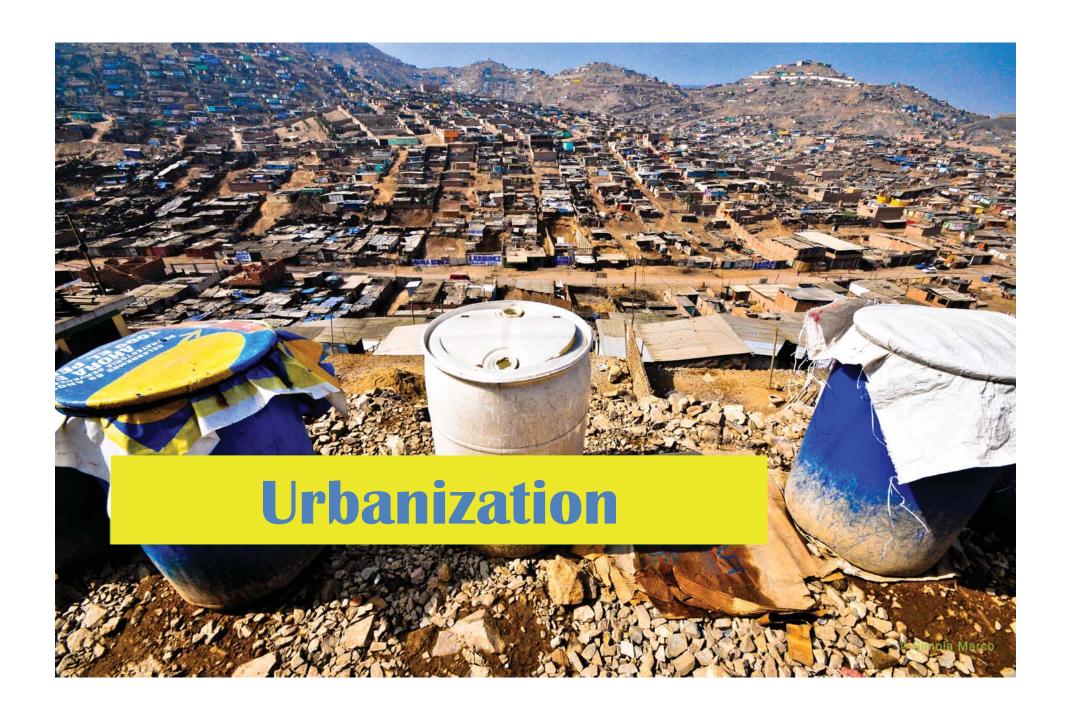


Loïc Fauchon, Honorary President of the World Water Council 8th meeting of the High-level Experts and Leaders Panel on Water and Disasters (HELP)

Jakarta, Republic of Indonesia – 1 November 2016



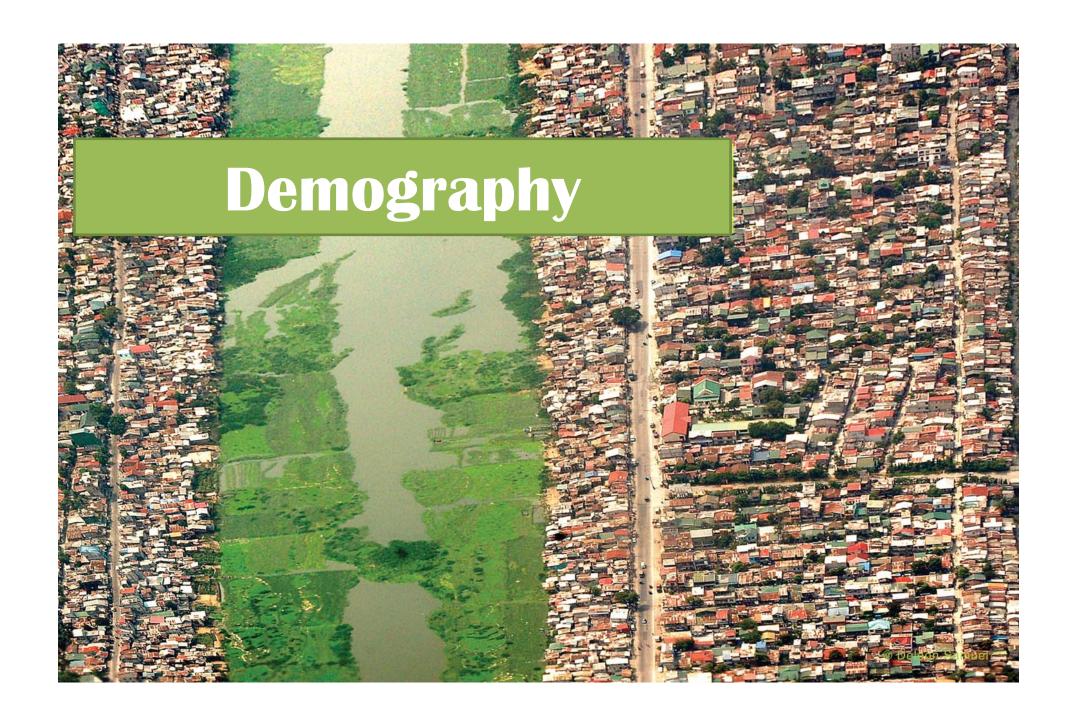


What findings since our last meeting?

- Cities have an increasingly important place :
- 740 million people in 1950, around 4 billion people in 2015 and around 7 billion people in 2050
- By 2030, the area covered by cities could triple
- Developing regions are particularly concerned by urbanization :
- In 2015, 79 % of megacities are located in Latin America,
 Asia and Africa
- By 2030, the urban population of developing countries will double

Low income countries account for only 9% of the world's disasters but almost 50% of the fatalities



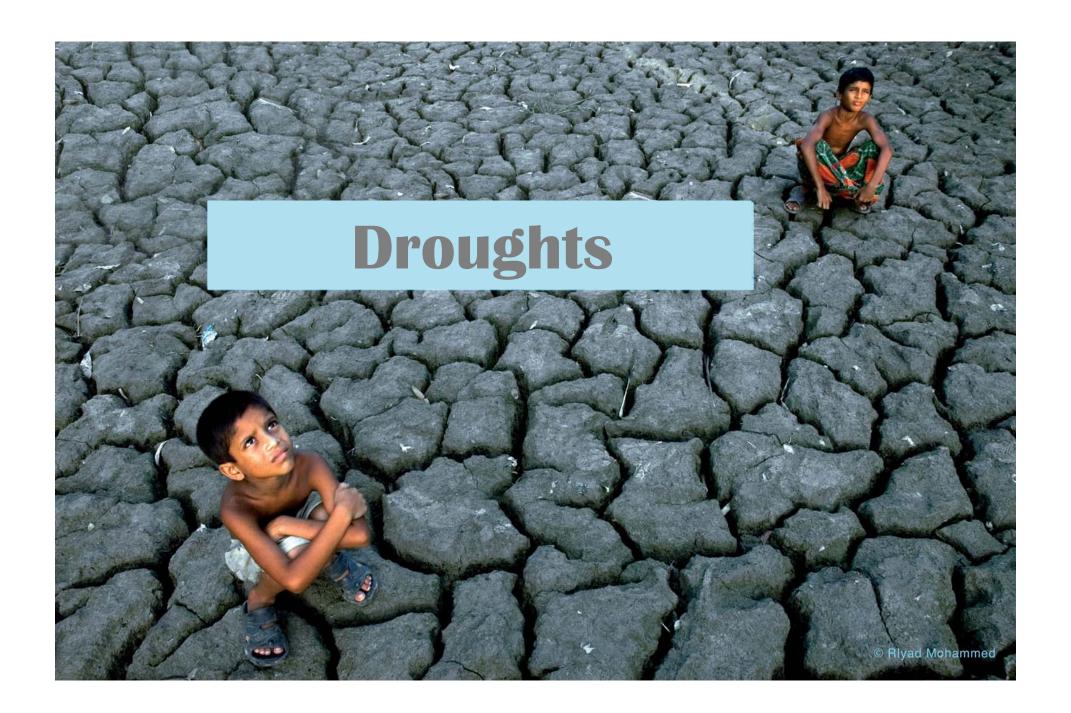


What findings since our last meeting?

- Urban and rural areas are interlinked:
- Water-related disasters affect more rural areas in terms of injuries and deaths whereas urban areas are more affected in terms of economic losses
- Disasters and climate changes create environmental displaced people, great number of these being rural communities forced to live in slums
- Cities are depending on resources mostly coming from the countryside
- Agriculture, livestock and fisheries have suffered about a ¼ of the total economic losses caused by climate disasters in developing countries

Droughts might
be responsible
for about 90% of
losses in
agriculture of the
Sub-Saharan
countries, where
it provides about
1/4 of gross
domestic
product.





What findings since our last meeting?

• City and country dwellers are increasingly vulnerable to...

- TSUNAMI

Many cities have been built along tsunami-prone coasts.

- STORMS

Many urban areas are exposed to cyclones, storms and heavy rains.

- FLOODS:

Flash floods have disastrous consequences, especially because of the location of housings on river banks or in delta areas.

DROUGHTS

Are progressing. They create environmental displaced people, pressuring on housing, employment, basic services, food supply ... and swelling slums

The cost of natural disasters is growing with economic growth: \$1.5 trillion in damage worldwide between 2003 and 2013



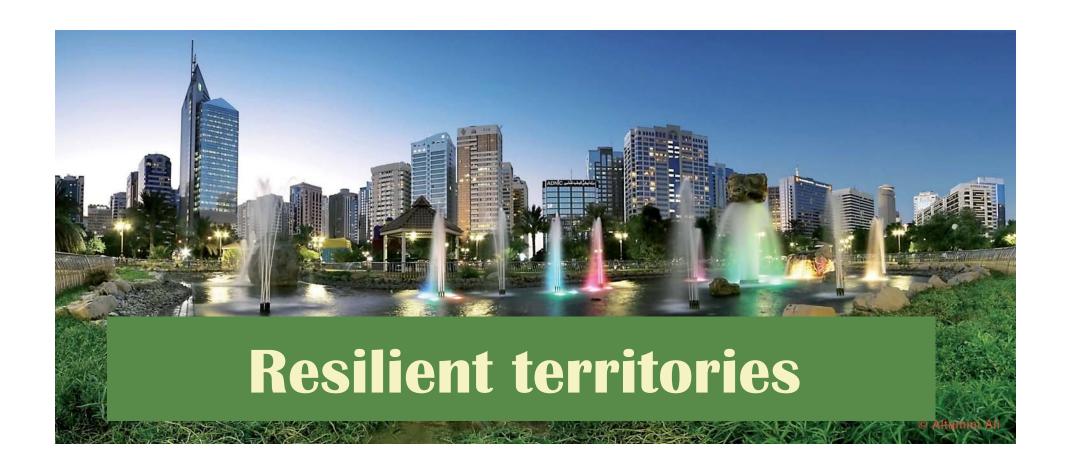


Towards resilient towns and countries

WHAT IS RESILIENCY?

- <u>Capacity to cope with</u> climate evolutions, natural disasters, urbanization
- <u>Capacity to protect</u> populations and secure economic, cultural and environmental heritage
- <u>Capacity to reduce</u> the impact of crises and improve global performance



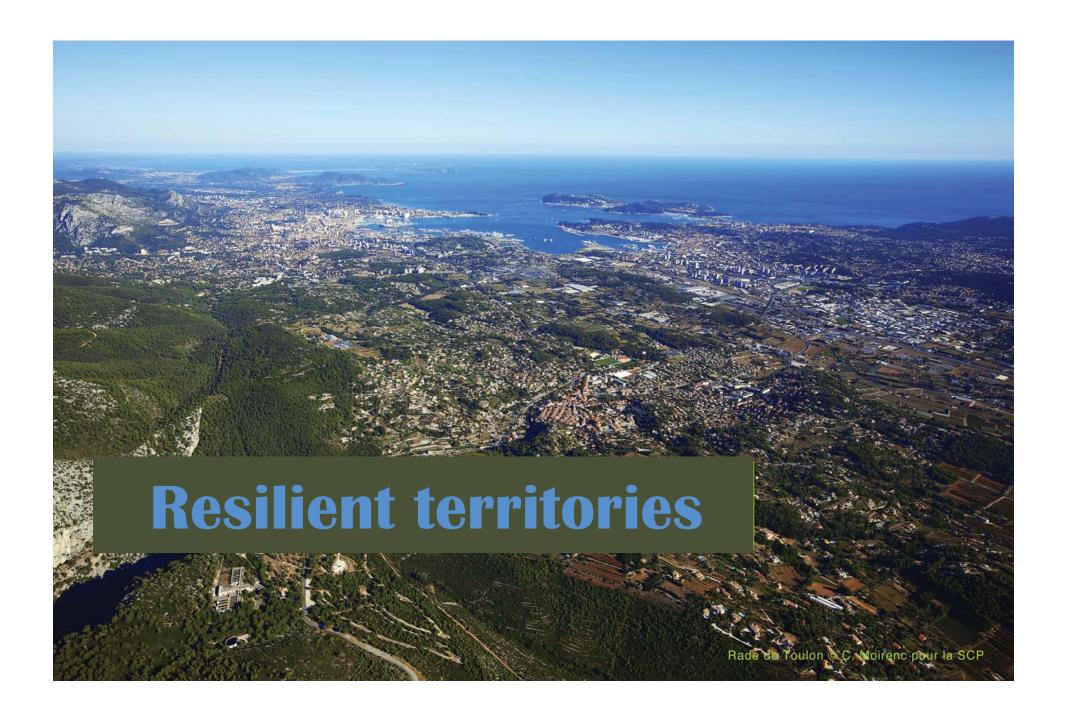


Towards resilient towns and countries

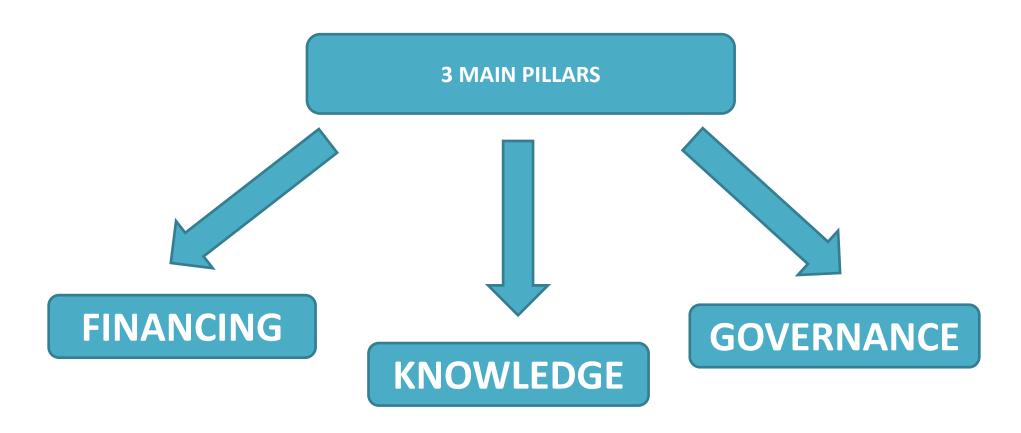
RESILIENT TERRITORIES SOULD CONCILIATE

- Efficiency and Sustainability
- Human Development and Nature Conservancy
- Increased Supply and Controlled Demand
- Preparedness Duties and Response Rights





Resiliency is built on







Financing for resiliency

- Financing adaptation measures would only represent 0,38% of the world's GDP
- Adaptation costs of the 20 largest cities of the world vary from 15 million in Addis Ababa to 1 600 million in NYC (London University College)
- The G7 InsuResilience Initiative is aiming at increasing the number of people covered by individual insurance policy from 100 to 400 million in developing countries by 2020.
- Investment in Resilience pay off with every dollar bringing a return of 4 dollars (Rockefeller Foundation)





Governance for resiliency

- Under the New Urban Agenda (Habitat III Quito), promoting the development of resilient infrastructures, which will reduce risks and impacts, especially in informal settlements
- Forming economic and political leaders to risks management and inclusive resilient policies
- Appointing in each cities and rural communities a Resilience
 Officer to promote and coordinate resilient initiatives
- Facilitating parliamentarian action for resilience, through laws and regulation, national budgets and international treaties





Knowledge for resiliency

- Elaborating urban risks prevention plans
- Building resilient capacities for local authorities
- Promoting good practices for the public at large
- Adapting school programs and trainings
- Building on innovative medias and social networks





Urban development requires more resources

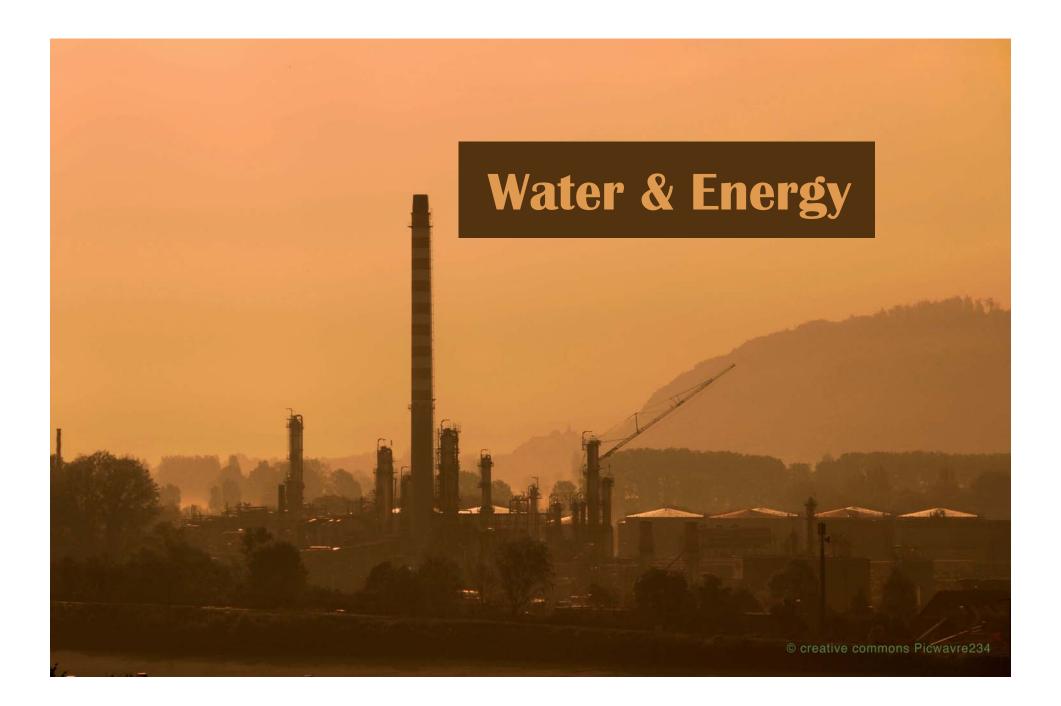
Water

The urban water consumption is likely to double by 2025 due to rapid urban population growth, inadequate planning, pollution, poverty, competing demands on the resource...

Energy

Cities account for between 60 to 80% of energy consumption and generate as much as 70% of the human-induced greenhouse gas emissions primarily through the consumption of fossil fuels for energy supply and transportation.





Water and energy transition: fuel for resiliency

- A significant change in water and energy policies
- Make buildings and housings more energy-efficient
- Give priority to clean transport
- Making today wastes tomorrow materials
- Building Up Renewable Energy
- Fight against energy and water poverty
- Inclusive Green growth policies, leading the way to resilient communities of city or country dwellers, are operating as fuel for resiliency







What can water operators do?

ADAPTATION AND RESILIENCE

- Recycling and reusing water to save water and energy and prevent tensions on different uses
- Adapting waste water processes to heavy rains
- Securing supply and storage urban systems
- Optimizing the efficiency of water networks





What can water operators do?

CIRCULAR ECONOMY AND ENVIRONMENTAL FOOTPRINT

- Treating and recycling waste water to produce heat and use less energy
- Developing smart networks to build the city of tomorrow ("positive energy")
- Producing renewable energies





Towards "Sponge" cities

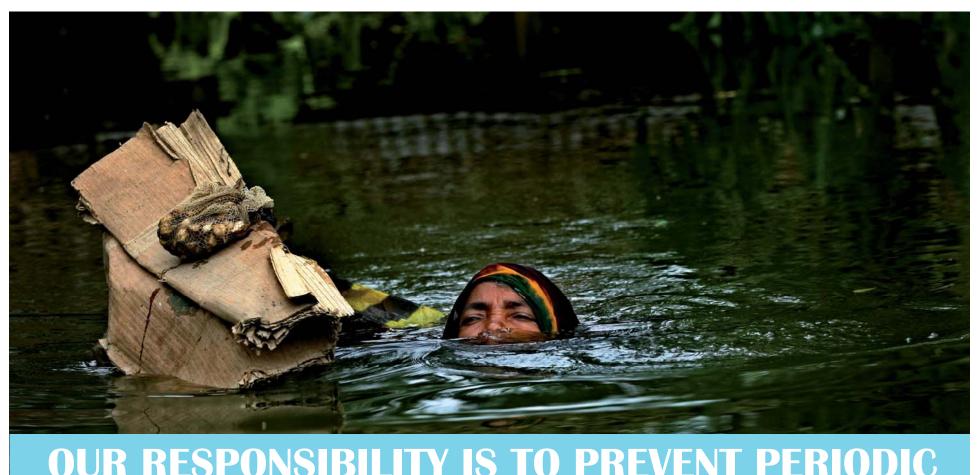
WHAT IS A SPONGE CITY?

Sponge City is an urban development paradigm that enable buildings, roads, green spaces, water system and other ecosystems to play full role to naturally store, infiltrate, detain and treat storm runoff, by strengthening the urban planning and development management.

Sponge cities is building a technical architecture of "Infiltration, Detention, Retention, Purification, Reuse, Discharge".

In 2015, more than 130 cities applied for a demonstration of sponge city.





OUR RESPONSIBILITY IS TO PREVENT PERIODIC DISASTERS FROM BECOMING PERMANENT





THANK YOU

worldwatercouncil.org