

Smart City IoT, Omnipresent City Sensing Network



Challenges to Smart City IoT

Existing wireless IoT networks may not suitable for complex scenarios in urban areas





NB-IoT versus eLTE-IoT: LPWA Technology Fit for Smart City





Agile Gateway: Diverse Access Scenarios





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Huawei Smart Elevator Solution - Predicts Faults and Improves Safety



Huawei Smart Streetlight Solution - Multi-level Control



80% ↓ Energy Consumption Opera

90% ↓ Operation & Maintenance ≈100%
Controllable Lighting Rate



Huawei Smart Building Solution on Open IoT Architecture



Solution Highlights

Multi-level Control

The two-level building control based on cloud + local IoT gateways enables reliable management in real time.

Unified Access

Huawei IoT gateways support more than 17 IoT interfaces to interconnect various facilities in various building scenarios.

Open ArchitectUre

The Tridium-based Niagara open platform supports the quick rollout of various customized industrial applications.



Huawei Smart Parking Solution



Huawei Smart Waste Management Solution

Challenges



The schedule and range of waste collection are not well grounded or planned.



- \checkmark Plan the optimal collection route
- ✓ Heat map analysis





Large carts collect small bags, resulting in improper usage of resources.



It is unknown whether the bin is full, leading to collection delays.

ΙοΤ Platform ✓ Asset and data platform

Solutions

management on the IoT

-50% Labor costs

NB-IoT



✓ Status report via the NB-IoT network



- ✓ Real-time bin status monitoring
- Bin status prediction and report



+35% **Operational efficiency**



Huawei Smart Water Management Solution



Huawei Smart Fire Protection Solution





Case Study: Smart City IoT Solution Framework for Weifang, China



Smart City IoT - Improves Quality of Life

Attracts Tourism

Enhances Business Opportunities



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Leisure, happy riding



Improves Quality of Life



THANK YOU

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