

French Engineering Grand Prize

RISK: HIGH PRIORITY: 1





## We make your data talk to

1. Reduce the number of leaks

## More performance for the same budget

→ Which pipes (or service connections) to replace for maximum efficiency

### 2. Reduce the duration of leaks

Where to look for them first

#### Performance, resource

Asset management, responsible replacement Risk, resilience



**CLIMAT** 

**ENERGY** 



**Ecological AND energy transition** 

Reducing leakage also means wasting less energy and acting for the climate.



Solution addressing the

Development Goals

UN Sustainable

ADEME



Agence de l'Environnement et de la Maîtrise de l'Energie



**PATENT PUBLISHED** 







## HpO® brings together asset management & performance

Replacing rationally Making the most of every \$ Avoiding critical failures Reducing leakage / NRW

## Avoid 10 times more leakage than common practices

HpO® uses artificial intelligence to predict failures, prevent leaks and save water and energy resources in water distribution networks.

HpO® allows targeting replacements where they will be most effective, year after year.

HpO® has demonstrated an ability to target replacements to prevent up to 10 times more leaks than current water system renewal practices.







50% of leaks really occurred could have been avoided by following HpO® predictions by replacing only 5% of the network!

### Visual results that can be communicated and integrated into the GIS

#### First approach

- 1. Asset risk map
- 2. Leak detection targeting Directly usable results in GIS / O&M



#### Optionnal

3. Risk-based multicriteria analysis with your local preferences

4. Automatic clustering of works

# **Customised engineering services**

Altereo provides specialised technical assistance whatever your current situation: improvement of asset knowledge, implementation of a business GIS, deployment of the HpO® Collect application to capitalise on repair data in the field, implementation HpO® in "turnkey" or "software as a service" mode, up to assistance in securing financing for Efficient Replacement of your water networks.

Altereo has been a pioneer and leader in water infrastructure asset management for 33 years References of expertise missions for the efficiency of network asset management / provision of HpO® software services

Syndicat des Eaux	Chartres	Orléans	Limoges Métropole	Tours Métropole	Le Havre Seine	Grand Annecy (74)
d'Ile de France (75)	Métropole Eau (28)	Métropole (45)	(87)	(37)	Métropole (76)	