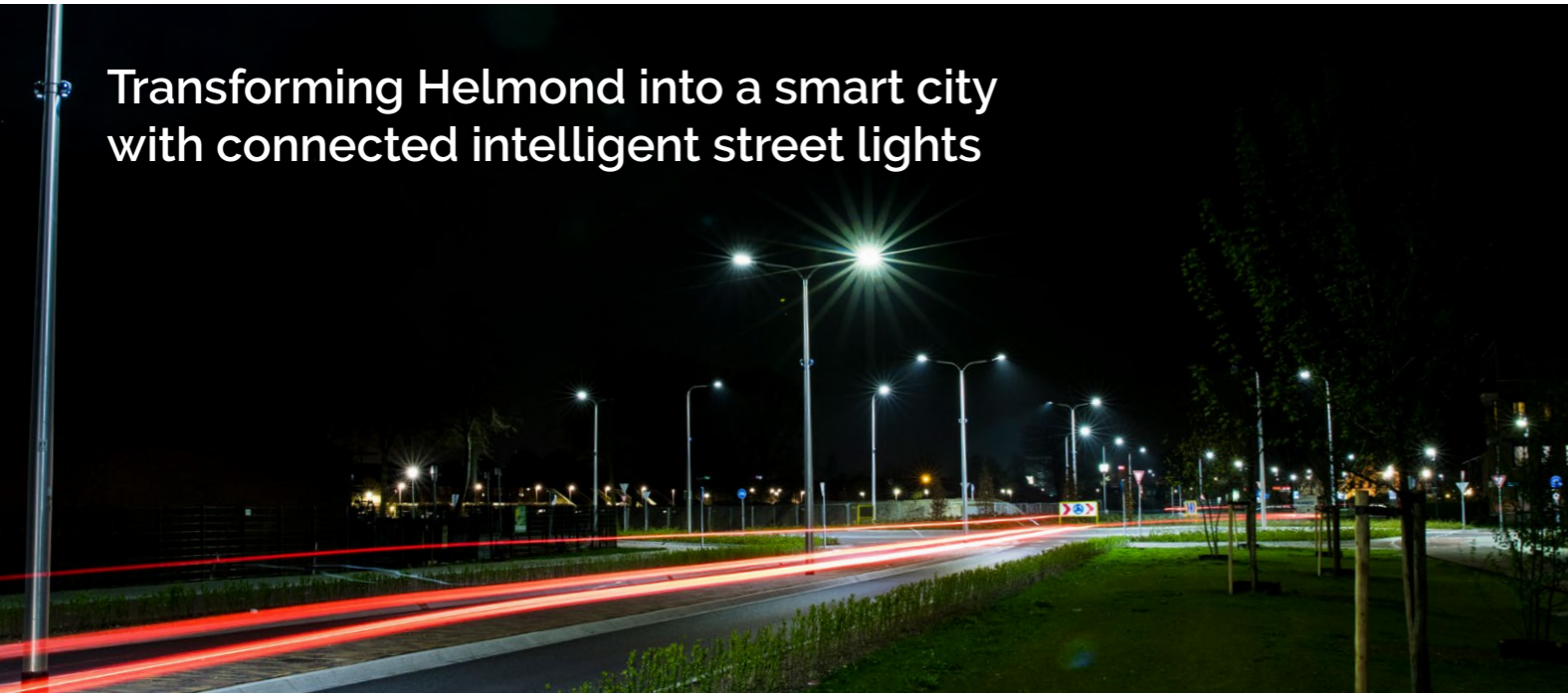


City of Helmond

Transforming Helmond into a smart city with connected intelligent street lights



Motion-based intelligent street lighting and a smart, intuitive light management software from Tvilight enables the city of Helmond, the Netherlands, reduce its carbon footprint, save energy, increase public safety and comfort, and take a leap towards becoming a smart city in Europe.

“We are interested in sensor applications and Big Data analytics. We see connected lighting networks as a gateway to this. We are already testing several sensors and exploring the possibilities to interconnect smart streetlights and traffic lights. To achieve all of this you need a system that is open and ready for the future. With Tvilight, we can.”
Alfred Groot, Public Lighting Manager, Municipality of Helmond

Challenge

The city of Helmond is a knowledge hub and a living lab for the automotive industries. As the growing industrial city with traditional lighting infrastructure, Helmond was facing several challenges. Because the city was growing, the energy consumption was increasing. The negative impacts on public safety and comfort were also rising due to street crimes, especially in the poorly lit areas of the city.

Solution

Helmond wanted an effective solution that could provide adequate street illumination, to make citizens feel safer, and at the same time, conserve energy, to cut heavy public lighting costs. The municipality wanted a connected lighting solution that would also uplift the aesthetics of the city and become an ideal platform for the additional smart city devices and IoT applications.

“We want to make Helmond a smart city and a great place for people to live and work,” says Alfred Groot, Public Lighting Manager, at the Municipality of Helmond. For that reason, *“Connected intelligent lighting is a logical step (for us) towards this goal.”*

Tvilight provided the city of Helmond with its cutting-edge connected intelligent lighting solution, which includes award-winning street light sensors and wireless lighting controllers capable of adjusting the level of illumination based on real-time human presence. In addition to innovative smart lighting solution, Tvilight offered intuitive, feature-rich light management software, CityManager, which allows the

Helmond municipality to collect valuable statistics, such as citizens activity and energy consumption, and create light profiles that match the illumination requirements of each particular location in the city. Furthermore, because Tvilight's solutions use Open API, Helmond city has the ability to integrate multiple third-party sensors, software and applications, enabling it to accelerate towards becoming a smart city.

Public Safety & Energy Savings

With Tvilight's CitySense, there is always the right level of illumination to make the citizens feel safe and comfortable. In the absence of human presence, streetlights dim to a predefined level, creating exceptional energy savings.

Smart City Ready

Tvilight's intelligent lighting solutions, which use Open APIs, allow Helmond to integrate multiple third-party sensors, software and applications.

Adaptive Lighting

The versatile light management software, CityManager allows setting the right levels of illumination for each street light based on time, road type and citizens' needs.

Luminaire Independence

The city uses a variety of luminaries, yet they all can be monitored, managed and controlled via the Tvilight's smart system.



Project Details

Location	Helmond, the Netherlands
Client	Municipality of Helmond
Application Areas	Main and secondary roads, residential neighbourhoods, industrial terrain, pedestrian zones, bicycle paths
Products	CitySense, SkyLite & CityManager (a variety of LED streetlights)