

WORLD BANK

WATER WEEK 2009

**CONDOMINIAL
WATER SUPPLY AND SEWERAGE
SYSTEMS**

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I

**CONDOMINIAL WATER SUPPLY AND SEWERAGE
SYSTEMS ARE NOT ONLY A SET OF IDEAS.
IN OVER ONE HUNDRED LOCALITIES, IN AT LEAST
THREE COUNTRIES THESE SYSTEMS SERVE
5 MILLION PEOPLE
WITH 10 MILLION METERS OF CONDOMINIAL
BRANCHES.
AND THEY CERTAINLY BROKE A RECORD OF
COMMUNITY MEETINGS: 30 THOUSAND !**

II

THIS ACHIEVEMENT INCLUDES SYSTEMS IN DIVERSE SITUATIONS REPRESENTING ALL FORMS OF URBANIZATION (OR “NON-URBANIZATION”), OF HOUSING, TOPOGRAPHY AND INCOME: SLUMS, WEALTHY NEIGHBORHOODS, FLAT AND STEEP TOPOGRAPHY, LOW AND MEDIUM DENSITIES, METROPOLITAN CITIES AND RURAL TOWNS.



**MANGUEIRA -
RECIFE**



ROCINHA – RIO DE JANEIRO



**PETROLINA -
PERNAMBUCO**



ROCAS - NATAL



**PARAUPEBAS -
PARÁ**



SALVADOR - BAHIA



PLANALTINA - BRASÍLIA



SALVADOR – COMÉRCIO E BANCOS



BRASÍLIA – MANSÕES DO LAGO NORTE

III

THE IDEA FOR THE CONDOMINIAL APPROACH WAS BORN FROM THE LACK OF COVERAGE (ITSELF EVIDENCE OF THE FAILURE OF CONVENTIONAL METHODS, PRACTICES, TECHNOLOGY...) AND THE VISION OF ATTAINING UNIVERSAL COVERAGE, IN ACCORDANCE WITH REQUIREMENTS OF SERVICE QUALITY, MINIMAL COSTS, AND AN ABILITY TO ADAPT TO DIVERSE URBAN ENVIRONMENTS.

IV

WHAT IS MOST IMPORTANT IS **RATIONALITY** OF APPROACH (TECHNICAL, PHYSICAL, OPERATIONAL) AND UNDERSTANDING AMONG THE STAKEHOLDERS (AGREEMENTS BETWEEN THE PARTIES, CAPABLE OF CAPTURING ENERGY IN FAVOR OF SOLUTIONS). IN OTHER WORDS, **A CHANGE IN THE PROCESS**, IN THE *MODUS OPERANDI*.

V

**THE KEY INSTRUMENT OF THIS APPROACH WAS
THE “CONDOMINIUM”:**

**A NEIGHBORHOOD UNIT WHERE THERE IS A
CERTAIN HOMOGENEITY AMONGST NEIGHBORS
REGARDING:**

**THE HOUSES, CULTURE, INCOME, PROBLEMS
AND, THUS, SOLUTIONS. THE SET OF
CONDOMINIUMS CONSTITUTING AN “ISLAND” IN
THE GENERAL SYSTEM IS THE MICRO-SYSTEM.**

VI

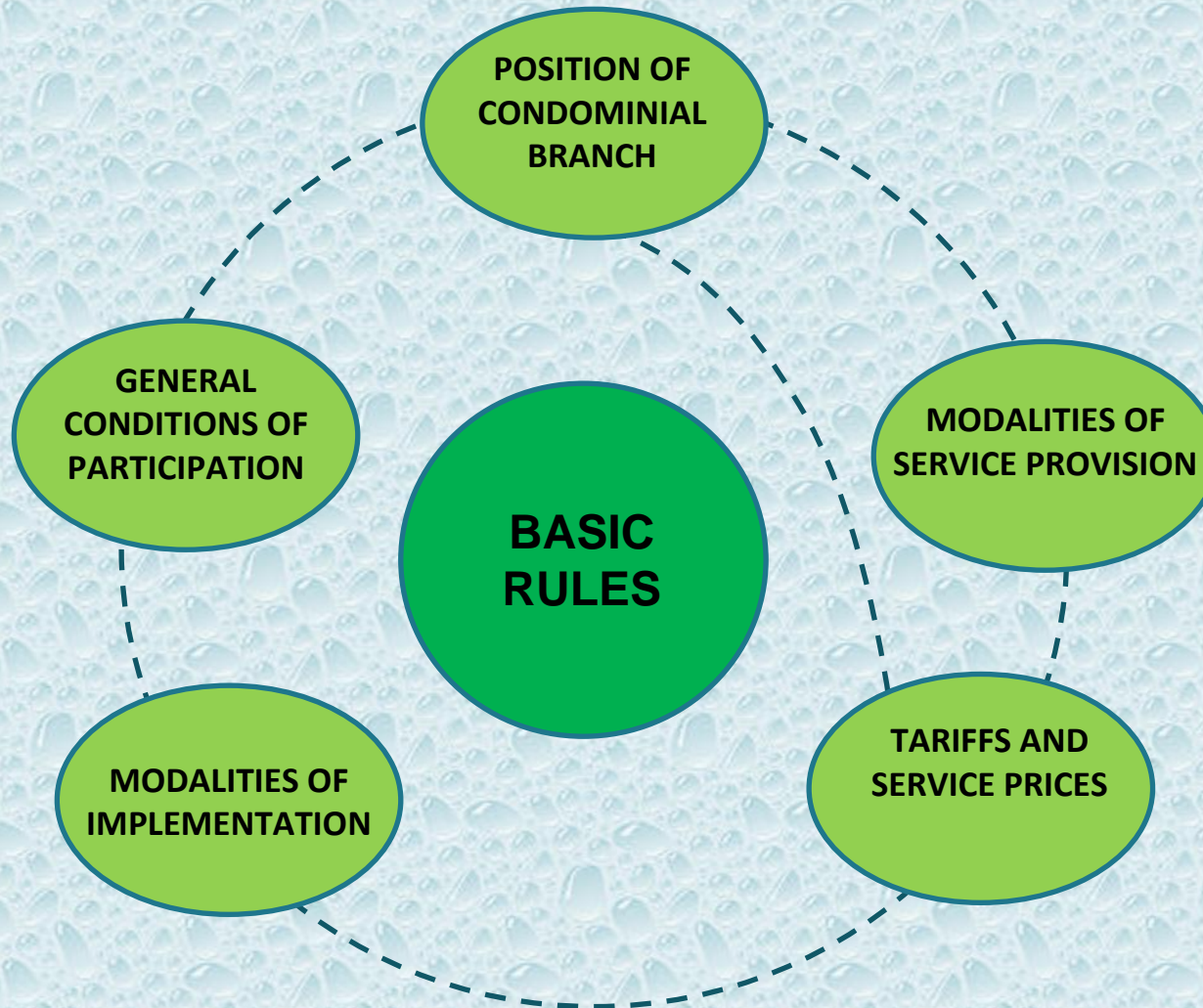
**WITHIN THIS SCOPE, AND RELATED TO EACH OTHER, ARE
THE TWO INSTRUMENTS OF THE CONDOMINIAL MODEL:**

- THE PHYSICAL (CONDOMINIAL COLLECTORS AND THE
BASIC NETWORKS)**
- AND THE SOCIO-INSTITUTIONAL (AGREEMENTS AND THEIR
RULES).**

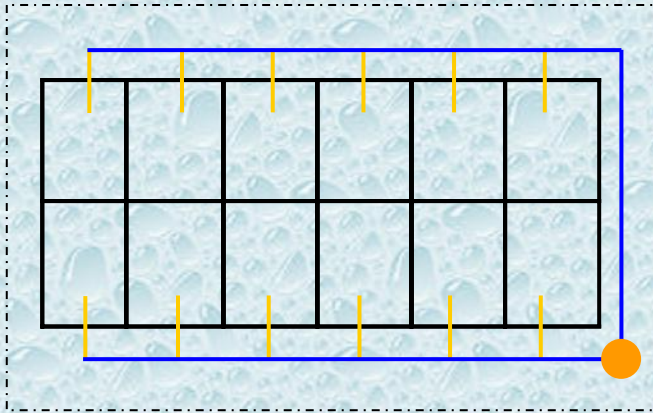
**THE PHYSICAL INTERVENTIONS PERMIT THE SERVICE
PROVISION (SEWAGE COLLECTION OR POTABLE WATER
DISTRIBUTION)**

**AND THE SOCIO-INSTITUTIONAL INSTRUMENTS ESTABLISH
RESPONSIBILITIES BETWEEN THE PARTIES.**

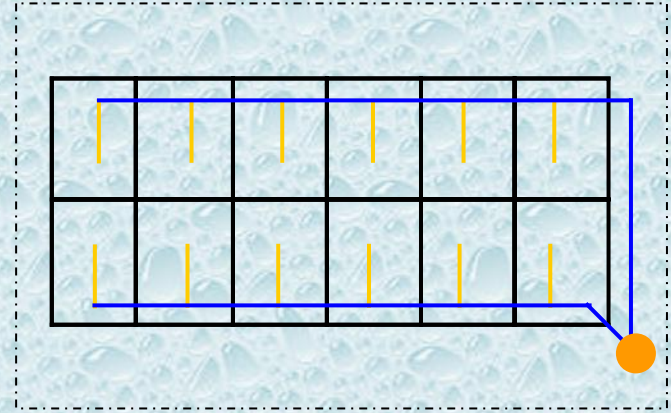
DIAGRAM OF RULES



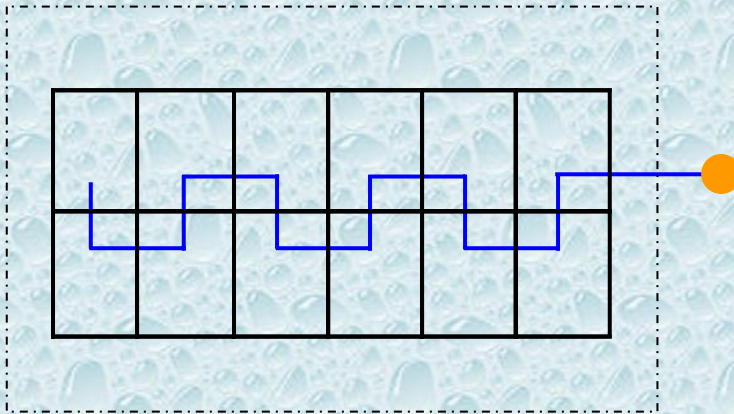
ALTERNATIVES FOR POSITION OF CONDOMINIAL COLLECTORS



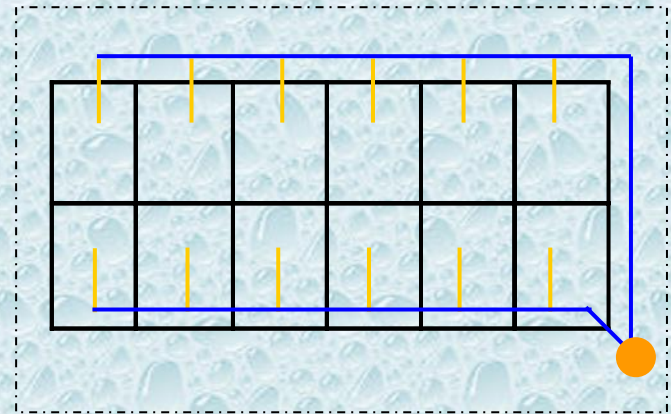
SIDEWALK COLLECTOR



GARDEN COLLECTOR

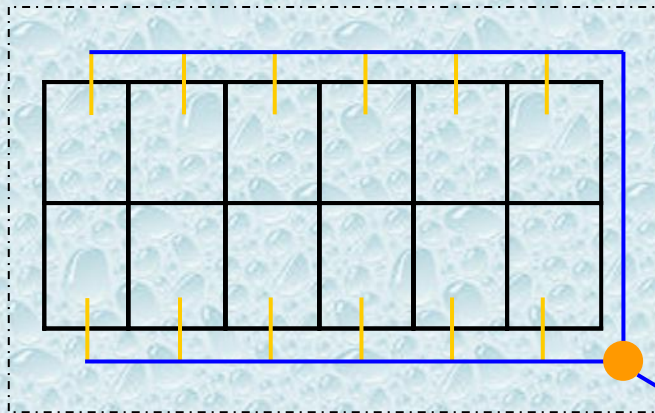


BACKYARD COLLECTOR

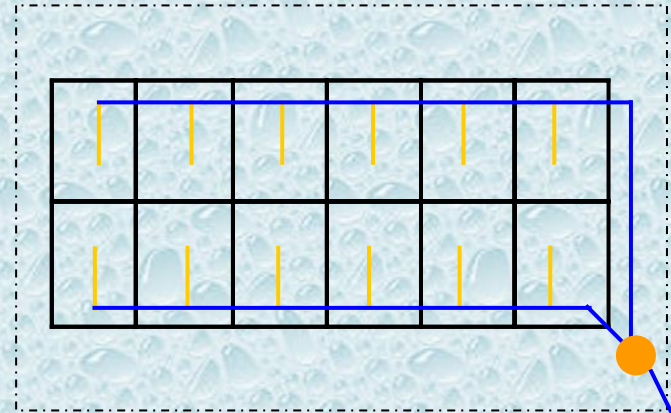


MIXED COLLECTOR

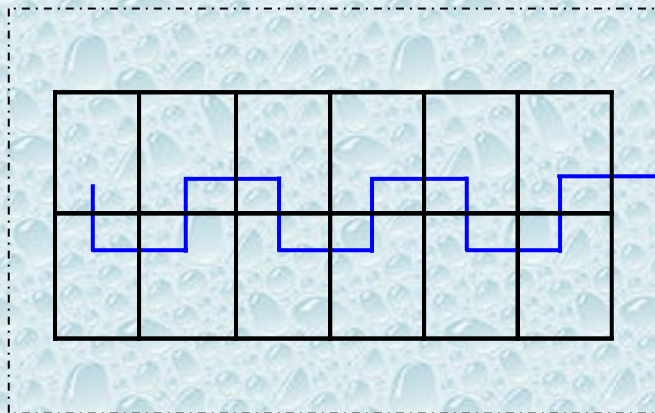
BASIC NETWORK



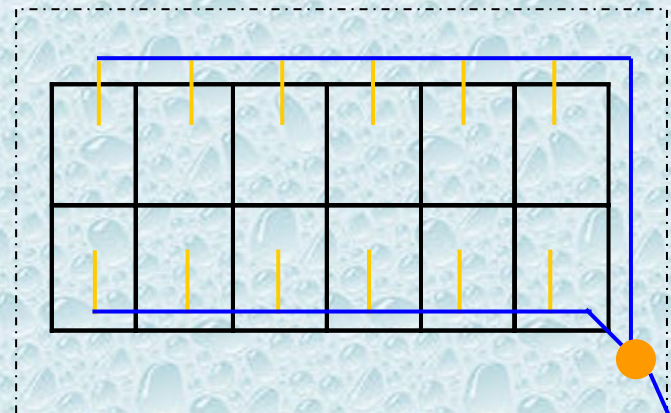
SIDEWALK COLLECTOR



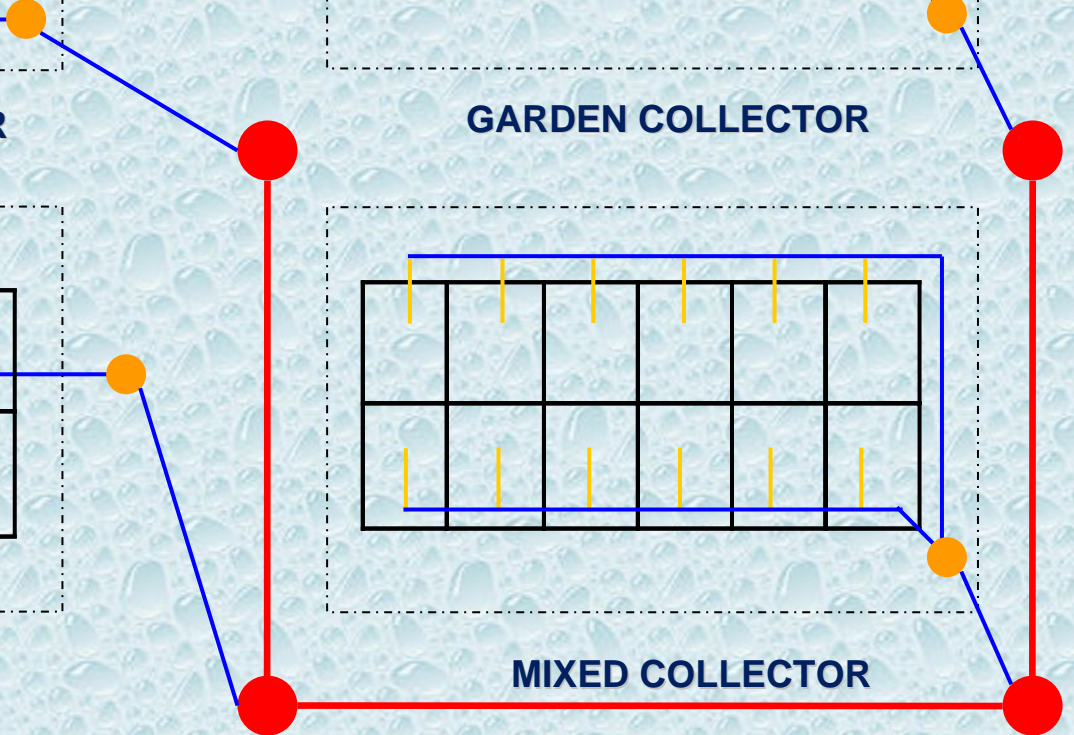
GARDEN COLLECTOR



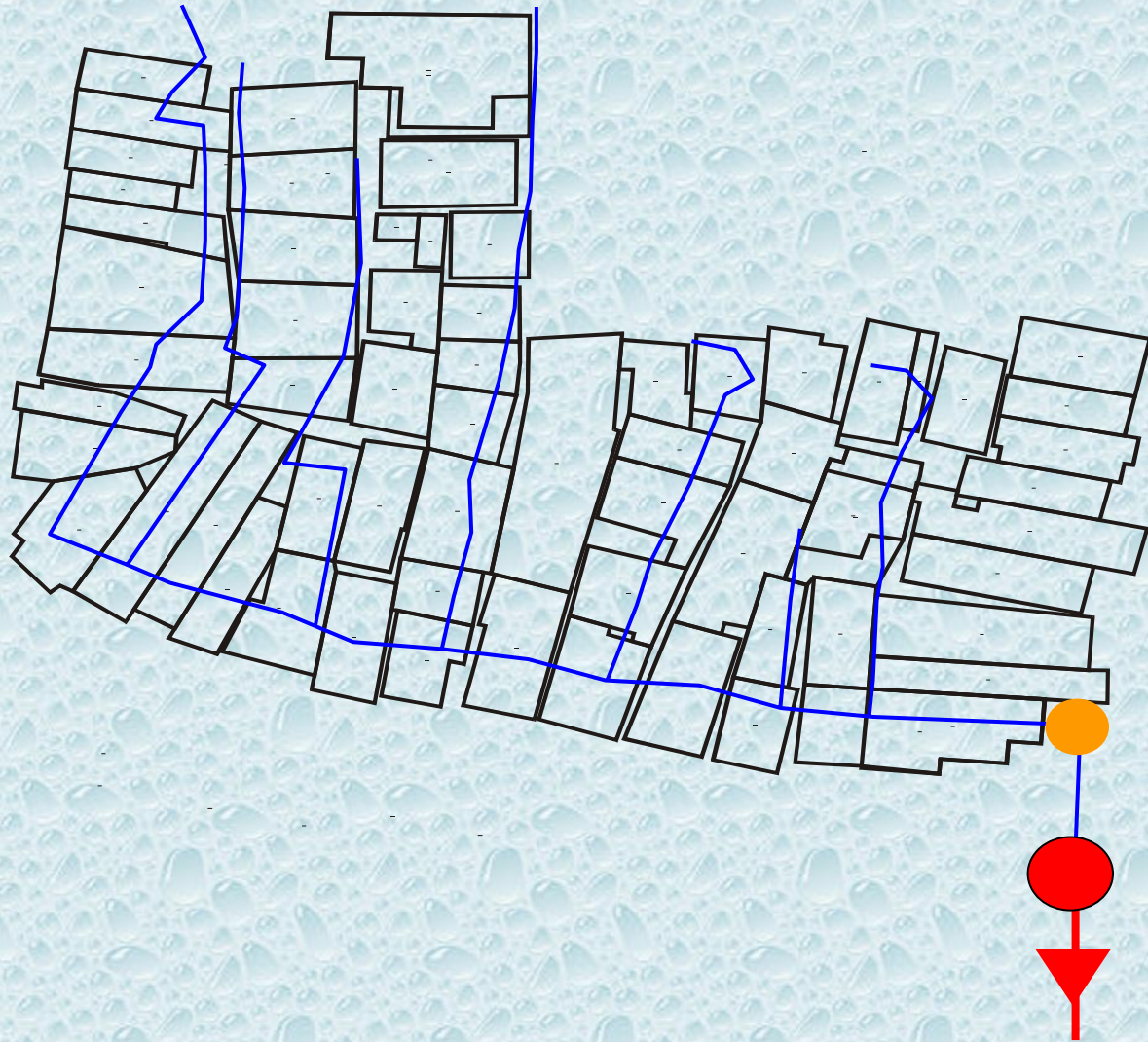
BACKYARD COLLECTOR



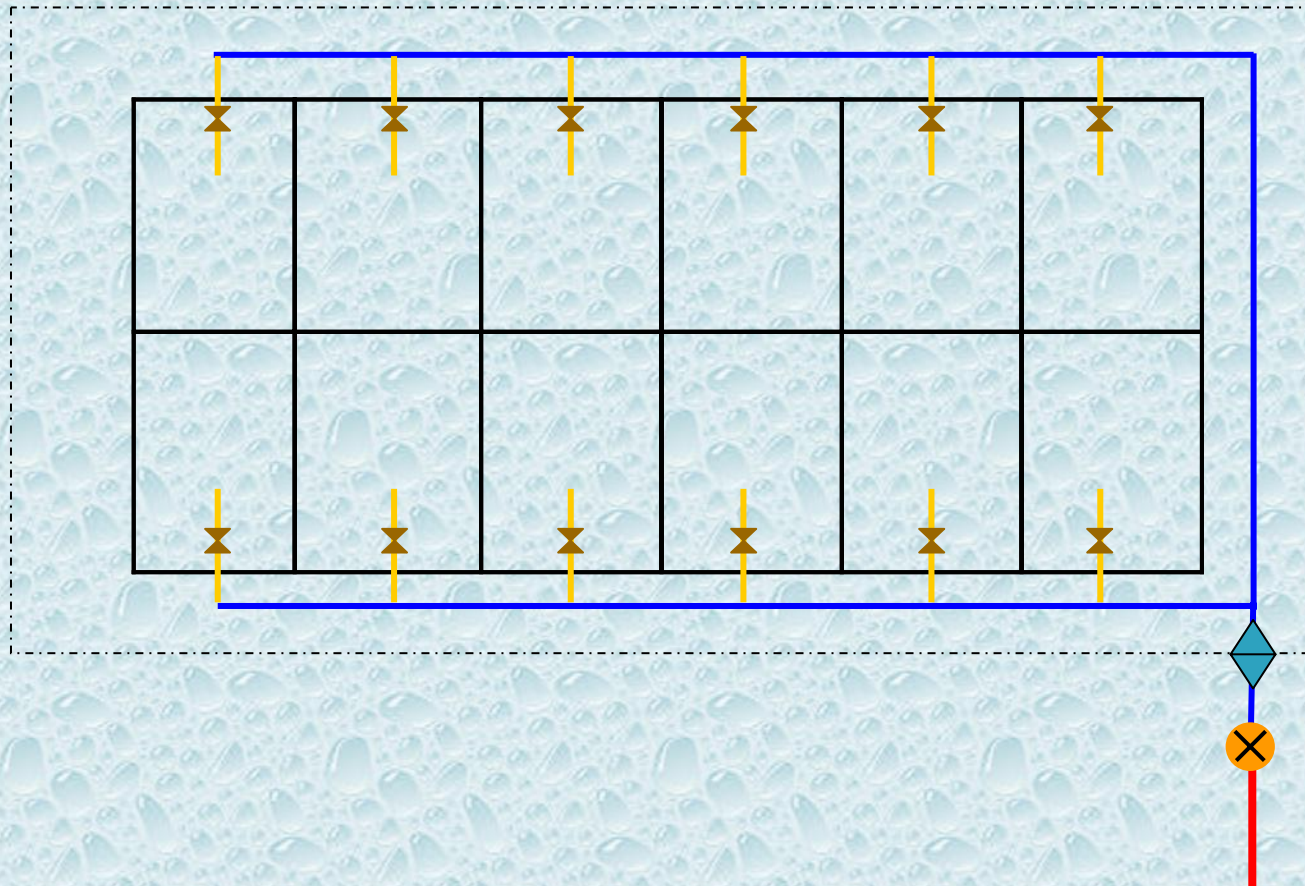
MIXED COLLECTOR

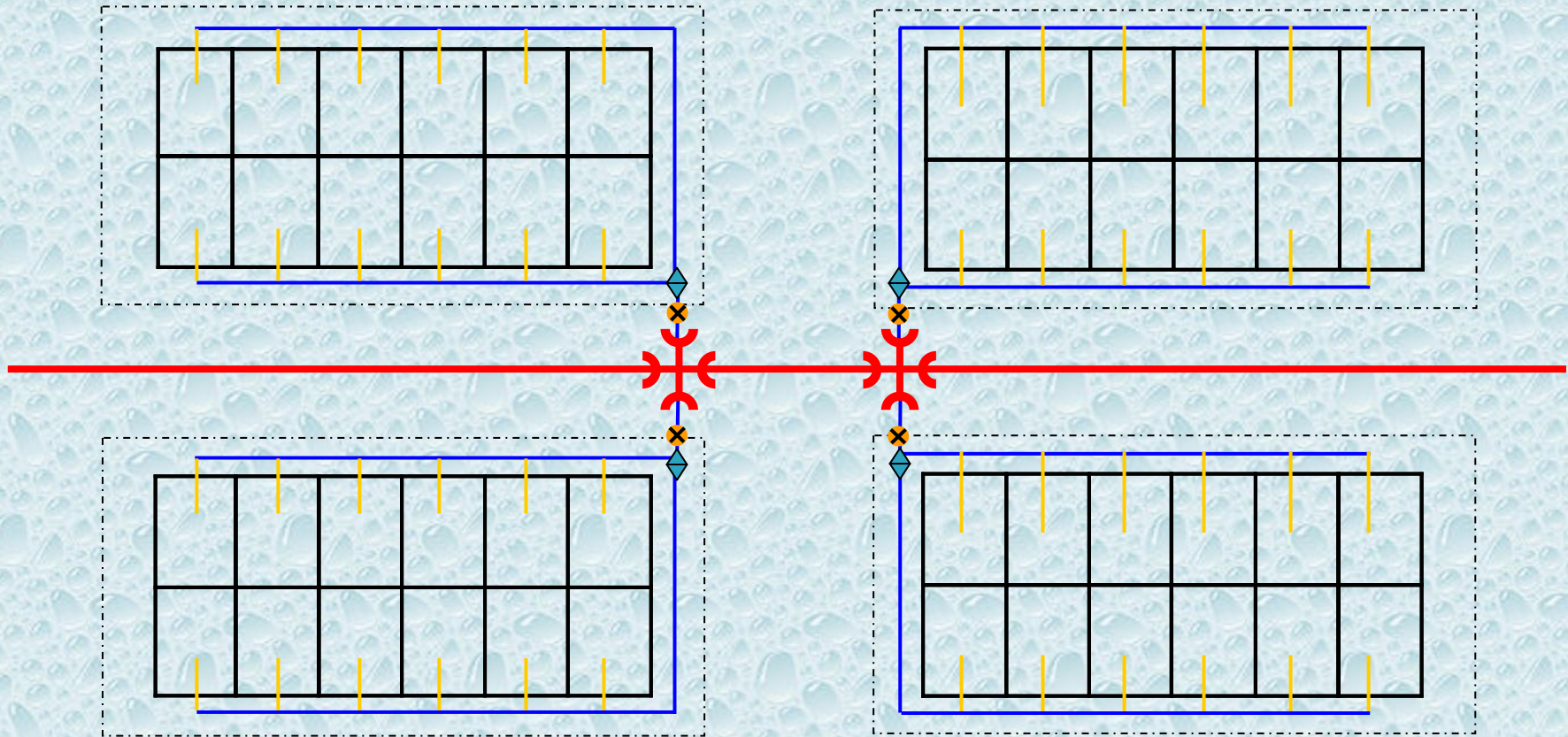


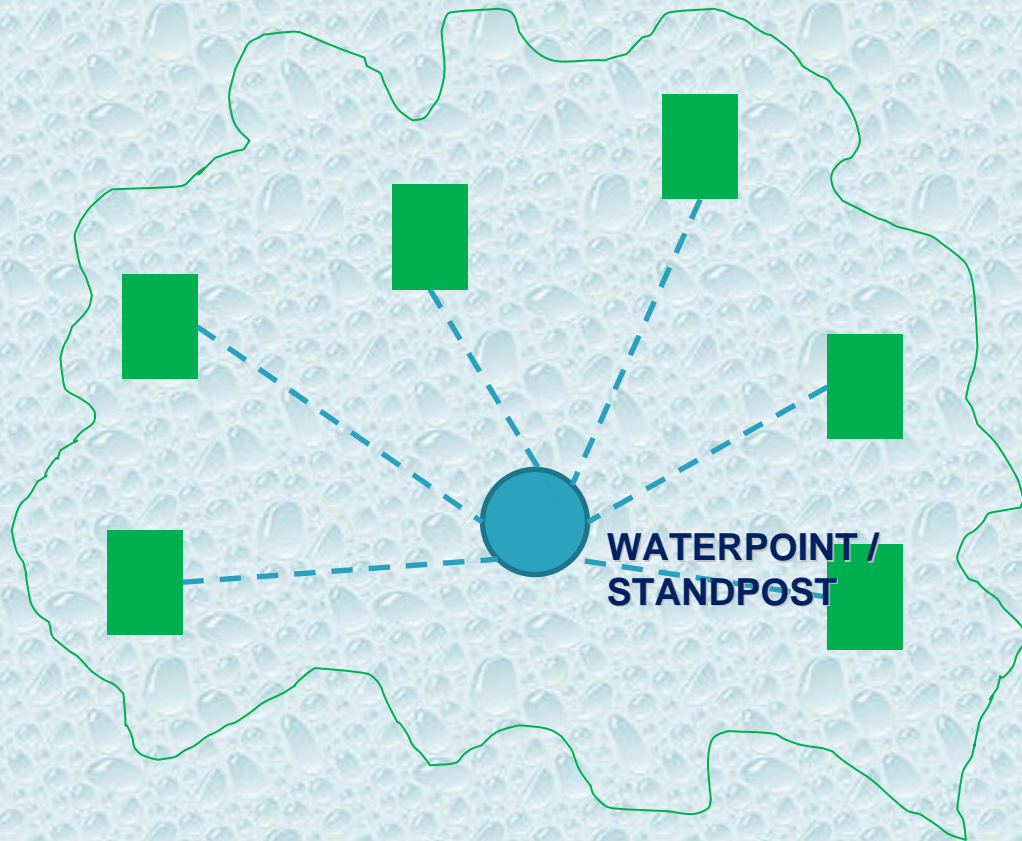
BRANCH THAT “GOES WHERE NECESSARY”



WATER DISTRIBUTION SIDEWALK COLLECTOR







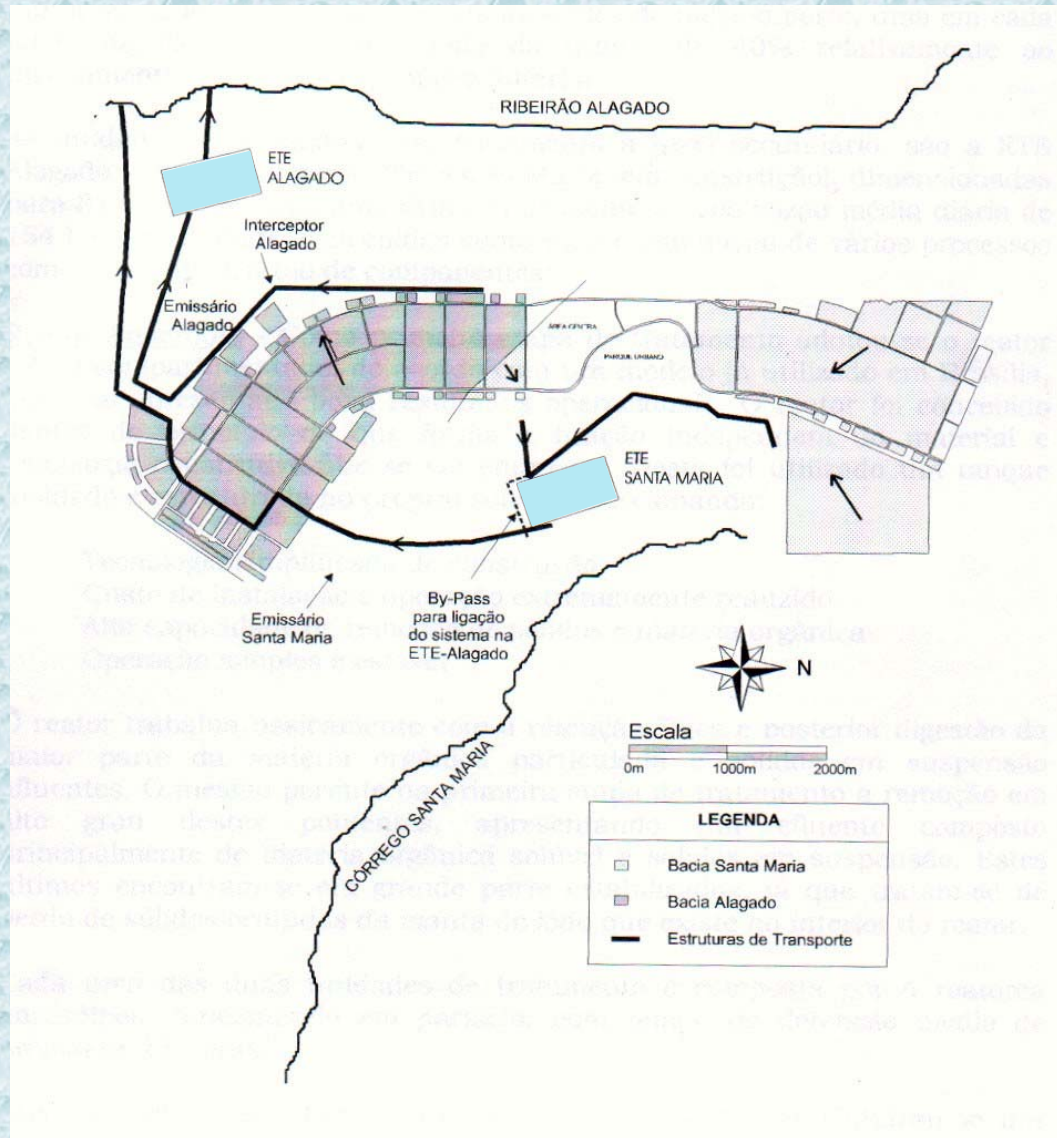
**WATERPOINT /
STANDPOST**

RURAL TOWN

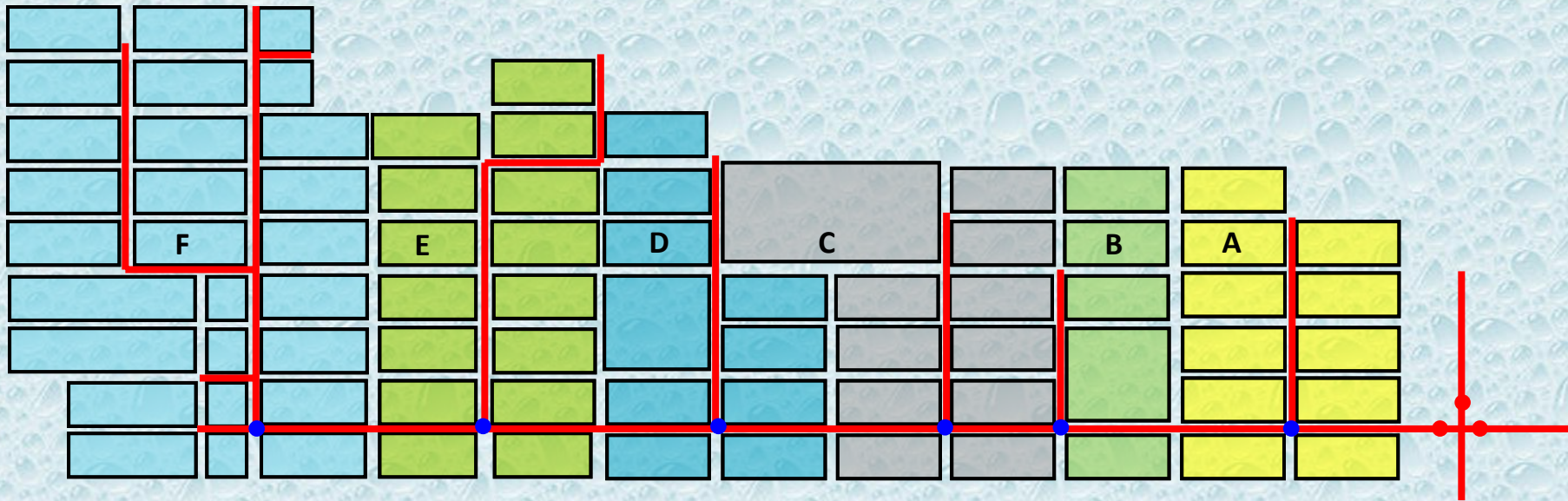
VIII

EXAMPLES OF MICRO-SYSTEMS

SEWERAGE SYSTEM – SANTA MARIA



WATER DISTRIBUTION - PARAUAPEBAS



IX

**IN PERI-URBAN OR SLUM AREAS, THERE IS NO WAY
TO COMPARE THE CONDOMINIAL SYSTEM WITH THE
CONVENTIONAL SYSTEM**

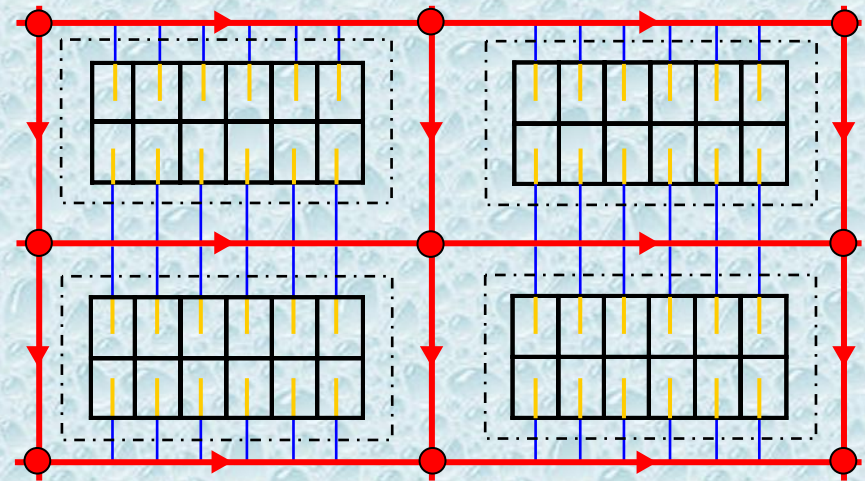
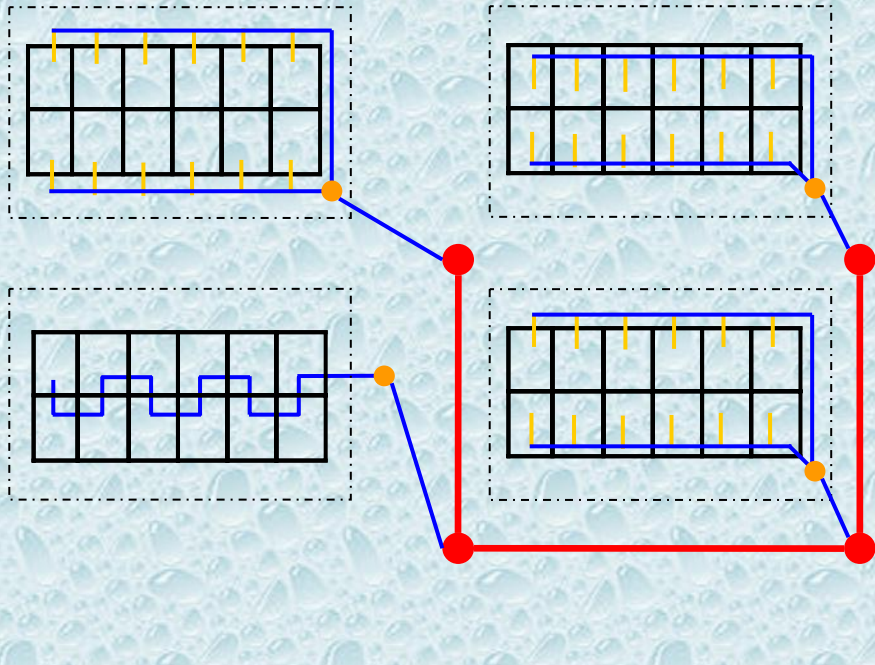
**IN REGULAR URBAN AREAS THE COMPARISON WITH
THE CONVENTIONAL SYSTEM CAN BE MADE USING A
SIMPLE DIAGRAM...**

COMPARISON

CONDOMINIAL

<<

CONVENTIONAL



X

**AS YOU CAN SEE, AND IN VIEW OF THE 2 BILLION
UNSERVED WORLDWIDE, THE VALUE OF THE
CONDOMINIAL MODEL IS EVIDENT.**

**WHAT IS NEEDED IS A **PRIORITIZATION OF ITS
FINANCING AND DISSEMINATION OF ITS APPROACH
AND SUCCESSES.****

LET'S GET TO WORK, THEN!

The background of the image is a dense, repeating pattern of small, realistic water droplets. Each droplet is rendered with soft shading and highlights, giving it a three-dimensional appearance. The droplets are scattered across a light, pale blue background, creating a textured, wet surface effect.

END