





Some resilient responses to water-related disasters

URBANIZATION :

- Containing rural exodus
- Establishing belts of medium size cities
- Elaborating urban risks prevention plans
- Promoting adapted constructions

FLOODS:

- Controlling water flows within the city
- Creating retention basins
- Privileging adapted storm drainage systems
- By-passing waste water treatment plants, only if needed



Some resilient responses to water-related disasters



DROUGHTS:

- Increasing the mobilization of surface and groundwater resources
- Securing supply and storage urban systems
- Optimizing the efficiency of water networks

• IMPLICATION OF THE CITIZENS:

- Politics: responsible local authorities
- Education: resilience in school programs
- Awareness: good practices for the public at large
- Information: innovative medias and social networks

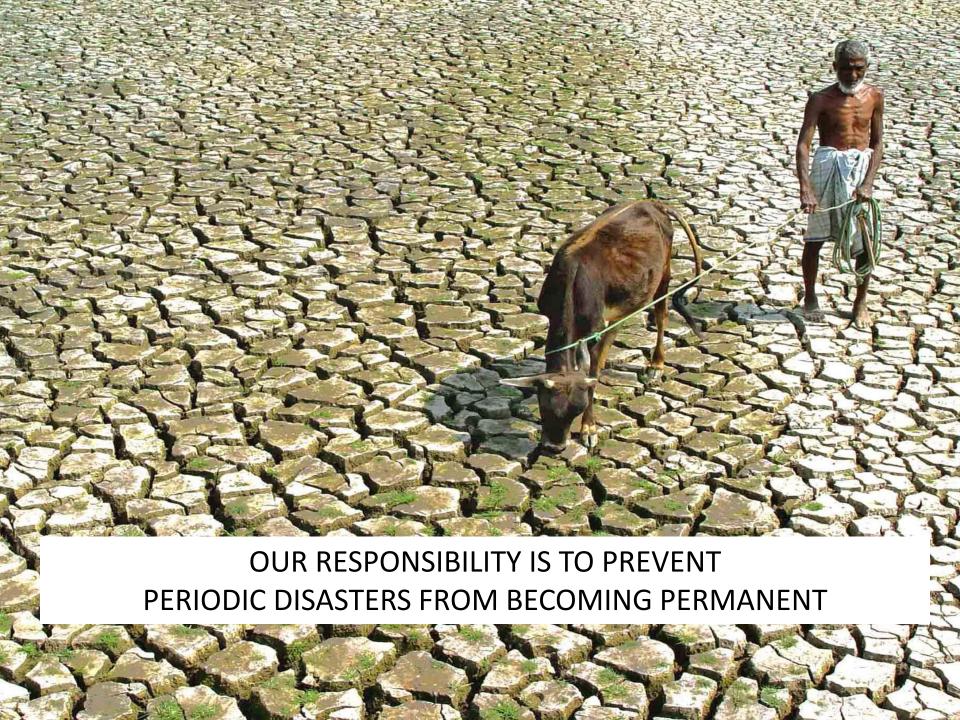


Resilience vs. water-related disasters



- The Rockfeller Foundation: 100 Resilient Cities Initiative (100 RC):
 - Accompanying the cities in the definition and implementation of their strategies of resilience
 - 67 already selected for this program: Mexico city, New Orleans, Rio de Janeiro, Quito, Belgrade, Marseille...
- Other initiatives: ICLEI's resilient cities program, UNISDR framework in Sendaï, Istanbul Water Consensus during the 5th WWF,...
- Our Panel on Water and Disasters (HELP) proposes to coordinate the dissemination of good practices and solutions through existing cities and water networks







THANK YOU

worldwatercouncil.org

<u>Sources:</u> UN-Water Decade programme, World Water Council, Veolia (L. Auguste), Water Supply Company of Marseille