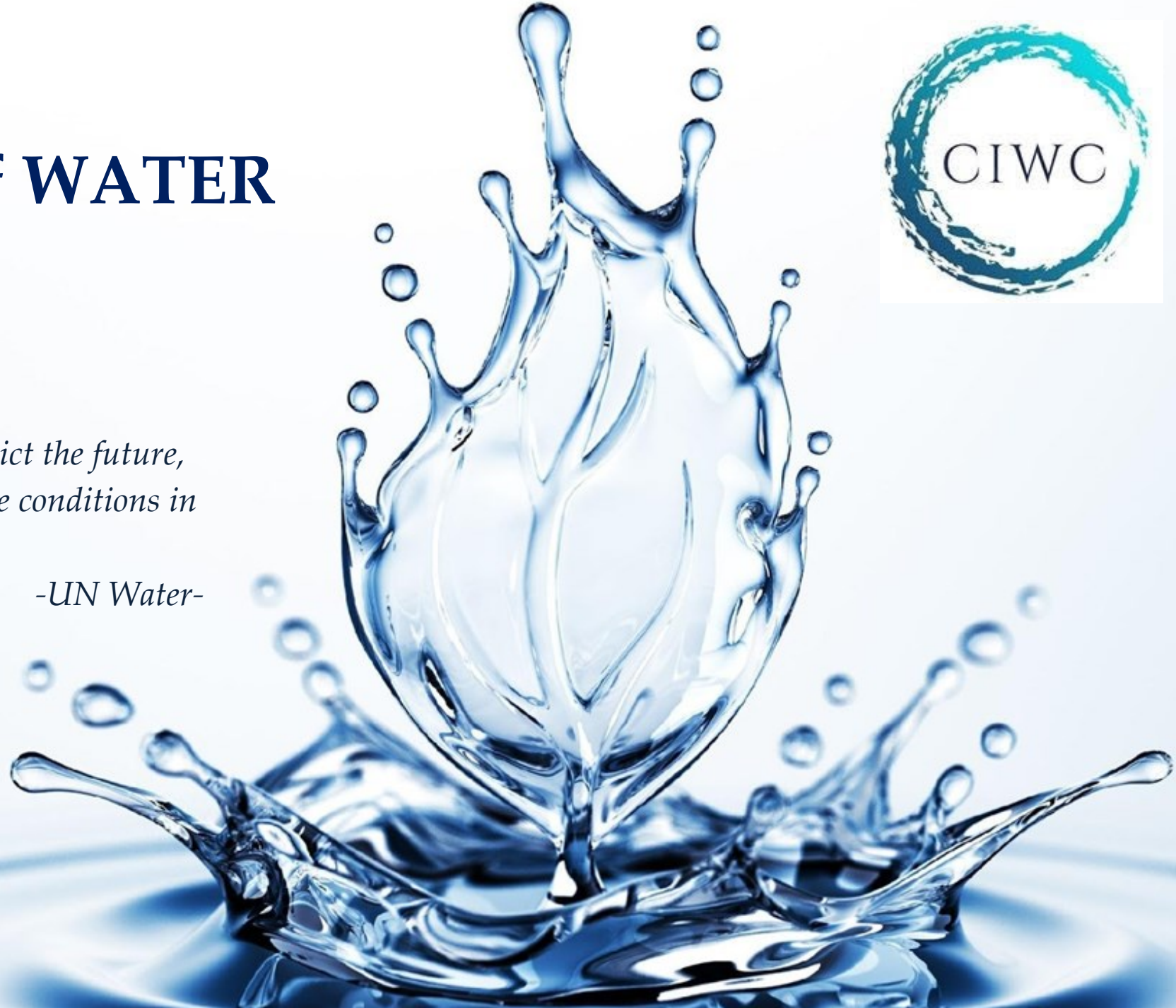


# The **FUTURE** of **WATER** in **CURAÇAO**

*“The past can no longer effectively predict the future,  
while we assume largely fixed and stable conditions in  
our decision-making”*

*-UN Water-*

*P. Girigori de Flores Martinez MSc  
Secretaris CIWC*



# Overview

- Who are we?
- Root cause analysis of the water problem
- Vision and policy objectives
- Proposed strategy

# Members of the Committee



# Structure of the Commission

The Project Management Team consists of:

- Chair of the Cie: **Mrs. V. Toré**
- Member of the Cie: **Mrs. C. Profas**
- Civil engineering expert: **Mr. G. Gijsbertha**
- Secretary: **Mrs. P. Flores-Girigori**





**REGERING VAN CURAÇAO**

COMMISSIE INTEGRAAL WATERMANAGEMENT CURAÇAO

*Root cause analysis*

# Current Situation



TARGET 6-1



SAFE AND AFFORDABLE DRINKING WATER

TARGET 6-2



END OPEN DEFECTION AND PROVIDE ACCESS TO SANITATION AND HYGIENE



TARGET 6-3



IMPROVE WATER QUALITY, WASTEWATER TREATMENT AND SAFE REUSE

TARGET 6-4



INCREASE WATER-USE EFFICIENCY AND ENSURE FRESHWATER SUPPLIES

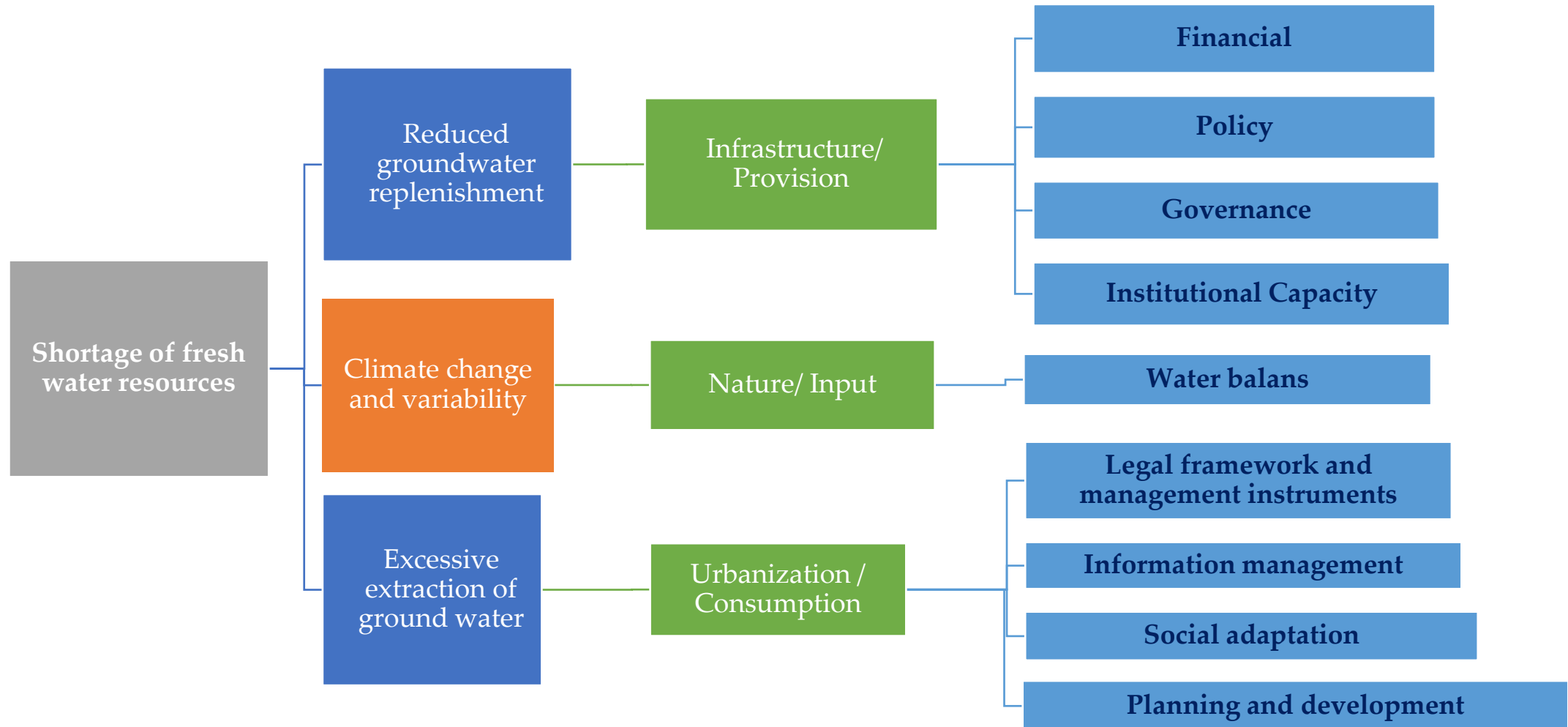
TARGET 6-5



IMPLEMENT INTEGRATED WATER RESOURCES MANAGEMENT

No data:  
Target 6.6  
on water-related  
ecosystems

# Root cause Analysis

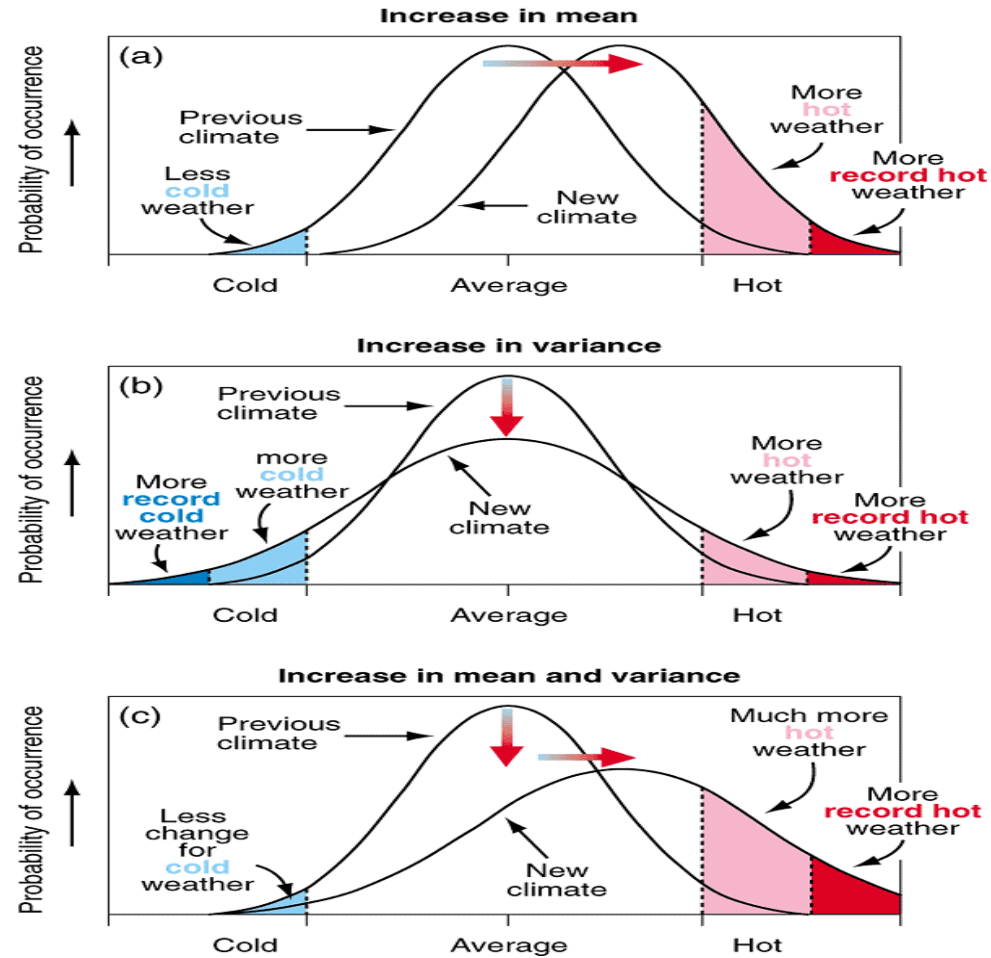


# Climate Variability

A dataset can be characterized by a mean and a variance

- The **mean** indicates the expected value of a random variable
- the **variance** is used as a measure of how far a set of numbers are spread out around the mean

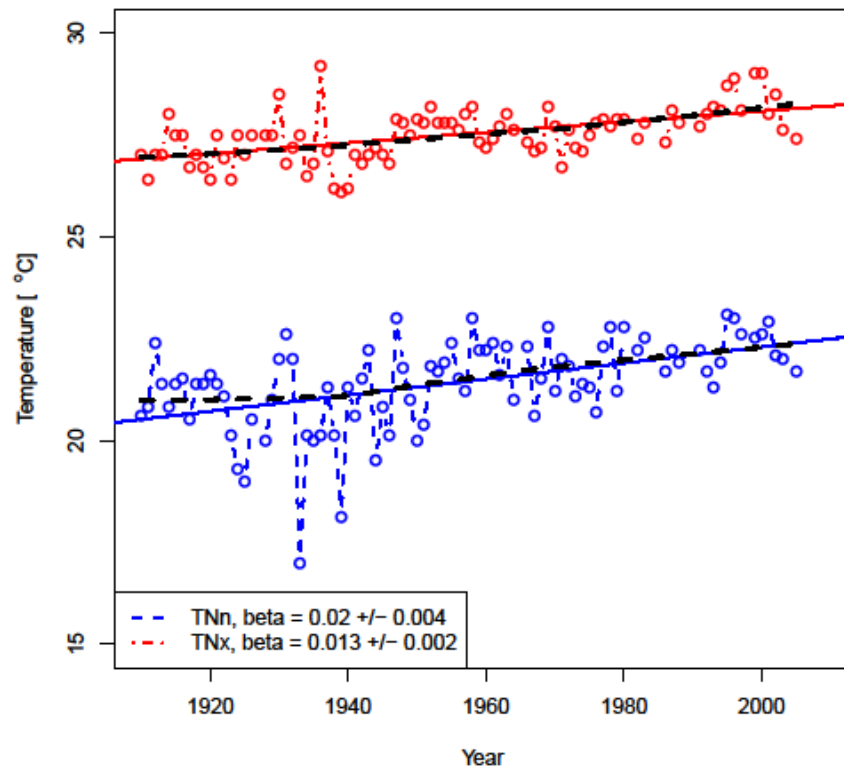
Why is the change in climate variability important??



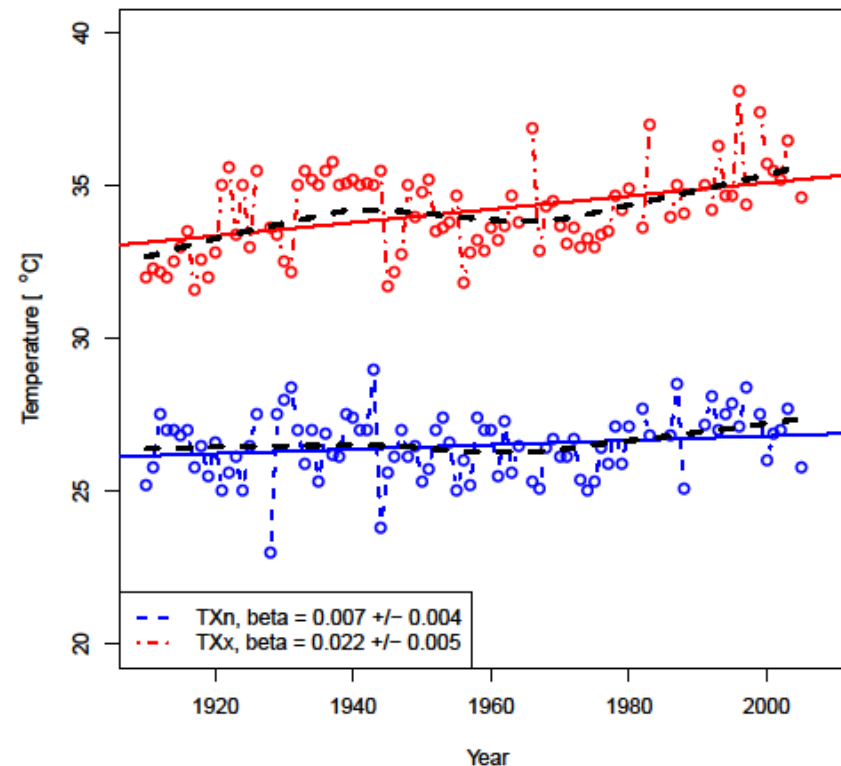


# Climate Variability: Temperature

Maximum (TNx) and minimum (TNn) of daily minimum Temperature

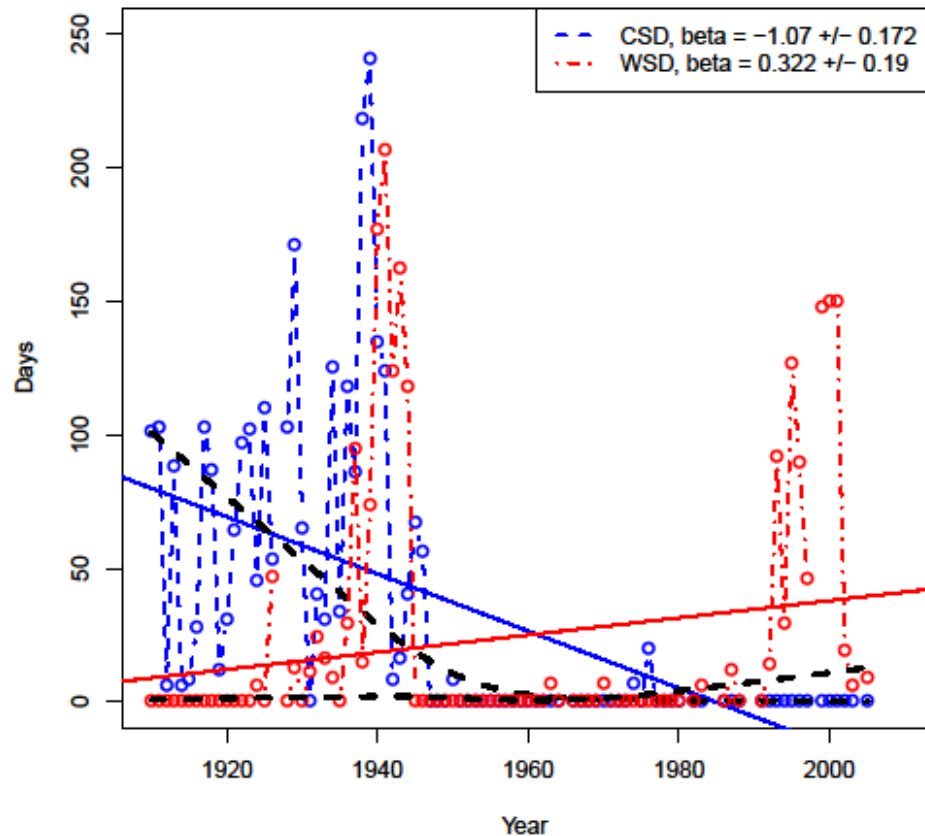


Maximum (TXx) and minimum (TXn) of daily maximum Temperature

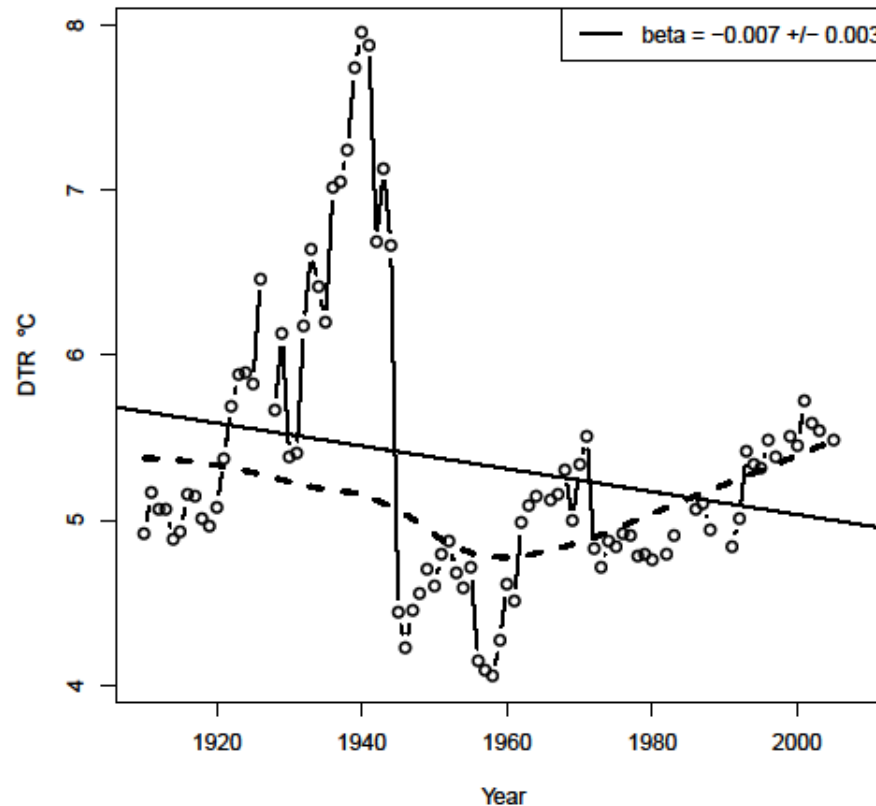


# Climate Variability: Temperature

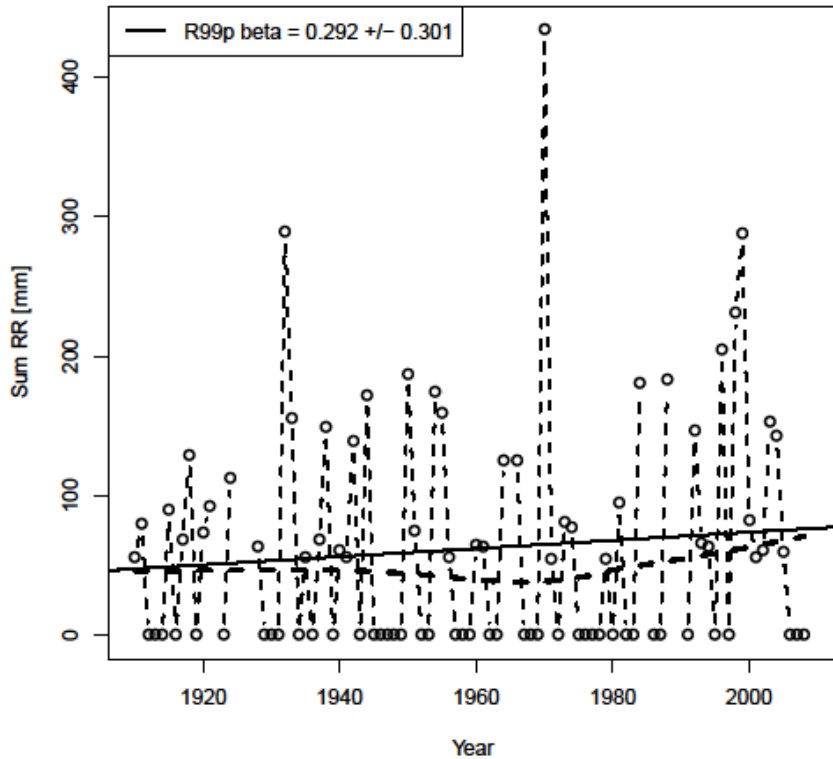
Change in periods of consecutive lower temperatures (CSD) and periods of consecutive warmer temperatures (WSD)



The diurnal temperature range is the difference between the maximum and minimum temperature

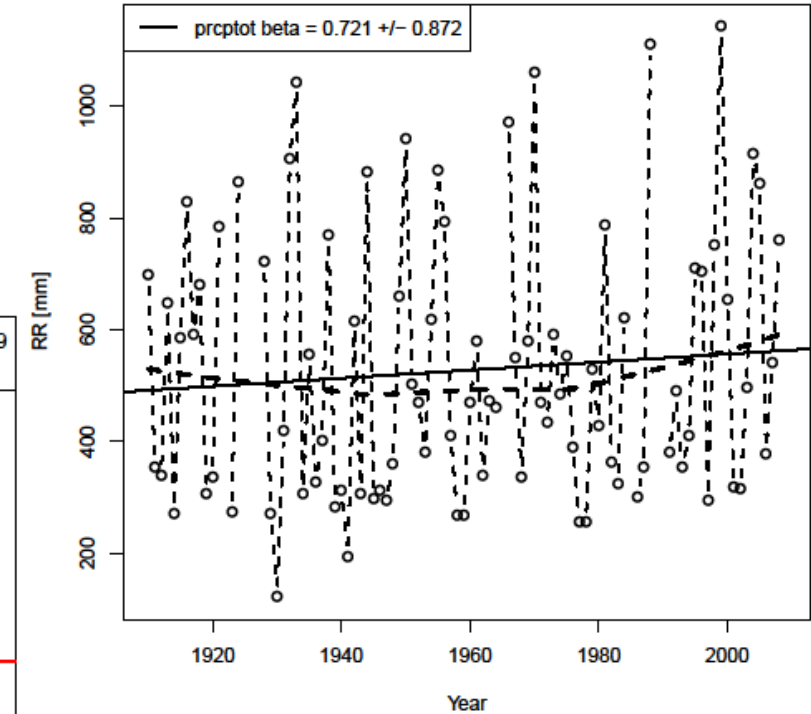
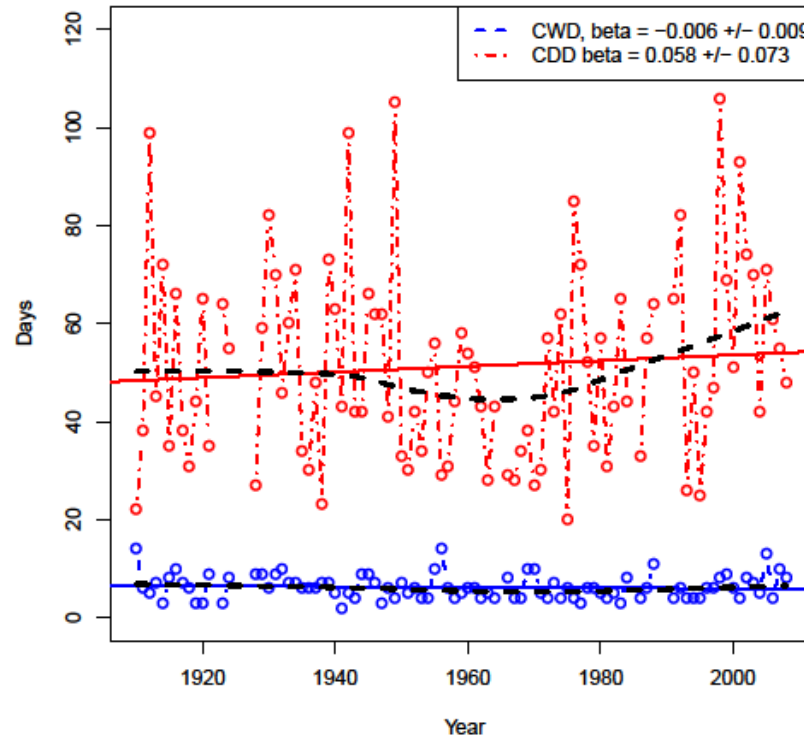


# Climate Variability: Precipitation



Changes in extreme precipitation

Consecutive wet (CWD) and dry days (CDD) show the change in the rainy and dry periods



Changes in total precipitation

# Expected Impacts: Curaçao

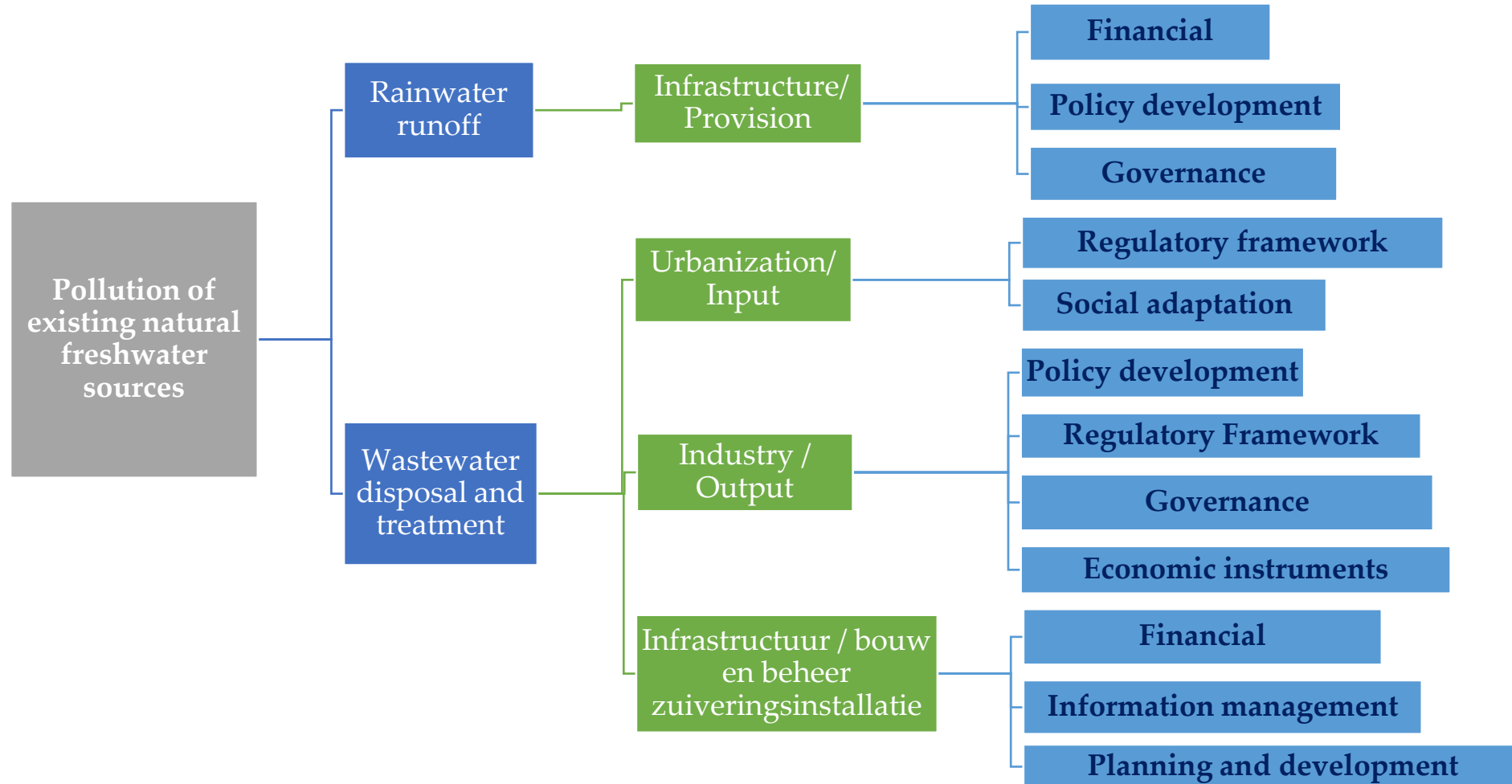
## Temperature Variability

- An extremely likely (>95%) increase in temperature, warm spells and heat waves
- An extremely likely (>95%) increase in warmer and more frequent hot days and nights
- Increase in evaporation due to higher temperatures

## Precipitation Variability

- A more likely than not (>50%) increase of extreme rainfall events
- A more likely than not (>50%) increase of the dry season
- A very likely (>90%) increase in rainfall intensity

# Root cause Analysis





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*Vision and policy objectives*

# *Curaçao, livable and sustainable through water.*

The Policy Objectives of this Policy are:

- **Water efficiency** - By 2030, the residents and sectors on Curaçao will make efficient use of water.
- **Water equity** - By 2030, water will be affordable for everyone and everyone will have access to safely managed water supplies;
- **Water security** - By 2030, 50% of water sources will meet the established standards and requirements for quality;
- **Water sustainability** - In 2030, all water sources on Curaçao will be sustainably managed;
- **Water safety** - By 2030, the risk of flooding, coastal flooding, coastal erosion and drought will be sustainably managed to a nationally accepted level.



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*Strategy & Instruments*



**Strategy I:  
Making the water  
management system circular**



**REUSE  
REDUCE  
RECYCLE**



# Strategy II: Application of water retention infrastructure



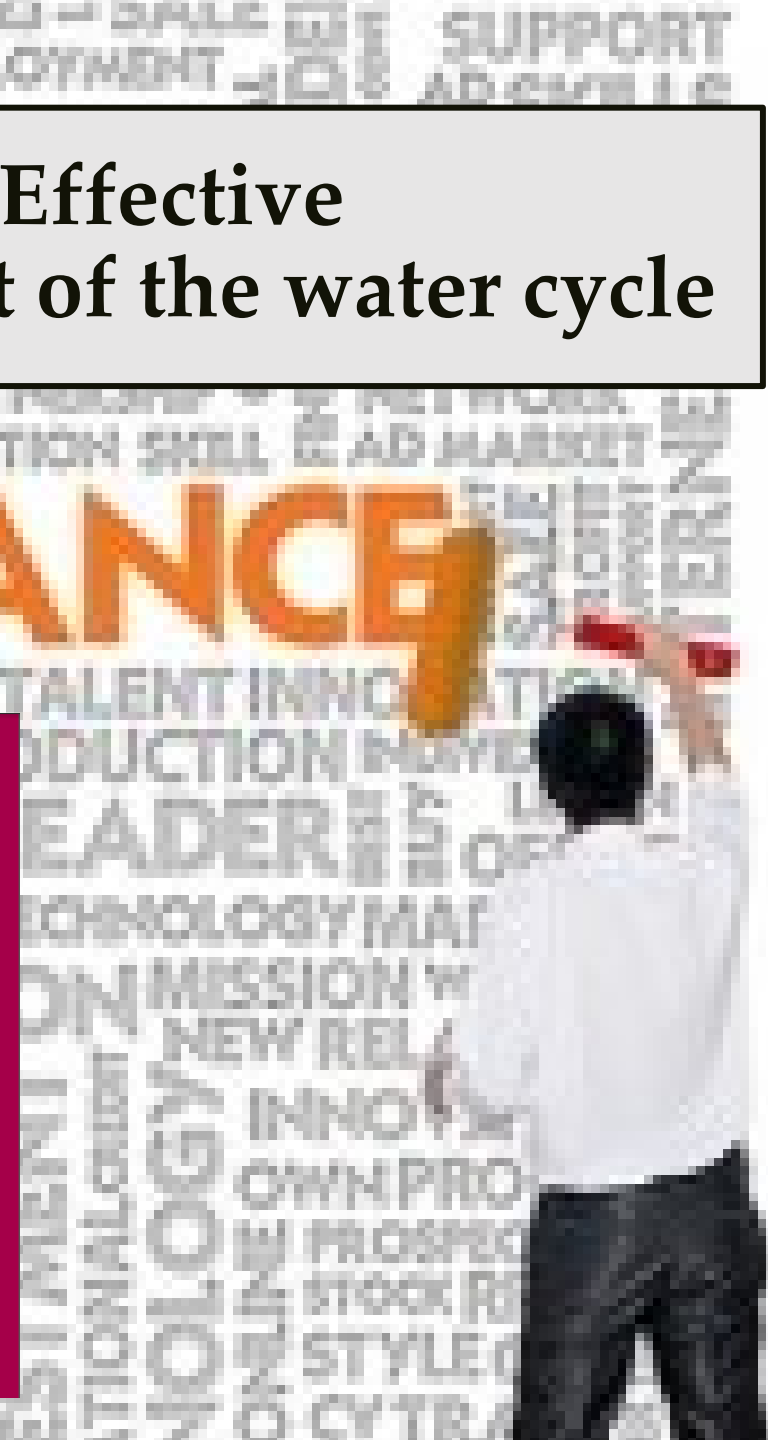
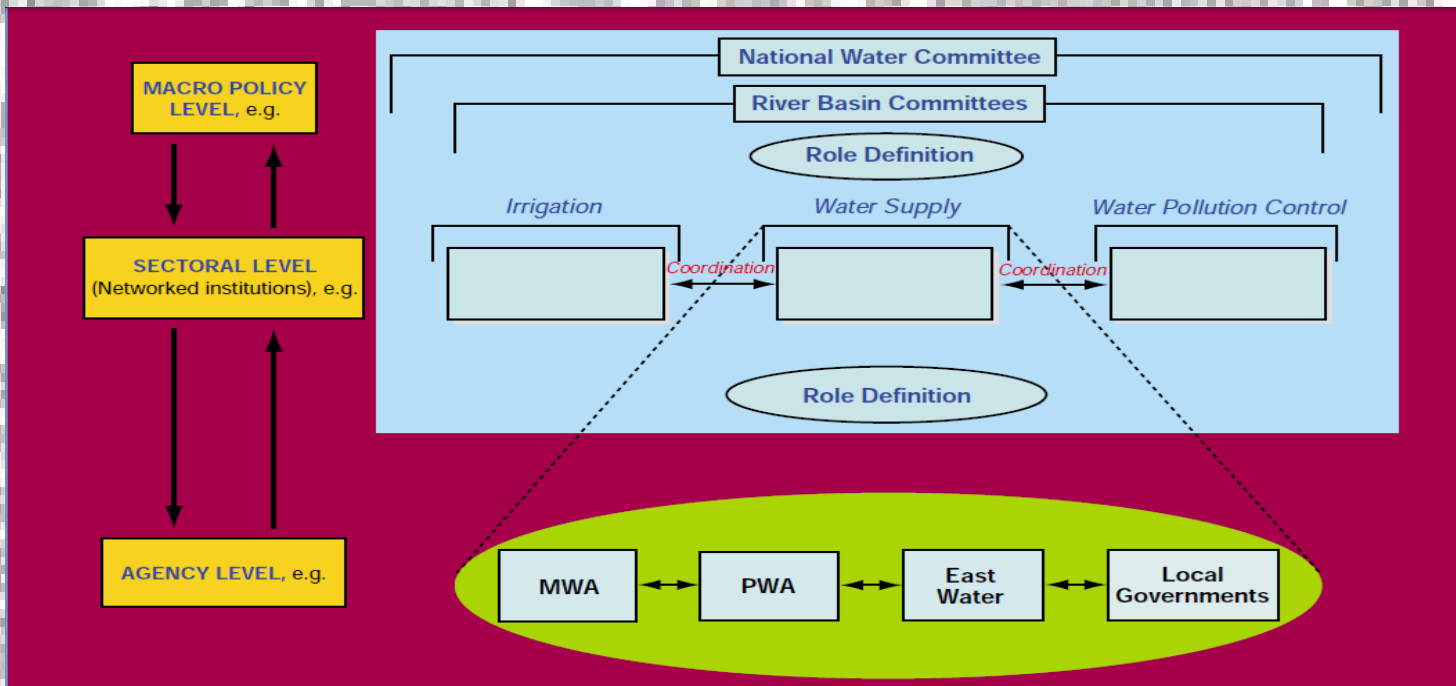
A photograph of a paved path with a metal railing, set against a background of green grass and trees. The path is made of dark asphalt and runs diagonally across the frame. A silver metal railing with vertical posts is on the left side of the path. The background is a lush green lawn with some trees and bushes. The overall scene is bright and sunny.

## **Strategy III: Effective management of water resources**

# GOOD

## Strategy IV: Effective management of the water cycle

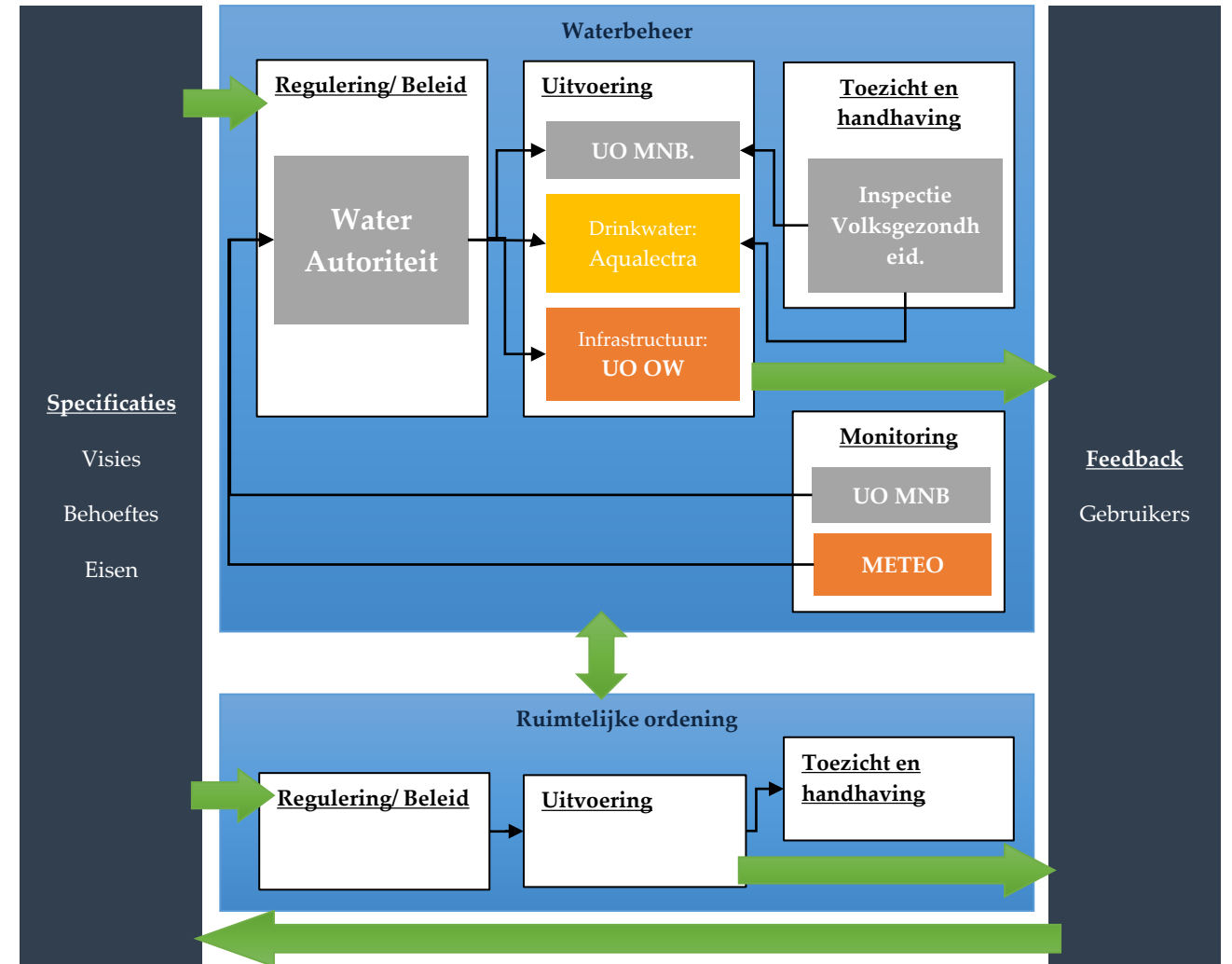
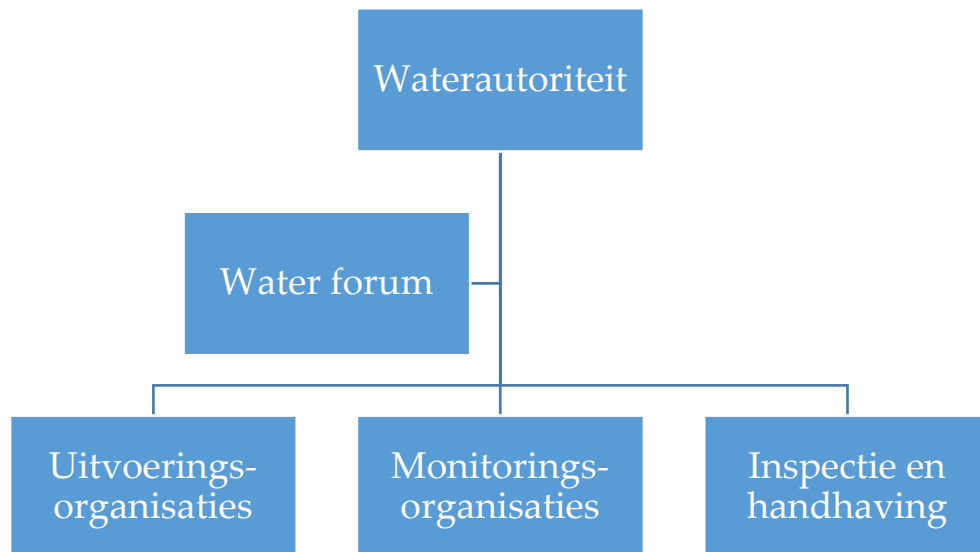
# GOVERNANCE



# Institutional Framework for Water

## Best practice:

One organization with the mandate for planning-  
Development and management  
strategies





**Strategy V:  
Data and information  
management**



**Strategy VI:  
Strategic application of  
communication**

# Stakeholder Consultation:



<https://www.publicpolicycuracao.com/>



