

## About me

Lucia Costa **Engineer at HR Wallingford** 



- Degree in Environmental Engineering University of Bologna, Italy
- At HR Wallingford since 2005
- Focus on water supply systems
- Modelling, support, training, consultancy, technical software development
- International experience

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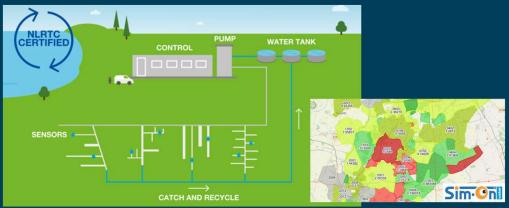
# About HR Wallingford

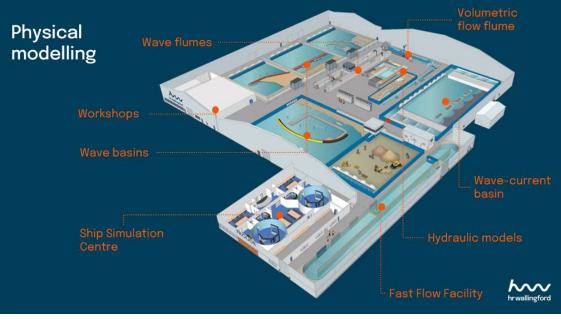


















# Main features

Simple and intuitive interface

Easy access web application

Sophisticated multi-parametric algorithms

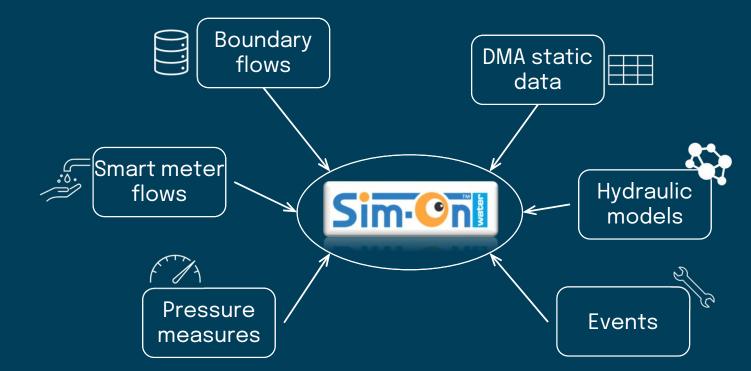
Automated processes

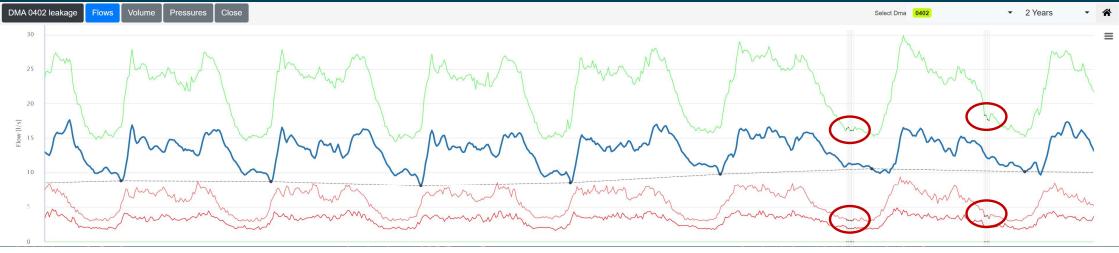
Real-time alerting system



# Data integration

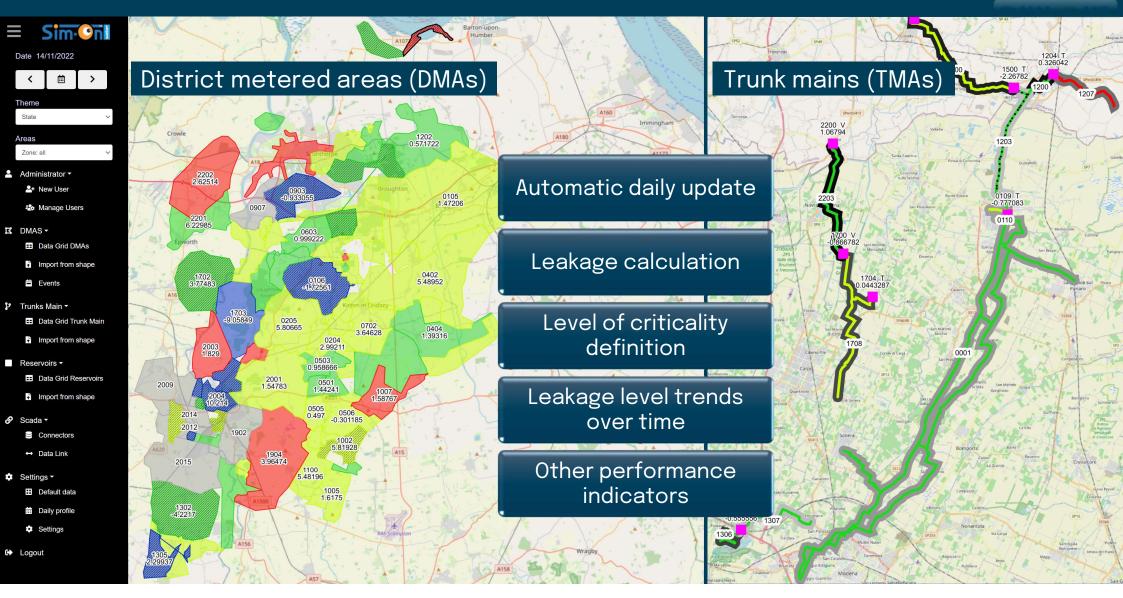
- Databases in different formats
- Permanent connection with source databases
- Data continuity with infilling

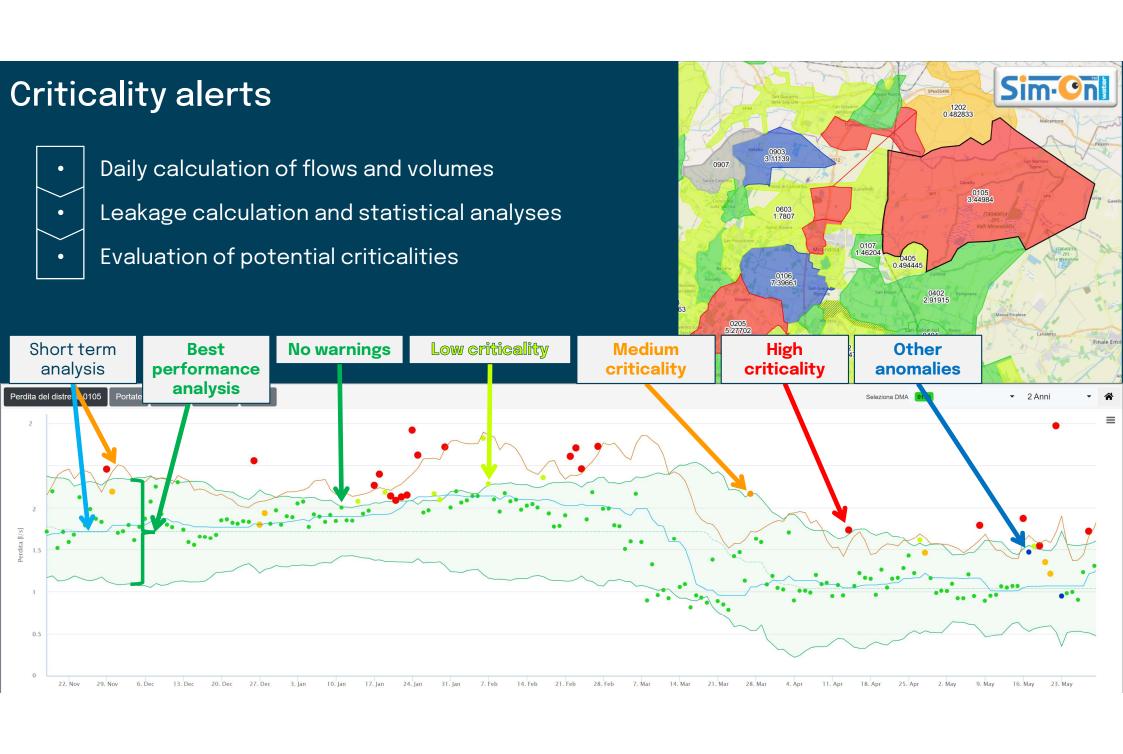




## Status dashboard for DMAs and TMAs







Leakage pre-location

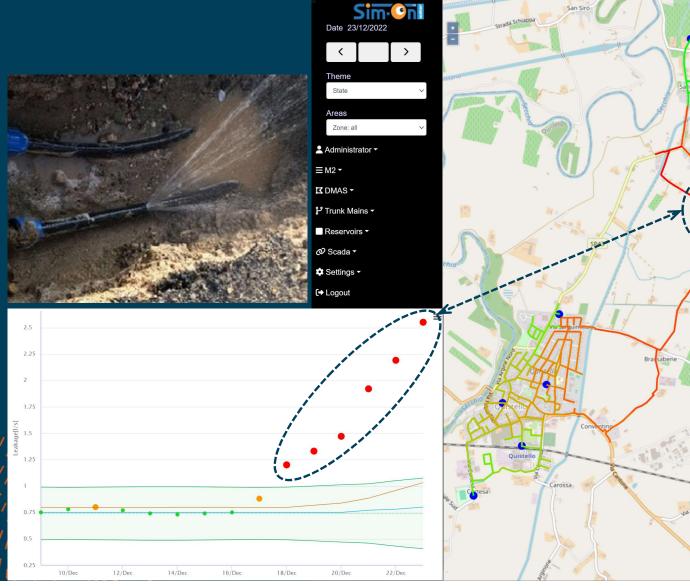
Sim-Only

Automatically triggered processes

Hydraulic modelling and iterative statistical calculations

Reduced number of pressure sensors needed in the field

Possibility to identify small leaks



# Real case example



#### **Metrics:**

- Number of DMAs: 206
- Number of flow feeds: 388
- Smart meter integration with 7181 households
  577 non-households

#### Modular costing scheme:

- Leakage calculation: number of flow feeds
- Leakage pre-location
- Smart meter integration



# International application





## Sim-On Water in a nutshell

# WHY

Support decision tool for piped systems managers

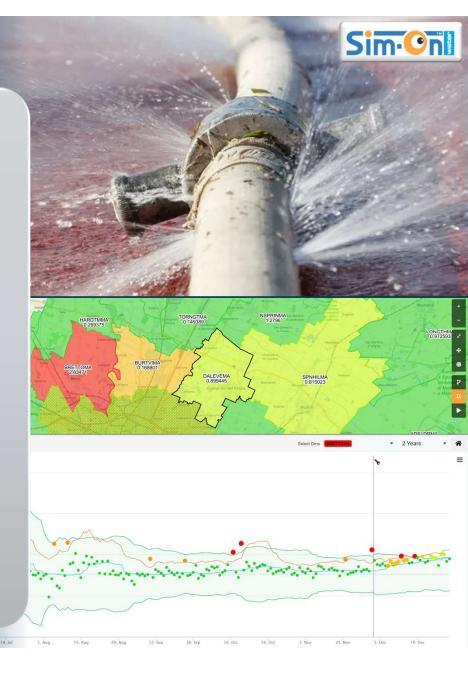
Optimise resources allocated to leakage repair

Identify the impacts of maintenance

# HOW

Immediately applicable software tool

Simple to install, configure, use and maintain





https://simondigitaltwin.com/sim-on-water

Thank you

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