# Industry 4.0: Products and Services at Ademtek

Industry 4.0 is the digital transformation of manufacturing/production and related industries and value creation processes.
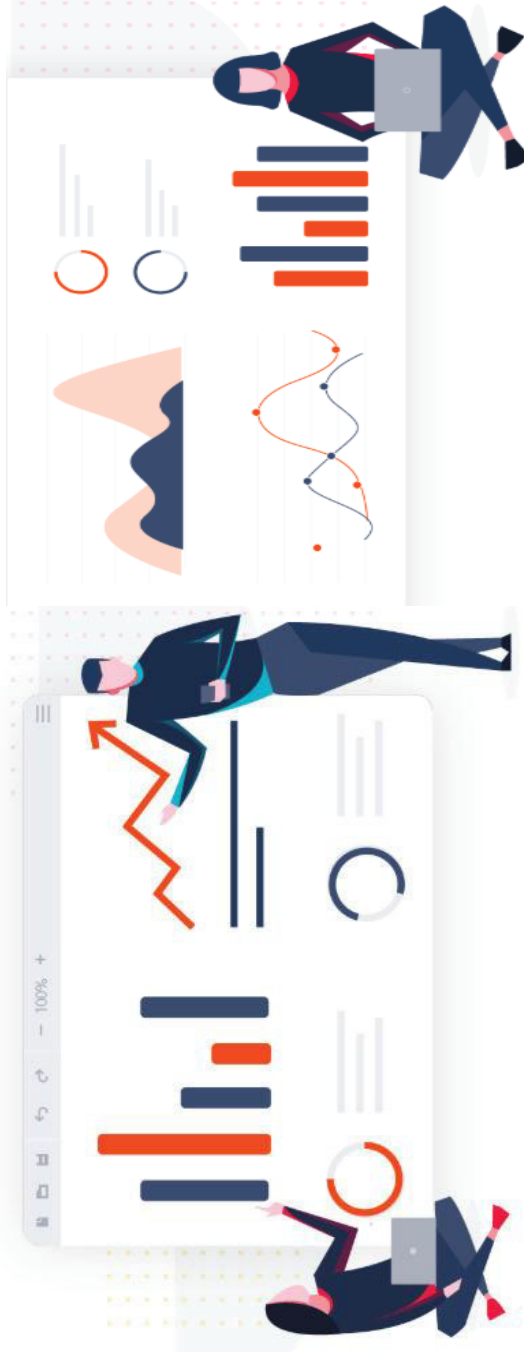


**Ademtek Industry 4.0** Solutions to include Industrial Internet of Things (IIoT), industrial network & cloud solutions . All solutions leverage IoT gateways to stream field data to cloud services powered by world-renowned cloud services such as Microsoft Azure, IBM Bluemix and InfluxDB, iSAP etc.

The integrated cloud-enabled services such as remote management, big data analytics, machine learning, and business intelligence can provide benefits such as remote monitoring to enable exception management and advanced process control.

# Connected Environment Solutions and Services

**Ademtek** provides a suite of IoT and AI technologies for Environment Monitoring, dashboard reports, and analytical tools needed to efficiently collect, analyze and report metric data.

## Capture the metrics you need to monitor performance and make Strategic decisions

**Ademtek** provides IoT solutions that capture data metrics and transform them into useful reports organizations need to achieve their strategic objectives.

Each Solution from **Ademtek** is configurable and tailored to meet your specific data collection, reporting, and metric needs.

**Applications:-** IT Server Rooms,    - Data Centre,    - Cold Storage,    - Food Processing,    - Pharmaceuticals,    Bio-restorative,    - Logistics, Warehouses, - Energy generation and distribution

**Case Study: SERVER ROOM GAURD**

Servers are vulnerable to ambient temperature fluctuations, excessively high or low humidity, and power outages. Server rooms therefore require constant monitoring.

Monitoring environmental factors like temperature, power, airflow, and humidity and Monitoring safety Parameters Fire safety, Water leakage, Rodent, UPS Power, Heavy Duty AC Power Change over Switch and Door lock are important for keeping servers available. Server Room guard provides all the sensors data to protect your server room.

## Features of Server Room Guard

- Real time Environment and Safety Parameters monitoring

- Logs all statuses and raises alerts to Mobiles, email, whatsapp when thresholds are breached

- Web access dash board to monitor status

- Complete overview via dashboards and maps

- User configurable alerting dash board

- Your server room at a glance – even on the go

- Predictive maintenances

- Reducing downtime and Reducing maintenance cost

# AFB-1040

## IoT Gateway Modbus/MQTT

AFB-1040
IoT - GATEWAY

Ademtek

Fieldbus IoT Gateway – Modbus/MQTT

○ Rx
○ Tx
○ Error
○ Network

IP:

RS-485    D- D+ Sh

RL-Y    N O

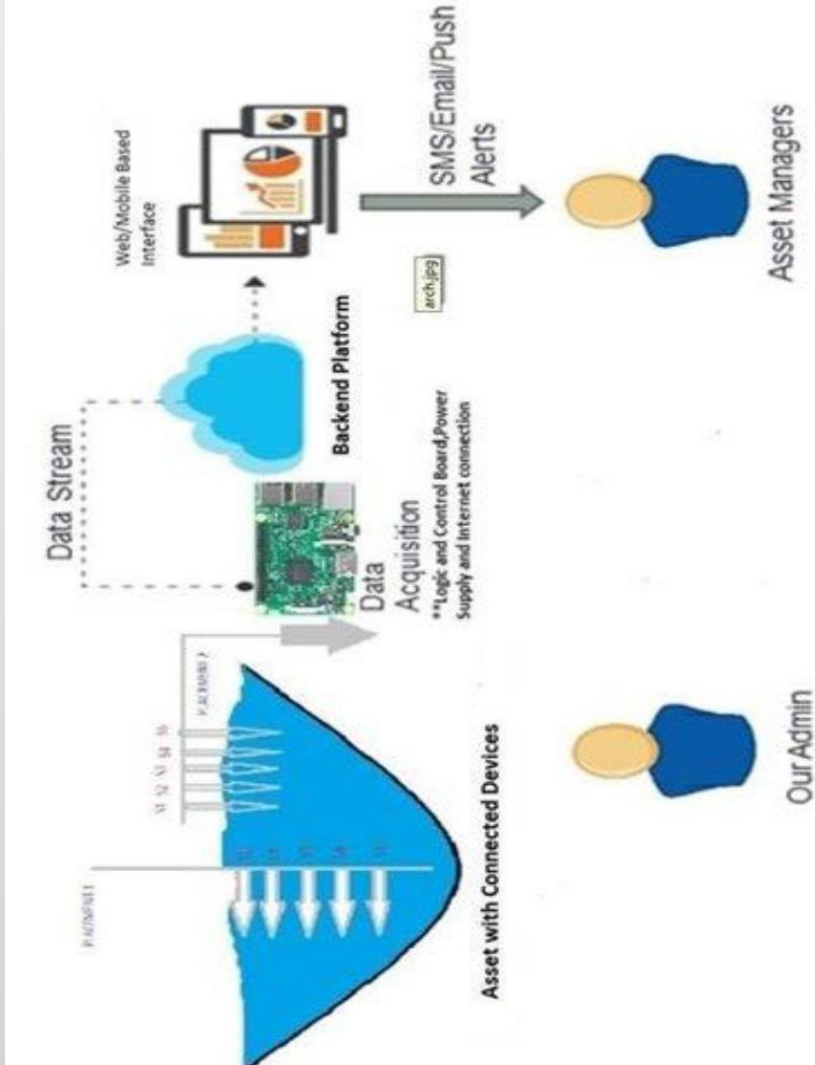RS232    N O

Rx Tx GN

ETH

PWR

# Features

- Modbus RTU/TCP Master PROTOCOL
- Interface Ethernet 10/100 Base-T/WiFi/2G/4G,
- RJ45 Connector
- Configuration via integrated web server
- Serial interface RS-485
- Modbus RTU Master
- Baud rate up to 115.2 Kbps
- Distance up to 1200 meters
- Up to 32 modules connected in multipoint
- Connection by removable screw-terminals
- LED signaling for Link/Act Ethernet, power supply
- Full Electrical Line isolation

Reach us : sales@ademtek.com. www.ademtek.com,
Ph: 91 40 29556564, Mob: 91 76748222405

# IoT AQUA POND MONITOR



IoT Aqua Pond monitor provides an integrated approach to aqua farming. It collects pond DO, pH, Ambient and Water Temperature and power status, security status to cloud through GSM/GPRS network.

Hosted cloud platform comprising Web and mobile based monitoring capabilities, SMS and email based alert capabilities. Historical and predictive analytics to assist decision making for pond owners
Our Pond Monitoring System can work Solar Power/Power.

**Ademtek**

# Emergency Response System

Emergency Response System is a wearable device which is in the form of a wristwatch. The main aim of the device is to capture the Emergency and issue an automatic alert.
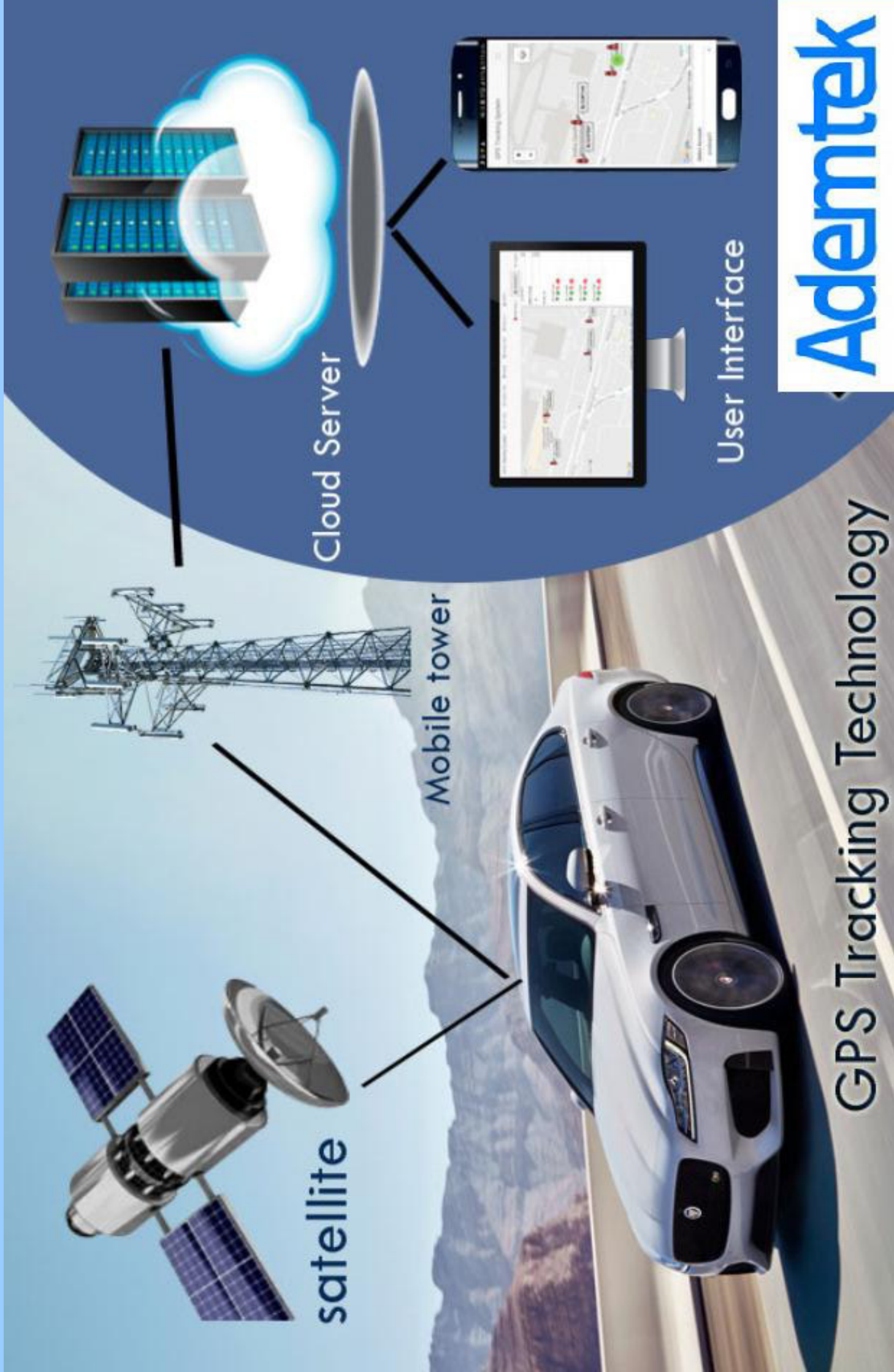


## Health Features.

1. Heart rate

2. Blood Pressure

3. Oxygen Saturation

4. Body Temperature

5. Step count



## Communication and Safety Features.

1. Receiving SMS and alerts

2. Making Emergency Call through SOS Button

3. Fall Detection

Vehicle Tracking System (VTS)

Cloud Server

User Interface

Mobile tower

satellite

GPS Tracking Technology

Ademtek

# Features of the (VTS)

## REAL-TIME GPS TRACKING

1. Real Time / Live Tracking
2. Speed Monitoring
3. SMS and email alerts
4. Halt Report
5. Geo Fencing in/out
6. Route Deviation
7. Graphical report
8. Battery Reports

## DRIVER BEHAVIOR COACHING

1. Real-time in-vehicle driver coach-ing
2. In-vehicle alerts for idling, speed-ing, harsh braking, sharp turning, and fast acceleration

Note1: These features are for OBD2 port vehicles only

## ADVANCED VEHICLE DIAGNOSTICS

1. Vehicle maintenance reminders (time, distance, or engine data)
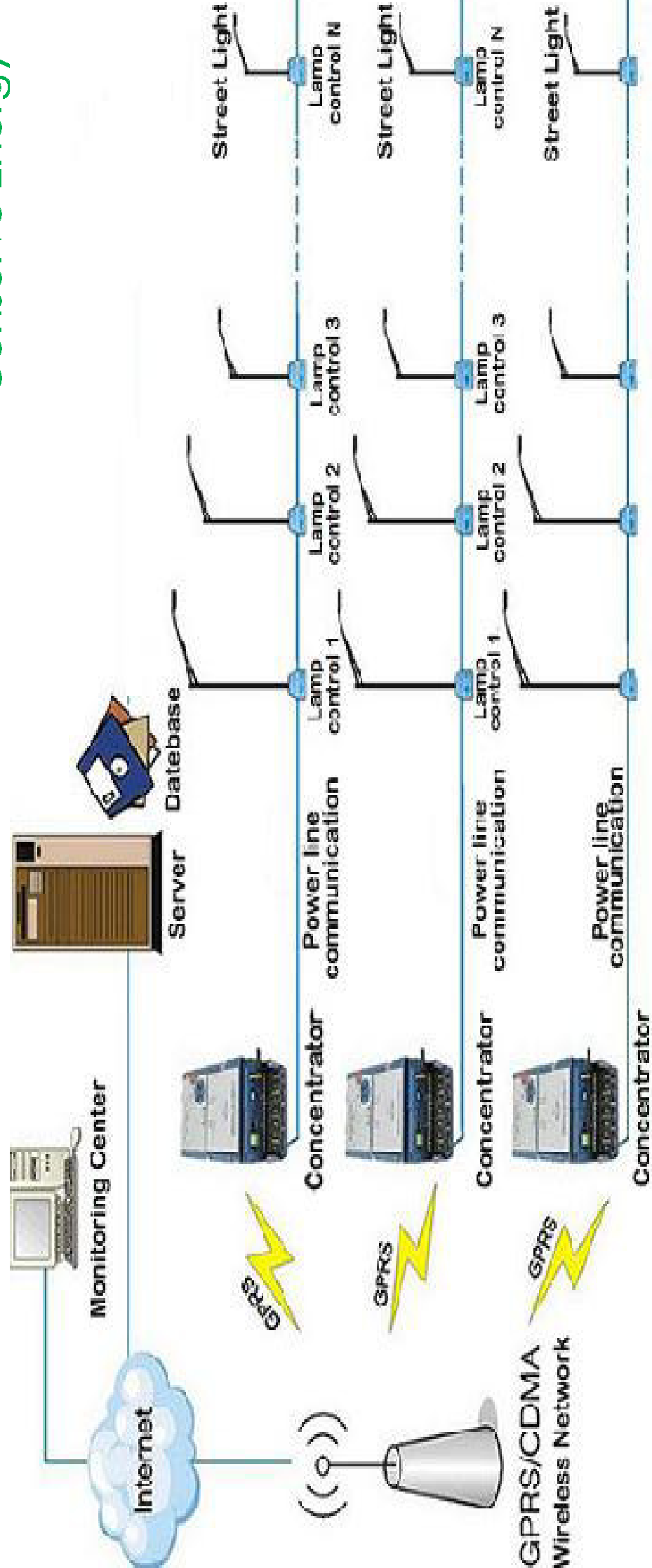2. Fuel consumption
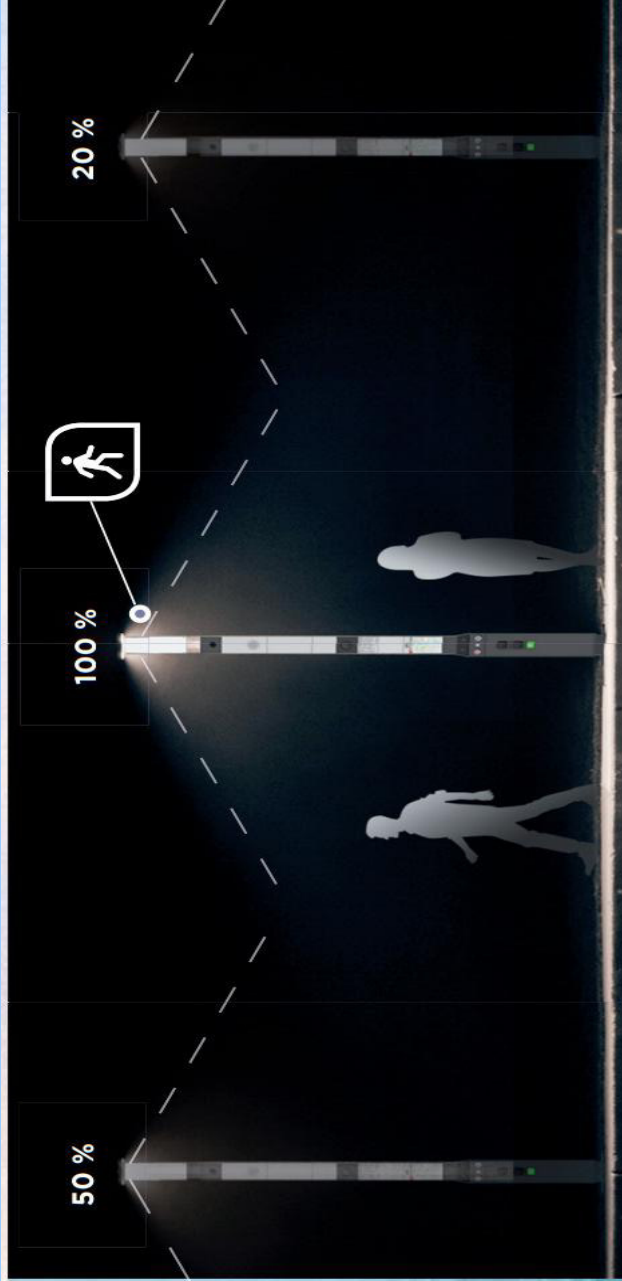3. Fault data reporting   Note2: These features are for OBD2 port vehicles only

# Smart Street Lighting Systems

**Pillars of Energy Management**

**Measure, then manage,**

**Take control: turn it down/ turn it off**

**Maintain persistence of savings**

Conserve Energy

**CCMS-Centralised Control & Monitoring System**

# Ademtek

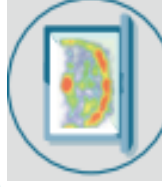# Smart City Street Lighting Systems

## True Light-on-demand

## Lower CO2 emissions & light pollution

## Smart Heatmaps

50 %

100 %

20 %

- Air Quality
- Parking assistance
- License plate reading
- Wind Speed
- Temperature Readings
- People Counting
- Crowd Noise,
- Population Density

Bluetooth

Wifi

3G/GPRS

WWW