

How the city of Brussels saved more than 25 million liters of water per year



The City of Brussels approached Shayp with a completely unique business case. The city administration is not just responsible for one type of building: they manage offices, schools, sports facilities, fountains, nurseries, swimming pools and more.

This means that they have a distinct variety of problems, different makes, models and designs of water systems and a lot of legacy from historic developments as well as the results of incremental improvements by all previous administrations. What a challenge!

THE PROBLEM

The main issues faced during Shayp's project with the City of Brussels were the wide variety of buildings and public amenities equipped. Still, we discovered that the infrastructure was sustaining more than 25 million liters of water wasted per year, 83% of which was recurring.

Before installing the Shayp technology, water consumption was tracked through annual bills. It was then very difficult, if not impossible, to detect leaks simply with this method. After all, only if a very significant leak had somehow gone undetected for a long enough time, would it show up in the annual bills. There was simply no process in place to detect leaks. Which is completely normal, as the technology to enable such a process was also not available until recently

THE SOLUTION

Shayp adapted its algorithm to fit a diverse pool of 300 buildings, allowing for the first time in history a real-time overview of possible leakages across the Belgian capital's municipal infrastructure. Now, any leaks could be detected right away and the added costs of damages caused by undetected leaks could also be avoided. Saving hundreds of thousands of tax payer euros.

RESULTS

After careful analysis of their situation, we were able to design a holistic, tailored solution for the whole city.

The result?

The city administration is now not only not wasting 25 million liters a year anymore, they are able to save an extra 13 million on top. In financial terms, they are saving €190000 per year!

Moreover, the return on investment from their Shayp installation was realized within less than 12 months.

38 million liters/yr - 190k €/yr

“There are several advantages from Shayp’s service. First, the technology is very cost effective, non-invasive, and easy to implement. Second, the dashboard has a clear view of leaks and consumptions for each site, which is readable by everyone in our organisation. Third, the ranking of sites with most leaks, in combination with the number of days the leaks have been present, is particularly useful. In addition, compared to other services, we greatly appreciate the responsiveness from the Shayp team when we request information.”

Case: CITY OF BRUSSELS

Type : Offices, schools, sports facilities, fountains, nurseries, swimming pools...

Location : Brussels

Water saved : > 1 million liters/yr – 190k €/yr

Date : January 2019

ROI : < 12 months

Quote : “Easy to install & non-invasive”

EXAMPLES

ROI Baudouin stadium

Amount : Leak of 800 L/h since 2005

Repair : Leak detection specialist in 1 hour

Cause : Faulty valve

Manneken Pis fountain

Amount : Leak of 55 L/h since 1750

Repair : Immediately found

Cause : Unnoticed open system

TESTIMONIAL

“Shayp presents a clear view of leakages and consumption per site which is easily readable by all our teams. The ranking by order of maintenance priority is very smart & useful.”