Insight Report: Industry 4.0 and the digital transformation of cities

Gepubliceerd 21-feb-22 08:25 door [Caroline De Cristofaro](#)

How the latest generation of connected urban infrastructure is changing the face of our cities and laying the foundation for the future of urban environments with case studies from Paris, Espoo, Leuven and Ontario.

More than half the world's population already lives in towns and cities. As a result, countries around the world face the challenge of how to meet sustainability targets in the face of growing urbanisation. From transportation and communications networks to social, economic and health ecosystems, the building blocks of cities are under increasing strain from urbanisation and climate change.

That's why city authorities are increasingly turning to smart technology to deal with the challenges of today. IoT technology, such as cameras and air quality sensors, are capable of capturing data for various purposes that enable city infrastructure to run in a more efficient and eco-friendly way.

Using technologies such as AI and Blockchain, this data is helping to drive the future of urbanisation – opening the door to a whole new generation of Industry 4.0-based digital services to better manage and control city activities. This digital transformation is wholly reliant on a reliable and robust network infrastructure. 5G gives us the potential to connect smart city infrastructure over private wireless networks, for seamless operation.

Not only does urban digitisation help cities to meet their sustainability goals, it also enhances public safety, and improves quality of life for the local population. What's more, it enables new business and innovation models. By providing the infrastructure for smart data collection, smart city platforms give startups the opportunity to develop new solutions to real-life problems. As well as benefitting citizens, these new business models can help innovative cities to generate a new socio-economic climate in a way that is eco-friendly and sustainable.

You can read the full report [here](#).

Source: SmartCitiesWorld

Tags : ai, blockchain, data, eng, infrastructure, smart-city, urban, urban-environment