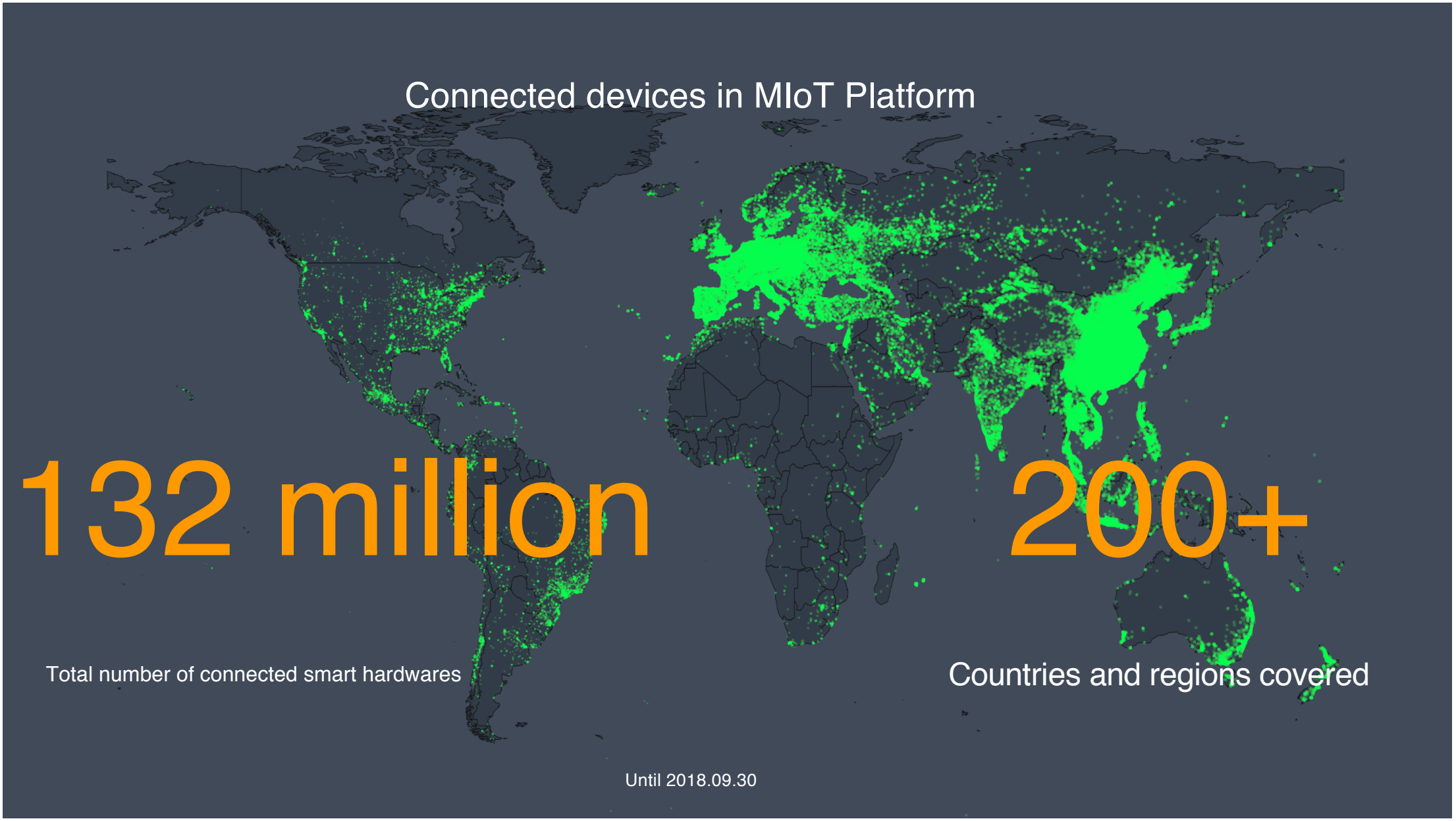
Connecting People and Home

——**MIoT** Platfrom **introduction**


MIOT PLATFORM
Connecting people & home
Innovation
Branding
Solution
Marketing
Analysis
Ideas
Success
Management
Manufacturing
Supply Chain
Product
Cargo
Customer
Delivery
Inventory
Management
Freight

The Largest IOT platform worldwide

Connected devices in MIoT Platform



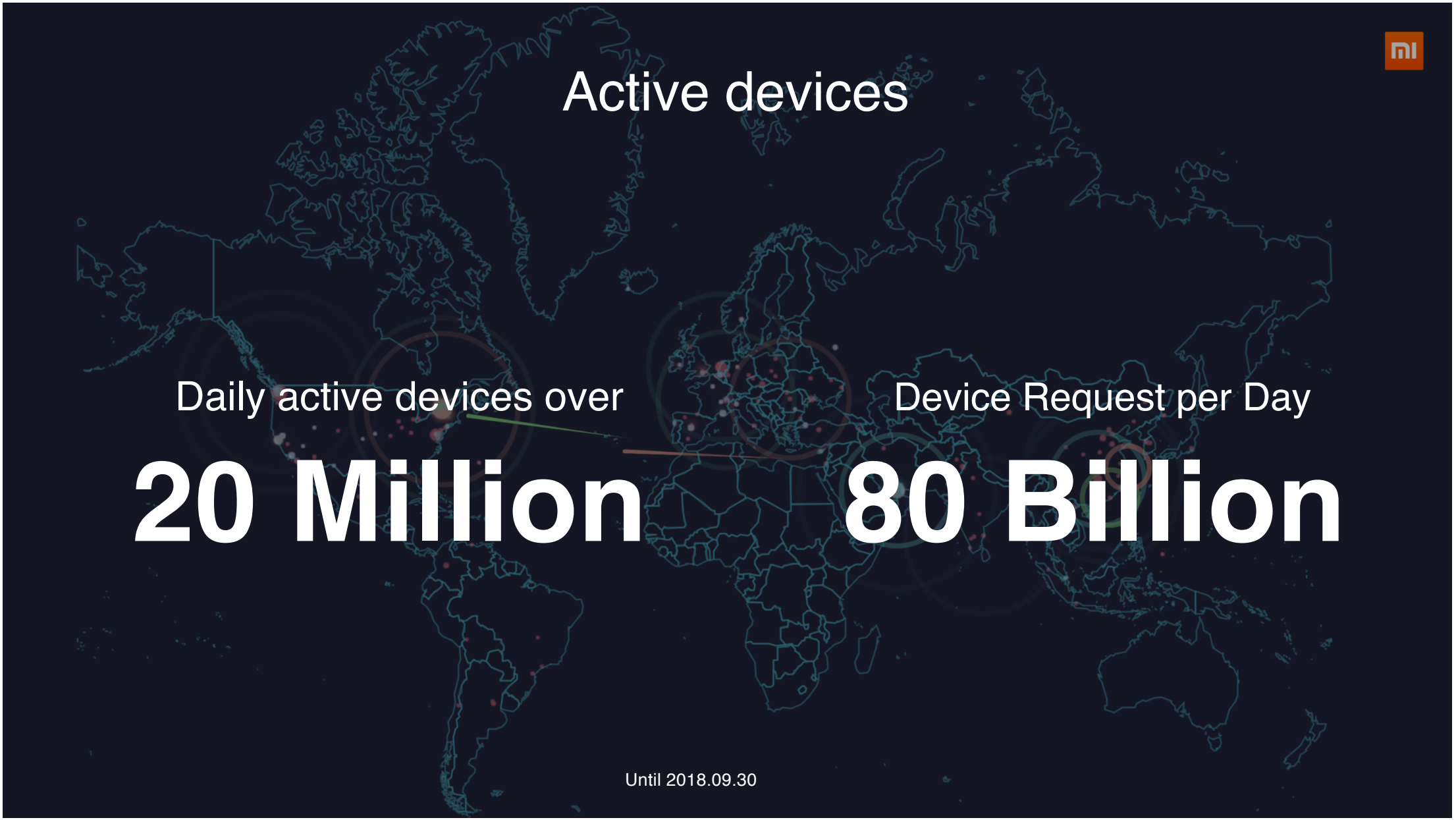
132 million

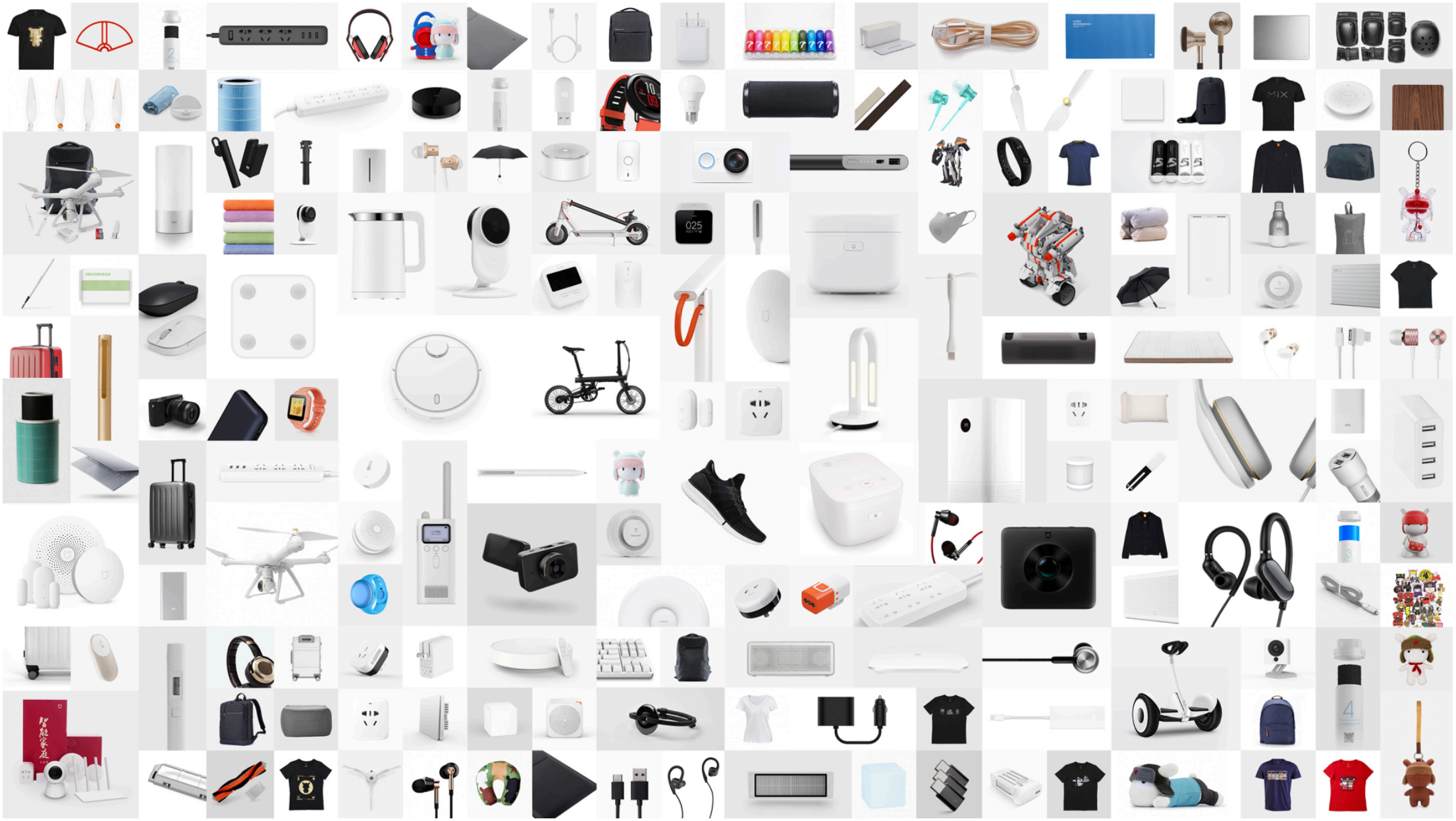
Total number of connected smart hardwares

200+

Countries and regions covered

Until 2018.09.30


Active devices
Daily active devices over
20 Million
Device Request per Day
80 Billion
Until 2018.09.30



MIOT Capability Introduction

MIoT Platform Strategy

Smart Phone & Smart Speaker Centric Smart devices

WiFi Module
2014

BLE Module
2015

WiFi+BLE dual-module
2016

Security Chipset
2017

NB-IoT Module
2018

Various Connections for smart devices

RTOS

Android

Linux

Standard Mi smart module

Rich SDK/API

MIoT standards

Normative Hardware test & Certification

Wi-Fi

Bluetooth

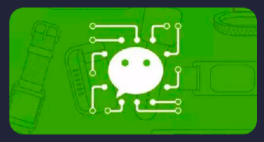
ZigBee

2-4G

NB-IoT

Multiple Access or Control of IOT device

Mi Speaker



WeChat mini-app

Mi Home APP

iOS Widget

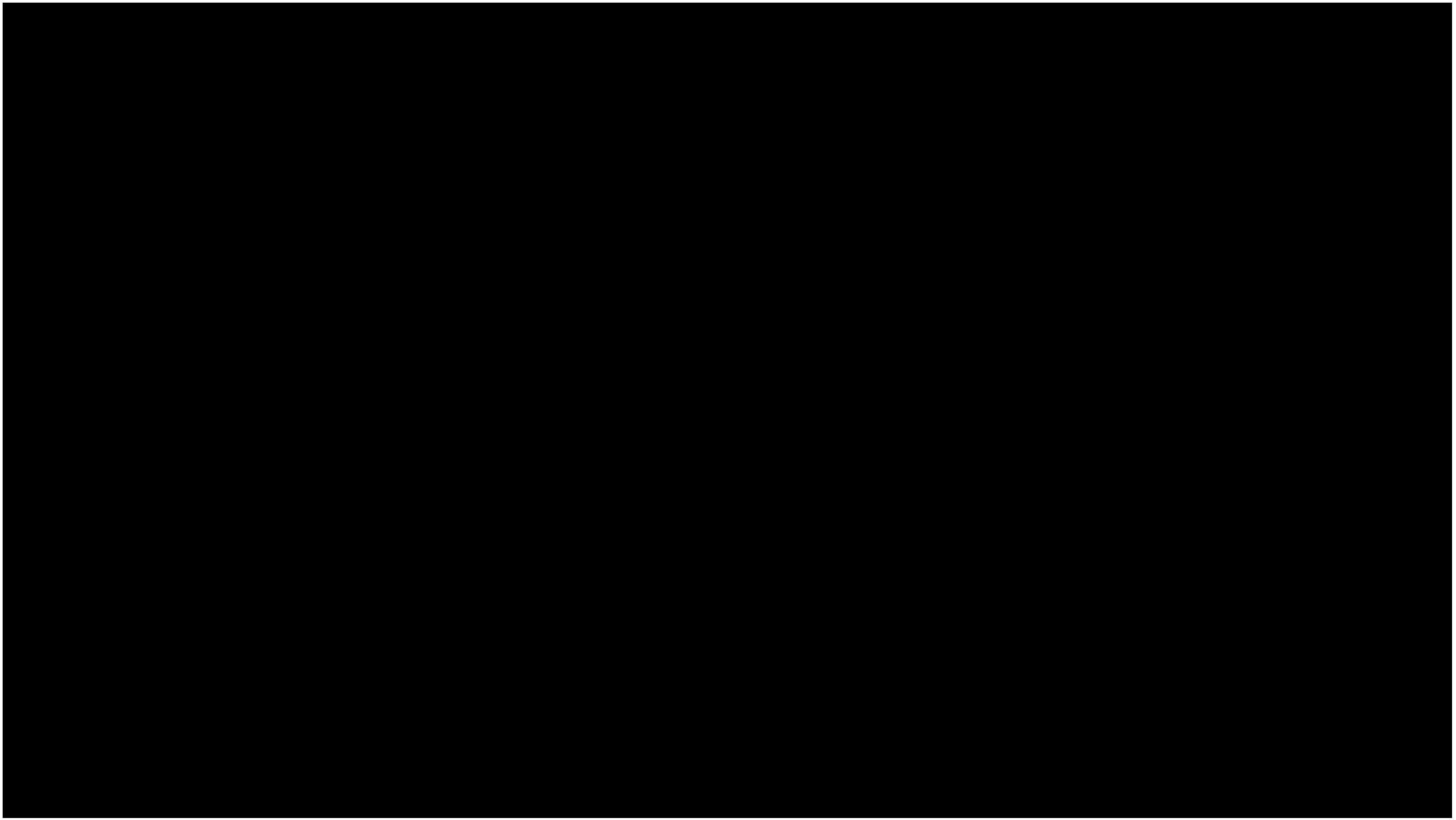
TV

Developer SDK

“Xiaoai tongxue” Smart voice control

- Device Status Query
- Device Control
- Trigger joint Scenarios
- Continuous Update

Video



One Word, Done!

Xiaoaitongxue，good night（trigger night mode）

xiaoaitongxue，switch on the bedroom light

xiaoaitongxue，what is air condition at home?

“**xiaoaitongxue，___**”

Xiaoaitongxue, get Cleanning Robot on work

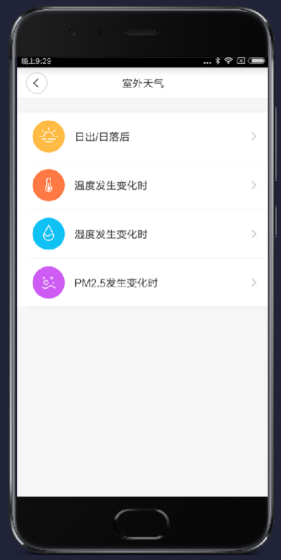
Xiaoaitongxue, turn air conditioner to 25°C

Xiaoaitongxue, what is the temperture ?

MIoT – Smart Scenes

After connecting to xiaomi devices, share the joint scenes with xiaomi devices

Self-defined joint operation of devices



Multi-dimension life Scenes

Personallized smart recommendation

Rich Trigger Conditions

Human body Sensor	Voice Arouse	Light Sensor	Timing
GPS Range	Hygrothermograph	Door Lock	Door Magnetic
Wireless Switch	Water Sensor	Gas/Smog/PM2.5	Soil

Based on our Massive Devices

User with 5 devices over

1.98 Million

BlueTooth Mesh

Traditional BlueTooth solution

BLE device

Low power consumption、low cost、
small size
Cannot always online

BlueTooth

Smart Phone

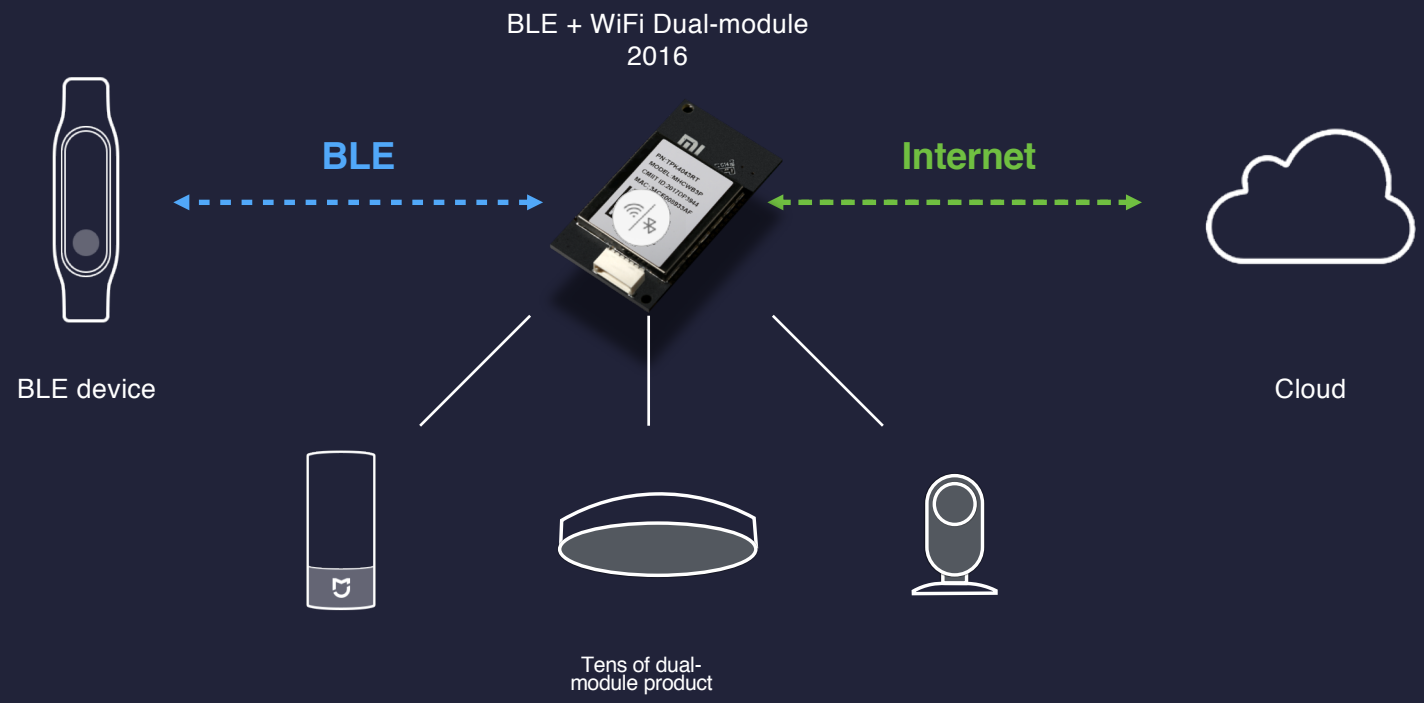
Require user to Launch App for
data Sync, low activity

Internet

Cloud

Cannot reach device timely,
cannot acquire state and control

BlueTooth Mesh




Mi Home BLE Hygrothermograph

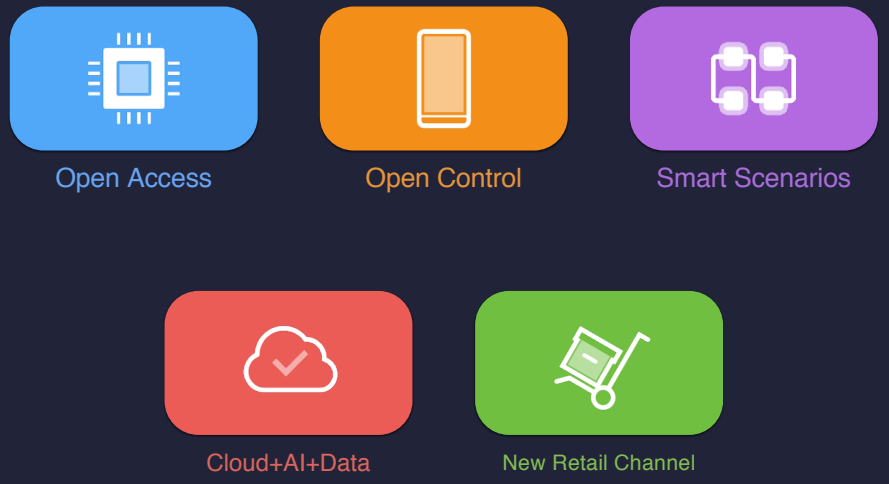
BlueTooth Mesh Scenarios

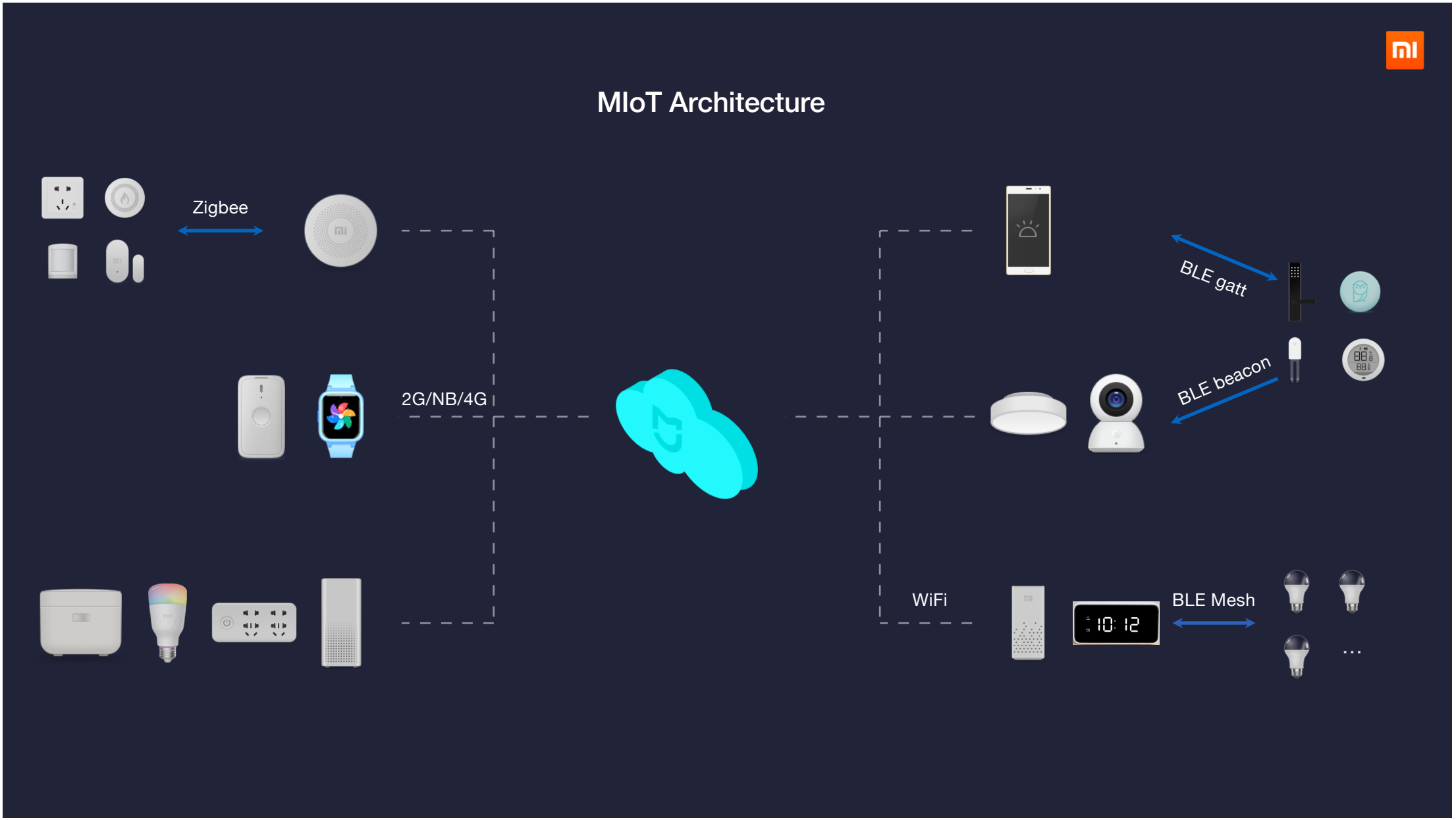
1、Low power consumption & remote control
2、Simple Data Synchronization
3、low cost to be smart

Continuously lower access barrier for smart device

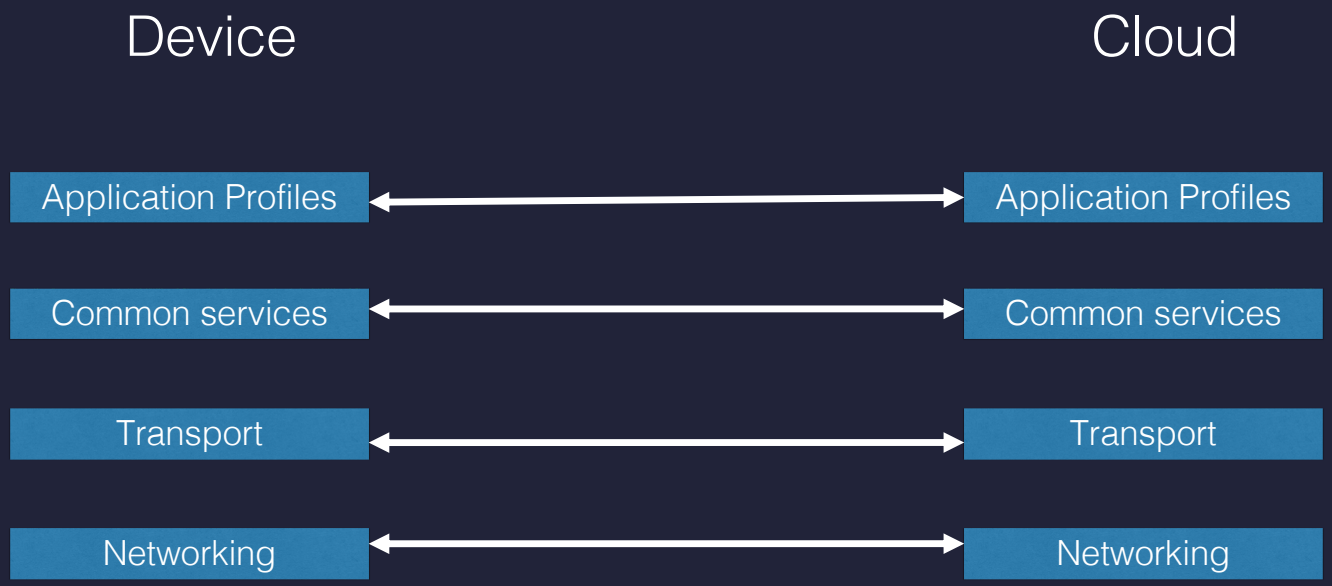
Continuously Raise user experience for smart device

Whole Platform Capability is Open to Share

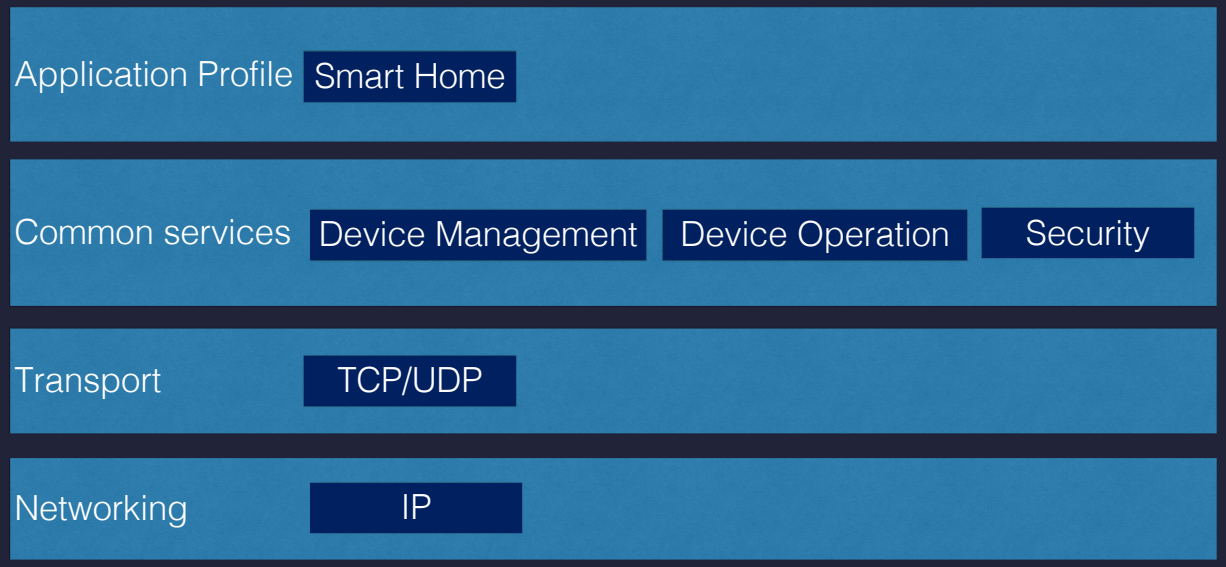



MIoT Architecture
Zigbee
2G/NB/4G
BLE gatt
BLE beacon
WiFi
BLE Mesh
10:12

MIOT Layered Model

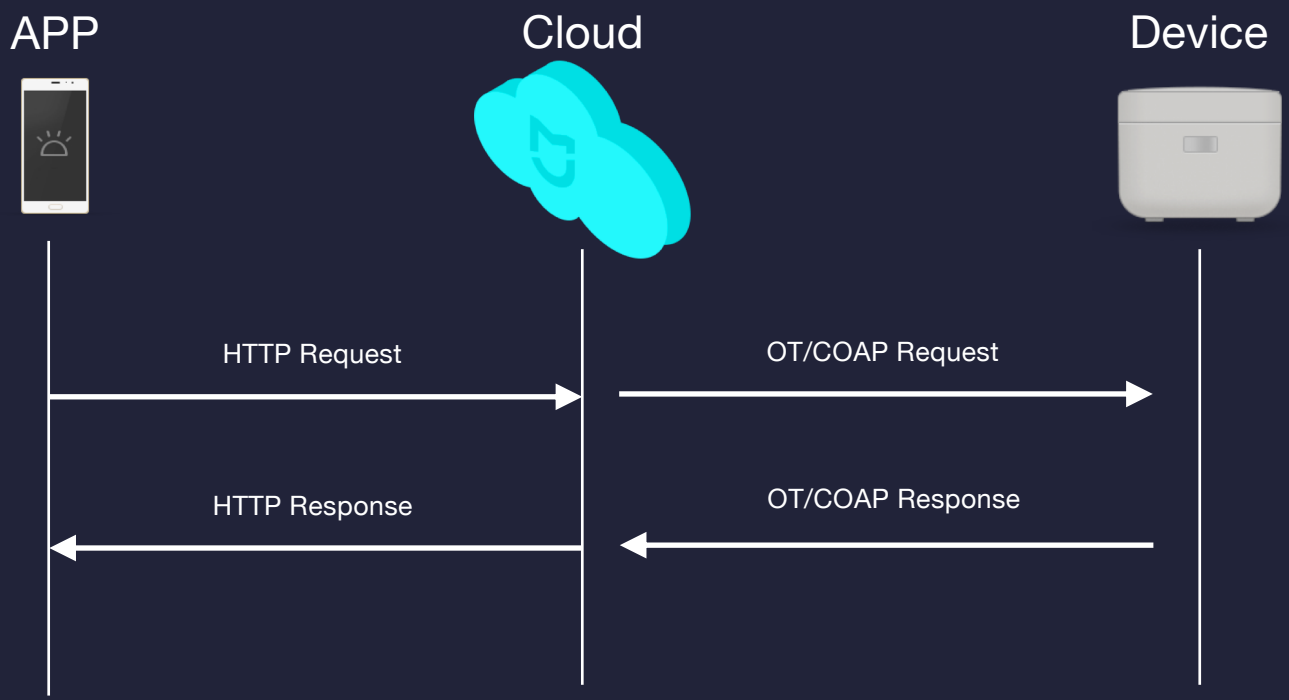


MIOT Functional Model



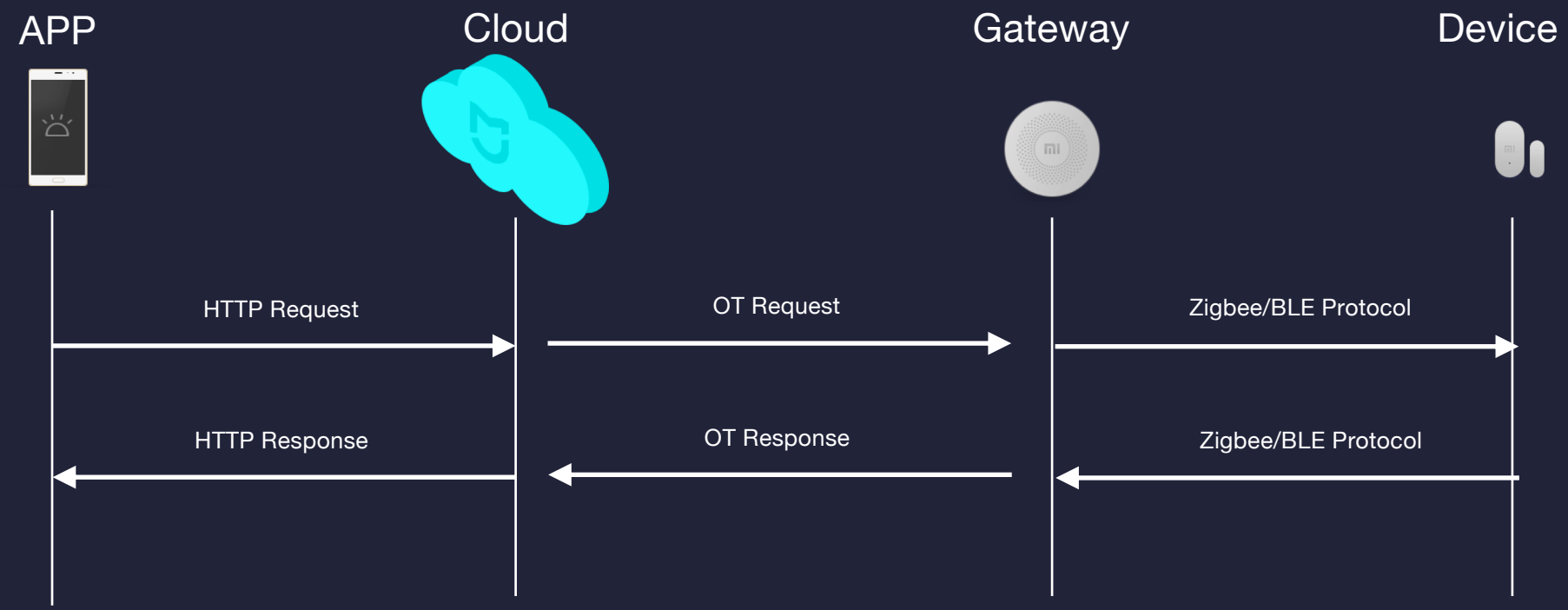
Device Management: Authentication, Log in, Keep alive, Time synchronization
Device Operation: Read, Write, Property Indication, Event Indication, Action
Security: TLS

Example Illustrating of MIoT Roles (without gateway)

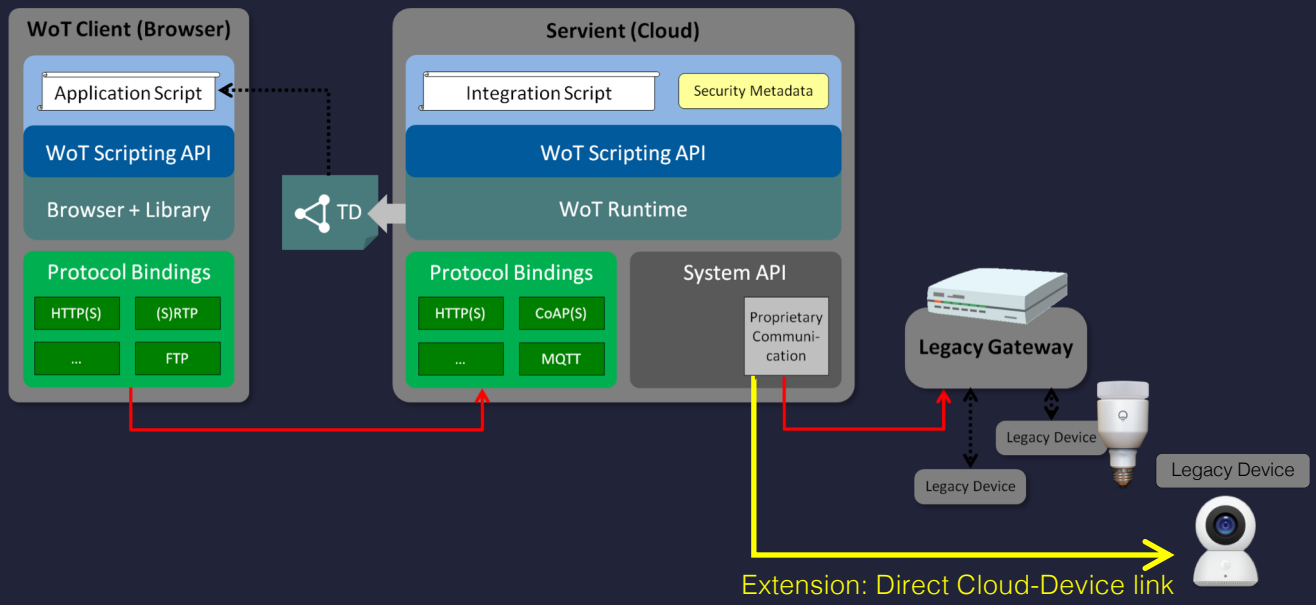


Note: OT is the application protocol defined in MIOT for common services

Example Illustrating of MIoT Roles (with gateway)



MIoT Resembles WOT deployment scenario 6



WOT scenario 6 **Servient on Cloud Server** **with extension of direct link between cloud and device**

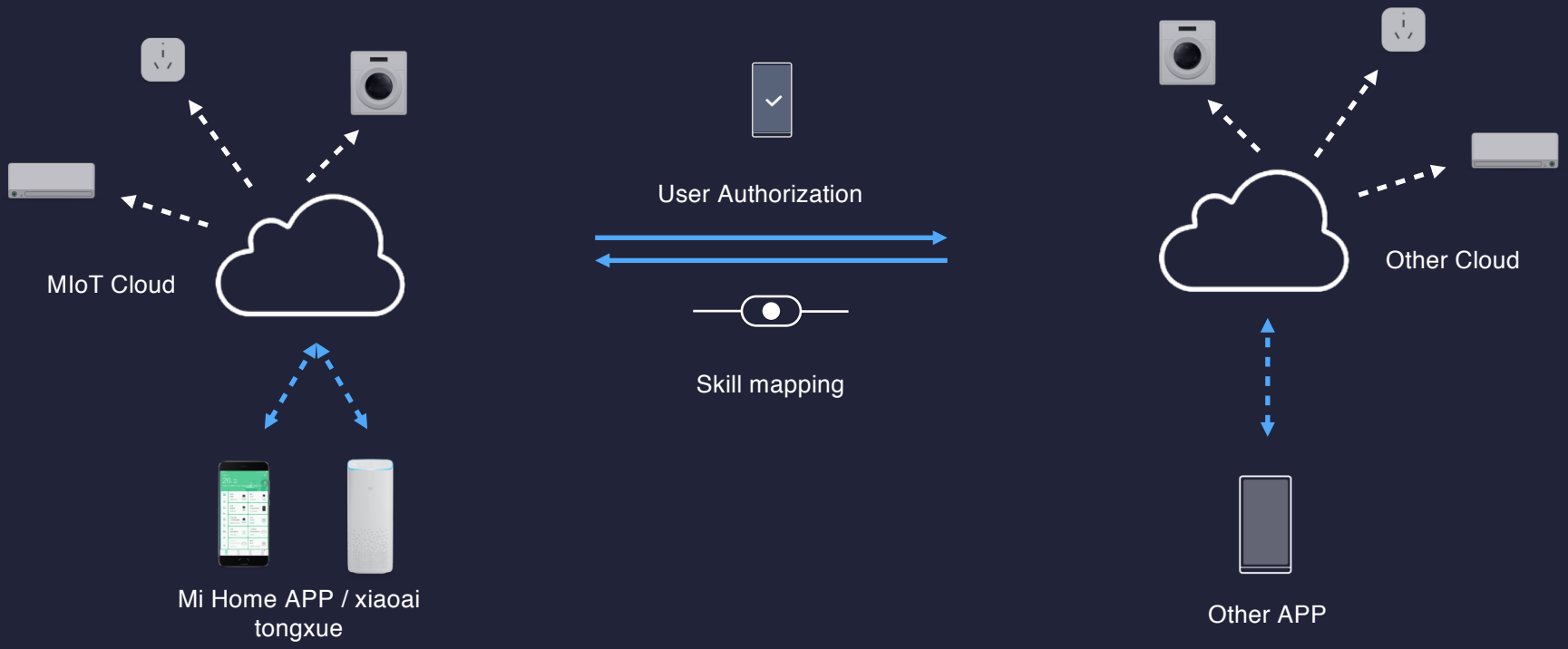
How to Work with other vendors

1. Cloud-to-Cloud interoperation

2. Module Level integration

3. SDK/Dual-protocol interconnect

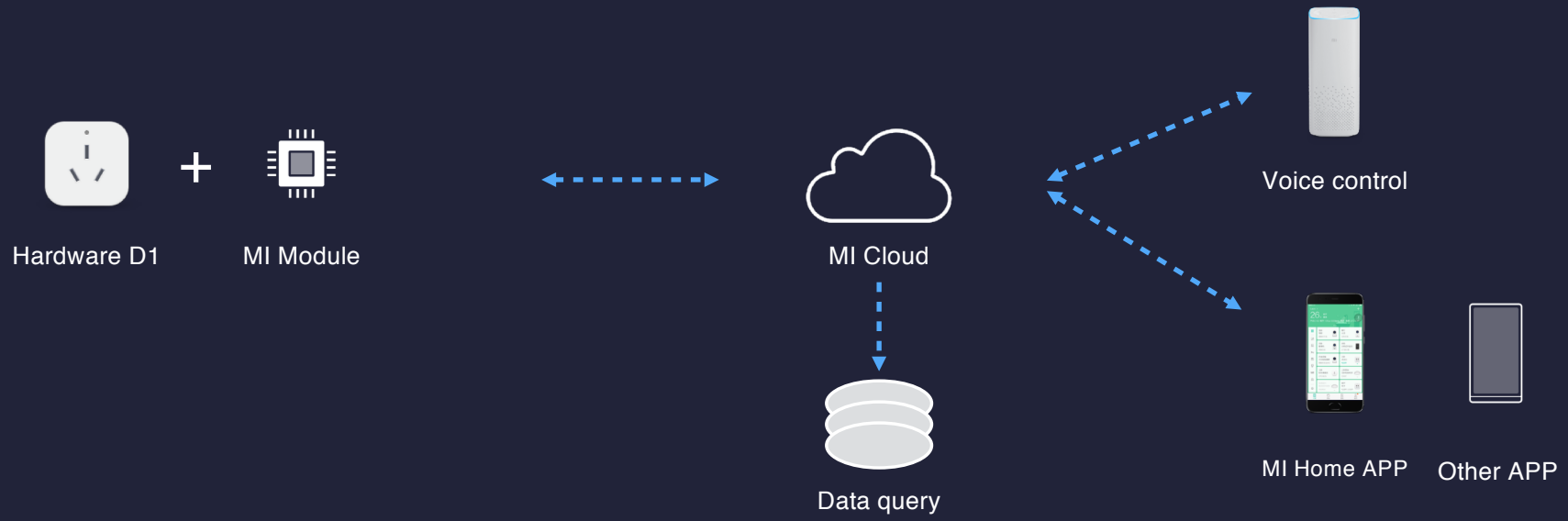
1. Cloud-to-Cloud interoperation



Advantage：with any module，in-market device can directly inter-operate without hardware change, Cloud co-exist

Disadvantage：Complicate flow，bad user experience，long response time

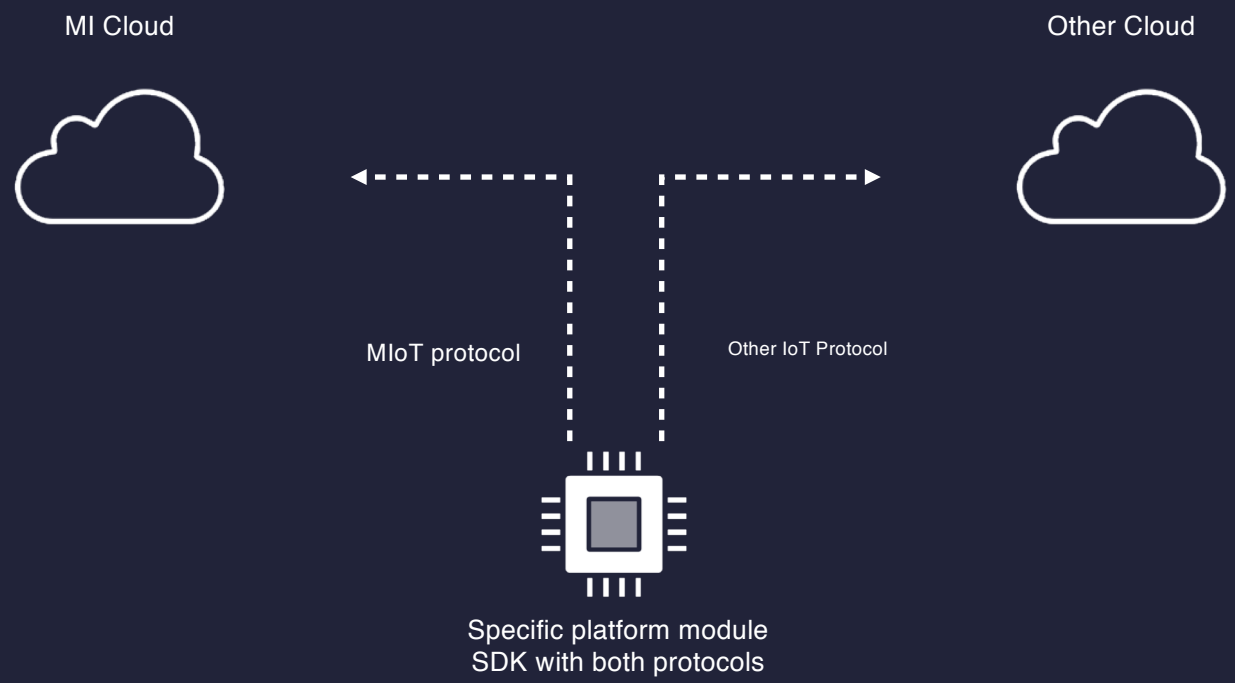
2. Module Level integration



Advantage：Simple，low cost, Fast development，High Reliability

Disadvantage：In-market devices cannot access，Vendors cannot use their own cloud

3. SDK/Dual-protocol interconnect



Advantage：Cloud co-exist，simple flow

Disadvantage：In-market devices cannot access，require huge hardware development，has additional requirement for hardware

Thanks~