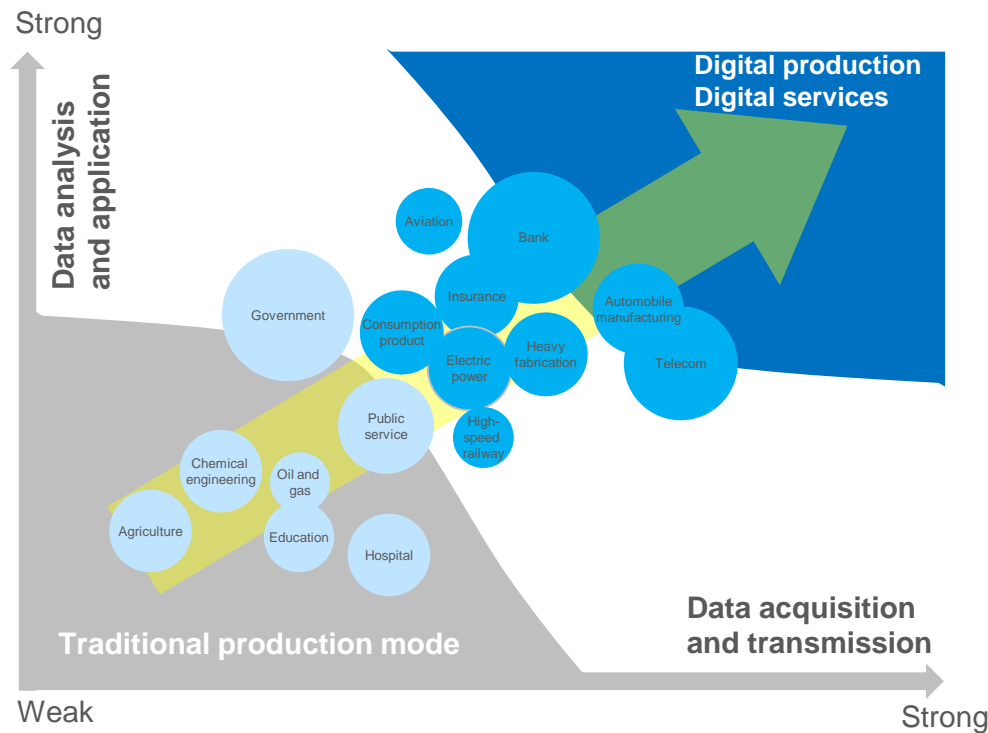




Huawei IoT Platform Helps Build Fully Connected Smart Cities



Industry Digitalization Is an Inevitable Trend, Full Connection Is the Foundation for a Smart Society



The next decade:

- All industries are being **digitalized**.
- Traditional services will be **reshaped by digitization**.
- The ICT shifts its role from a support system to a production system. **Digital production** becomes mainstream.

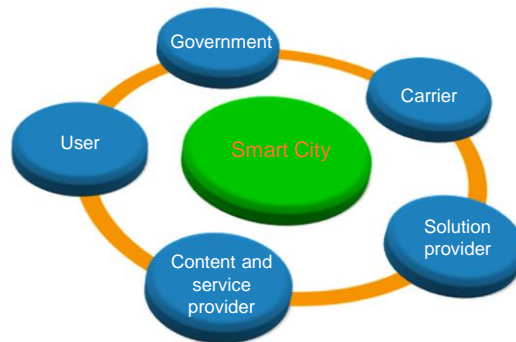
Two Trends of Smart Cities Against the New ICT Background

Trend 1: technology



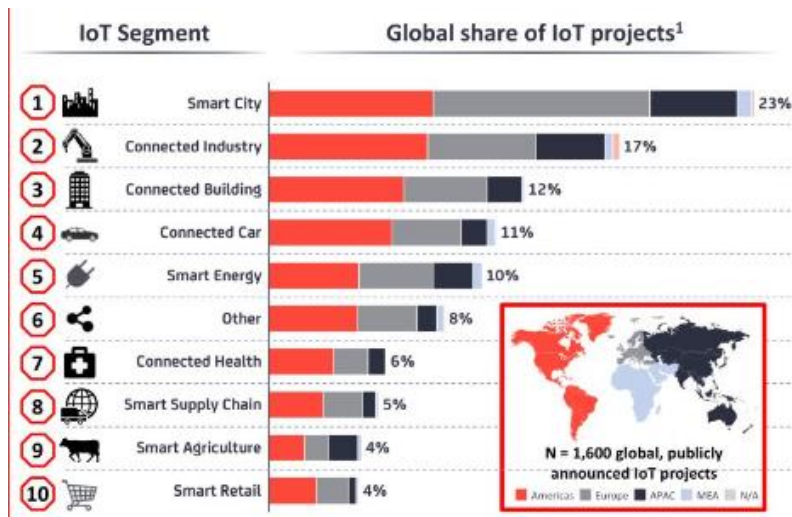
Rapid emergence and wide application of basic platform technologies

Trend 2: industry

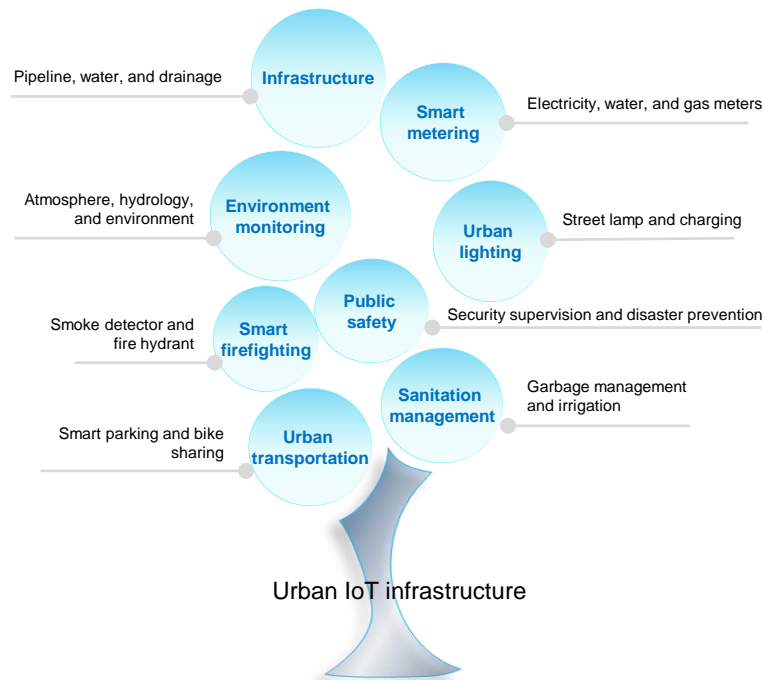


Evolution from a simple industry ecosystem to a complex one

IoT Is Rapidly Changing the Development of Smart Cities

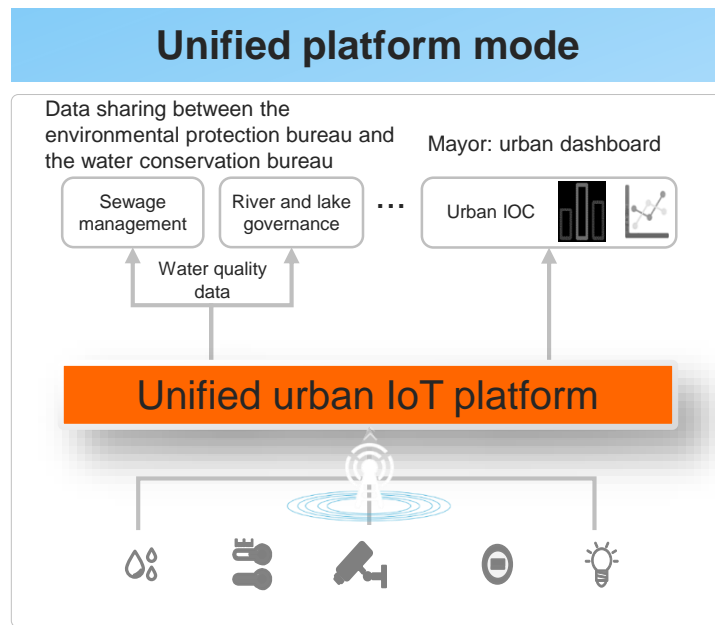
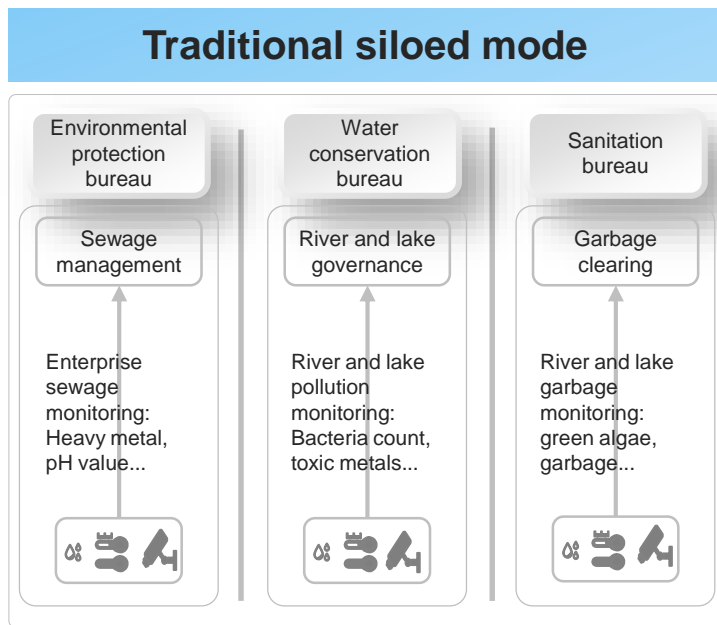


Source: IoT analytics 2018

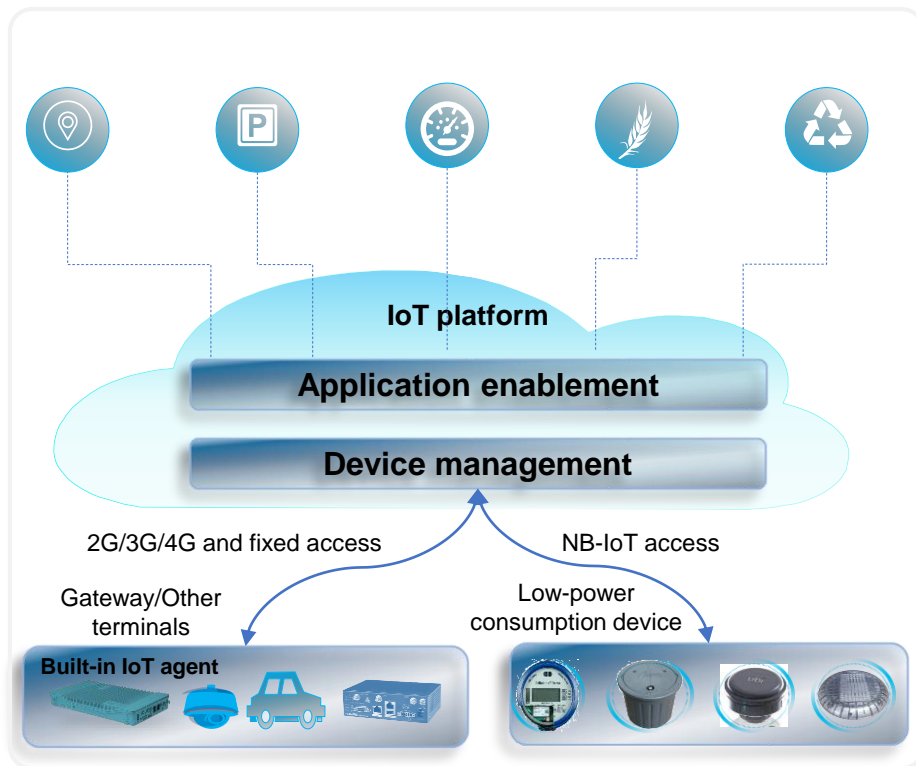


The new wireless network access technology has become a new feature of Smart Cities. The LPWA technology has been used in more than **70%** projects.

The IoT Platform Has Become a Necessary ICT Infrastructure for Smart Cities



Positioning and Functions of Huawei IoT Platform in Smart City Construction




Simplifies development of IoT applications
Incubates and enables the urban IoT ecosystem

Aggregates real-time urban IoT data
Provides the comprehensive urban management system with decision-making support in real time

Provides unified access standards for IoT applications and devices
Prevents IoT applications from being fragmented

In-Depth Network Convergence Ensures Large-Scale Commercial Use of NB-IoT Services



Massive device access

Free-of-heartbeat terminal addressing mechanism, reducing the application system overhead and terminal power consumption, and ensuring 100 million reliable connections

Quasi-real-time bidirectional communications

Downlink command caching and interwork with the EPC to determine whether terminals go online and deliver the commands in a timely manner, improving service response timeliness

System stability during high concurrency

Network-wide traffic control across applications and message scheduling based on network conditions, ensuring the stable running of the IoT application system

Transmission encryption featuring power saving

Optimized lightweight DTLS encryption mode, saving the encrypted battery power by 50% in the same security level

Codeless Device Model Adaptation Shortens Device Integration Duration from Weeks to Minutes



The screenshot displays the OceanConnect developer portal. The left sidebar contains navigation links: 基本信息 (Basic Information), 我的设备 (My Devices), Profile开发 (Profile Development), 产品 (Products), 服务模板 (Service Templates), 导入 Profile (Import Profile), 插件开发 (Plugin Development), 插件管理 (Plugin Management), 编解码插件管理 (Codec Plugin Management), 模拟器 (Simulator), and 开发指南 (Development Guide). The main content area is titled '总览/开发指导' (Overview/Development Guide) and '集成开发NB-IoT类设备指导' (Integration Development Guide for NB-IoT Class Devices). It features a two-step process diagram: 01 准备 (Preparation) and 02 Profile 开发 (Profile Development), with a hand cursor pointing to step 02. Below the diagram, text instructs users to perform preparatory work before starting, download development documents, and provides links to developer guides and codec libraries.

集成开发NB-IoT类设备指导

01 准备

02 Profile 开发

- **Complex device-platform integration**
 - Java project creation
 - Debug and plug-in loading
- **Graphical developer portal**
 - Wizard device profile customization
 - Graphical code stream adaptation and development
 - Automatic plug-in generation and loading

开始您的旅程之前您需要做以下工作：

下载相关的开发文档，快速熟悉和启动开发

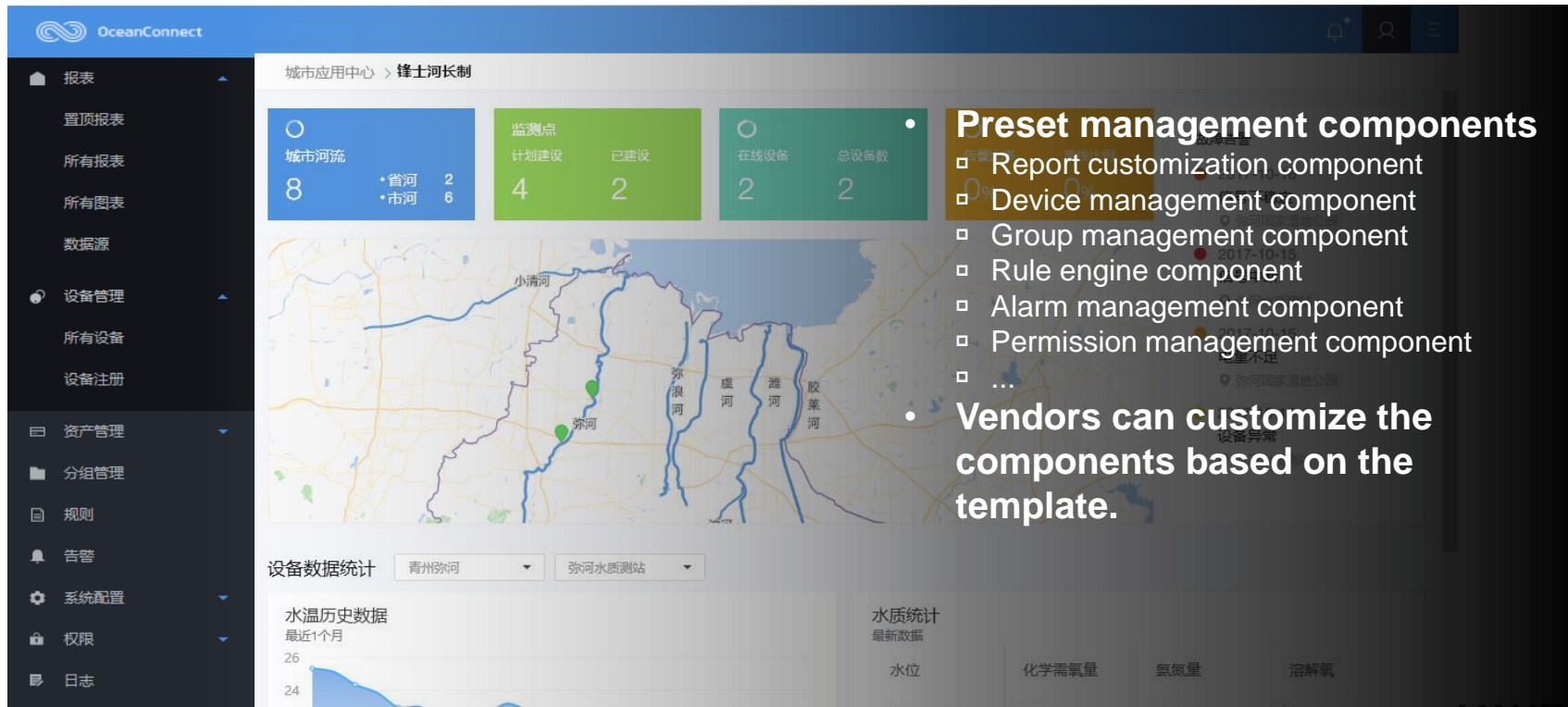
根据您制定的设备集成方案，到[开发者社区](#)下载开发5件套（开发者指南、API文档、样例程序、工具和帮助视频）及开发过程中需

a. [华为IoT_设备能力描述文件profile开发指南](#)

b. [华为IoT平台编解码库开发指南](#)

[开发指南 >>](#)

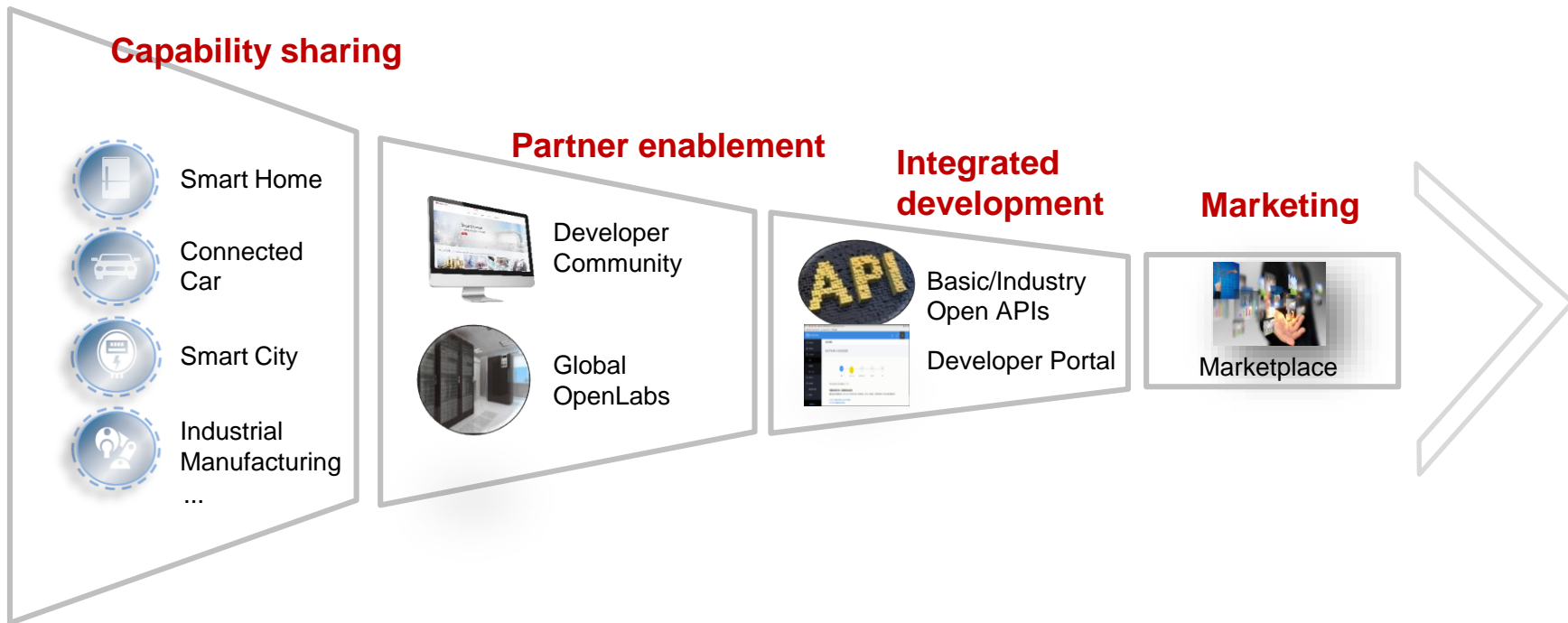
Flexible Dashboard Improves Urban IoT Management Efficiency



Aggregating Real-Time Urban IoT Data to Provide Decision-Making Support for Comprehensive Urban Management



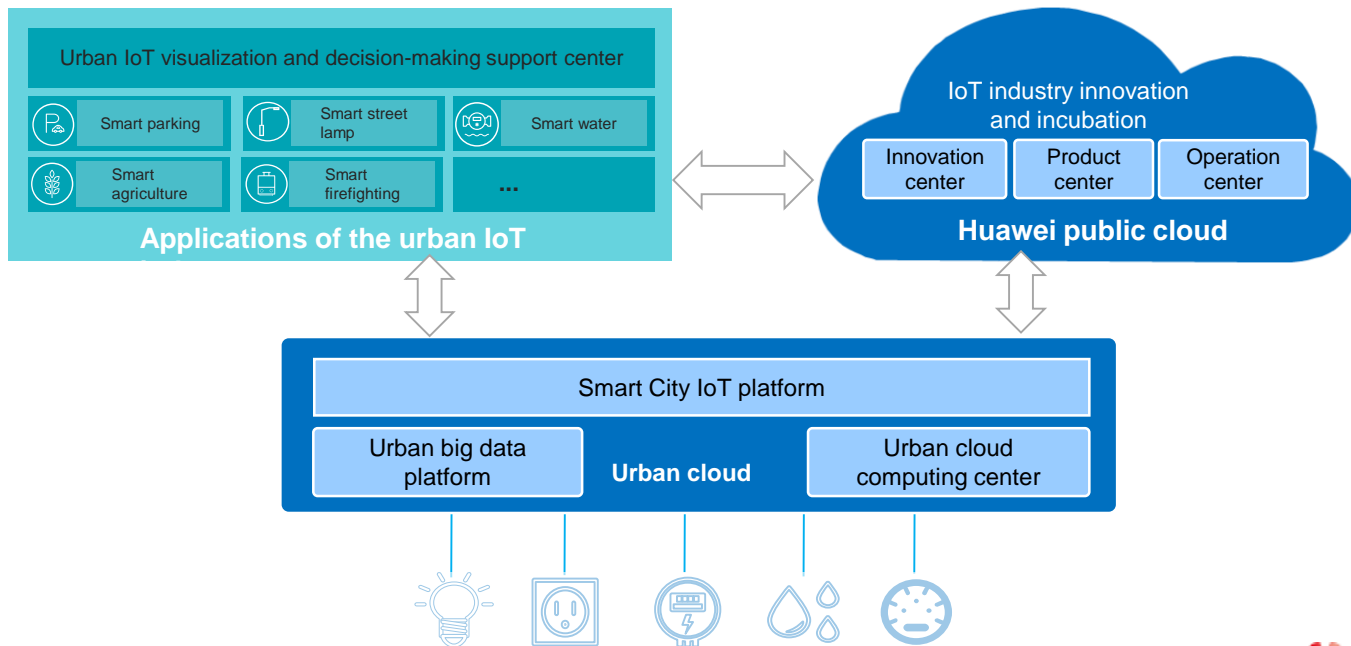
Huawei Provides Comprehensive Support for Building the Urban IoT Ecosystem




Building an Urban IoT Service Base and Cooperating with Partners to Support Long-Term Operation of Smart Cities

Provides high-quality convenience services and improves urban management efficiency.

Supports the innovation and incubation of the urban IoT industry.





愿景和使命

把数字世界带入每个人、每个家庭、每个组织，
构建万物互联的智能世界

Bring digital to every person, home and organization
for a fully connected, intelligent world