

# NB-IoT in China

June 27<sup>th</sup> 2017



# Government: Release Policy to Promote NB-IoT Deployment

MIIT release policy to promote NB-IoT deployment:



MIIT: Ministry of Industry and Information Technology of China

1. Push the NB-IoT related **standardization** in China, for example: module standard, test standard;
2. Push the deployment of NB-IoT network, **400K sites** in 2017, **1500K sites** by 2020;
3. Push NB-IoT application, **20M connections** in 2017, **600M** by 2020;
4. Push NB-IoT **application** in smart cities, consumer, manufacture domain, encourage use case innovation
5. Found **cellular IoT forum** to push ecosystem

# Operators: Actively Build NB-IoT Ecosystem



Self Produced module to simulate ecosystem; Promote module standard to reduce cost.



3USD subsidy per module to attract more customers



Joint open lab NB-IoT device alliance

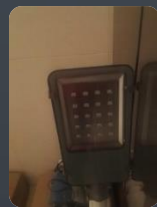
## municipal administration



Manhole cover



Water height detector



street light



Trash can

## Utility



Pipe monitor



Smart meter

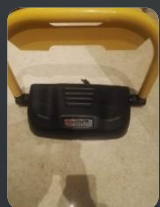


Smart grid



Smart gas

## Transportation



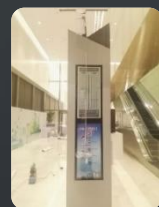
Parking locker



Smart parking



OFO locker



Bus stop board

## Smart home



Door sensor



Door locker



Smoke detector



Air quality

## Consumer applications



Health care



Kids tracking



Tracker



Smart suitcase

## White goods



Air conditioner



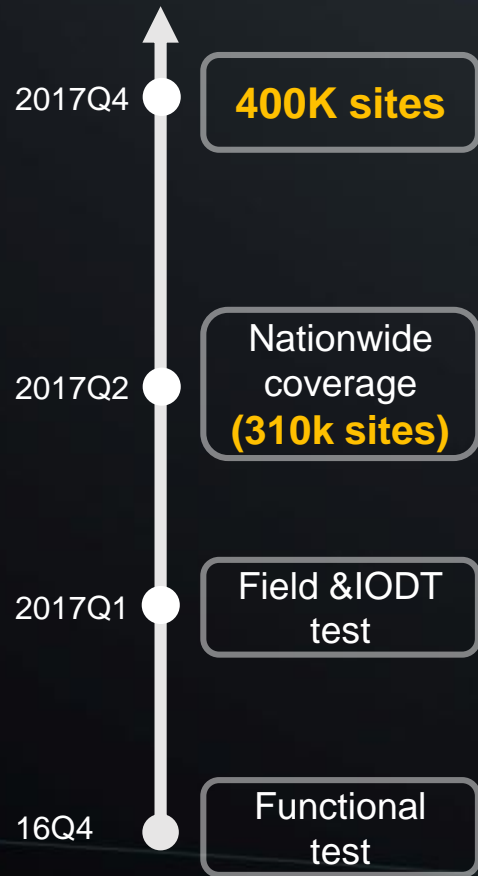
Wash machine

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# Vertical Customers: Actively Deploy NB-IoT Applications

Operators get lots of vertical business when network is ready

**Nationwide NB-IoT coverage in 2017.6**



**Shenzhen Water**  
(1300 meters deployed, 100K in 2017)



**Shenzhen Gas**  
(50+ meters in trial, 440K in 2017)



**Fujian Water**  
(1000+ deployed, 300K in 2017)



**Fire station**



**Yingtian municipal administration**  
(300+ deployed, 20K in 2017)



**Wuxi municipal administration**  
(100+ deployed, 20K in 2017)



**Sence**  
(20+ deployed, 3000 in 2017)



**OFO** (Trial in June 17, 1M in 2017)



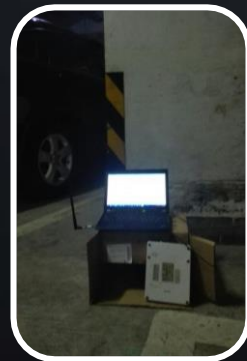
**Haier**

# Performance: Excellent Performance Observed in Commercial Network

## Shenzhen Water: 1300+ water meters



Meter in the wall  
Path loss: 152.3dB



Meter in the basement  
Path loss: 164.2dB

## Shenzhen Gas: 50 Gas meters



Meter on top of building (with metal cabinet)  
Path loss: 157.6dB



# Thank You.

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28 JUN - 1 JUL 2017 - 2017年6月28日至7月1日



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