

axians

Smart City:

how new technologies
make cities intelligent.

**Axians Italia's project for the
Municipality of Florence**

VINCI ENERGIES

Smart City: efficiency, sustainability, and innovation

When we talk about Smart Cities, we talk primarily about **innovation** and **efficiency**.

In an Intelligent City, **new technologies** are integrated into the urban planning strategy aimed **at optimizing public services and urban areas**.

But a globally digital approach, which offers a concrete view of how this urban fabric functions, also allows us to identify applications aimed at **protecting the environment**.

The ultimate goal of a Smart City is to **respond to the challenges** faced by cities to **improve the quality of life in urban areas and protect the health of citizens**.



Florence and the first **SMART** solution

In recent years, the Municipality of Florence has distinguished its city as dynamic and innovative, interested in experimenting with **smart solutions and technologies** to support public administrations in improving the quality of life of citizens.

Thanks to European funding programs, the Municipality of Florence has put in place a package of initiatives to bring attention to **environmental issues**.

One of these initiatives saw the involvement of Axians Italia as a selected trusted-partner.



How the collaboration with **Axians Italia** was born

At the end of 2018, Axians Italia won the tender set by the Municipality of Florence to develop the first smart solution of the Tuscan capital: **Smart Irrigation**.

Read on to find out more!

Smart watering? It is possible!

We at Axians Italia have carried out an **intelligent irrigation project** for the Municipality of Florence, thanks to which some green areas of the city are watered only when necessary, based on the current needs of the turf and plants.

The project has now been carried out in two gardens: The Garden of Porta Leopolda and the Garden of The Mechanosty.

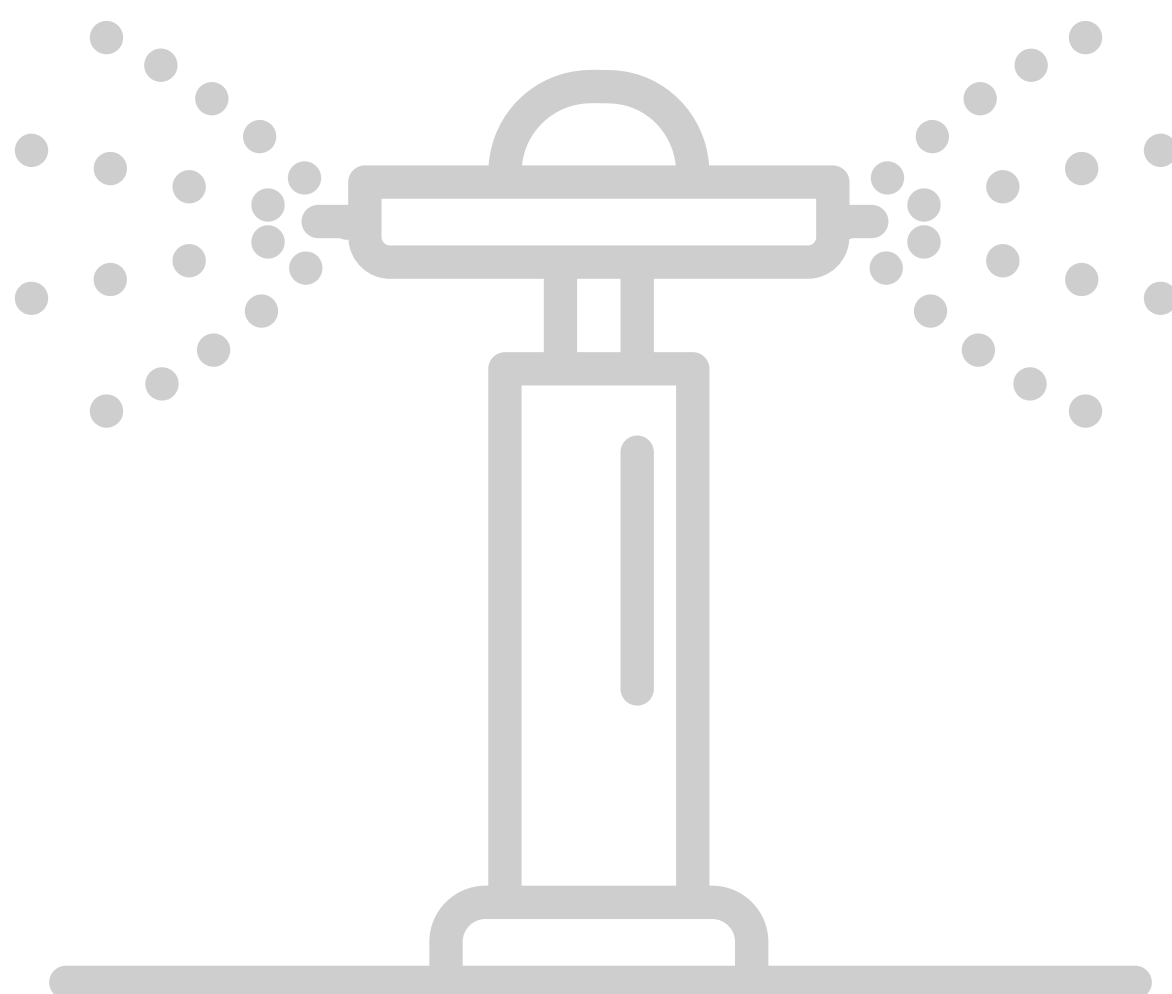
An additional garden is also planned, larger than the previous ones.

The solution

Thanks to dozens of sensors located directly in the public gardens, **the temperature, soil humidity and water levels can be measured in real time**. Sensors connect to the internet via a cloud to incorporate weather forecasts.

This information allows us to determine how and when to irrigate, therefore **optimizing costs and resources**.

In order to ensure maximum transparency and accessibility, a sign has also been placed in the gardens with a **QR code** that refers citizens to a specific page of the municipality's civic network where you can consult the data of the garden sensors.

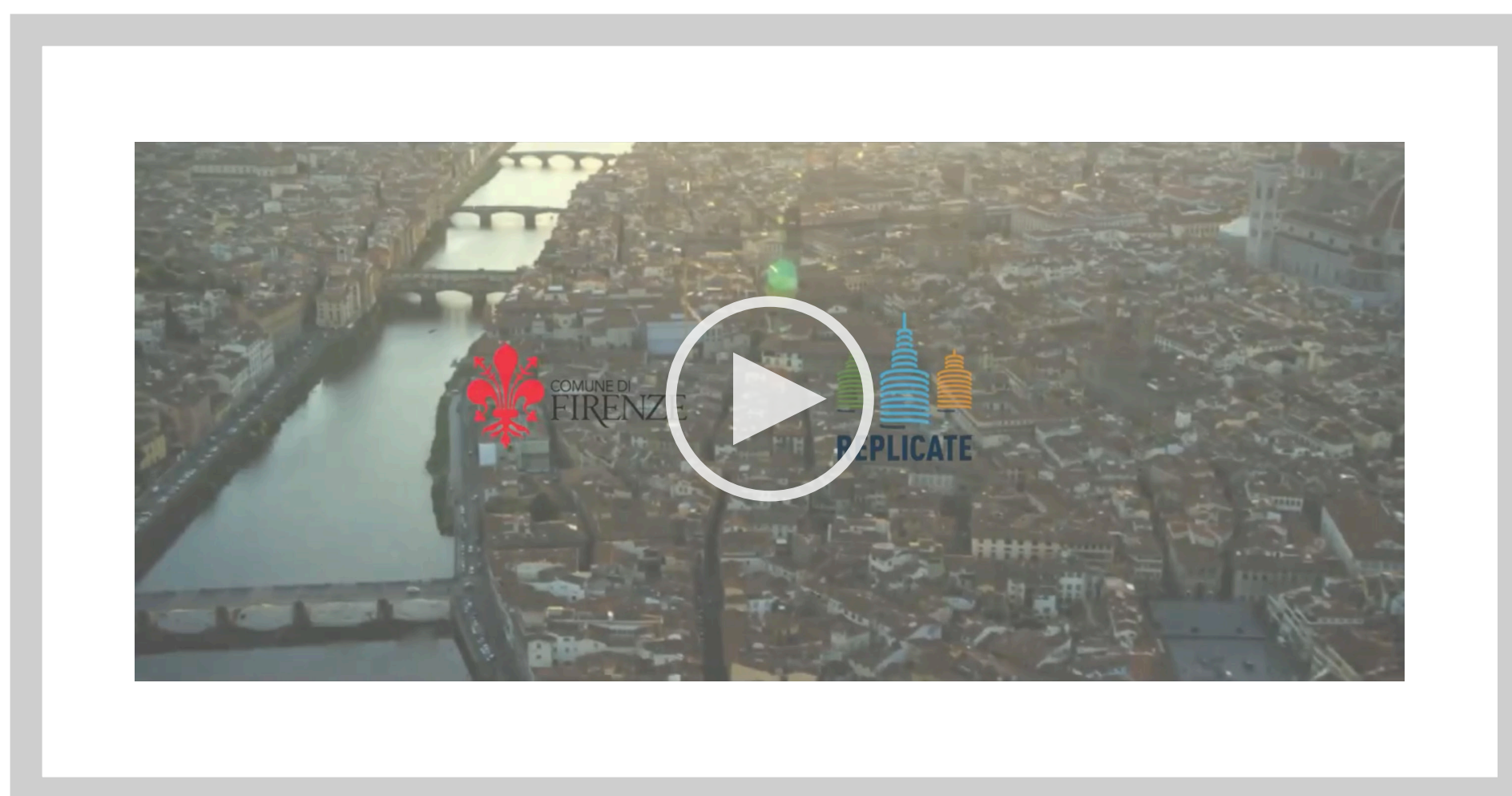


The results

The Municipality of Florence is very satisfied with what has been achieved together, also for **the potential for our innovative solutions** to be applied in many **other city contexts**.

The benefits and successes of the Smart Irrigation solution are various:

- ✓ up to **30% saving of the annual water supply**;
- ✓ optimization of inspections by environmental operators, with consequent reduction of travel;
- ✓ attaining the **“Digital Agenda for Green Smart City”** award, a coveted award given by the School of Management Observatory of the Politecnico of Milano.



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