

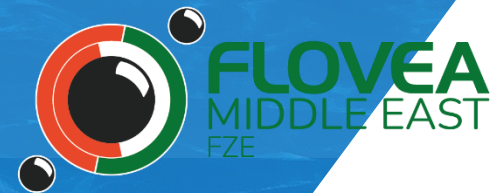
PREDICTIVE FLOWBOX®

by FLOVEA



***A SMART WATER MANAGEMENT
AND LEAKAGE DETECTION SOLUTION***

For Residential Housings & Commercial Buildings





#GREENTECH



PRODUCT DESCRIPTION



The first **all-in-one** water management device interacting through an IoT platform. Designed with a **multi-user & multi-site** management

→ Manage each sites/buildings/units/zones independently from one global platform and give access to different users :

- Community manager
- Building owner
- Maintenance/FM Teams
- Tenants





WHAT'S INSIDE ?

THE DEVICE

EMBEDDED SYSTEM

Allowing the configuration of the device then collecting flow data and providing information to the App

SOLENOID VALVE

controlled remotely from the App' which opens or closes according to the ordered commands

FLOWMETER

continuously measuring hydraulic flows

TEMPERATURE SENSOR

to avoid the risk of body burns, freezing of hydraulic networks or development of bacteria

THE APP



MONITORING SCREEN

of water consumption, temperature & financial expenses of each zone equipped (unit, floor, building section...)

OPEN AND CLOSE

the valves remotely and independently, setting up a scheduled automatic closure on any specific water network

COMPARISON

of data to measure variations in consumption and identify patterns to help consume less and become more eco-responsible

CONTROL EASILY

the water consumption in your buildings and visualize all the different defined installations

AI & MACHINE LEARNING

to learn autonomously consumption habits and thus detect abnormal consumption automatically

UPDATE OF THE DEVICE

remotely to monitor and deploy new services over time

ALERT NOTIFICATIONS

as soon as an abnormality or a problem is detected and take remote actions at a very early stage

API

Integrate the PREDICTIVE FLOWBOX system and all its functionalities into your ecosystem (BMS, IoT platform...)



HOW DOES IT WORK ?

This innovative solution is the result of our **EXPERIENCE** as **PLUMBING SPECIALISTS** in the construction field. Based on our profession's **RULES** and consumptions **STATISTICS & PATTERNS**, our data scientists have been able to develop **LEARNING** and **PREDICTIVE ALGORITHMS** to detect any anomalies on a domestic water network.



The devices learns autonomously and everyday

about the water **HABITS** of each specific environnement and proceed with

3 different **LEVELS** of **ANALYSIS** based on the flow, the **VOLUME** & the **DURATION** of each consumption.

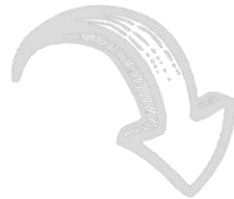
The end user can also set-up manually some **THRESHOLDS** not to be exceeded and receive some **ALERTS** if something wrong or unusual is happening

HOW DOES IT WORK ?

As soon as an anomaly has been detected by the **PREDICTIVE FLOWBOX®** , the end users (tenant / owner / building manager) receives a **NOTIFICATION** through our App' & by email; to be able to take **REMOTE ACTIONS** at a very early stage. Some automatic actions can also be set-up on specific scenarios.

In addition to that we have developed the **SCHEDULED AUTOMATIC CLOSURE** feature, enabling a smart and easy management to **PROTECT & EXTEND ASSET's** life expectancy, avoid **MICRO-LEAKAGES** and potential **WATER DAMAGES** while a specific space is unoccupied or during the vacancy of the building (non-working hours, holidays, nights & week-ends...)

COMING SOON...



- Our **PREDICTIVE FLOWBOX®** will soon be able to **PREDICT** the **AGING** of a water network : **ANTICIPATE** maintenance operations and avoid any problems before they start happening. When installed on a new network, our solution will give **PRECISE INDICATIONS** regarding its **HEALTHINESS & WELL-BEING**, and then predict its efficiency based on all the anomalies detected and analysed during its lifetime.
- Other **CUSTOMIZED SERVICES** with a new **SAAS** yearly subscription model : special dashboards, automatic **MONTHLY REPORTS**, optimization & management **ADVICE**, warranty extension etc...

KEY FEATURES

TURNKEY & USER FRIENDLY WEB APP

With dashboard adapted to all users (service provider, FM teams, tenants) & accessible on computer, tablet and smartphone

REMOTE MANAGEMENT

To control your asset portfolio & manage all your devices/water networks from a single WebApp'

CONSUMPTION, TEMPERATURE & EXPENSES MONITORING

Of any domestic water network with forecast and comparison capabilities

SCHEDULED AUTOMATIC CLOSURES

To protect your asset & avoid related micro-leakages losses when a specific space is unoccupied or during the vacancy of the building

ABNORMAL & WATER CONSUMPTION & LEAKAGE DETECTION

Reduce water losses, anticipate maintenance operations and avoid big water/financial damages

CUSTOMIZED THRESHOLDS

Adopt a sustainable behaviour & reduce your utility bills: set up maximum volume / continuous consumption duration not to be exceeded

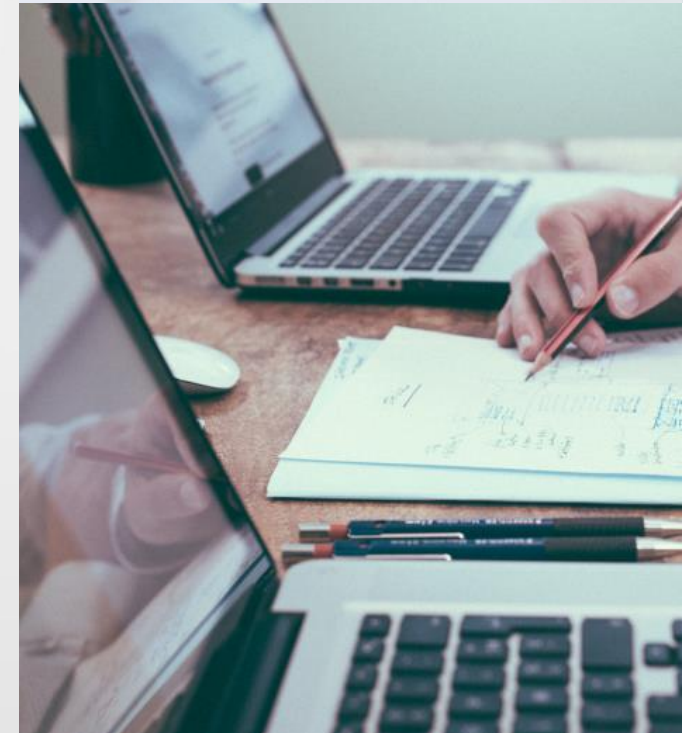
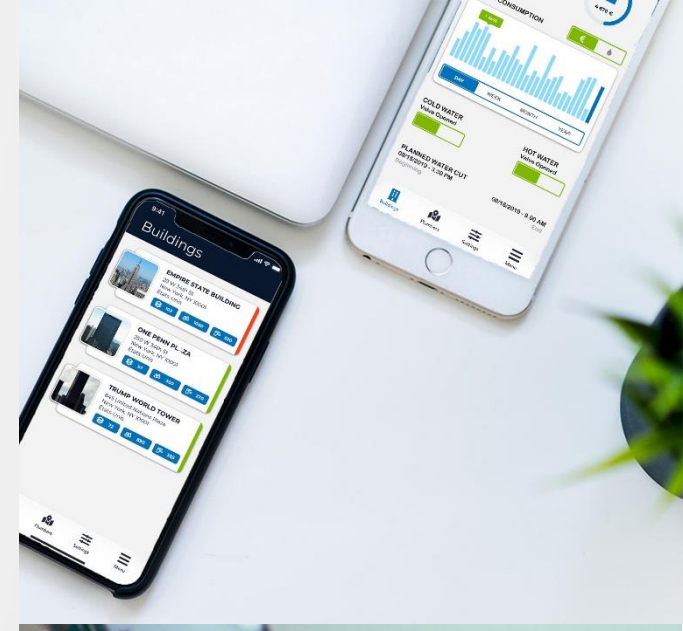
OPEN OR CLOSE INDEPENDENTLY ANY WATER NETWORK

From anywhere while not disturbing the rest of the distribution network

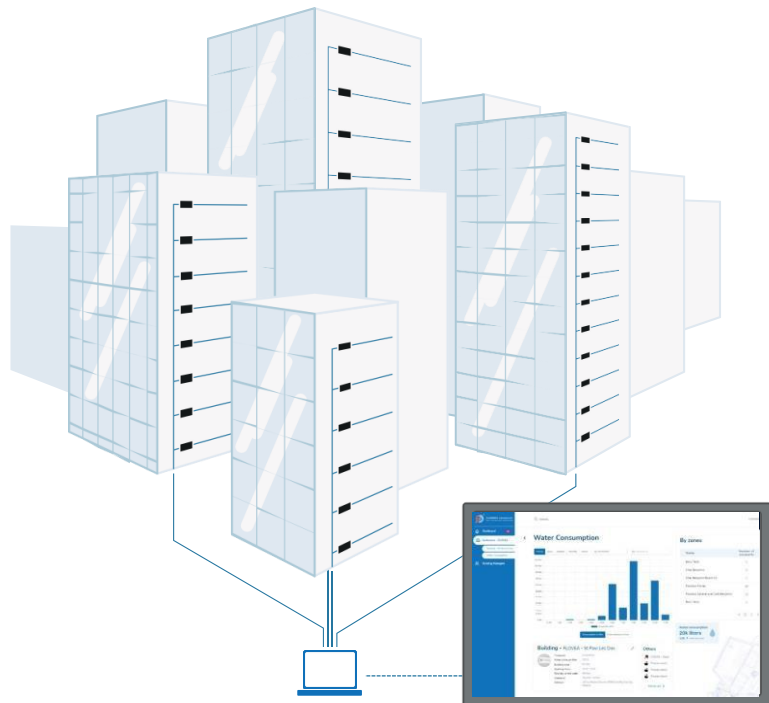
SET UP AUTOMATIC CLOSURE

To give you peace of mind as soon as an anomaly is detected by the PREDICTIVE FLOWBOX®

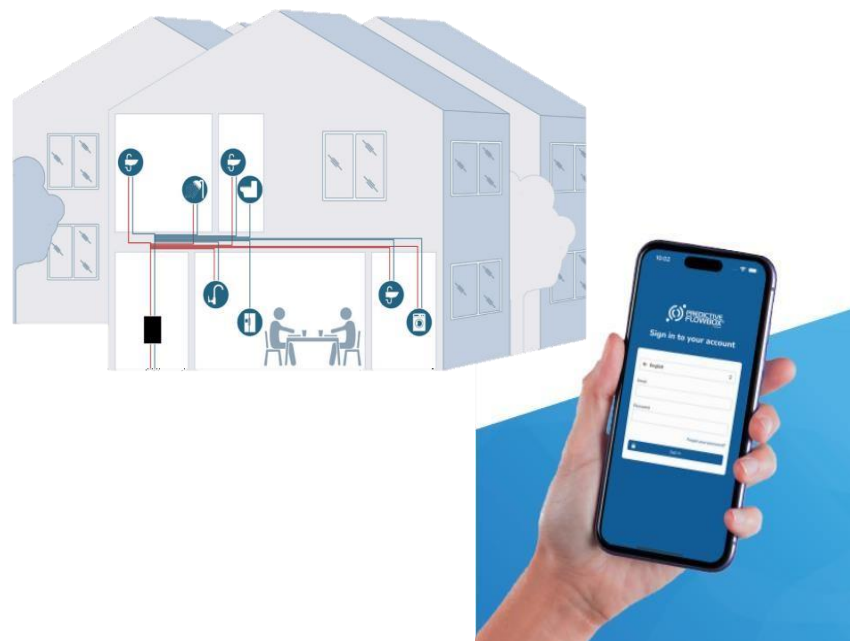
AND MORE TO COME SOON...



USE CASE



HOTELS & RESORTS
OFFICES COMPLEX
SHOPPING MALLS
SCHOOLS & UNIVERSITIES



RESIDENTIAL COMMUNITIES
VILLAS
TOWNHOUSES
APARTMENTS

INSTALLATION REQUIREMENTS



CAN BE INSTALLED ON
**NEW OR EXISTING
BUILDING**



COMPATIBLE WITH
 $\frac{1}{2}$, $\frac{3}{4}$, 1, 1½, 2, 2½ & 3 INCH
DIAMETER PIPES



STANDARD **POWER
OUTLET**



CONNECTION
THROUGH **ETHERNET
(RJ45 CABLE) or WIFI**



APP & DASHBOARD
ACCESSIBLE ON **COMPUTER,
TABLET, SMARTPHONE**

OUR CUSTOMERS



REAL ESTATE **DEVELOPERS**

MUNICIPALITIES

BUILDING & PROPERTY **OWNERS**

FM COMPANIES & ESCO

WATER **SERVICE PROVIDERS**

*“**PREDICTIVE FLOWBOX®** and its dedicated App’ have been designed to foster the use of the **LATEST TECHNOLOGIES (IoT, AI & ML...)** combined with traditional plumbing elements to **ANSWER THE CHALLENGES** these companies face with **REMOTE WATER MANAGEMENT, CONSUMPTION OPTIMIZATION & LEAKAGE DETECTION**”*



Thierry Mignot

CEO & Founder
FLOVEA GROUP

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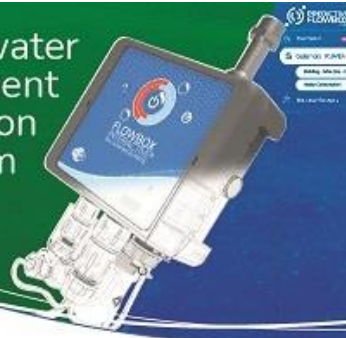


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Dubai – United Arab Emirates



Smart water
management
& leakage detection
system



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