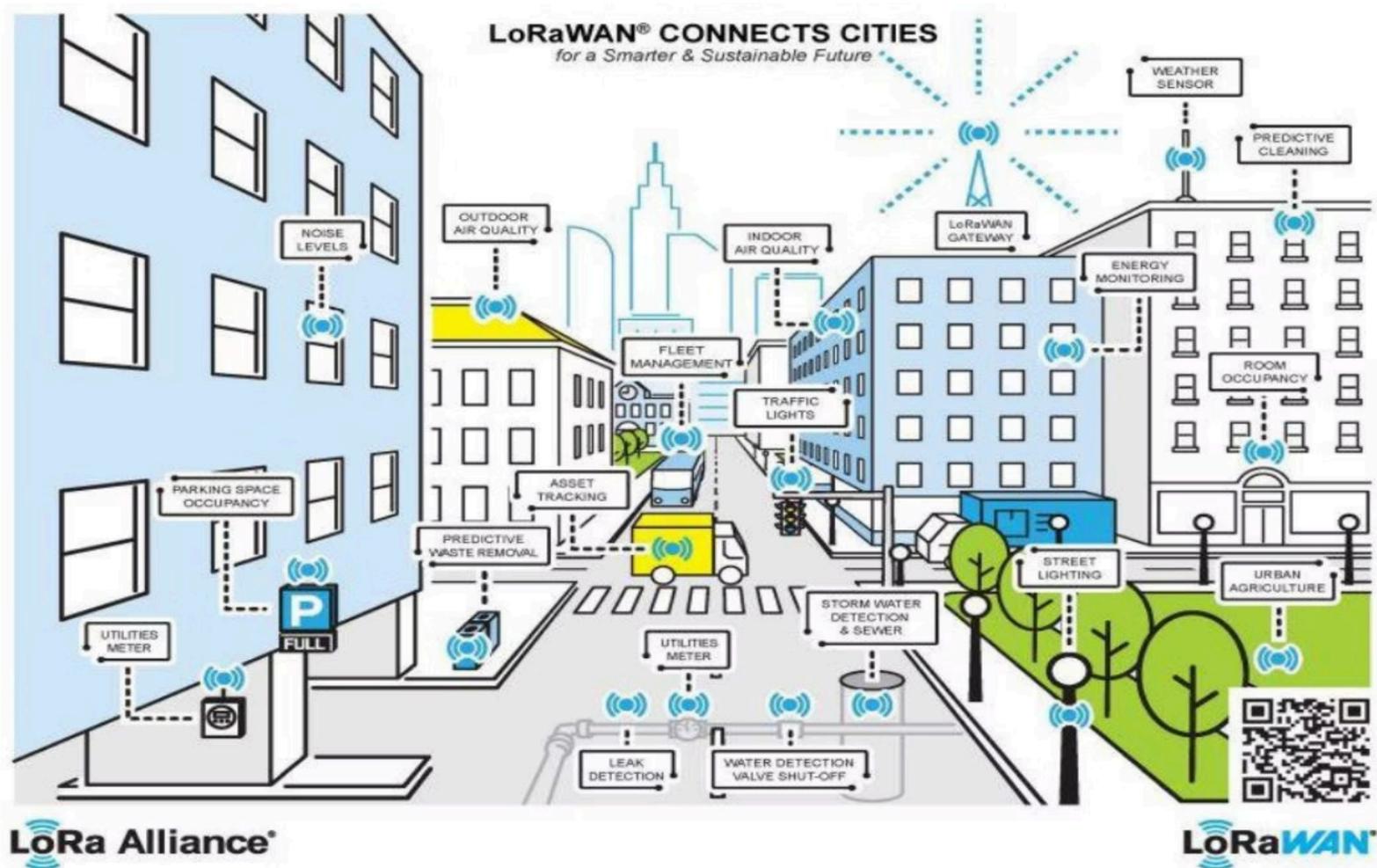


Concept for the Implementation of LoRaWAN® in Cities

LoRaWAN® networks offer a variety of application possibilities in a city. Here are some areas of application for LoRaWAN® in a city:



1. Environmental Monitoring: LoRaWAN® can be used to monitor air quality, noise pollution, and particulate matter pollution. This allows measures to be taken to improve residents' health and environmental conditions.
2. Smart Street Lighting: LoRaWAN® can be used to control streetlights. By using motion and light sensors, lighting can be automatically controlled and switched on and off to save energy.
3. Traffic Management: LoRaWAN® can be used for traffic management in a city, including monitoring traffic signals and tracking road users. This can improve traffic conditions and avoid congestion.
4. Smart Parking: LoRaWAN® can be used for smart parking, including monitoring parking spaces and displaying available parking spaces in real time. This can save drivers time and reduce environmental impact caused by searching for parking spaces.
5. Waste Management: LoRaWAN® can be used for waste management, including tracking waste containers and optimizing collection schedules. This can reduce maintenance costs and improve efficiency.
6. Smart City Infrastructure: LoRaWAN® can be used to monitor infrastructure in a city, including monitoring water, gas, and electricity meters. This can reduce maintenance costs and improve efficiency.
7. Schools and Offices: LoRaWAN® technology is used for air quality measurement in schools and offices. Sensors are installed in the rooms and send data in real-time to a cloud platform, where it can be used by school or office administrations to make decisions to improve air quality. By using LoRaWAN®, the health and productivity of people indoors can be improved.