

# Smart Cities

## 1) Smart access control:

Smart access control systems incorporate multiple layers of security, including two-factor ID authentication, real-time alerts for suspicious activities, and remote management capabilities that allow business owners and personnel to view and control access points from anywhere and at any time.

## 2) Smart lighting system:

Smart lighting is an advanced way to light your home. Smart LED bulbs contain software that connects to an app, smart home assistant, or other smart accessory so you can automate your lights or control them remotely, eliminating the need for traditional wall switches.

## 3) Smart parking system

Smart parking solutions detect parking space availability in real-time, helping to optimize on-street parking in cities and in parking garages or surface parking lots such as those in shopping malls, train stations, corporate campuses, and more. More convenience, less circling.

#### 4) Smart waste management system

Smart waste management is characterized by the usage of technology in order to be more efficient when it comes to managing waste. This makes it possible to plan more efficient routes for the trash collectors who empty the bins, but also lowers the chance of any bin being full for over a week.

#### 5) smart irrigation system

The IoT devices used for controlling irrigation processes are also used for analyzing the condition of the soil, including quality, soil nutrients, and PH levels. This helps the farmers to identify which part of the soil needs correction, like cathe or fertilizer.

#### 6) smart agriculture system

Smart farming uses modernised methods and IoT based technology to manipulate and manage the agricultural yields. It includes the usage of Geo locations, GPS tracking, sensors and drones to monitor the fields, crops and cattles.

#### 7) smart retail system

It helps brands track the location, condition & movement of their assets & inventory anytime, anywhere. Retailers get 360-degree visibility by connecting and exchanging data with systems & devices over the internet.

8) problem solved by the system iot system

1. Home safety
2. Health monitoring
3. Fleet tracking
4. Preventing machine failures
5. Pollution reduction