

# International Workshop on Environmental Policy-Making Instruments

## **ENGAGING SOCIETY IN THE BRAZILIAN WATER MANAGEMENT: HOW TO IMPROVE PROTECTION AND RESILIENCE**

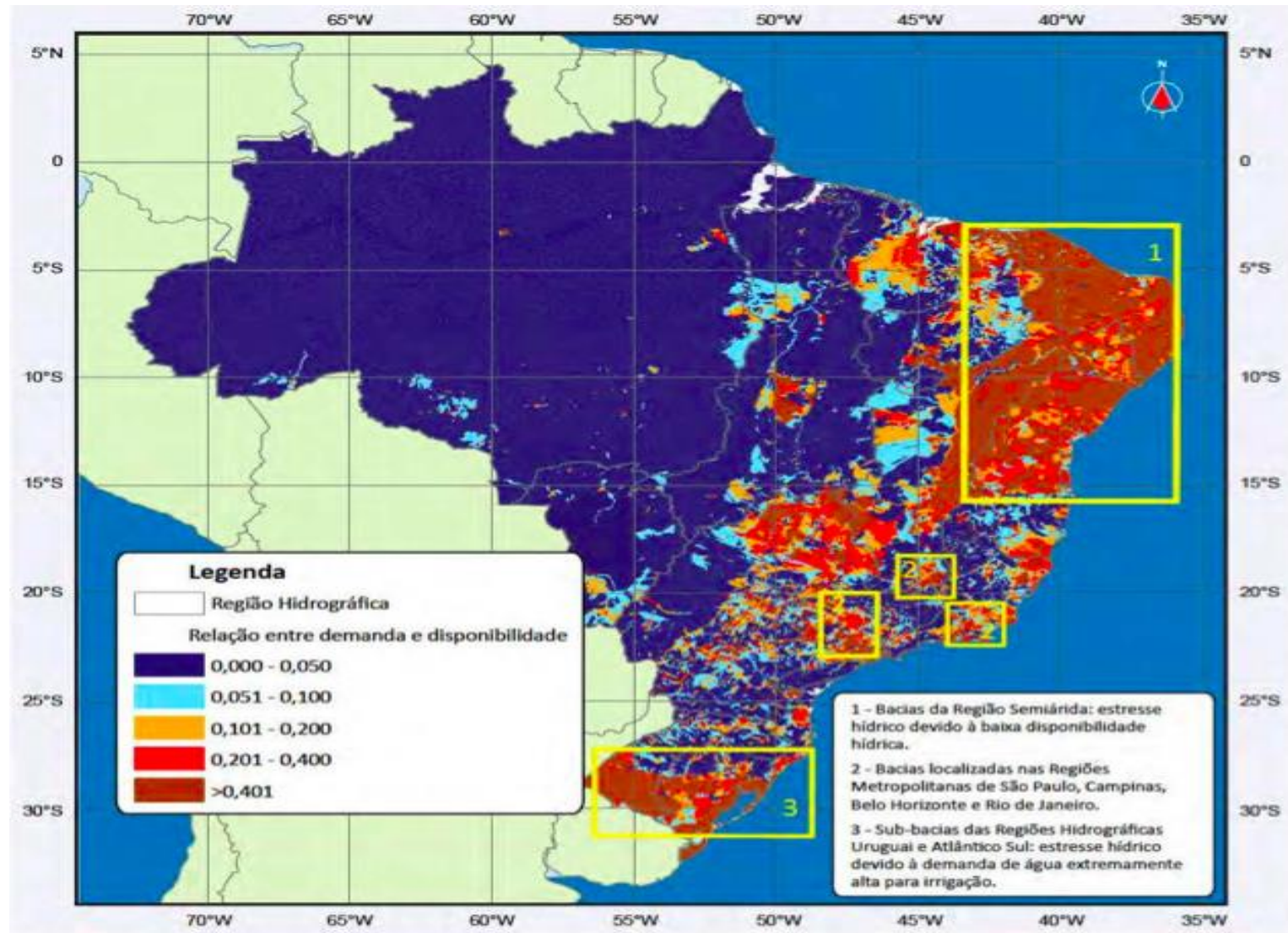
Osaka University  
March, 2015

**Patrícia Faga Iglecias Lemos**

Secretary for the Environment – State of São Paulo

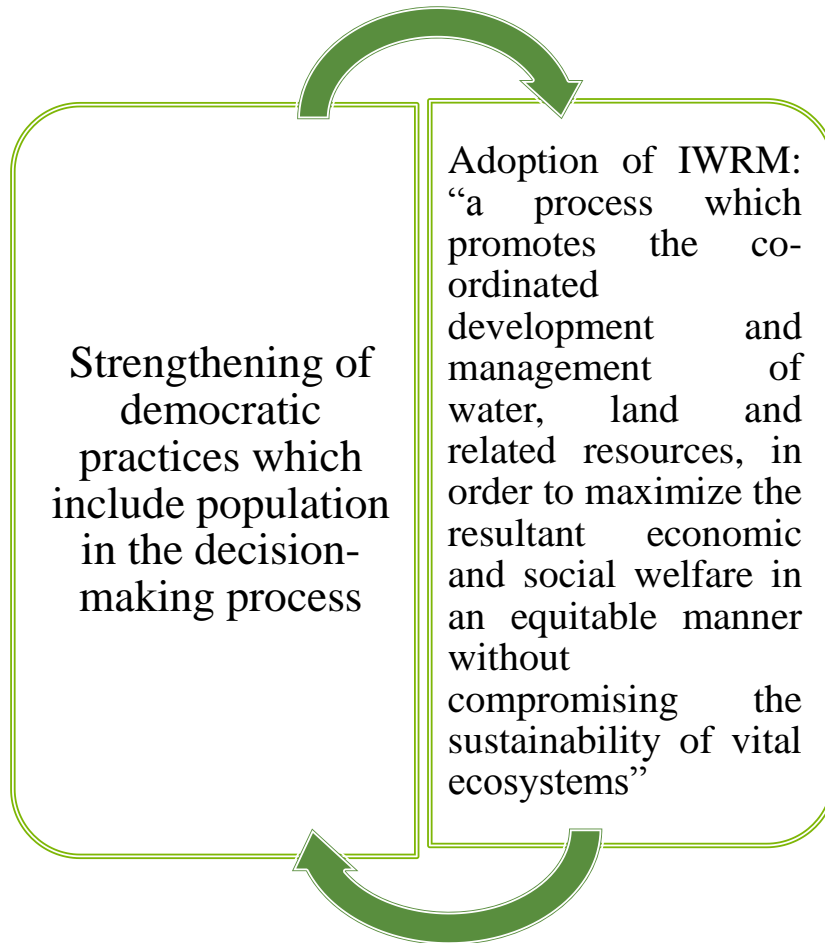
Associate Professor – University of São Paulo/Faculty of Law

## Situation of the main Brazilian watersheds in relation to the demand versus territorial division of surface water



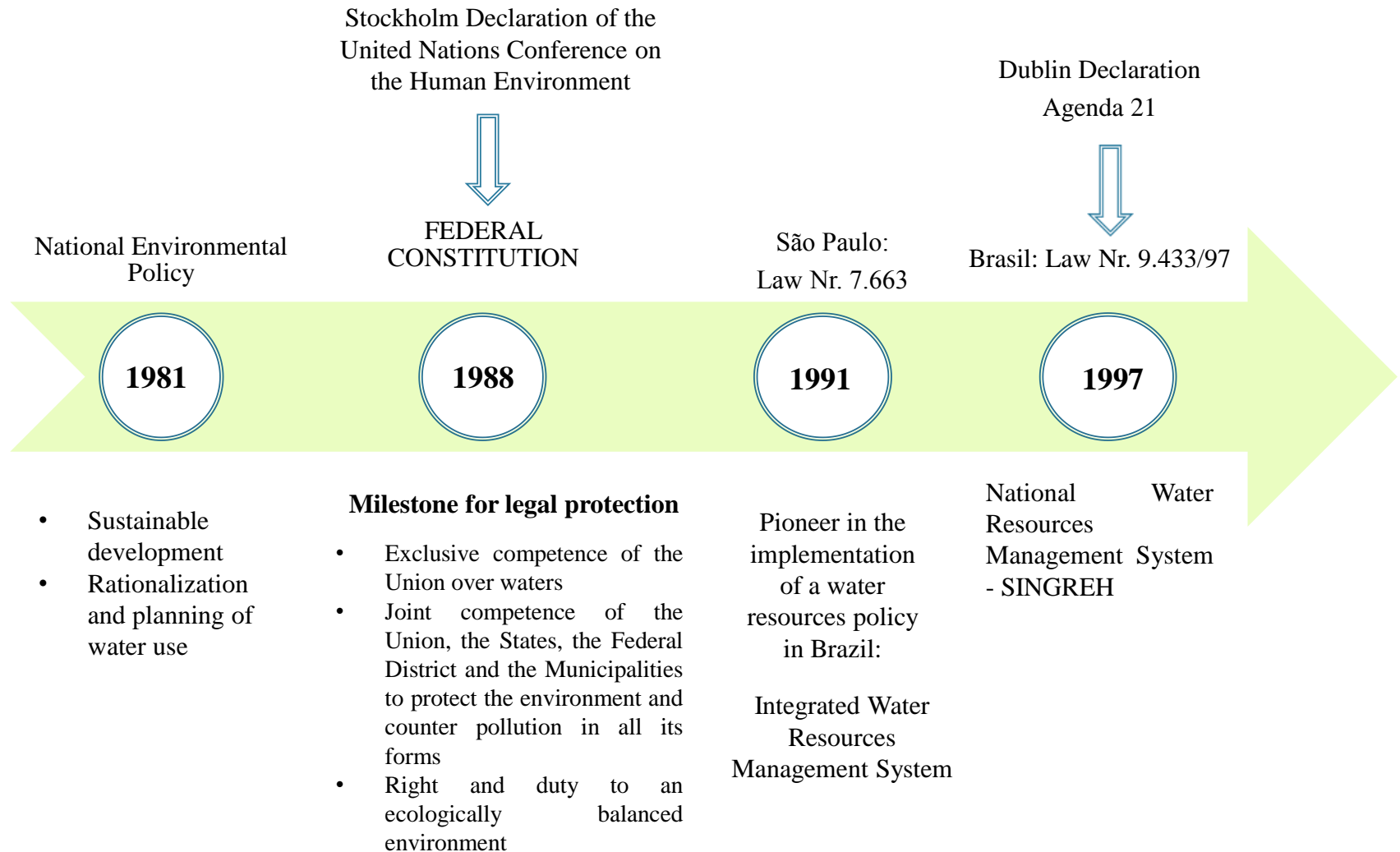
**Brasil: 33.841m<sup>3</sup> per capita**

# Brazilian model of water resources management

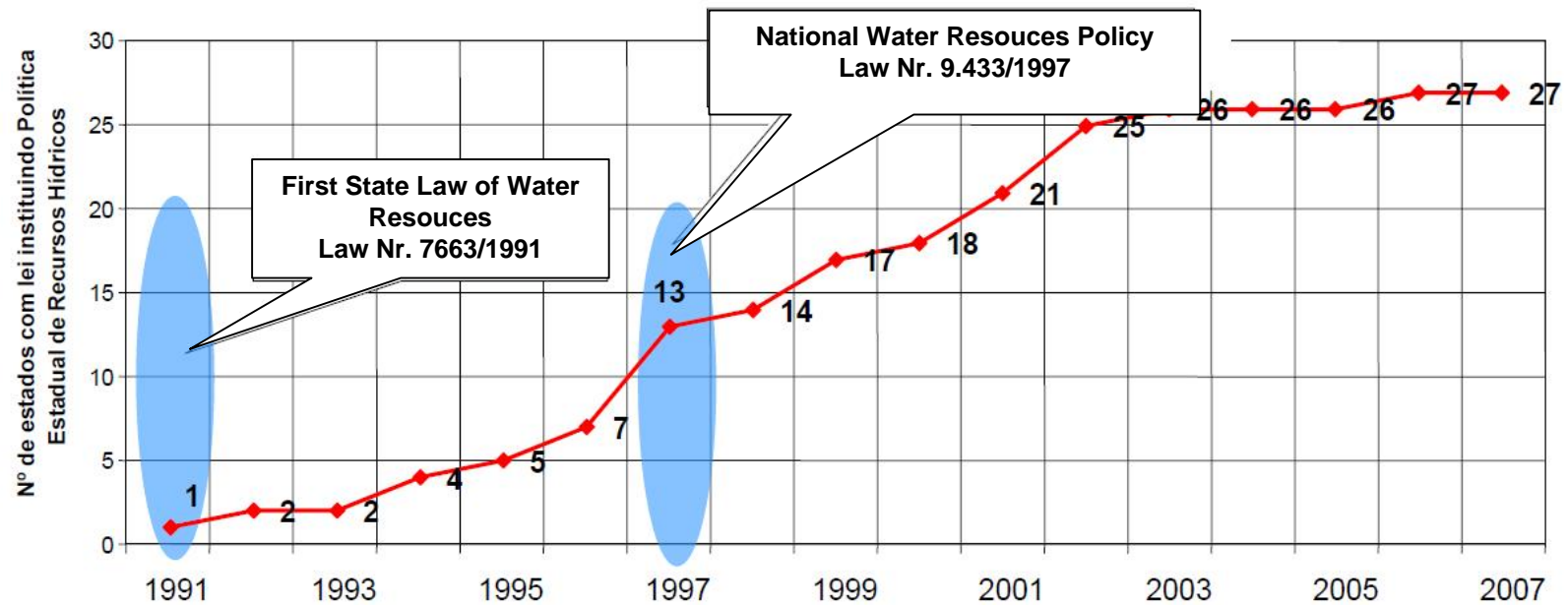


Environmental governance process aiming to strengthen water protection and increase resilience in face of pressures on natural resources

# Historical evolution of the Brazilian legislation

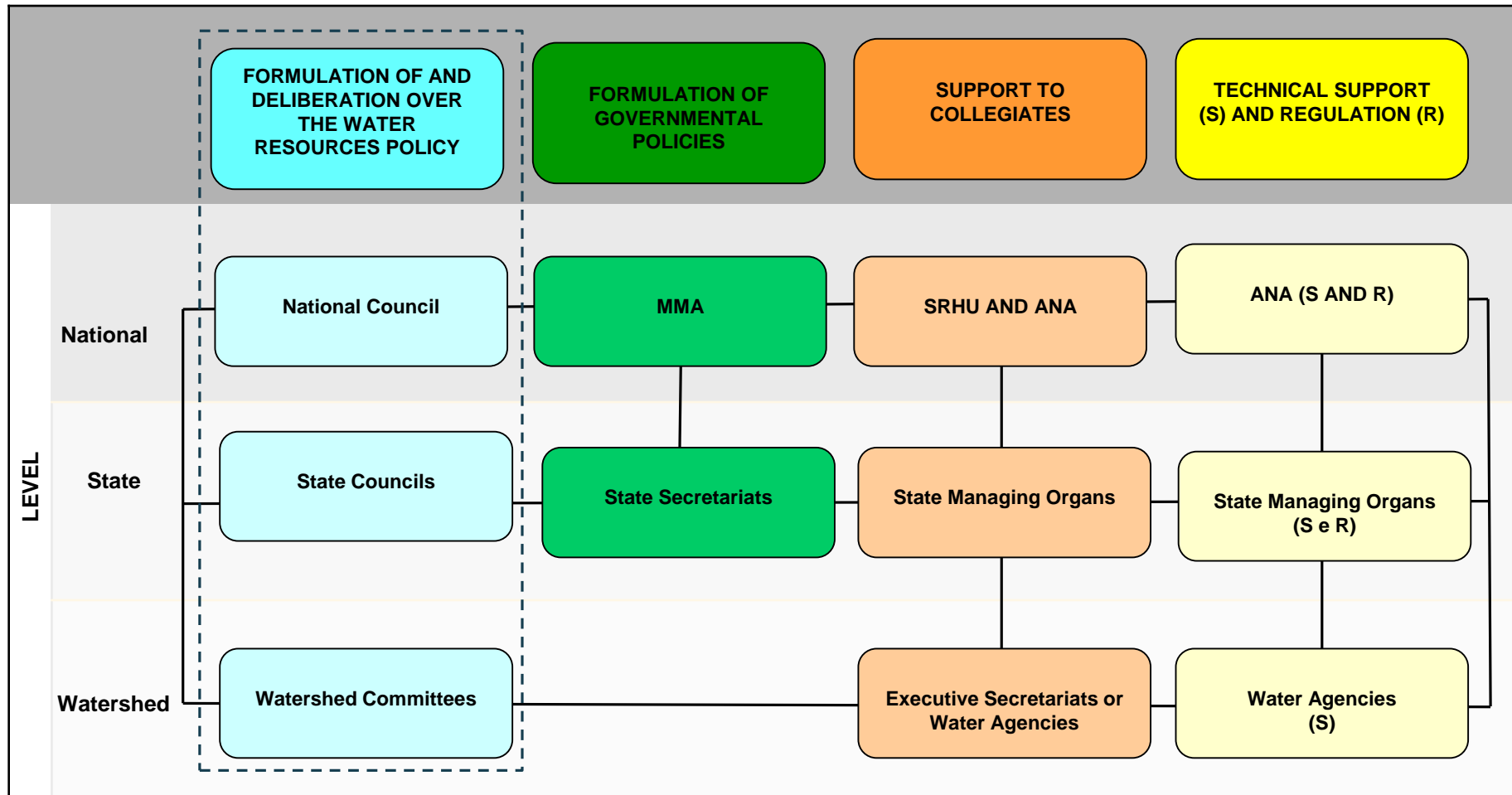


# States with Water Resources Policies

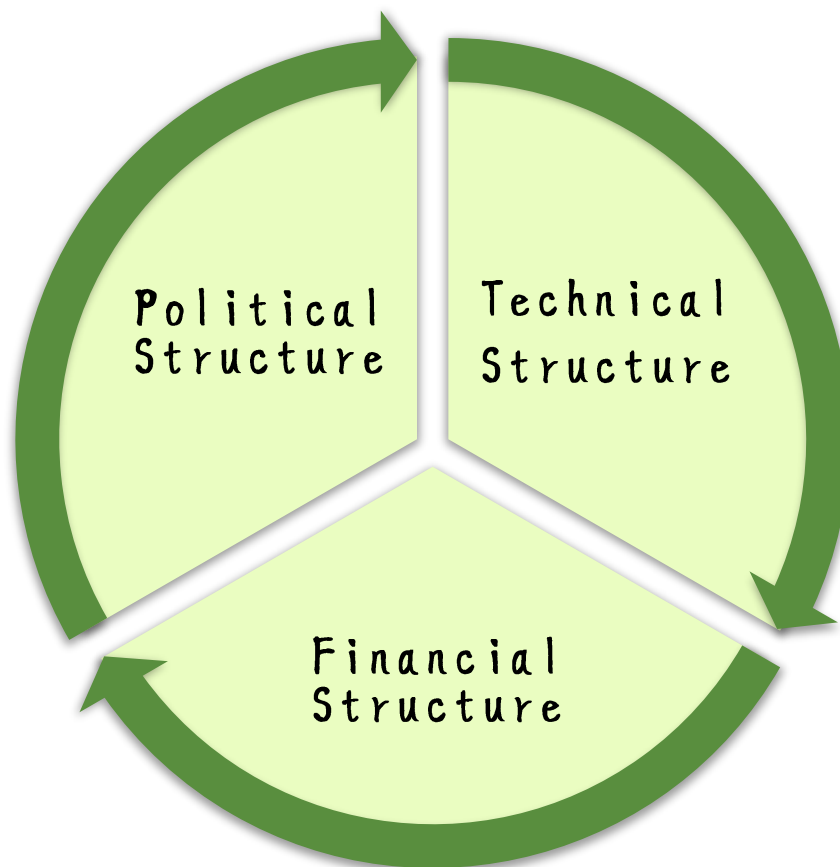


Source: ANA, 2014

# Institutional Matrix of the National Water Resources System



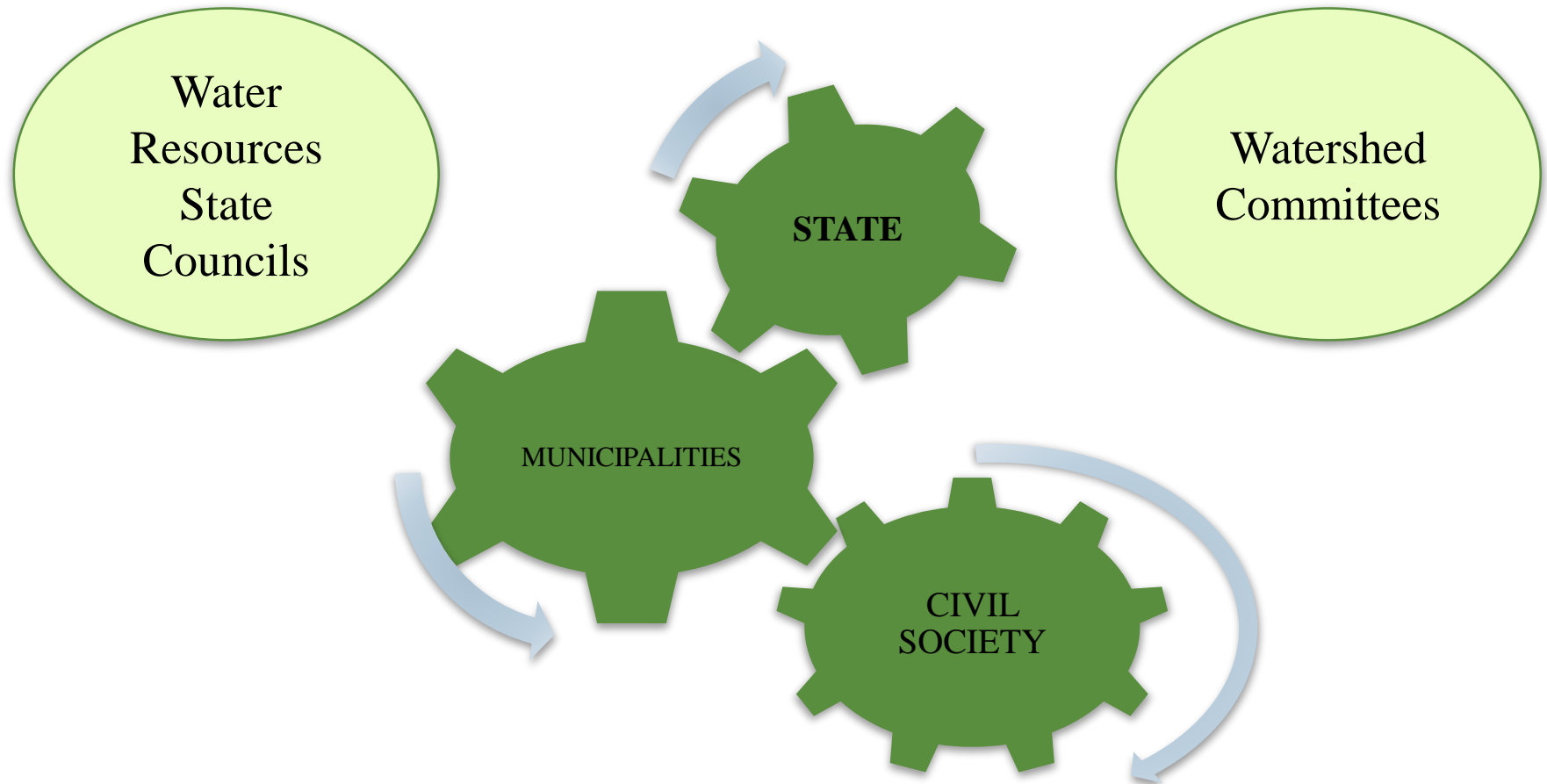
# The Water Resources Management System in the State of São Paulo





# The Water Resources Management System in the State of São Paulo

## Political Structure:





# Water Resources State Council

Discuss and approve bills regarding the State Water Resources Plan

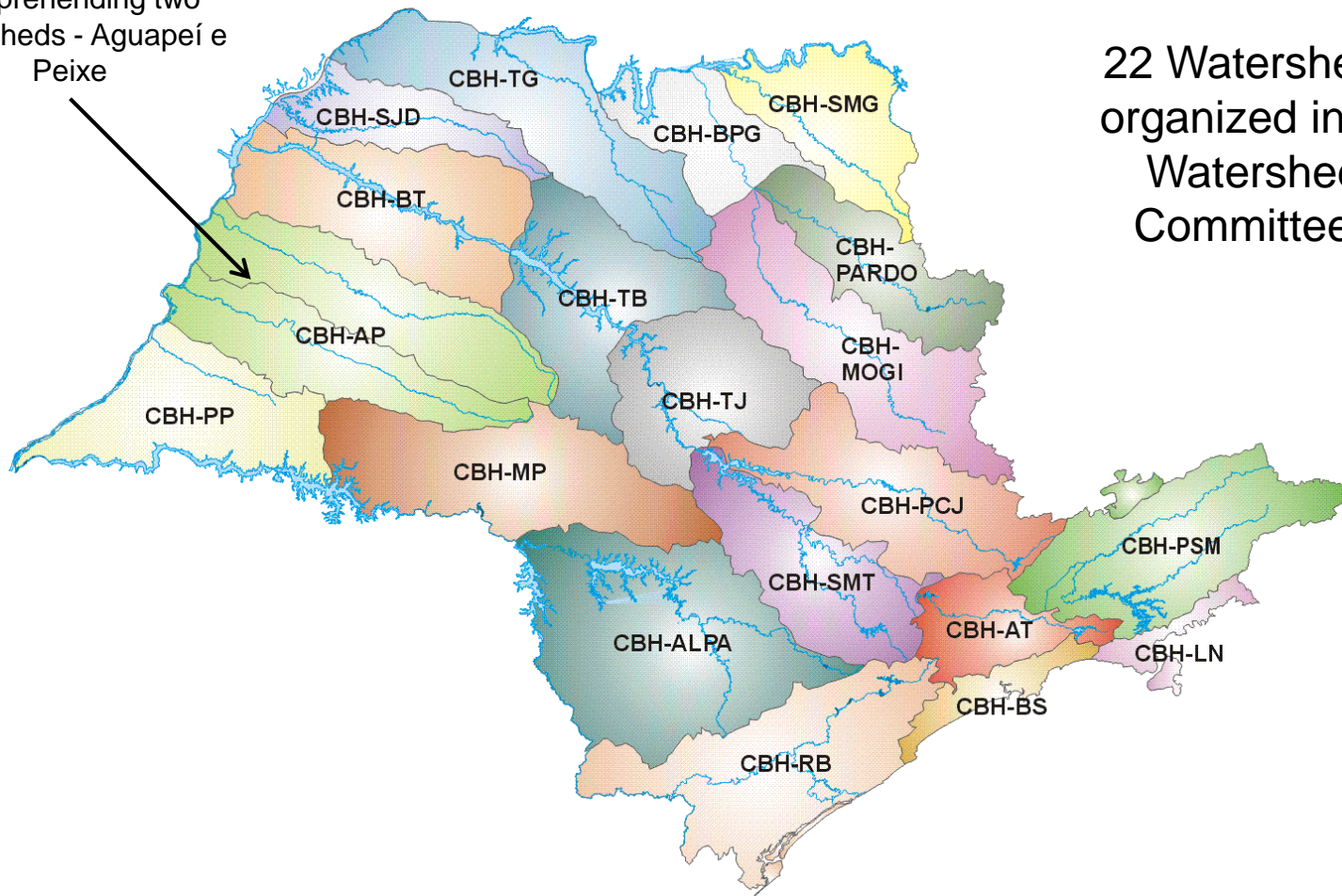
Approve the periodical “Situation of Water Resources in the State of São Paulo” report

Exercise normative and deliberative functions related to the formulation, implementation and follow-up of the State Water Resources Policy

Establish directives to formulate annual and pluriannual programs to apply resources of the Water Resources State Fund – FEHIDRO

# Watershed Committees of the State of São Paulo

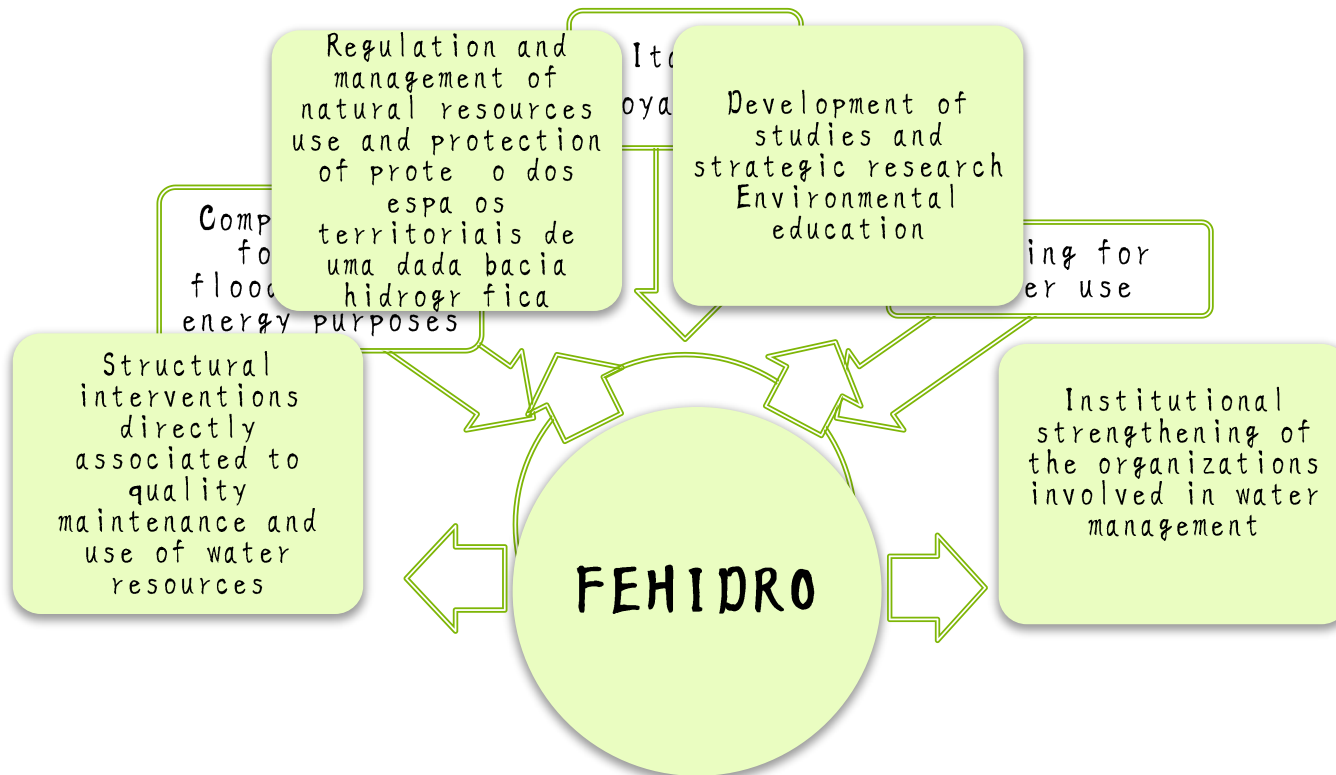
only Committee  
comprehending two  
watersheds - Aguapeí e  
Peixe



22 Watersheds  
organized in 21  
Watershed  
Committees

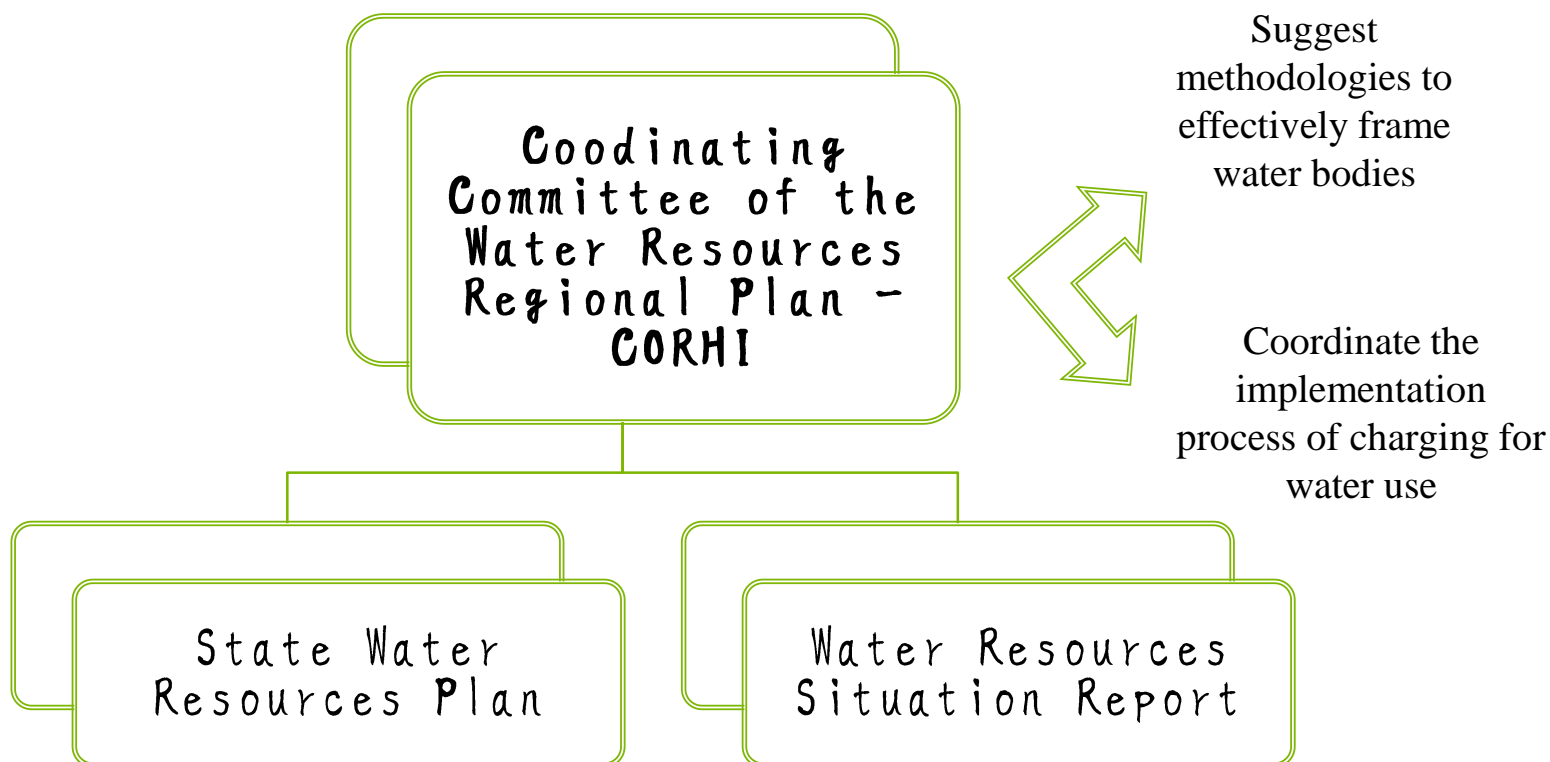
# The Water Resources Management System in the State of São Paulo

## Financial Structure:



# The Water Resources Management System in the State of São Paulo

## Technical Structure:



## Technical Structure:

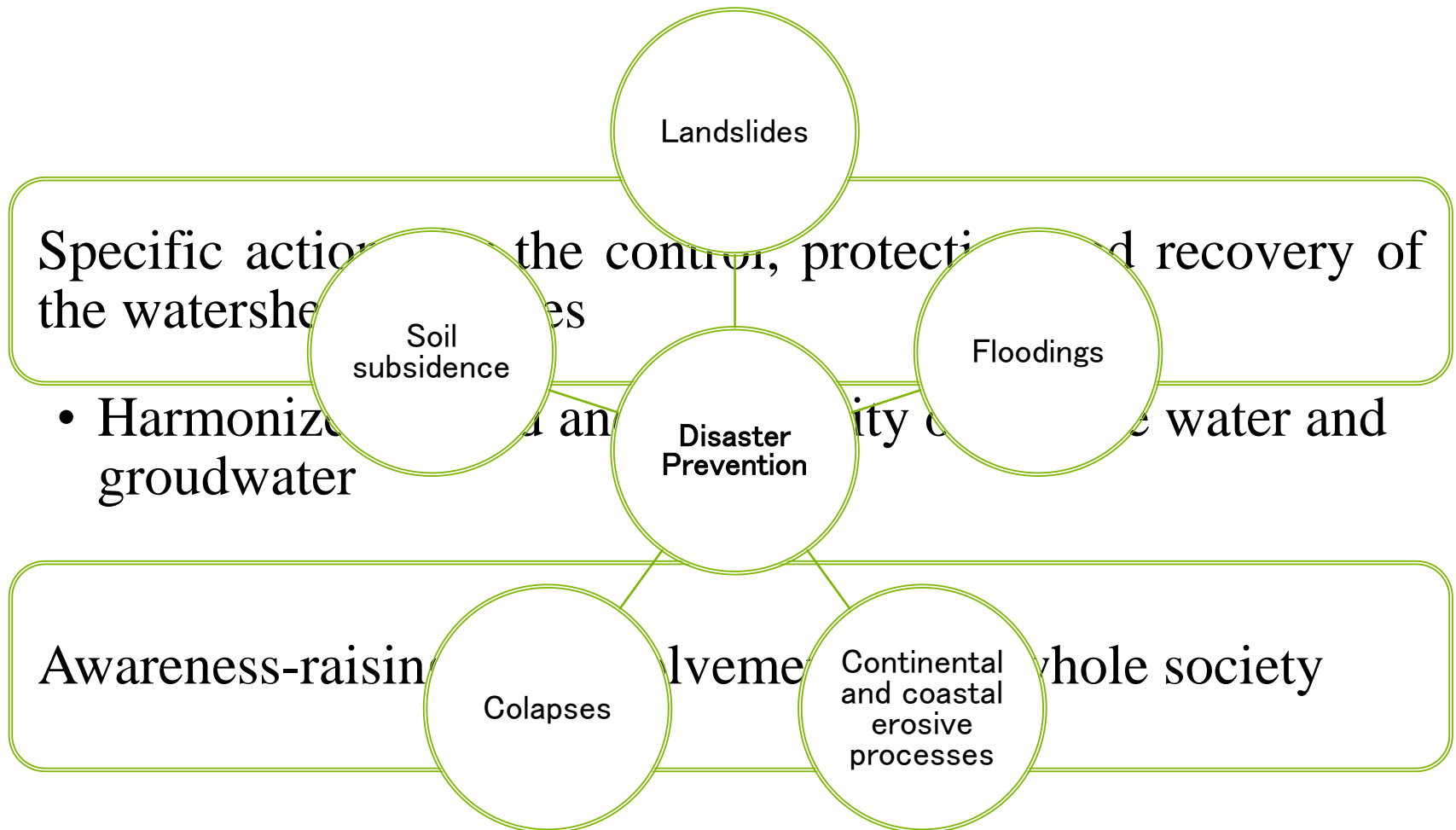
### State Water Resources Plan

- Directives, actions and priority resources for the State and each of the watersheds


### Report on the Situation of Water Resources

- Development of a specific watershed regarding indicators on water resources quality and quantity

# São Paulo State Water Resources Plan



## Disaster Prevention

- Directives and priorities established in the State Programme for Prevention of Natural Disasters and Mitigation of Geohazards for (State Decree Nr. 57.512 of 11/11/2011)
- Increase of the social perception regarding the sustainable use of water, land and other natural
- Increase in resilience  when revealing the direct impact from inadequate use and occupation of the watersheds territories
- Model for the management of risk areas in state and federal plans



# Participation of society in the management of water resources

FEHIDRO

Contracts signed by civil society: 18% of the total amount of financings between 2011 and 2014

Projects

Environmental education

Capacity-building within  
members of the  
Committees

Sewage treatment in  
isolated communities

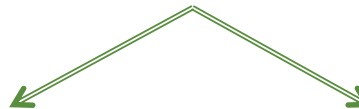
Reforestation and  
containment of erosive  
processes

# Participation of society in the management of water resources

Program for the Riparian Forest Recovery and Vegetation Restoration of Water Catchment Basins (Decree Nr. 60.521, of 5 June 2014)

Coordinated actions involving federal, state and municipal organs and entities, non-governmental organizations and the business sector.

Water resources  
conservation



Riparian forest  
recovery

# Riparian Forest Program

Program of the Secretariat for the Environment of the Government of São Paulo

Recover about 20 thousand hectares of riparian forest (equivalent to 40 million seedlings) and protect 6.000km of water courses

Chanelling of public and private investments to the following watersheds which concentrate more than 30 million inhabitants:

Alto Tietê

Paraíba do Sul


**Piracicaba-  
Capivari-Jundiaí  
Jundiaí (PCJ)**

# PCJ Watershed

## Cachoeira Project

### PCJ Watershed

One of the four major reservoirs of the Cantateira System



Cachoeira Reservoir, located in the municipality of Piracaia



### Cachoeira Project

Planting of 350 hectares in the surroundings of the reservoir

# State Law Nr. 9.866/97

“Foresees directives and norms for the protection and recovery of watersheds of regional interest for the State of São Paulo”

## Goals:

Preserve and recover springs of regional interest in the State of São Paulo, especially in the Metropolitan Region of São Paulo, with 21 million inhabitants distributed on 7.947 km<sup>2</sup>

Harmonize the preservation of springs with the use and occupation of land and socio-economic development

Promote a participative management, integrating governmental institutions and civil society

Descentralize planning and management of these watersheds and springs, aiming their protection and recovery

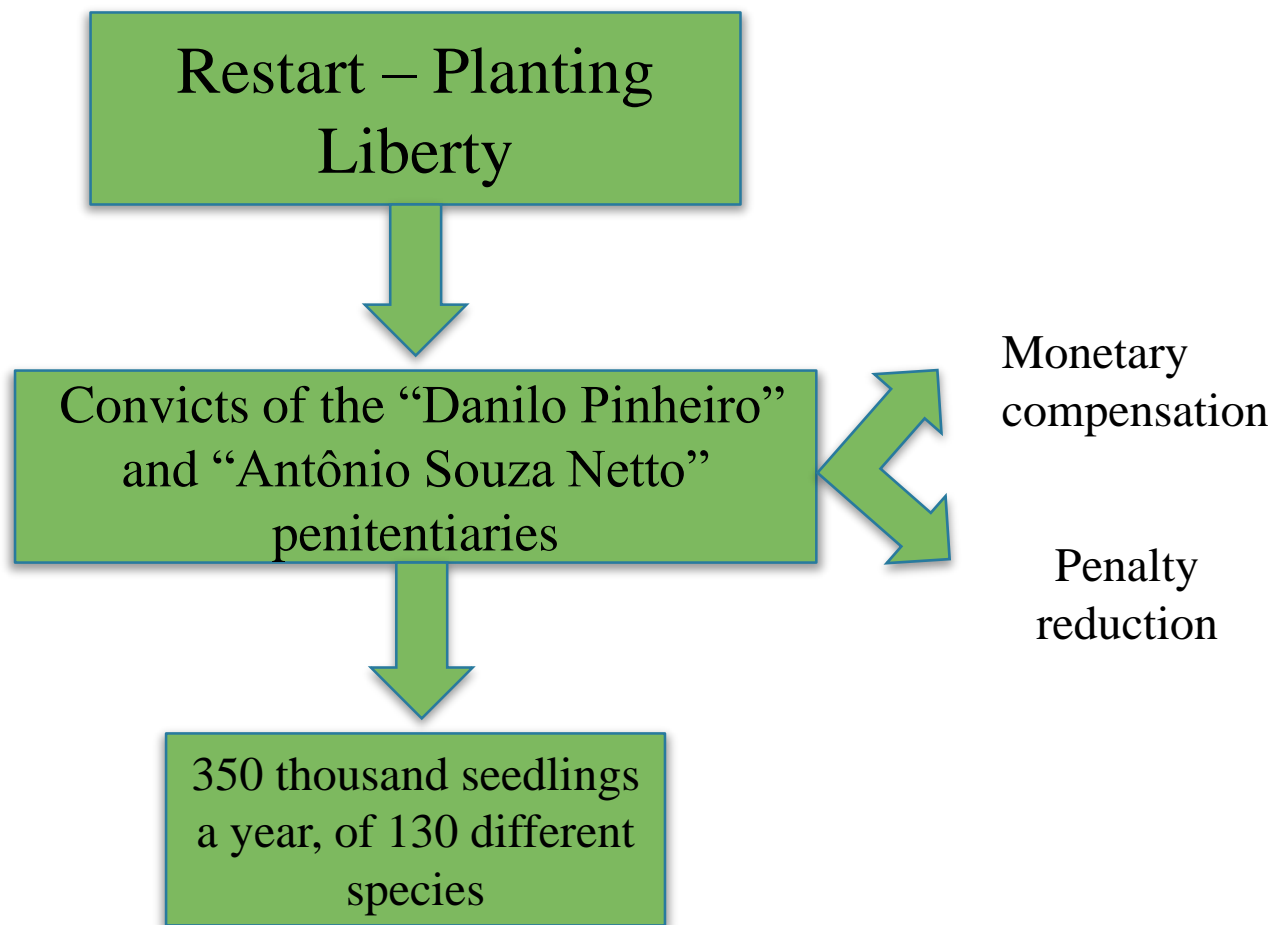
# Programs of the State of São Paulo

Water Protection Operation



Disassembled over 12.500 irregular constructions in water spring areas

# Programs of the State of São Paulo

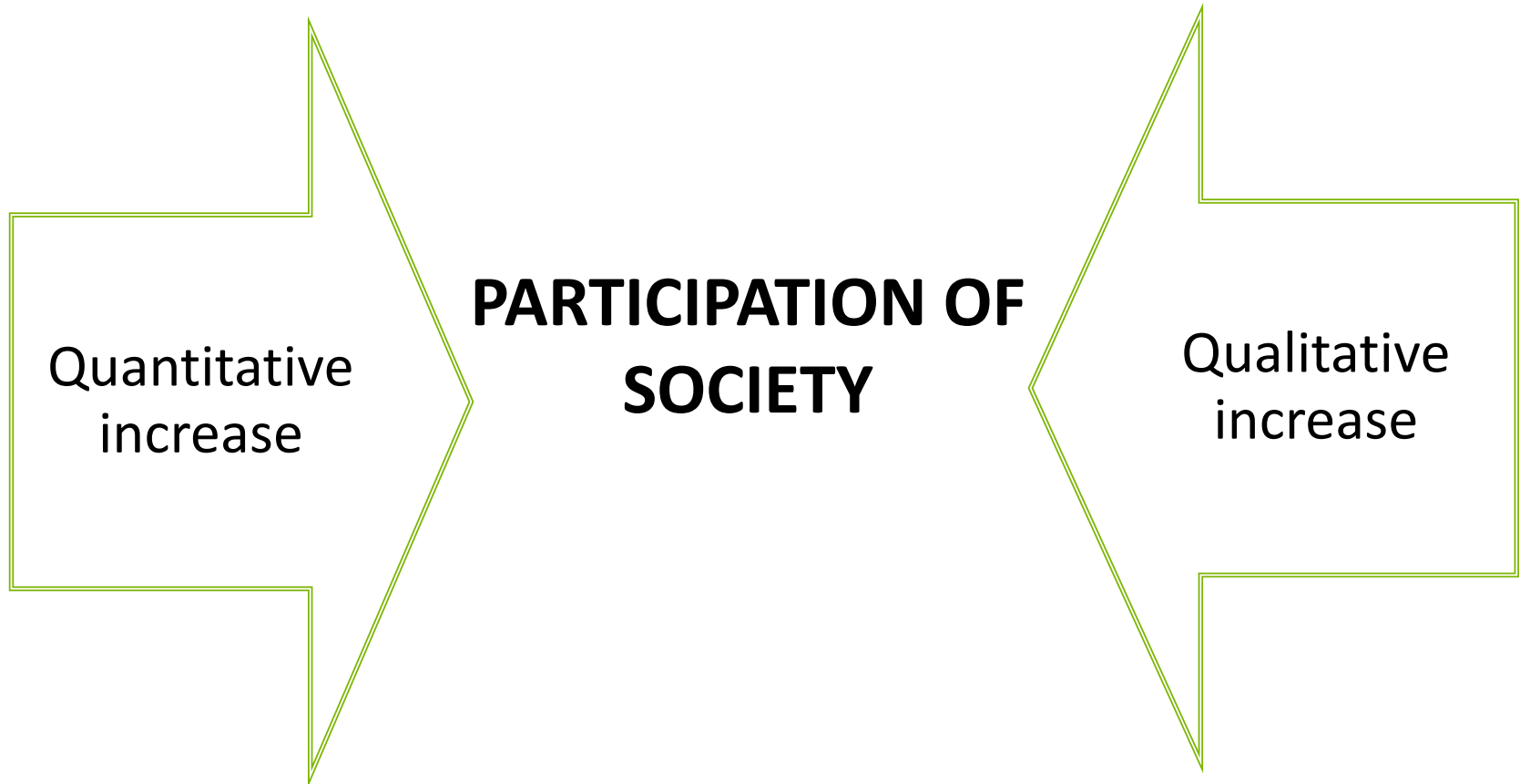




# Diagnostic

- Brazil enjoys one of the most advanced water legislations in the world
- Civil society participates in practically all Watershed Committees and respective councils
- Technical, socio-economic and cultural factors turn the decisions more sustainable, strengthening local resilience

# Challenges



# Thank you!

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