



**As the global population continues to grow, more and more people are moving to cities every day. Challenges with population control, security and city governance are becoming prevalent, with increasing pressure to safeguard inhabitants against threats such as terrorism, economic crisis and depleting natural resources.**

Experts predict the world's urban population will double by 2050 – which means we're adding the equivalent of seven New York Cities to the planet every single year.

To handle this large-scale urbanization, the concept of smart cities has evolved and developers are now working with cutting edge technologies to find new ways to manage complexity, increase efficiency, reduce expenses, and improve quality of life.

With this rapid growth ahead of us, the need to control safety and security of our population whilst consciously implementing sustainable practices is now at the top of most developers agendas.

The smart city is a concept which involves the integration of systems which are designed to protect and safeguard people. For example, imagine if our cities could talk. If they could give us live status updates on traffic patterns, pollution, parking spaces, water, power and light. Imagine how that kind of information could improve the economic and environmental health of the city for residents, merchants, and visitors. Imagine how it could improve working conditions and productivity for the people who maintain the city.

Emerging technologies are poised to reshape our urban environments. Using ultra-low power sensors, wireless networks, and web and mobile-based applications, Smart Cities are becoming a reality.

The internet of things has brought the concept of devices connecting and talking to each other into our mainstream consciousness. Currently, for the majority of us, our interaction with the internet of things on a personal level consists of smart meters which control the heating in our homes. These smart metres can adjust the temperature depending on the outside temperature, allow you to monitor the heating remotely from your smart phone or even detect where your smart phone is and adjust the heating based on its proximity to the location.

Smart Cities are the next generation of this concept, and applied on a macro level to all the inhabitants of a city; the way they interact with each other and the buildings and services they use on a daily basis.

## **How is Tyco Helping to build Smart Cities?**

With technology at the forefront of every new initiative Tyco embarks, Tyco Fire Protection Products is embracing smarter ways to protect people and save lives through integrated fire safety and security systems

TFFP is connecting its customers to smart intelligent building systems through product development and innovation. Solutions are being created to answer customers' needs and the challenges of a modern Smart City for instance:



We are developing an integration platform which will allow Tyco's sophisticated fire detection systems from ZETTLER to integrate with CCTV and other security systems for real time monitoring and notifications of fire and security threats. The newly enhanced Victor platform provides a modern and intuitive to managing alarms and incidents. Uniting all security platforms together; providing a 360 degree through one user interface, Victor has been configured to manage live and recorded video, employing heat mapping to monitor foot traffic and interactive maps that provide excellent situational awareness, integrating fully with your fire alarm system.

ZETTLER's new remote diagnostics feature allows building managers to integrate information about the performance of their fire detection system from any location. This way the system can be monitored to and predict and diagnose any faults before they arise.

**Look out for more news on Victor coming soon.**