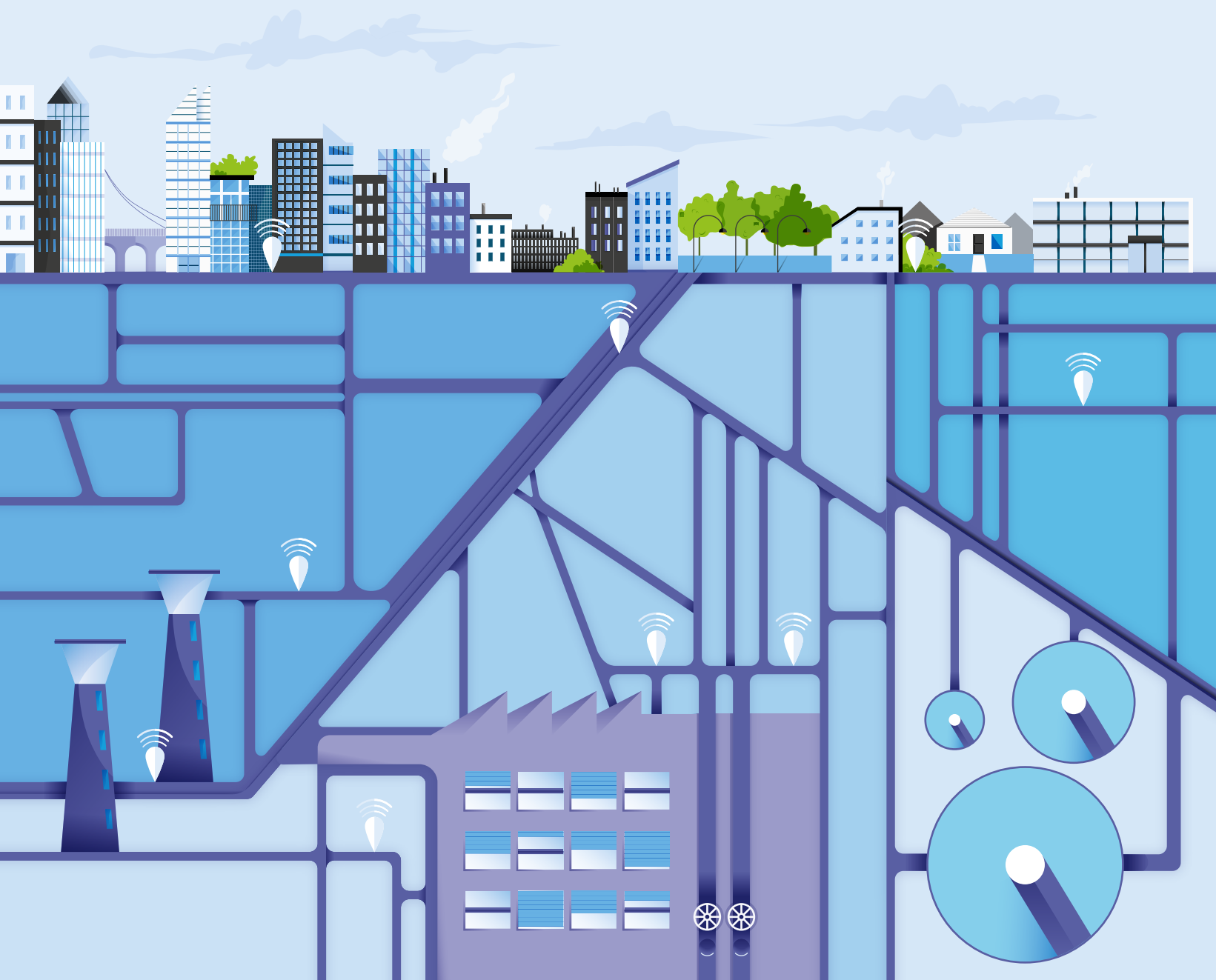


PERFORMANCE PROVIDER

.....



PERFORMANCE PROVIDER



MODULAR DIAGNOSIS,
OPTIMIZATION AND PERFORMANCE-MANAGEMENT
SOLUTIONS FOR WATER
AND SANITATION SYSTEMS

WORKING TOGETHER TO OPTIMIZE
THE PERFORMANCE OF DRINKING WATER
SUPPLY NETWORKS AND PRESERVE
OUR RESOURCES

WMI is committed with excellence
on all your projects worldwide, because we share
the will to provide sustainable access
to drinking water, in order to reconcile
human activities and the preservation
of our environment.

WMI - Water Management International
is a specialized subsidiary of the water works
department of VINCI Construction Grands Projets,
which designs and builds major civil engineering
and building projects.

WMI is dedicated to assessing
and optimizing drinking water and sanitation systems,
and has been providing its expertise worldwide
to operators of networks and services since 1989.

We help you design and operate **efficient
and quality water supply systems** for your customers.

Based on our experience and expertise
in all areas of water supply, from water sources
to consumers, we can provide solutions,
**from engineering design to implementation of works
and commissioning**, that are customised to the needs,
budget and priorities of our clients. Our services range
from technical assistance to turnkey projects.

We can also develop financial solutions for your projects.

Through the management of **smart networks**,
we ensure greater safety and reliability,
more relevant decision-making,
and better operational control. Thus, you can provide
better customer service and **optimize your systems’
environmental and financial performance**.

To ensure that actions undertaken are sustainable
and operators are fully in control of water supply systems,
WMI teams are keen to pass on their know-how to local
and client personnel.

OUR MAIN FOCUS:
CONTROLLING AND REDUCING NON-REVENUE WATER (NRW)



SOLUTIONS OF ENGINEERING, SERVICES AND WORKS

for the management of water and sanitation systems





TECHNICAL optimization

A constant challenge for local, regional or national utilities and operators of water and sanitation systems, is to improve technical performance to ensure that people have access to sufficient and high-quality drinking water.

WMI provides support to optimize the management of water system networks, from diagnosis to the implementation of an action plan aimed at preserving water resources and ensuring the sustainability of assets.

Our main objective is to reduce technical losses through various key actions: active detection and repair of visible and non-visible leaks, implementation of a Geographical Information System (GIS), hydraulic modelling, network zoning and pressure management.



◀ Pressure regulation,
Jamaica

ENGINEERING

NETWORK DIAGNOSIS
HYDRAULIC MODELLING
NETWORK ZONING (<i>design</i>)
IWA APPROACH: WATER BALANCES, MONITORING OF INDICATORS (<i>ILI, LLI, ...</i>), BENCHMARK
PRESSURE MODULATION/OPTIMIZATION
ENERGY BALANCE
OPTIMIZATION OF PUMPING AND STORAGE
DEFINITION OF STRATEGIES AND ACTIONS PLANS

SERVICES

NETWORK SURVEY/PIPES AND CABLES DETECTION
GIS MAPPING AND DATA ENTRY
DETECTION OF NON-VISIBLE LEAKS: ACOUSTIC METHODS (<i>correlation, geophone</i>) OR TRACER GAS
MEASUREMENT CAMPAIGNS/QUANTIFICATION
THEORETICAL AND FIELD TRAINING
VIDEO INSPECTION
TIGHTNESS TESTING (AIR OR WATER TYPE TEST)

WORKS

IMPLEMENTATION OF A DISTRICT METERING AREAS DESIGN
CONSTRUCTION OF MEASUREMENT CHAMBERS AND HYDRAULIC SECTORS
HYDRAULIC EQUIPMENT INSTALLATION
INSTALLATION AND CONFIGURATION OF PRESSURE CONTROL VALVES
REPAIR OF LEAKS OF ALL TYPES AND SIZES
LAYING AND REPLACEMENT OF PIPELINES
REHABILITATION OF PUMPING STATIONS

PILOT PROGRAM TO REDUCE NON-REVENUE WATER IN THREE PRIORITY AREAS

Yangon, Myanmar

As part of the implementation of the NRW reduction action plan of Yangon City, WMI teams trained technicians of the water utility (YCDC) to detect leaks with tracer gas.

This technique is especially used in the case of low pressure networks.



COMMERCIAL optimization

WMI helps you implement solutions for effective commercial management and responsive, exemplary customer service.



Smart water meter, ▶
Barbados

A key objective is to ensure that all water consumption is consistently and accurately measured and that customers are billed fairly.

To secure your revenue, we help you evaluate, upgrade and maintain your measuring tool as well as optimize the commercial management chain (consumer survey, pricing/subscription, customer database, meter reading, analysis of consumption, billing and revenue recovery).

ENGINEERING

CUSTOMER DATABASE ANALYSIS
MONITORING OF CONSUMPTION/ KEY PERFORMANCE INDICATORS
METER READING, BILLING AND REVENUE MANAGEMENT
METER ANALYSIS AND REPLACEMENT PLANNING
CUSTOMER SATISFACTION SURVEYS AND CONTINUOUS IMPROVEMENT
DEFINITION OF STRATEGIES AND ACTION PLANS

SERVICES

SURVEY OF CUSTOMERS AND ILLEGAL CONNECTIONS
CUSTOMER DATABASE UPDATING AND RECLASSIFICATION
GIS MAPPING AND DATA ENTRY
INSTALLATION OF METER TEST BENCHES
IDENTIFICATION OF MEASURING ERRORS
ESTABLISHMENT OF CONSUMPTION PROFILES
THEORETICAL AND FIELD TRAINING
INSTALLING AND UPDATING OF CUSTOMER INFORMATION SYSTEMS (<i>CIS</i>)
SELECTING AND INSTALLING OF METER DATA COLLECTION (<i>MDC</i>)/ METER DATA MANAGEMENT (<i>MDM</i>) SYSTEMS

WORKS

INSTALLATION OF METERS (<i>domestic, commercial and industrial</i>)
MOBILE REMOTE METER READING (<i>walk by/drive by</i>)
INSTALLATION OF AUTOMATIC METER READING SYSTEMS AND FIXED NETWORKS (<i>AMR/AMI</i>)
INSTALLATION AND REPLACEMENT OF SERVICE CONNECTIONS

IMPROVEMENT OF THE COMMERCIAL MANAGEMENT SERVICE OF THE NATIONAL WATER COMMISSION (NWC)

Jamaica

WMI supplied and selectively replaced/installed more than 120,000 water meters, DN15 mm to 100 mm, more than 4,000 of which were equipped with remote reading systems.

In addition, a manual and semi-automatic reading (AMR/AMI compatible) system with a capacity of 400,000 subscribers was installed.

At the same time, the technical assistance provided by WMI, including co-management with the NWC, resulted in a sustained increase in NWC incomes of approximately \$17.7 million/year.





OPERATIONAL assistance

WMI is committed to improve and maintain the sustainable performance of water and sanitation systems through smart management of resources. We aim at providing our clients with better service and help them achieve optimized environmental and financial performance.

Working closely with water network operators, WMI establishes appropriate data retrieval, processing and analysis solutions. We implement solutions that are compatible with systems already in place, thereby enabling seamless communication and interoperability. In addition, decision-making processes are built in so as to ensure dynamic and effective operational management.

SMART NETWORKS: improved network performance through intelligent applications

The smart network approach combines constant monitoring and remote control of facilities (telemetry, SCADA), smart metering and asset management. The monitoring of production (via GSM/GPRS) and consumption values (via radio, fixed and mobile systems, AMR/AMI), as well as the real-time detection of leaks, make it possible to optimize physical and financial performance, reduce power consumption and provide better information to clients (leak and high/low consumption alerts, daily readings, etc.).

ENGINEERING

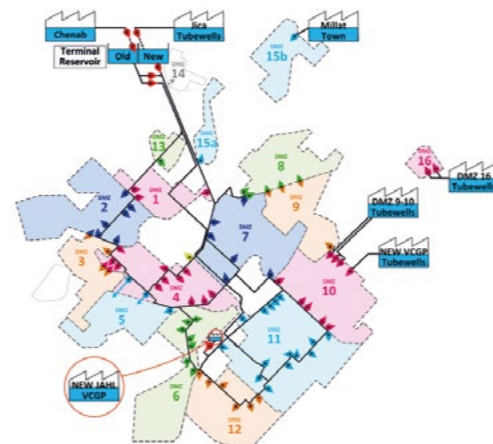
ASSET MANAGEMENT
GIS (implementation)
DESIGN OF COMPUTERISED MAINTENANCE MANAGEMENT SYSTEM (CMMS)
DESIGN OF SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) AND TELEMETRY
MANAGEMENT OF INFORMATION SYSTEMS
EXPLOITATION OF DATA AND DECISION-MAKING TOOLS
ALERT IN CASE OF INCIDENT (abnormal flow, failure, fraud, overflow, flood...)

SERVICES

CADASTRAL/SURVEY MAPPING
GIS OPERATION
MANAGEMENT OF TECHNICAL INTERVENTIONS
INFORMATION SYSTEMS TRAINING
OPERATION AND MAINTENANCE

WORKS

INSTALLATION OF TELEMETRY/SCADA SYSTEMS
PREVENTIVE AND CORRECTIVE MAINTENANCE



OPTIMIZATION OF THE WATER SUPPLY NETWORK OF FAISALABAD

Faisalabad, Pakistan

Following the updating of GIS mapping and the creation of a hydraulic model (WaterGEMS®), the network zoning for the Faisalabad distribution network (1,600 km) was designed and 90 DMAs were installed. A SCADA system for remote monitoring and control (flow/pressure) of the distribution network was also designed, installed and put into service.



INSTITUTIONAL SUPPORT and organizational strengthening

WMI is committed to the institutional development of the water sector, and supports public authorities and management entities in achieving their goals and missions to provide transparency and quality services while controlling rates.

To achieve this, WMI will assess the situation and formulate recommendations on methods/procedures for operations, financing, collaboration, control and regulations.

We define the strategic priorities needed to strengthen water and sanitation utilities across all their divisions. WMI's experts will provide you with assistance to develop strategic plans for both technical and commercial enhancement.

Using sustainable management methods, WMI will also develop and implement organisational change strategies to achieve technical, societal and financial excellence.

ENGINEERING

INSTITUTIONAL ASSESSMENT AND AUDIT
TARIF, FINANCIAL AND ECONOMIC STUDIES
PREPARATION OF REGULATORY AND LEGAL INSTRUMENTS
DEVELOPMENT OF STRATEGIC PLANS FOR THE WATER SECTOR
INSTITUTIONAL REFORM SUPPORT
ORGANIZATIONAL AUDITS
DEVELOPMENT OF AN INTERNAL IMPROVEMENT PLAN

SERVICES

OPINION AND CUSTOMER SATISFACTION SURVEYS
PUBLIC AWARENESS PROGRAM
CAPACITY BUILDING AND CHANGE MANAGEMENT
STUDY TRIPS
ASSISTANCE WITH TENDERS AND PROCUREMENT
TECHNICAL AND MANAGERIAL ADVICE

TECHNICAL ASSISTANCE TO THE ADDIS ABABA WATER AUTHORITY

Addis Ababa, Ethiopia

WMI provided support to AAWSA in the specific commercial, financial and technical fields to increase its efficiency on various points: drinking water and sanitation, non-revenue water, customer management, operation and maintenance, information technology, finance, institutional and organizational strengthening of the general management, and contractual management.



Our main REFERENCES

30 YEARS
OF INTERNATIONAL EXPERIENCE

OVER 10,000 KM
OF NETWORK AUDITED AND UPGRADED

OVER 1,000,000
WATER METERS
TESTED AND INSTALLED

40
ACTION PLANS
FOR THE REDUCTION
OF NON-REVENUE WATER

OVER 500
TECHNICIANS
AND MANAGERS
FORMED



