

Vision Smart City



Vision Smart City

Complete integrated VISION for smart cities

Smart Environment

Monitor pollution levels to implement better measures to make the air quality healthier for citizens and also for tourists, obtaining environmentally friendly destination certifications.



Smart Government

Using technology to improve the citizens' interaction and to facilitate and support better planning and decision making



Smart Mobility

Brings people and goods to their destination quickly, safely & sustainably



Smart Lighting

Monitor, intelligently control and remotely control the city lighting equipment's optimizing the energy consumption while providing proper streets lighting



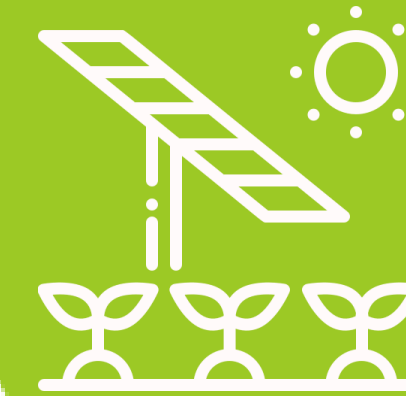
Smart Health

Allow healthcare providers to cure afflictions more effectively, to care for patients more efficiently, and to prevent illnesses



Smart Energy

Focus on powerful, sustainable renewable energy sources while using devices for energy-efficiency



Smart City

Vision Smart City Portal



The screenshot displays the Vision Smart City Portal interface. At the top, there is a navigation menu with the following items: **DESPRE NOI**, **ANUNTURI**, **CERERI SI SESIZARI**, and **HARTA**. The main content area features a map of Chitila with a red location pin. Below the map, there is a search bar and a list of services: **Politica**, **Salveaza Grup Stalpi**, **Suna acum 000.000.00.00**, **Da-ne un email info@iluminatpublic.ro**, and **Unde ne gasiti Str. Smart City, nr. 1**. The footer contains the **VISION SMART CITY** logo, contact information (Str. Doctor Ernest Juvara, 000.000.00.00, info@iluminatpublic.ro, www.smart_lighting.ro), **Linkuri Utile** (Acasa, Noutati, Despre Noi, Protectia datelor, Politica de Cookie), and **Social Media** (Facebook).

Online and interactive platform that collects various information produced in the process of promoting smart city policy in one place.

Vision Smart City Portal

Overview

- Real-time data presentation (including functional parameters of various systems)
- Interaction point with citizens
- Agregates all available smart city data in a coherent view
- Present relevant information regarding city intelligent systems
- Represent on visual maps (GIS) information of interest
- Allow citizens to interact with smart systems
- Allow 3° parties to integrate and automate various services
- Open data layer

The screenshot displays the Vision Smart City Portal interface. At the top, a dark blue navigation bar contains the logo and menu items: DESPRE NOI, ANUNTURI, CERERE SI SESIZARI (highlighted), and HARTA. Below the navigation bar is a decorative header with a network diagram. The main content area features two service cards under the heading 'Iluminat Public Stradal'. The left card is for 'CERERE ILUMINAT' and the right card is for 'SESIZARI'. Each card includes a blue button labeled 'Adauga o cerere' or 'Adauga o sesizare'. At the bottom, a footer contains contact information: a phone icon with 'Suna acum 000.000.00.00', an email icon with 'Da-ne un email info@iluminatpublic.ro', and a location pin icon with 'Unde ne gasiti Str. Smart City, nr. 1'.

Vision Smart City Portal component aggregates in a coherent view all data and interactions provided by intelligent, IoT compatible implemented platforms, enabling citizens with real time dashboards and tools.

The portal was developed in a such way to be compatible and able to integrate with any smart platform providing open data.

Smart Lighting



VISION SMART CITY Administration Pillars List Group List Politics List List Management Announces Approvers List Administrator SmartLighting

Nomenclatoare

#	Nume nomenclator	
1	Tip stalp	
2	Status stalp	
3	Tip carosabil	
4	Tip vegetatie	
5	Tip lampa	

Interval Calendar

#	Nume*	Descriere	Inceput (DD.MM)*	Sfarsit (DD.MM)*	
1	interval	inceput de toamna	01.09	31.10	
2	larna	perioada aferenta	15.10	01.04	
3	Primavara	perioada de prima	02.04	14.10	

Interval Orar

#	Nume*	Descriere	Inceput (hh:mm)*	Sfarsit (hh:mm)*	
1	seara		18:00	22:00	
2	noapte		22:00	03:00	
3	zi		03:00	18:00	

Monitor, intelligently control and remotely control the city lighting equipment's optimizing the energy consumption while providing proper streets lighting.

Vision Smart Lighting Architecture

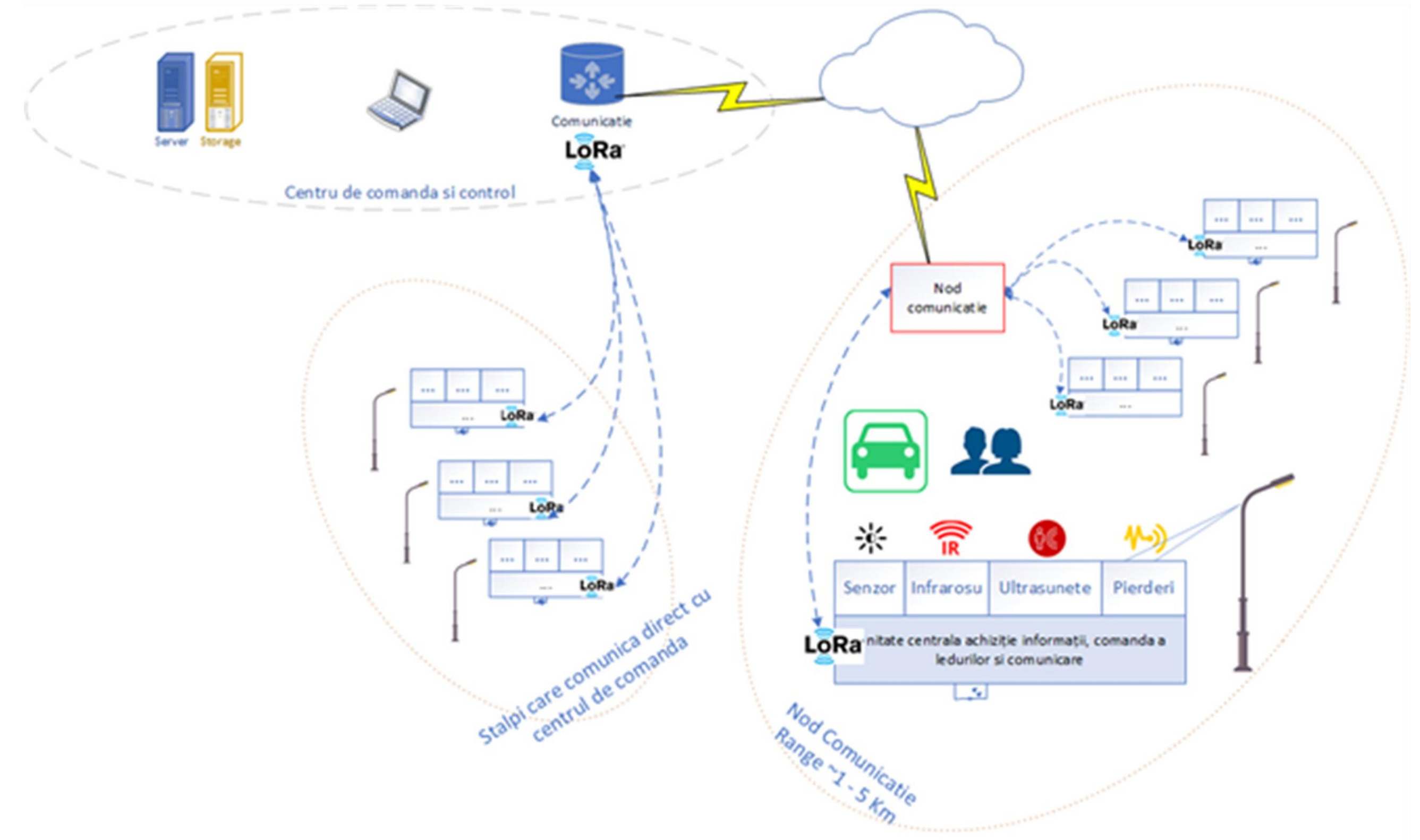
The role of the smart lighting system is to monitor, intelligently control and remotely control the lighting equipment's, based on the processing by complex algorithms of data from different sources as well as the acquisition of feedback information, in an easy way to allow prompt interventions in case of failure, but also to reduce the costs of electricity consumption and lighting maintenance.

Logical Architecture:

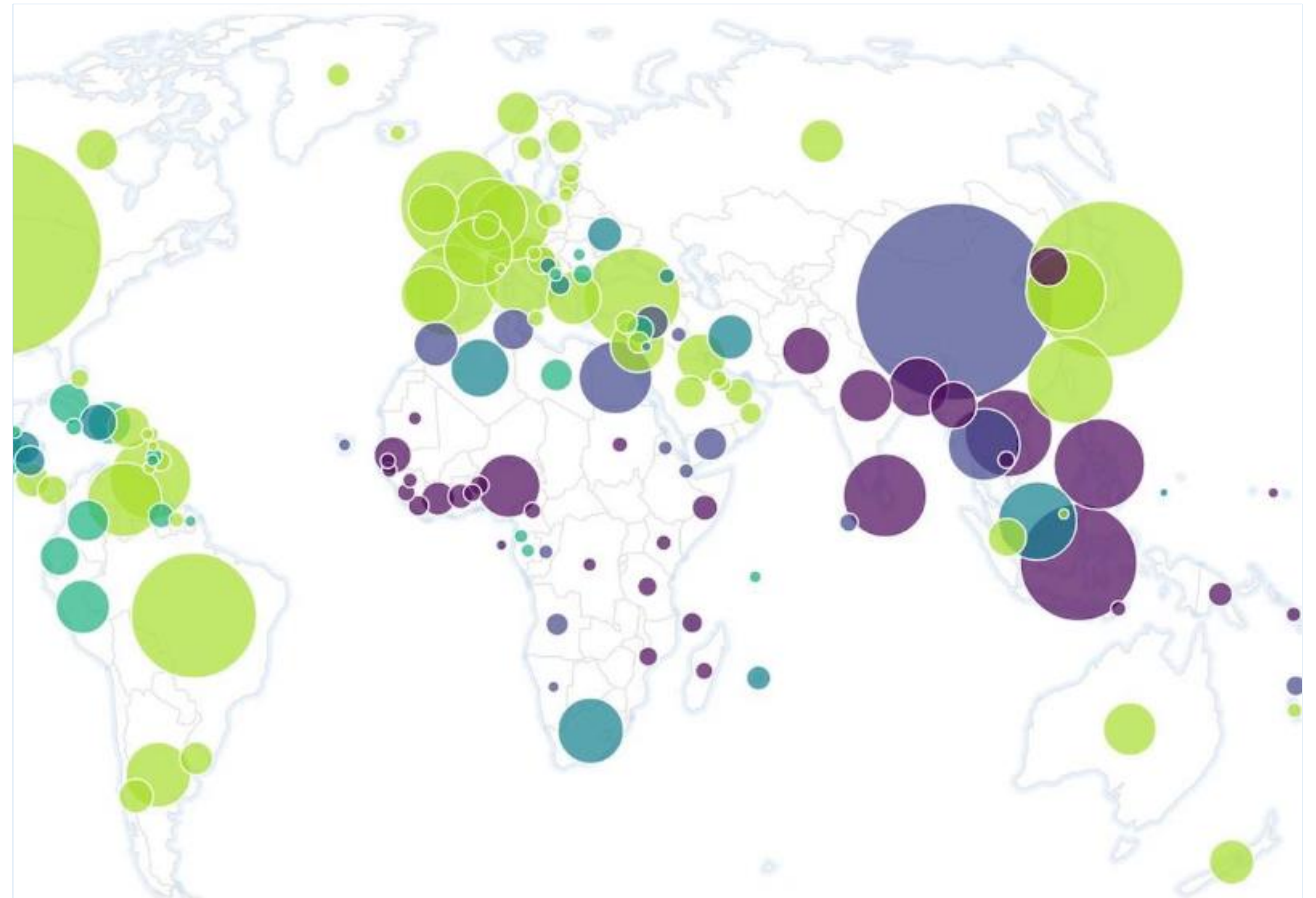
- Communication between all system components is based on cable and \ or LoRaWan and \ or internet \ GSM
- The system is fully controlled from a single command and control center
- If the communication between the various components of the system no longer works due to failures there are fail-over mechanisms that allow the minimum functionality of the system
- The smart lighting system control is executed based on some parameters that result from the processing and approval of the following types of input data:
 - static parameters, entered by the system administrator
 - dynamic parameters, purchased through the feedback module

Physically Architecture:

- Each lighting equipment is independently controlled (on / off, dimming)
- In addition to the lighting unit, the system also allows the installation of modules that capture feedback (infrared barrier, infrared camera, pollution station, light sensors, etc.)
- The lighting fixtures are grouped and managed at a logical level, from the command and control component of the remote management system



Smart Environment



Monitor pollution levels to implement better measures to make the air quality healthier for citizens and also for tourists, obtaining environmentally friendly destination certifications.

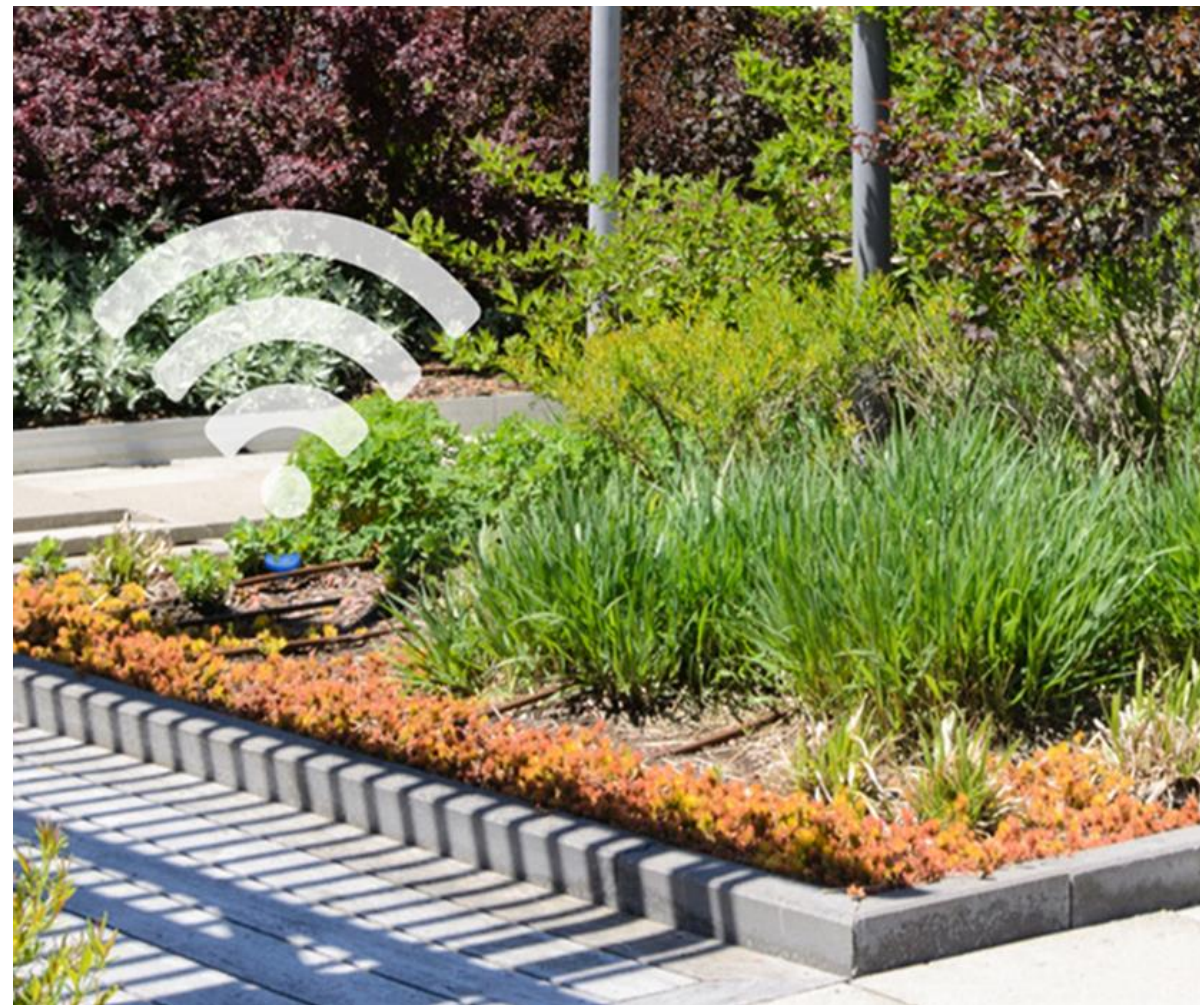
SMART Environment

Overview

The maintenance of parks is very expensive and requires continuous care by public administrations. For this reason, implementing an adequate water, soil and environment monitoring system would save costs and resources.

The goal of this solution is to monitor, measure and manage the conditions and needs of green areas in real time.

Vision Smart Environment is a fully integrated solution that covers different areas: water quality, air quality, soil quality, water flow measurement, irrigation system control and security.



“Vision Smart Environment” is a fully integrated solution that covers different areas:

- Management of functions at organizational level:
- Water quality: Monitoring water not only for irrigation but also for wells will help keep gardens in the best condition.
- Air quality: monitoring air in parks can help to understand how pollutants behave in these areas and also know the air quality that is inspired there.
- Soil quality: indicates how healthy our plants are and whether their environmental conditions are optimal for their growth cycle.
- Water flow measurement: This information indicates the level of consumption and efficiency of the irrigation network and the presence of any leaks in the system.
- Irrigation system control: An intelligent irrigation and control system will help save water through irrigation areas according to their needs and conditions.
- Security: In order to avoid any kind of theft (water, tools, fertilizers ...), the entrances and exits of the garden are monitored.

Technology and Integration



Create complex applications in visual designer, with no code and high flexibility for further changes and customizations with Vision App Maker Platform.



Vision App Maker Suite

Build complex applications in visual designer, without code.

- Easy build new application from scratch
- Integrate existing platforms and legacy systems into unified application
- Digitalize your business workflows through business processes re-engineering
- Enhance Business-Integration Speed & Agility
- Optimize operations with processes prepared for rapid evolution
- Drive innovation by quickly creating innovative digital products and services
- Accelerates Transformation
- Simulate working software much earlier in the cycle enabling project team to iterative prototyping and agile development

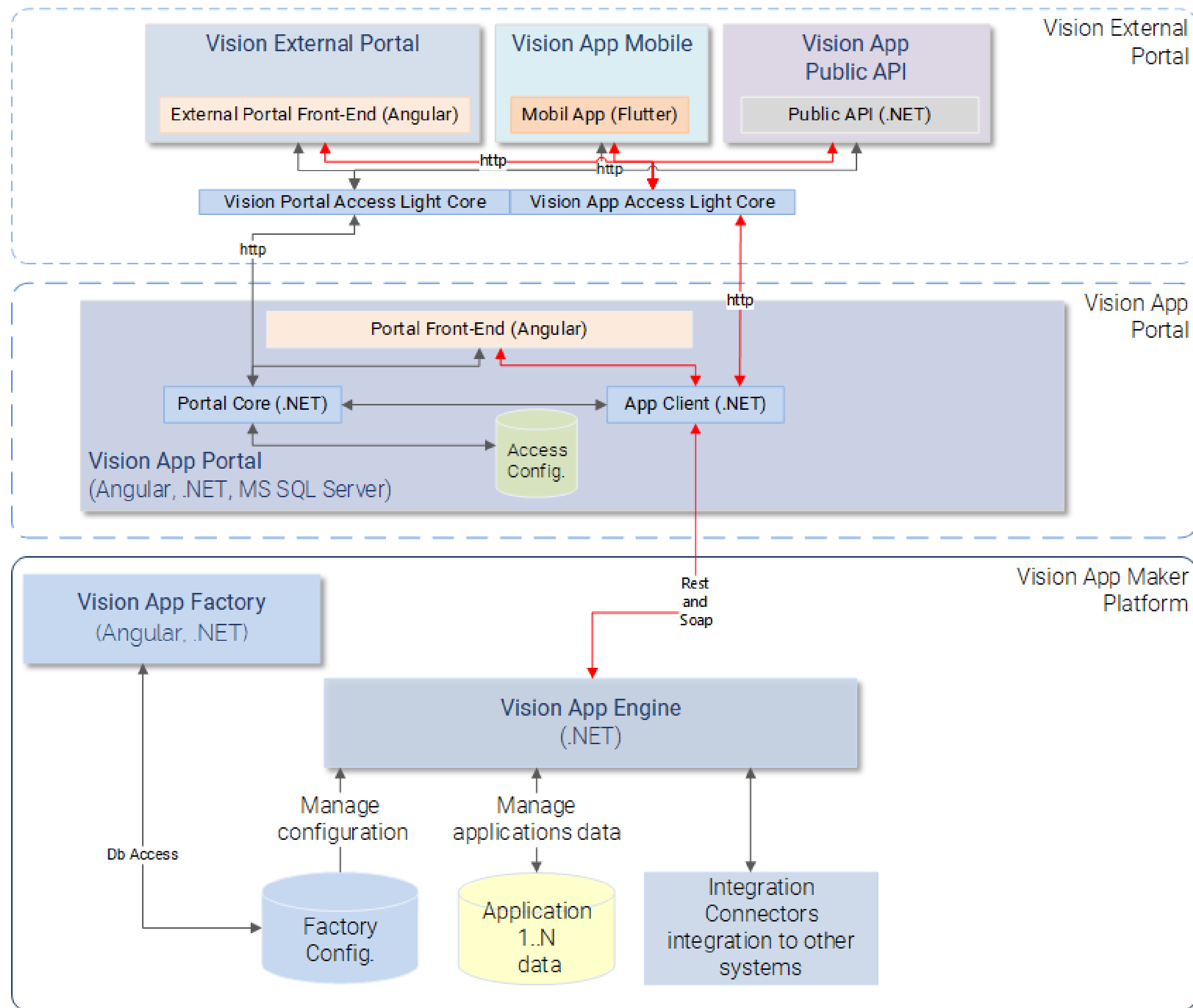
Our customers are successfully rollout their daily operation on applications powered by Vision App Maker:



Vision App Maker is a mature platform with 100+ implementations for various industries: Banking, Insurance, Automotive, Pharma, Services, Government, Distribution, Travel, Field Services.

Vision App Maker Suite

Technology stack



Vision App Maker components were developed with modern and appropriate technologies for each layer purpose: reliable back-end developed in Microsoft .NET, PLC and WSO2 and flexible, responsive and rich front-end based on Java Script, Angular and Flutter.



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