Application Note
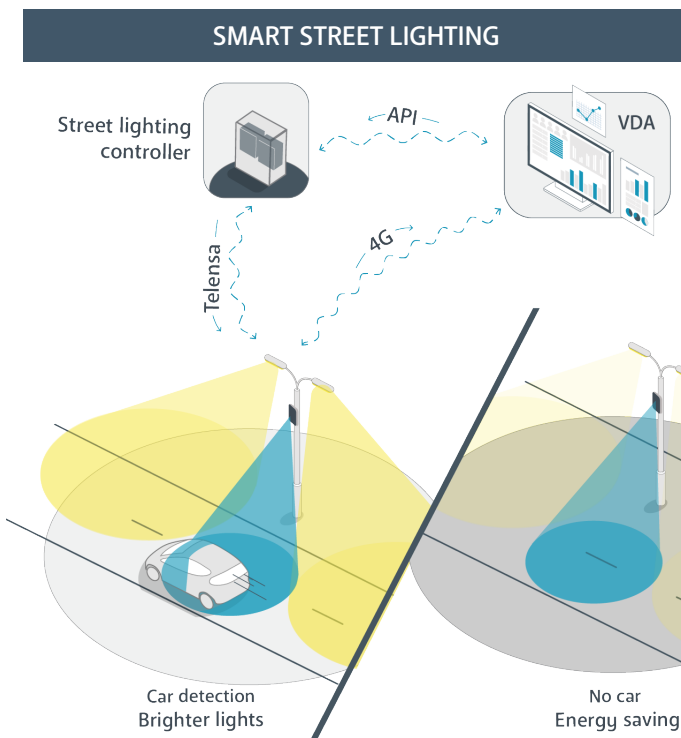# Smart City Detection

Suffolk County Council's Innovative Approach To Smart City Sensing

SMART STREET LIGHTING

Street lighting controller

API

VDA

Telensa

4G

Car detection
Brighter lights

No car
Energy saving

TagMaster were selected by Telensa to supply traffic sensors, TrafficRadar and Compact, in a pioneering project for Suffolk County Council. The project on urban and rural highways is part of £4.4m ADEPT Live Labs programme to evaluate the true value of data insights.

Deploying 100 sensors on its smart street lighting infrastructure for automated traffic data collection. TagMaster's sensors include monitoring of traffic, road condition and air quality metrics.

ABOUT TAGMASTER

TagMaster UK develops and delivers advanced Intelligent Systems (ITS) for Smart Cities based on sensor systems and innovative mobility solutions in order to increase efficiency, security, convenience and to decrease environmental impact.

TagMaster is dedicated to deliver robust, reliable and easy to use vehicle detection and identification solutions for demanding environments with actionable information you can trust. The data collected can be harnessed and utilised for informed decision making and untapped possibilities.

Traditional transport planning and road modelling hardware can now be unlocked to compliment Smart City agenda without infrastructure changes.

Smart street lighting is public street lighting that incorporates technology, such as cameras and other sensors, to introduce real-time monitoring functionalities. Also referred to as adaptive lighting or intelligent street lighting, that adapts to movement by pedestrians, cyclists and cars in a smart city. It brightens when sensing activity and dims while not.

Central control saves energy, improves service levels and enables lighting to respond to citizen needs. It transforms isolated street lighting infrastructure into the connected foundation for other smart city sensor applications.

SUFFOLK COUNTY COUNCIL

Suffolk County Council has a long track record of introducing smart technologies with Telensa. All 65,000 of its streetlights are wirelessly controlled, saving over £1m per year. More recently Suffolk pioneered the use of traffic-adaptive lighting to further reduce energy costs and CO2 emissions from its highway lighting.

Suffolk County Council wanted to use the smart street lighting infrastructure to extend the data collected from different sensors; to source an open platform to ensure further ambitions to size-up would be achievable and to be able to add, move or takeaway different sensors as necessary.

SUMMARY

The Smart City benefits include a reduction in cost, increased efficiencies, a breakdown of silos and reduced carbon emissions, as well as to enhance citizen's quality of life.

Streetlight infrastructure provides location provenance, a power source and a fixed data point, which lowers the barriers to deploy subsequent smart city sensors.

Suffolk County Council's innovative approach to smart city sensing has brought together several technology partners to provide a flexible and open infrastructure to future-proof the project. Application data can be received from multiple sensor types as well as from numerous third-party systems.

Work smarter, work together.