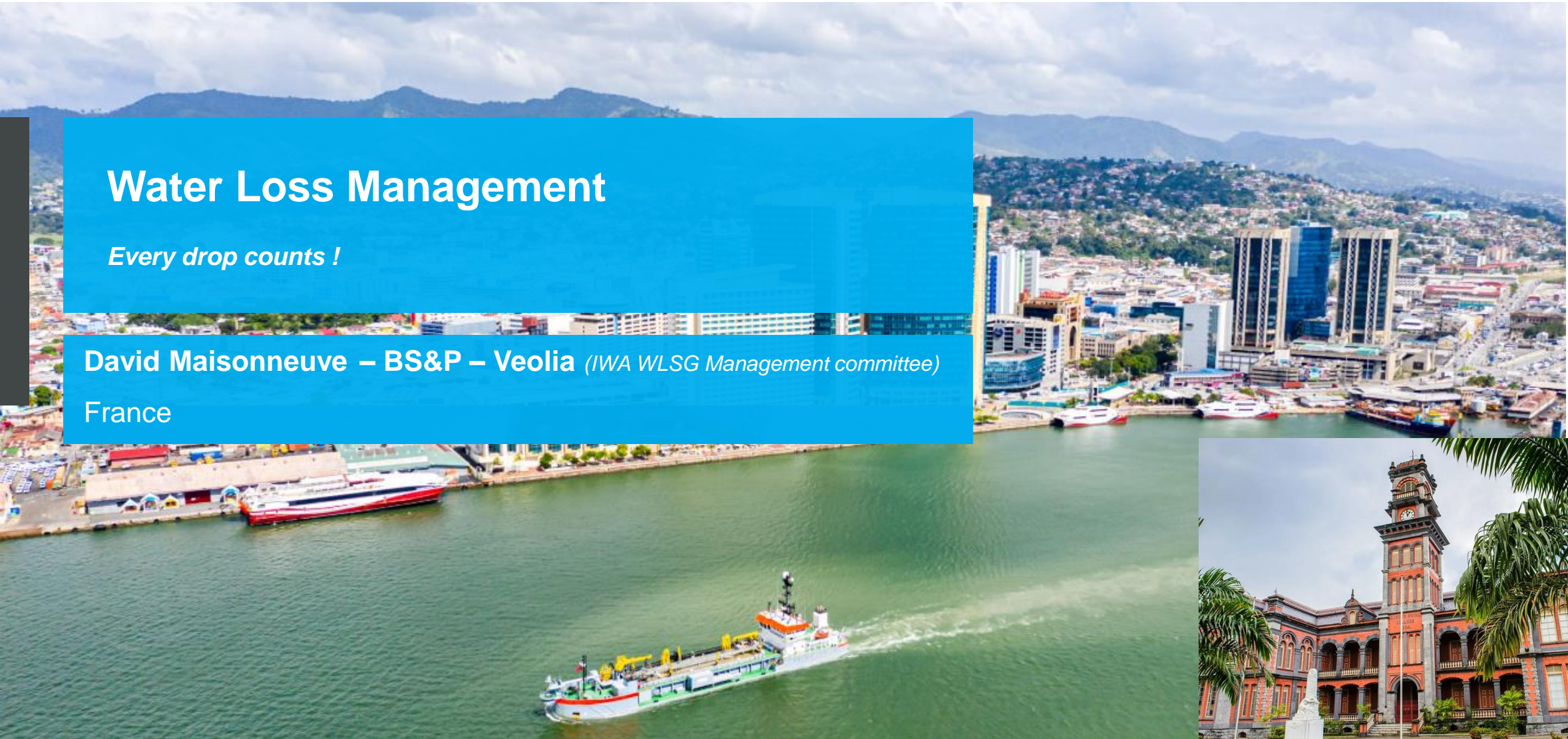


# Water Loss Management

*Every drop counts !*

David Maisonneuve – BS&P – Veolia *(IWA WLSG Management committee)*  
France



# Self Introduction

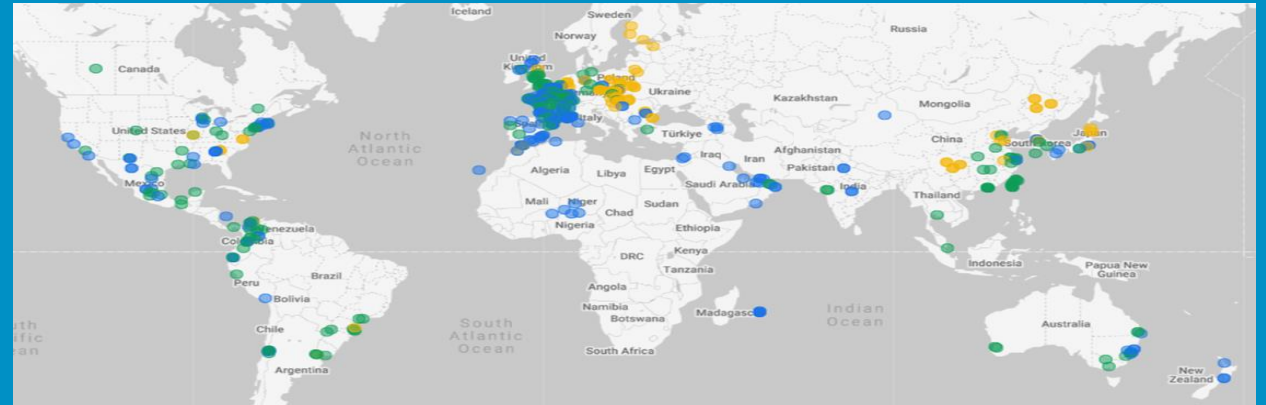


David MAISONNEUVE



## Technical Director - Drinking Water Network - VEOLIA

- Technical & Performance Support for large projects
- > 150 contracts over 50 000 inhabitants
- 250 000 km pipes / 4 550 MGD
- Product Owner **NRW**



**IWA** (*International Water Association*) Water Loss Specialist Group Committee Representative

**ISO** (*International Standard Organization*) Water Loss and Asset Management Managing Team

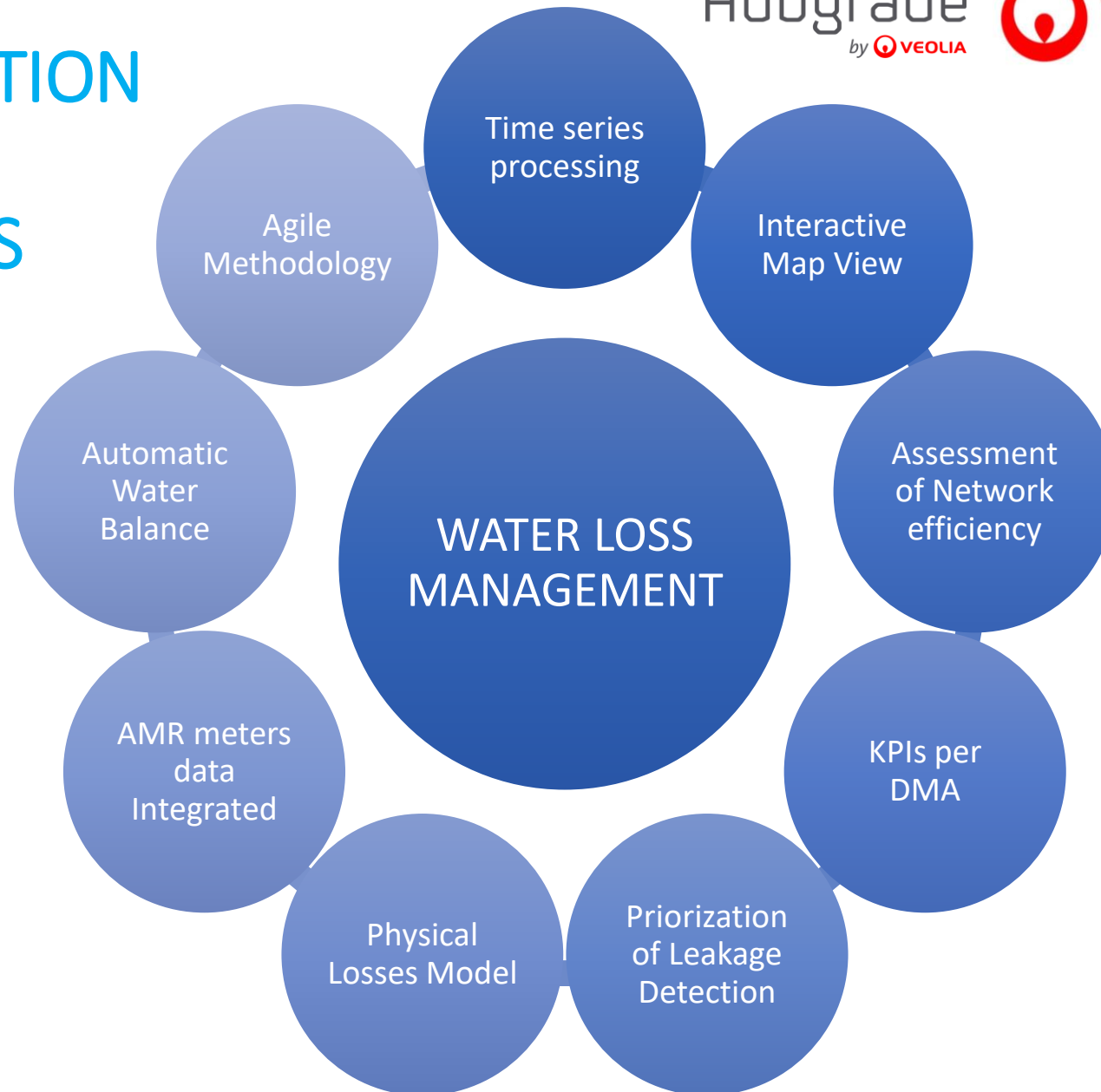




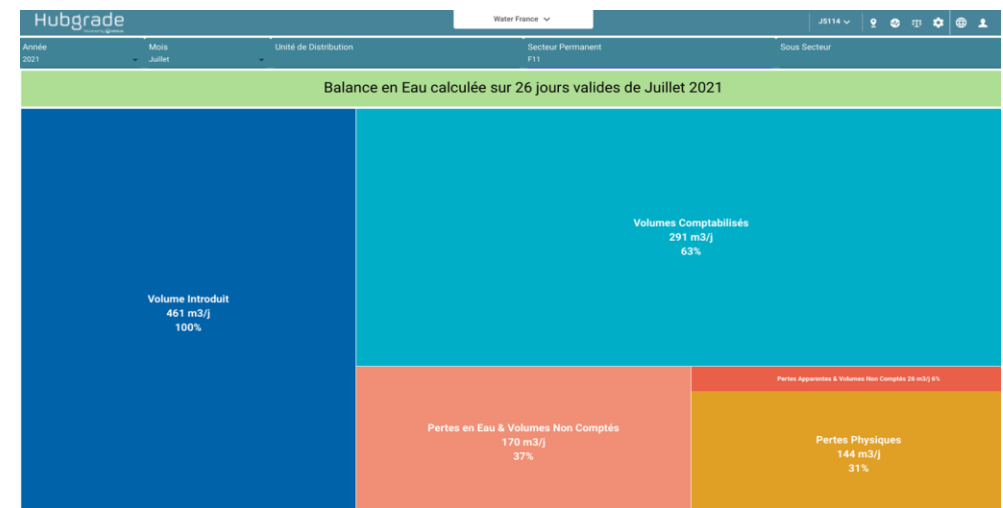
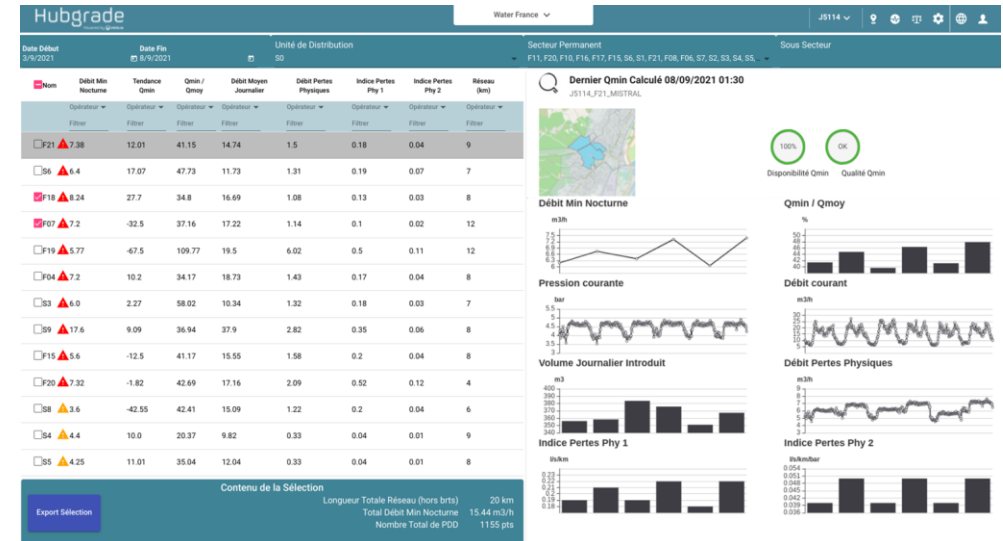
Anticipate **your actions**  
Analyze **your results**  
Prioritize **your leakage detection**

# DIGITAL SOLUTION FOR WATER LOSSES REDUCTION

Hubgrade  
by  VEOLIA



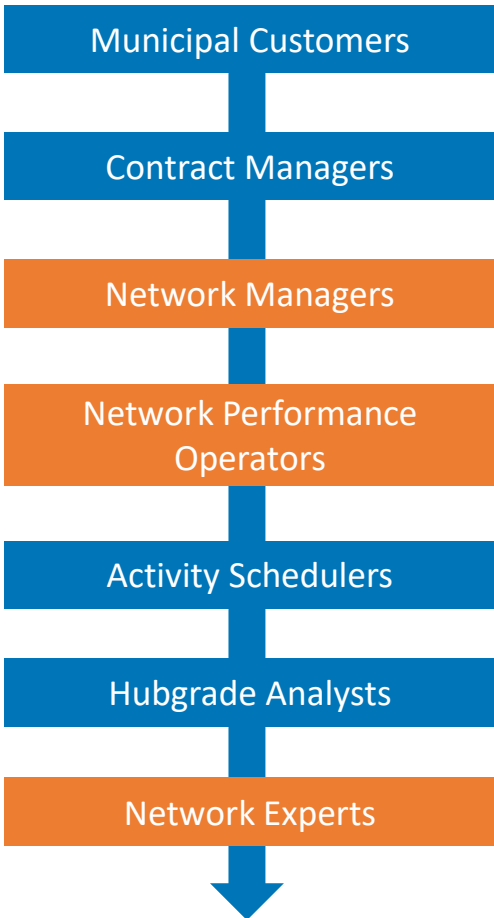
# SOLUTION OVERVIEW



- **Data Preprocessing** with Time Series Engine
- **Calculation of network performance indicators**
- **Continuous modeling** of physical losses
- **Visualization of the monthly water balance per sector**



# PERSONAS



**CONTRACT MANAGER**

"I need real time figures to monitor the performance of the contract and communicate them"

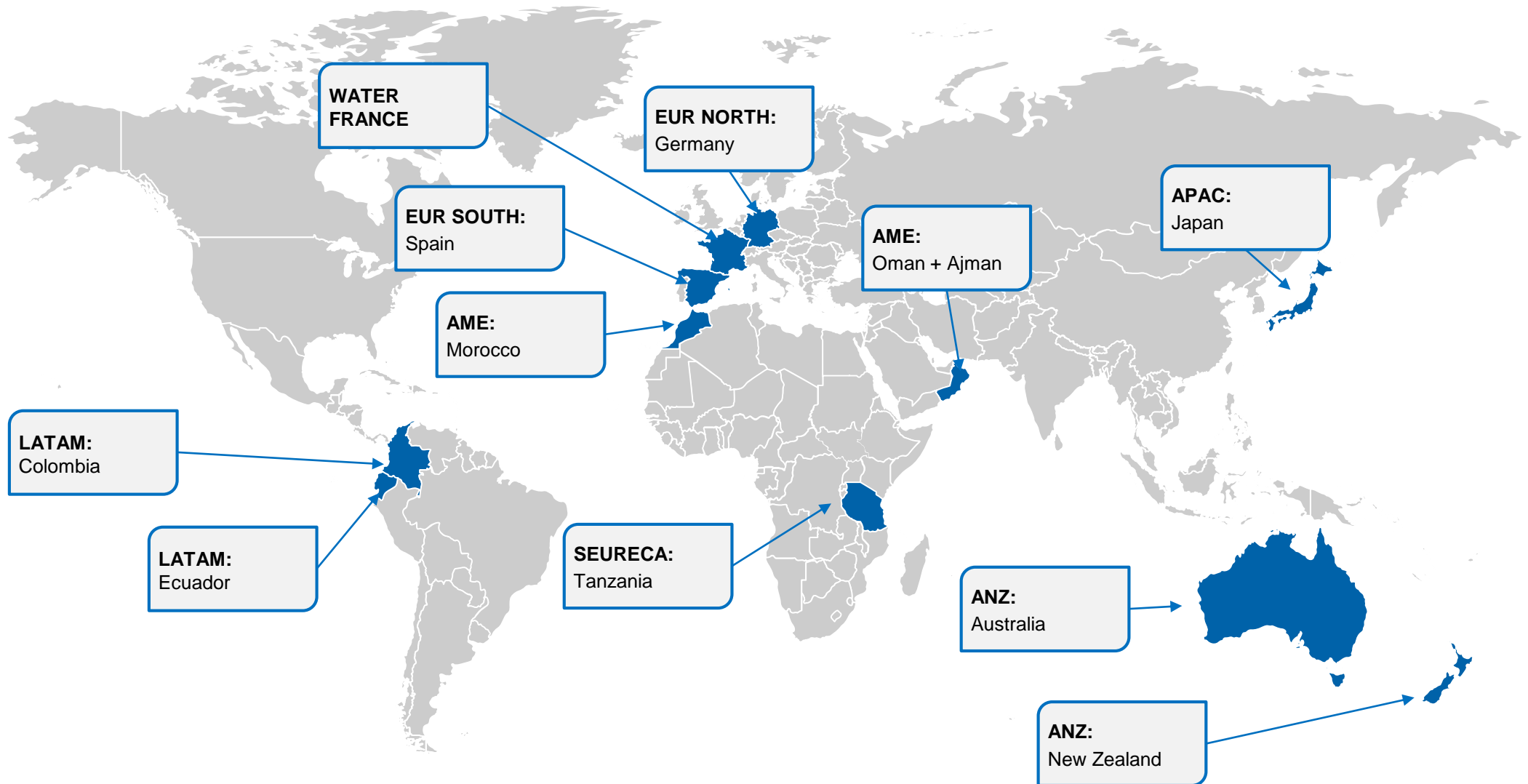
**MUNICIPAL CUSTOMER**

"I expect Veolia to provide the best possible service both for our citizens and for the planet."

**HUBGRADE ANALYST**

"I need quality, reliable, streaming data to keep things running and to be able to anticipate future events. I have to rely on inspiring solutions to easily build my client's hubgrade locally"

# ROLL OUTS



# MAIN FIGURES

> 850 DMAs

> 15 000 km network

> 1 000 000 connections



Expertise



Transparency



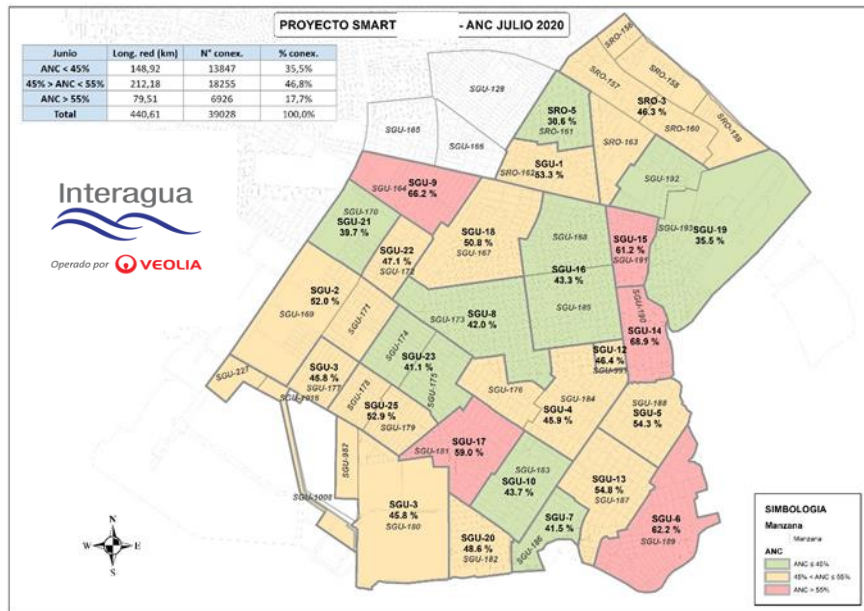
Collaboration



Innovation



# GUAYAQUIL SMART GUASMO

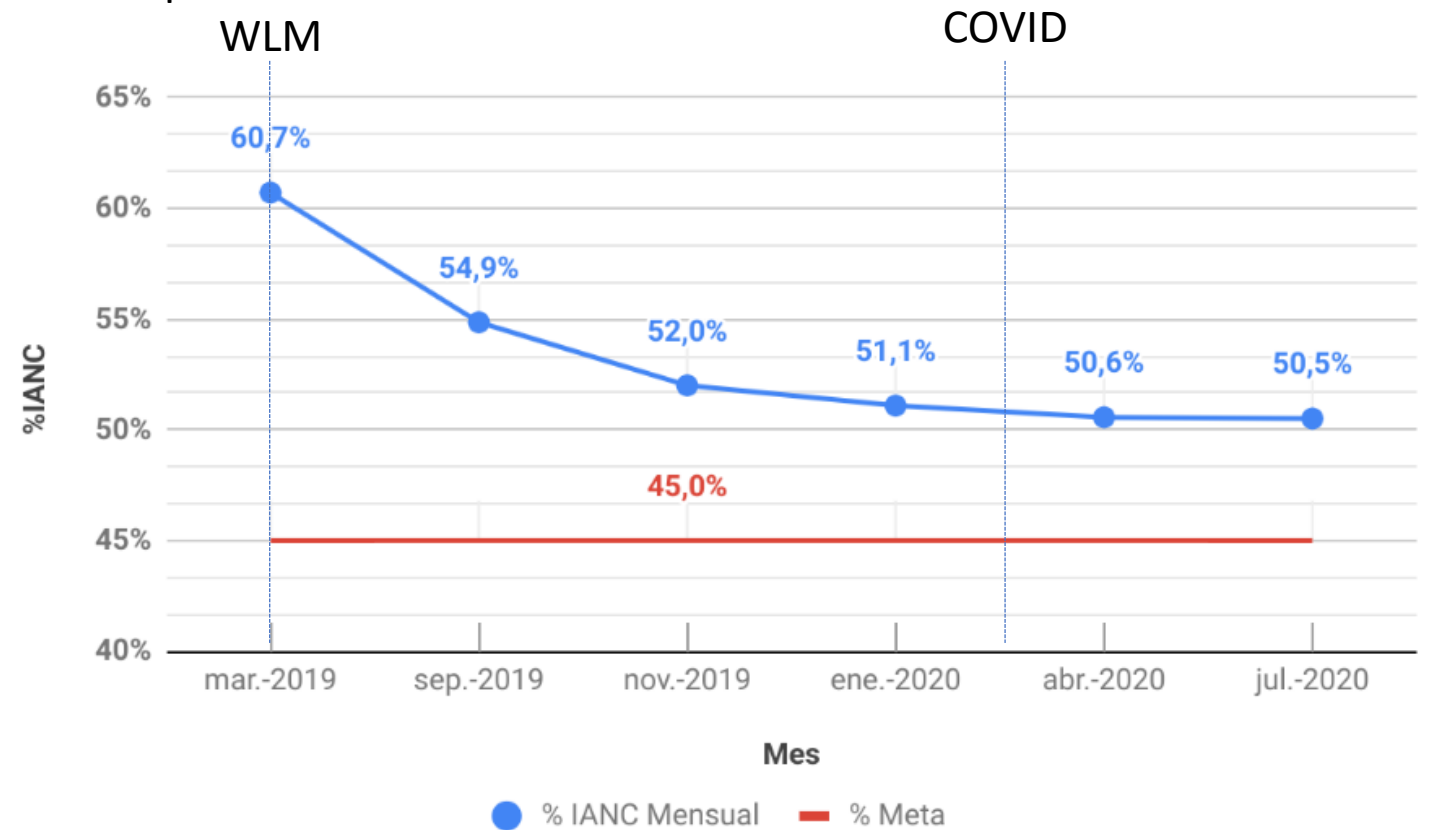


500 km

40k conn.

Qinlet 650l/s

## Implementation



# KPIS ON ROLLED OUT CONTRACTS



## Rabat (4 100 km, 228 000 dp)

Rolled out in September 2021

+ 2,5%

Sept 2021 to Sept 2022 : sliding monthly yield **81,7% to 84,2%**



eau de toulouse métropole  
SERVICE PUBLIC

## Toulouse (2 800 km, 136 000 dp)

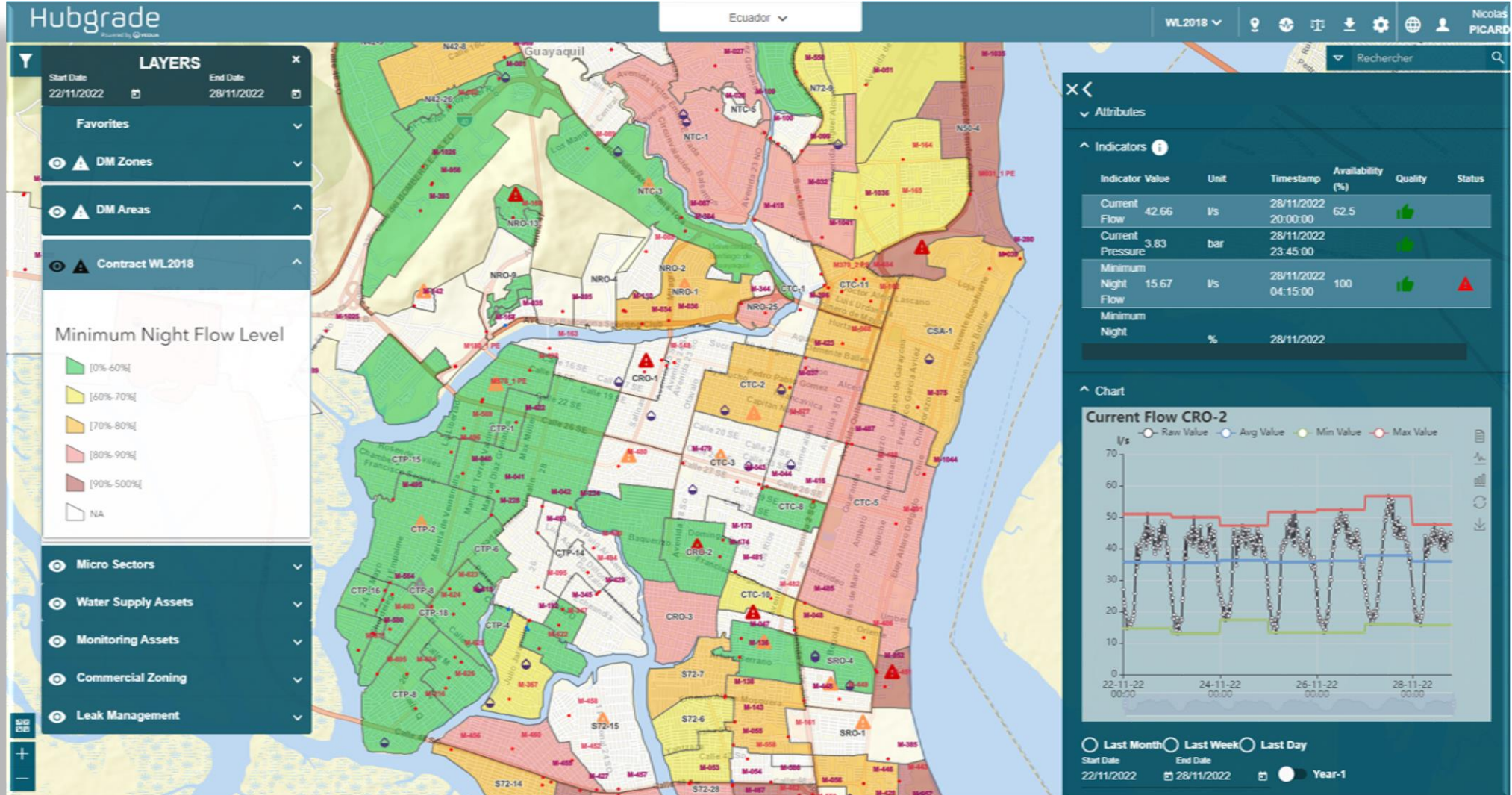
Rolled out in October 2020

+ 0,5 %

Yield 2020 to 2021 : **85,3% to 85,8%**

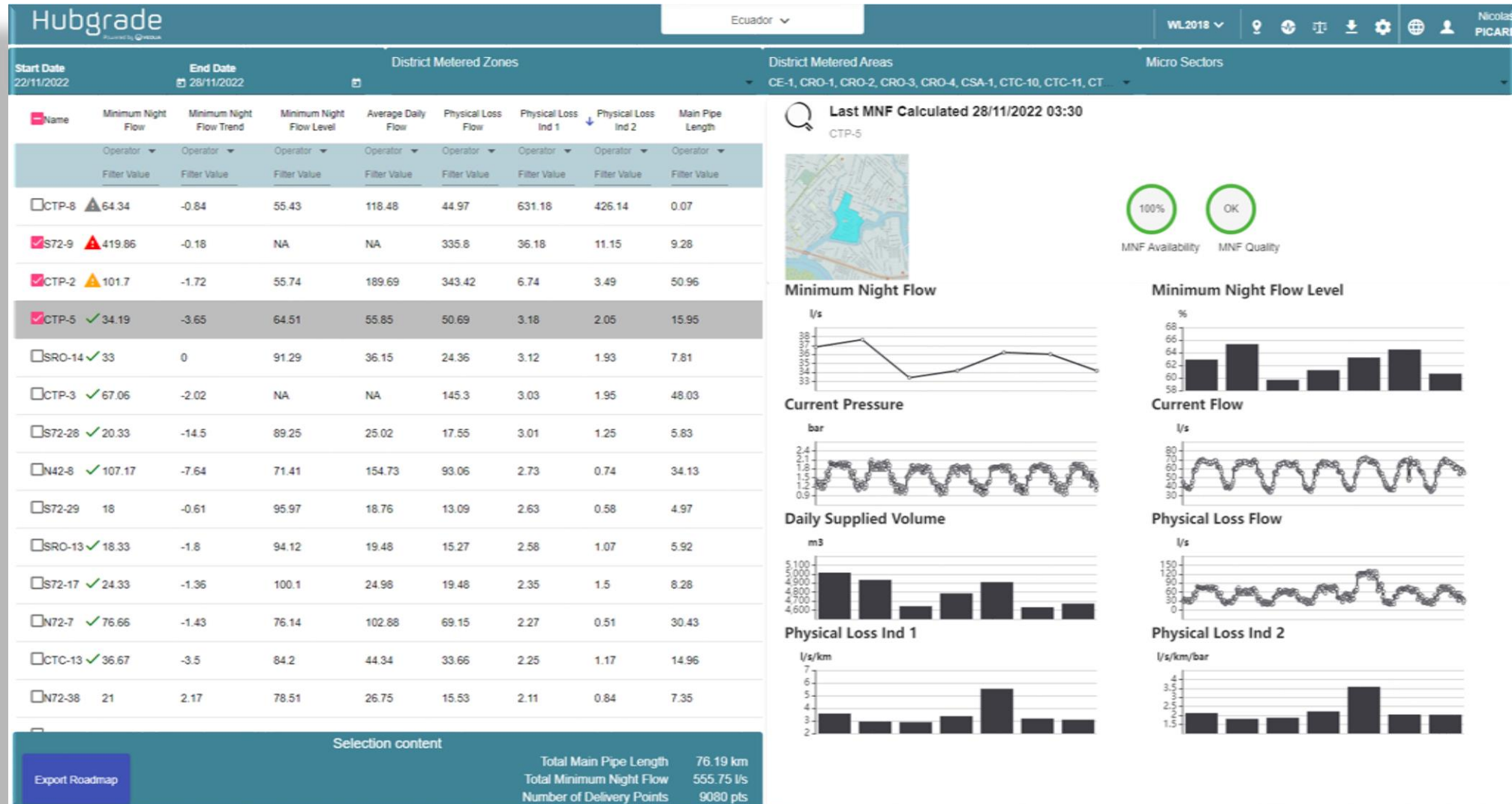
*Important to note that Water Loss Management is only a part of the network performance action plans. Presented KPIs are due to the global efficiency and expertise of Veolia local teams !*

# MAP

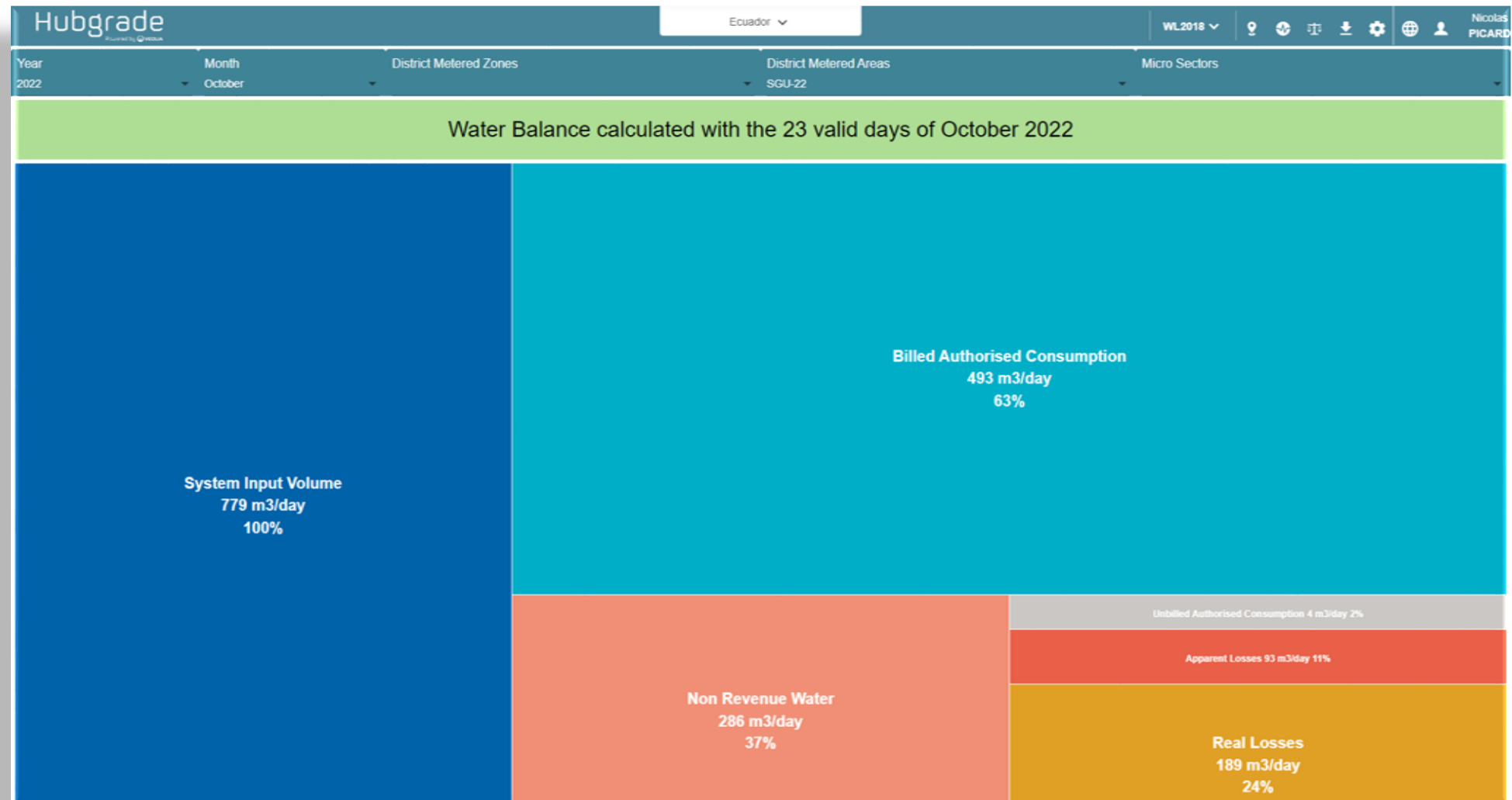




# DASHBOARD



# WATER BALANCE



# TO TAKE AWAY

A decision helping tool for drinking water network **of any maturity level**

3 ways of analysis to better **prioritize your actions** :

- **Interactive Map**
- **Tailored made KPIs**
- **Water Balance**

**Users / Personas / Stakeholder** : all involved in NRW reduction with  
**Water Loss Management**

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