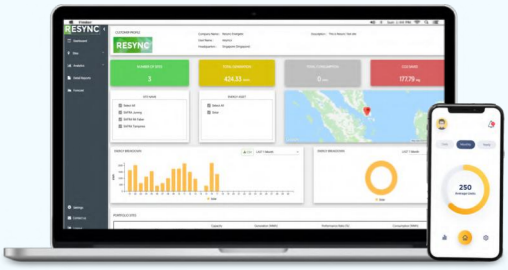
RESYNC

Prasetia

ENERGY CLOUD SOLUTION FOR SMART CITIES

ARTIFICIAL INTELLIGENCE AND DATA ANALYTICS DRIVEN IoT PLATFORM



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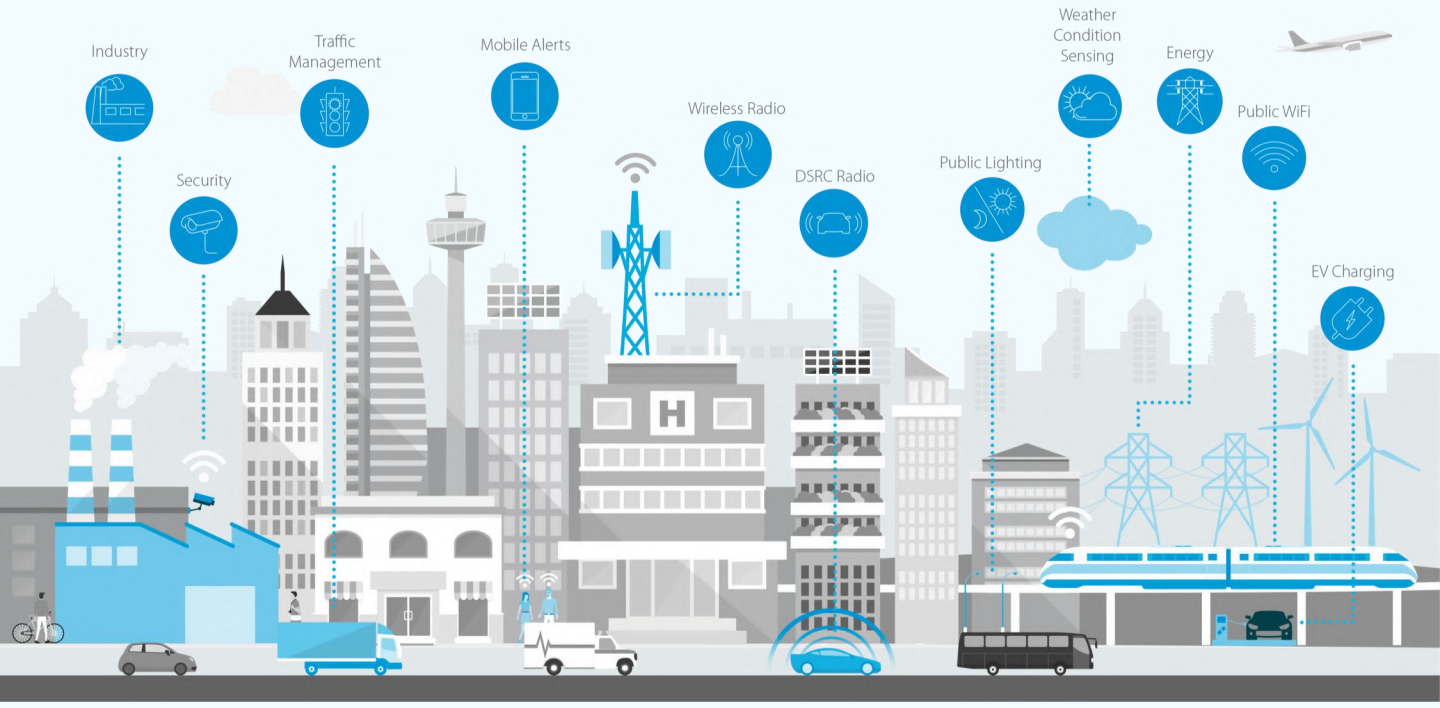
SMART CITIES AND IoT REVOLUTION



Smart city is an urban area that uses different types of electronic Internet of Things (IoT) sensors to collect data and then use insights gained from that data to manage assets, resources and services efficiently. This includes data collected from devices, and assets that is processed and analyzed to monitor and manage power plants, utilities, water supply networks, waste management, traffic and transportation systems, information systems, schools, libraries, hospitals, and other community services.

Companies across all sectors are turning to smart IoT platforms as a means to reduce their operating costs. Specific requirements and practices differ by sector, but the core principles apply to all companies. It involves the following steps:

1. Collecting and analysing digital data
2. Identifying opportunities for savings
3. Taking real time optimization actions
4. Tracking the progress and ongoing performance

At Resync, we ensure smooth integration and analytics of various IoT devices without compromising on system reliability.

Security & Public Services


Camera


Drone


Traffic flow & parking

Smart Energy


EV charger


Solar panel

Environment Sensing


Temp.


Humility

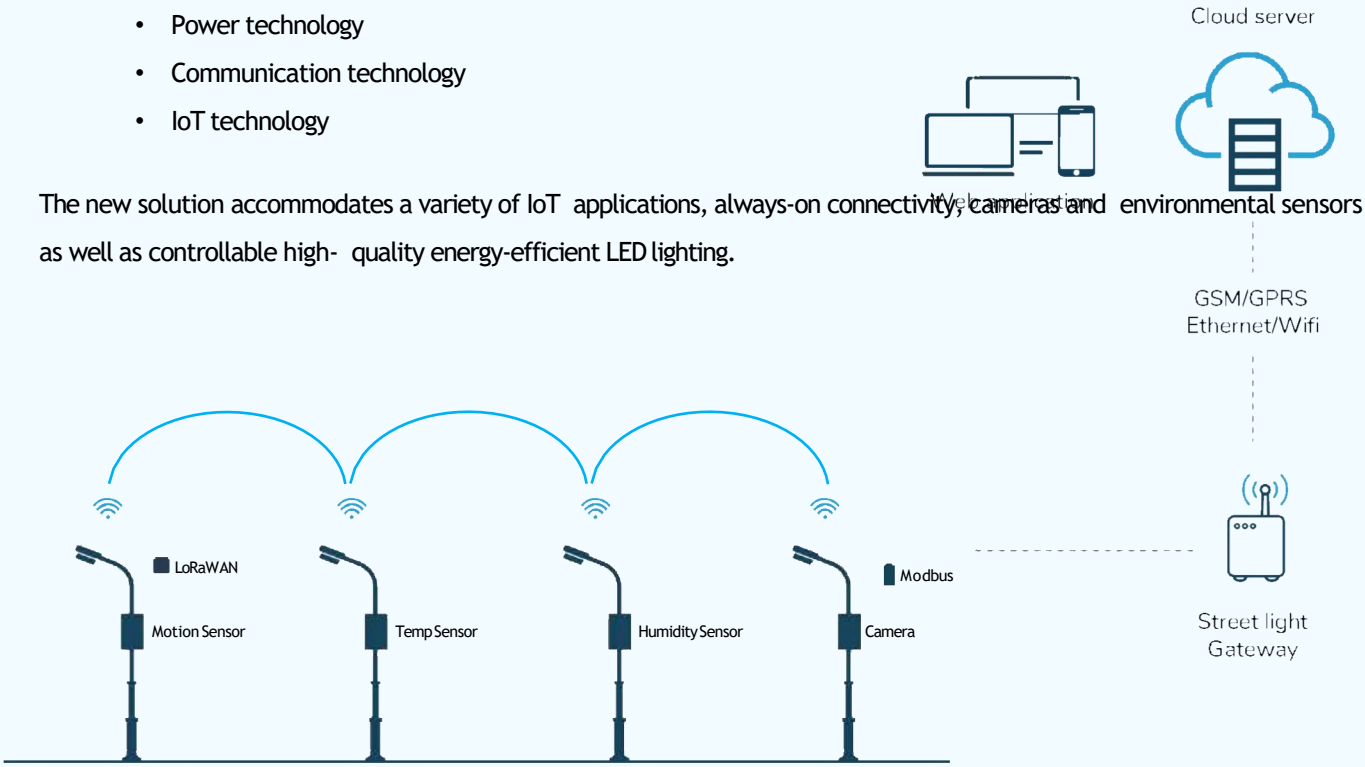

Air quality

SMART POLES ARE CHANGING THE LANDSCAPE OF CITIES

The landscape in cities is changing rapidly. A smart pole technology is slowly being introduced to our cities to be used for communication purposes. In the not-to-distant future, 90% of the equipment loaded on or in these smart poles will be communication related. The remaining 10% might be used by the lighting. The communication requirements for a smart pole will cover someof the following elements:

- Security technology
- Networking technology
- Power technology
- Communication technology
- IoT technology

The new solution accommodates a variety of IoT applications, always-on connectivity, cameras and environmental sensors as well as controllable high- quality energy-efficient LED lighting.



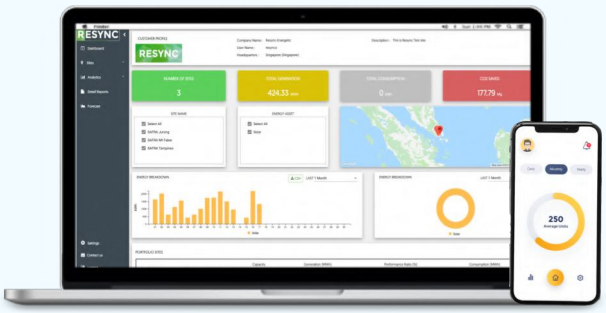
END TO END SOLUTION AND TECHNICAL OVERVIEW

HARDWARE

- RESYNC Master Gateway IPC
- Modbus RS-485, TCP/IP, RS-232, LoRaWAN
- 4 x USB 3.0, 2 x USB 2.0, 2 x HDMI
- Fanless metal cover design
- Dimensions: 187 x 111 x 50mm Weight: 1.1kg
- Intel Core Broadwell SOC Processor Default i5 5200U Dual Core Processor, 2.2GHz 3M Cache, Up To 2.7GHz

- Lamp Power 40 W
- Solar Panel Mono 100W 18V, 25 years lifetime
- Lithium Battery LiFePO4 battery, 424 Wh, 12.8V;
- 5 years lifetime, ≥2000 charge & discharge cycles
- LED quantity and Luminous flux 60 pcs; 5000-5600 lumens
- Lux level (5m high, centre) 72lx
- Charging time (full sunlight) 7 hrs
- Colour temperature and CRI 3000-6500K; ≥70Ra
- Light control and distribution 5V; Bat wing with polarized light
- Lighting time (autonomy days) 3 days

SOFTWARE



- Allows user to communicate with street lights
- Fault Alarms/Alerts -
- Allows user to trace switching points through google maps.
- Generates various reports like energy consumed and uptime.
- Remote configuration through web application
- Resync provides comprehensive dashboard with real time status
- Resync software offers SMS and Email alerts for various faults