



How Can IoT Technology Help Turn a Famous Resort Town into a Smarter City?



SAP Business Transformation Study | Public Sector | City of Antibes

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Every summer, up to a million people flock to the city of Antibes to experience all the joys of life along the French Riviera. Antibes' leaders recognize that Internet of Things (IoT) technology can improve life in many ways for residents and visitors alike. As its first application, the city wanted to make its municipal water infrastructure more efficient.

Working closely with SAP, Antibes developed a system that monitors the water distribution infrastructure through sensors, securely transmits the mountains of data collected to SAP® Cloud Platform, and analyzes it using the SAP Leonardo digital innovation system. The results: breakdowns avoided, maintenance schedules optimized, and costs saved. That's the kind of public service that will keep those vacationers coming for generations.





“Without data protection, you cannot scale an IoT deployment into production. But with the security system in place that we and SAP developed, we can detect any intrusion and receive an alarm in real time.”

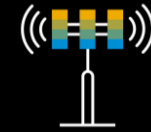
Patrick Duverger, CIO, City of Antibes

Data collected from the water network includes temperature, salinity, chlorine levels, and pH – all factors that can influence the reliability of the water supply and indicate the need for changes to maintenance and repair schedules. The security system that SAP and the city developed keeps intruders from acquiring or tampering with this data during transmission.



200

Miles of water pipeline



2,000

Sensors



15,000

Data points per hour



150

Surveillance cameras





Making Antibes Smarter with SAP® Solutions



City of Antibes
France

www.provenceweb.fr/e/alpmarit/antibes/antibes.htm

Industry
Public sector

Products and Services
Municipal services

Employees
2,661

SAP® Solutions
SAP® Leonardo digital innovation system and SAP Cloud Platform

The City of Antibes is using Internet of Things (IoT) technology to improve its infrastructure. With the municipal water system now digitalized, the city and SAP are collaboratively turning their attention to risk prevention for public places. Antibes will upgrade some of its 150 video surveillance cameras to become multifunction sensors and use machine learning on the edge to detect abnormal crowd movement by analyzing their output in real time, providing early warning for incidents such as terrorist attacks.

Before: Challenges and Opportunities

- Make the public water system more efficient and dependable
- Keep citizens and visitors safe
- Replace inefficient, costly, manual monitoring of surveillance cameras with machine learning on the edge

Why SAP, Veolia, and Sigfox

- Legacy of success partnering with SAP
- Industry-leading IoT solutions
- Ability to codevelop a highly cost-effective data protection scheme

After: Value-Driven Results

- Can anticipate and avoid water infrastructure breakdowns, saving costs while providing better customer service
- Optimized maintenance schedules, for more cost savings and public service improvements
- Acquired knowledge for better planning of future infrastructure investments
- Developed a solution for detecting intrusion attempts in real time
- Launched a project to apply IoT technology to public safety by monitoring video cameras in key city locations and analyzing data they capture with suspicious activities
- Served as a model for IoT applications for municipalities around the world

“Safety and speed have become critical because we need to be able to react quickly to unfolding events like those that have occurred all too frequently in recent times around the world.”

Patrick Duverger, CIO, City of Antibes

Featured Partners



Streamlined

City services

More efficient

Water distribution system

Safer

Public areas in the city 24x7



See how the IoT has equipped Antibes to make its water network smarter.



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