# Addressing strategic segments

## Joint-approach for Complex use-cases

# Strategic segments

**WHO:**
- **Global Agencies**
- **Governments**
- **Critical infrastructure**
- Military
- Police and Rescue
- Energetics, Transportation, Telco

**WHAT:**
- **High reliability**
- **Full control**
- **Offline ability**
- **Redundancy and scalability**
- ......first let's explore what options are on the market today....

# Cloud-based solutions

## Wireless coverage concept comparison

**General Wireless and LP Wireless network concept**

- Access point/BTS
- Covering large area but not underground or deep indoors
- Devices in range connect to access point or gateway
- Inteligence of technology sits on cloud/online

- If problem occurs ANYWHERE between Base station and cloud (server issue, internet issue, network issue, hacker attack on server or provider) all running solutions/products drop off

- Only fraction of issues can be influenced by IoT technology provider (no access to ISP, BTS etc.)

Single km's coverage

Base station

# Solutions with local autonomy

## Wireless coverage concept comparison

IQRF® technology with LoRaWAN™

- Central point is gateway
- Any new device in IQMESH forms new connection point
- Every new device makes the network stronger
- Inteligence of technology sits on IQRF modules and gateway. Cloud is only for remote management or data collection etc.

- If problem occurs with cloud or ISP service local management and solution functionalities are maintained (except remote management and cloud based non-critical functions)
- If gateway has issue, backup gateway can take over functionality automatically. Main GW is replaced NBD.
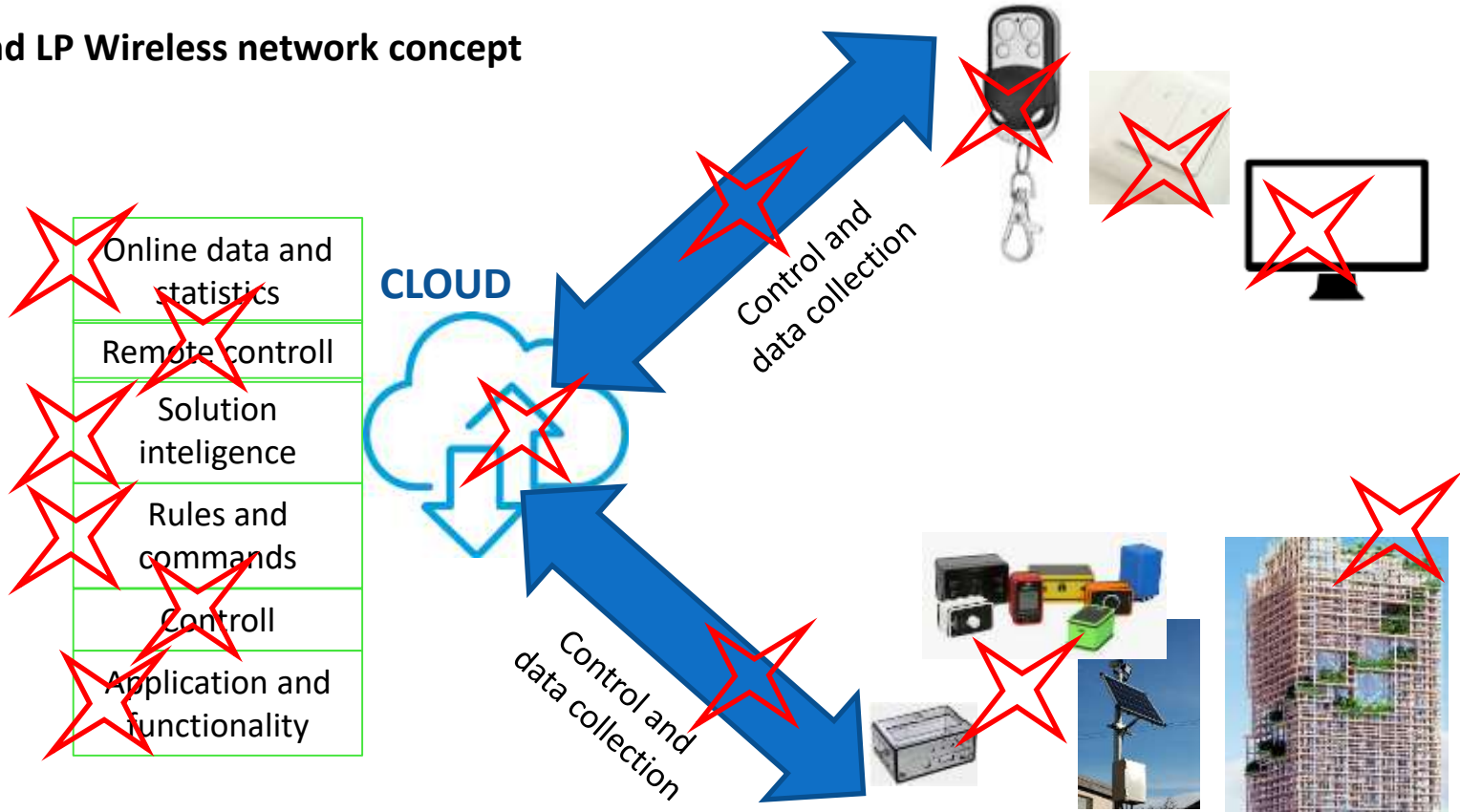
Via LoRaWAN™

500m's coverage

Gateway

IQRF-LoRa

# Cloud-based solutions

## Overall architecture and functionalities

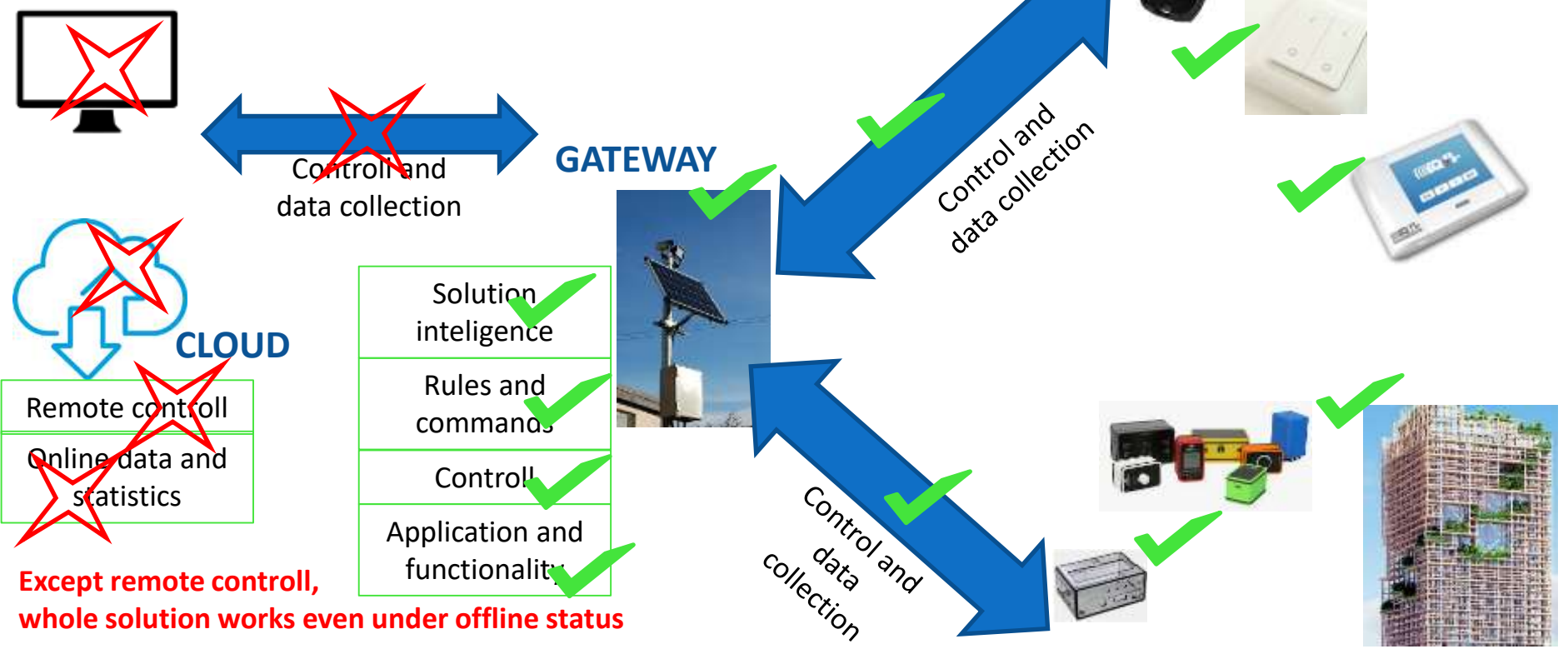**General Wireless and LP Wireless network concept**

**In cases of any online service drop, all features are down. Dangerous for critical and important applications (like elevators, doors, locks, heatings, security etc..**

| |
|---|
| Online data and statistics |
| Remote controll |
| Solution inteligence |
| Rules and commands |
| Controll |
| Application and functionality |

**CLOUD**

Control and data collection

Control and data collection

# Solutions with local autonomy

## Overall architecture and functionalities

IQRF® technology with LoRaWAN™

**GATEWAY**

Controll and data collection

**CLOUD**

Remote controll

Online data and statistics

Solution inteligence

Rules and commands

Controll

Application and functionality

Control and data collection

Control and data collection

**Except remote controll, whole solution works even under offline status**

# Strategic segments

**a reliable, stable and secure solutions, built on solid technologies**

- Each technology brings it's unique value
- Each value extends possible scope of applicability
- **By combining IQRF® and LoRaWAN™ technologies we benefit from**

- **Low Power (grid independence)**
- **Long Range (LoRaWAN™)**
- **and autonomous inteligent 240hops Wireless mesh network**

- **Concluding above, if adressing large corporate, government or global and much more segments, there is not a single technology that can cover everything.**

- **Thus we need to embrace COOPERATION and INTEROPERABILITY.**
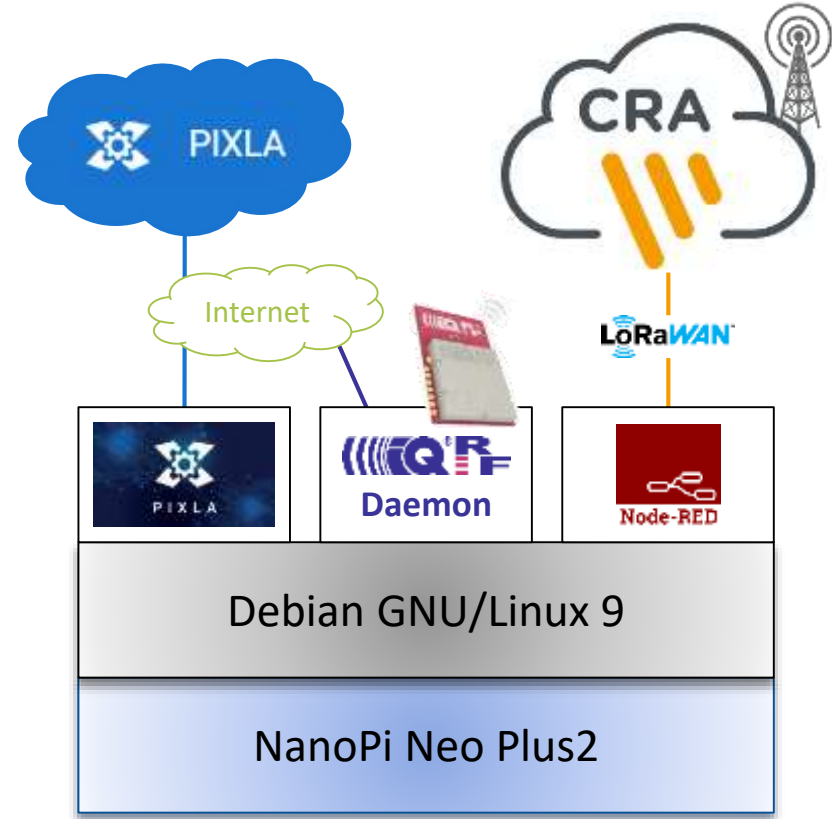
# We are cooperating already



AURORAHUB



PIXLA
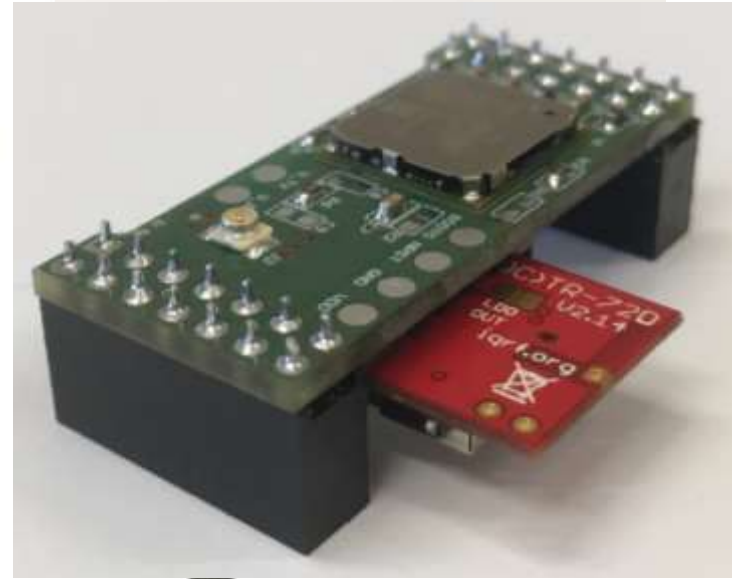


Two major technologies working together
The excellent wireless concepts

# The IoT Technology Fusion

**Imagine the possibilities!**

# Show time!