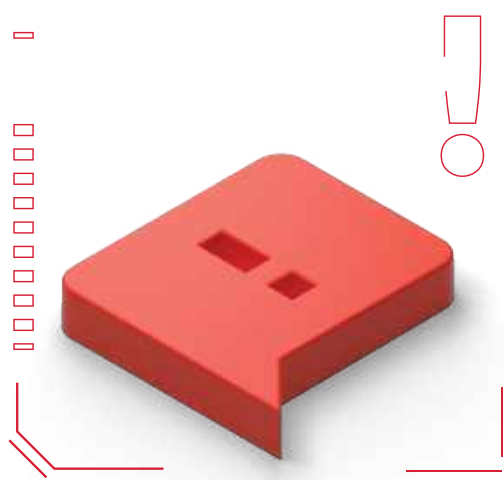




Smart City



Product Overview

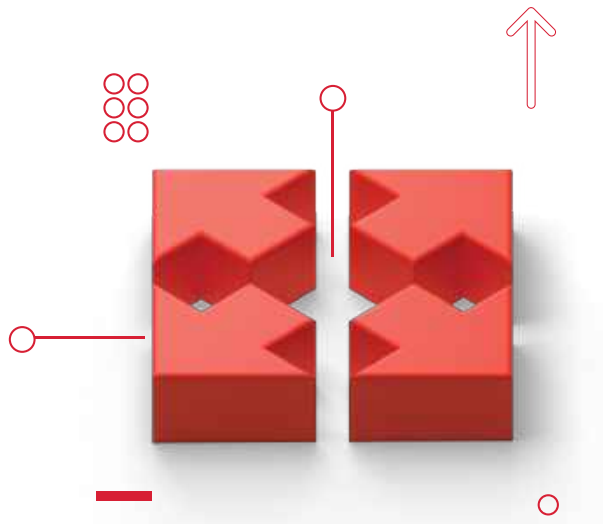
Everybody and everything will eventually be interconnected.

Every consumer product and piece of infrastructure increasingly has the ability to sense surrounding stimuli, to communicate with other devices and people, and to draw on the computing and storage power of the cloud. This phenomenon has been dubbed the internet of things.

The smarter devices and sharing platforms there are, the more data is generated about consumer's preferences and habits. But what does this mean for cities? Smart cities are employing the same technology to connect their disparate utility, infrastructure, and public service grids, generating real-time aggregate data.

This, in turn, can help cities manage their programs and services more effectively and gauge their impact immediately.

The city of the future is an interconnected one, where devices communicate with one another in a constant stream of data that provides real-time information to the public and to the municipality.



Benefits

Smart City is used as a “catch-all” for many diverse topics. But most will agree that the benefits of a smart city is quite common:



Enhance performance.



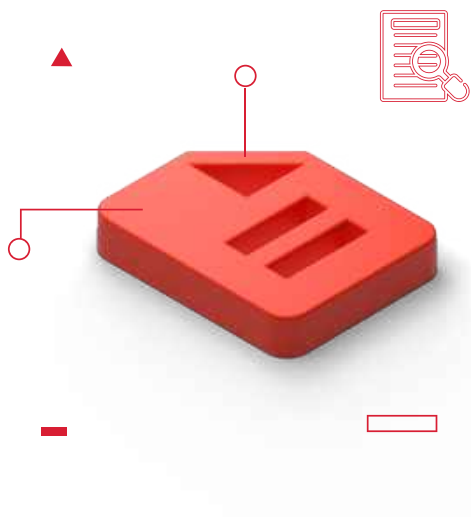
Optimize resources.



Reduce waste, consumption, and cost.



Having a high standard of living for its citizens.



Use Cases

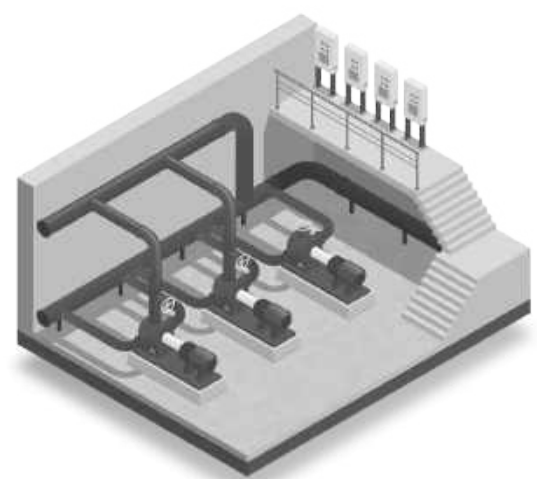
Several smart cities use cases are enabled by the Internet of Things, ranging from enhancing public safety as well as a healthier environment for enhancing traffic. Following are the most popular use cases that were already implemented in smart cities throughout the world.

TRANSPORTATION CONGESTION SENSORS

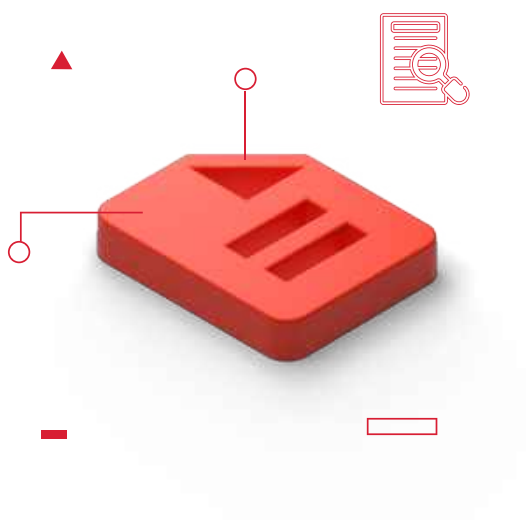


Smart transportation systems use sensors to detect congestion and bottlenecks in traffic patterns. They also rely on cameras to enforce speed and traffic infractions. In doing so, these tools gather real time information that can be used by city DOTs to make mobility networks safer and more efficient.

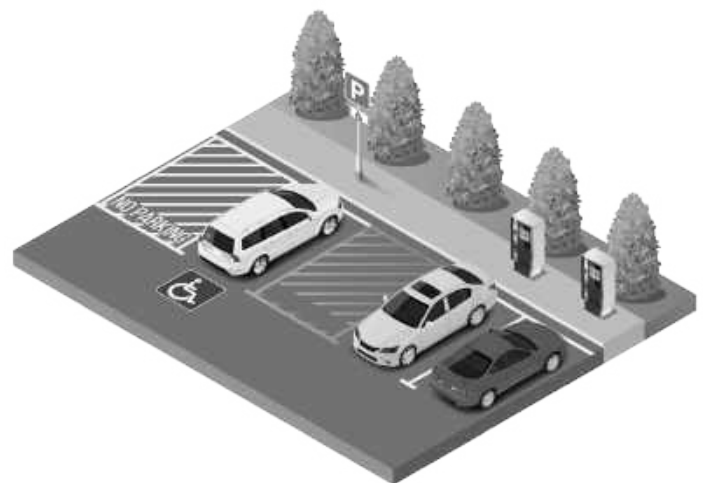
WATER AND WASTEWATER MONITORING



Monitoring devices can detect leaks as well as changes in water pressure to determine whether water infrastructure is working properly.



Use Cases



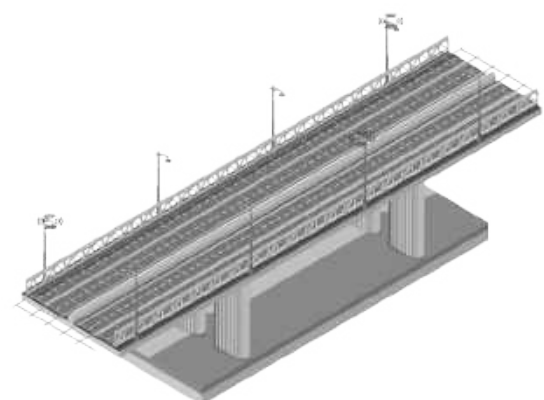
PARKING APPS

Apps coordinate with smart parking meters to inform drivers of where there is parking availability.



WASTE MANAGEMENT SENSORS

Sensors detect the amount of garbage in receptacles around the city so that sanitation workers can maximize efficiency in their routes.



BRIDGE INSPECTION SYSTEMS

Sensors monitor the structural soundness of bridges and inform city engineers of any issues. Drones are used to inspect hard to reach areas.



DRONES

Drones can be used for law enforcement and firefighting, as rural ambulances, for infrastructure inspections, and for environmental monitoring. Commercial uses include precision farming, aerial photography, and soon, package delivery



Use Cases

LIGHTING



LED lights are weather adaptive, and communications are automatically sent to the Department of Public Works when the bulbs need to be changed.

ENERGY MONITORING



Power plants can be monitored for safety and city officials can be informed of any influx in radiation levels.

SURVEILLANCE CAMERAS

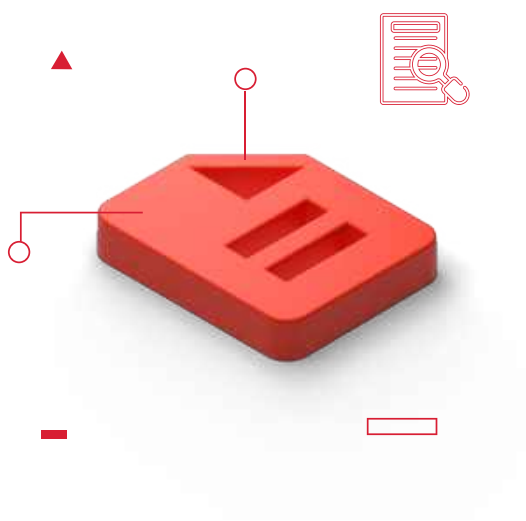


monitoring activity in areas that are not frequented by public safety officers. Areas that are not open to public access can be monitored to keep unauthorized personnel out.

SMART LOGISTICS/FREIGHT



Platooning trucks carry freight efficiently from the port to their destination. Smart inventory systems inform operators about when freight is moved between different locations.

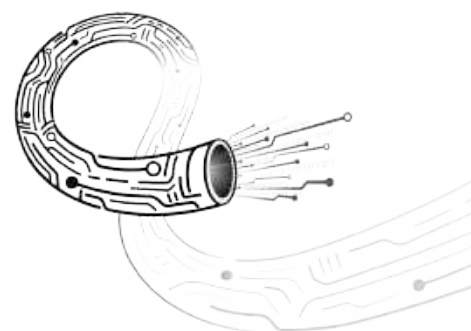


Use Cases



ENVIRONMENT MONITORING

sensors monitor noise, air and water pollution and keep citizens informed of air quality, conditions, and pollutants.



BROADBAND INFRASTRUCTURE

A reliable internet ecosystem is the glue that holds the internet of things together.



IRRIGATION CONTROL

Farmers can now schedule and apply the right amount of water to crops, reducing waste and costs.



FIRE DETECTION

Sensors monitor conditions in public parks and wooded areas that might be prone to fire. Sensors can also detect fires in buildings and initiate a call to the fire department in an emergency.



About Tahaluf

In an effort to define the digital landscape for the region, Tahaluf was established in 2015 as a strategic initiative for the nation's quest for digital transformation.

Since its inception, Tahaluf has strived to provide the latest state-of-the-art solutions and services to keep businesses secure and at the forefront of the future. By solidifying its position as an innovative industry leader offering integrated solutions and services across the country and internationally, Tahaluf has established itself as a leading national presence in IT and cybersecurity.

Tahaluf's growing legacy has become intrinsically woven into the technological advancement of the UAE, shaping, and elevating the government's determined strive to achieve its ambitious vision built around smart cities and infrastructure developments. With this vision, Tahaluf intends to continuously cultivate innovation and transformation, provide cutting-edge security solutions, and create a future of possibilities in the UAE and beyond.



WE DO IT
WITH
PASSION

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