



6th Mobile IoT Summit



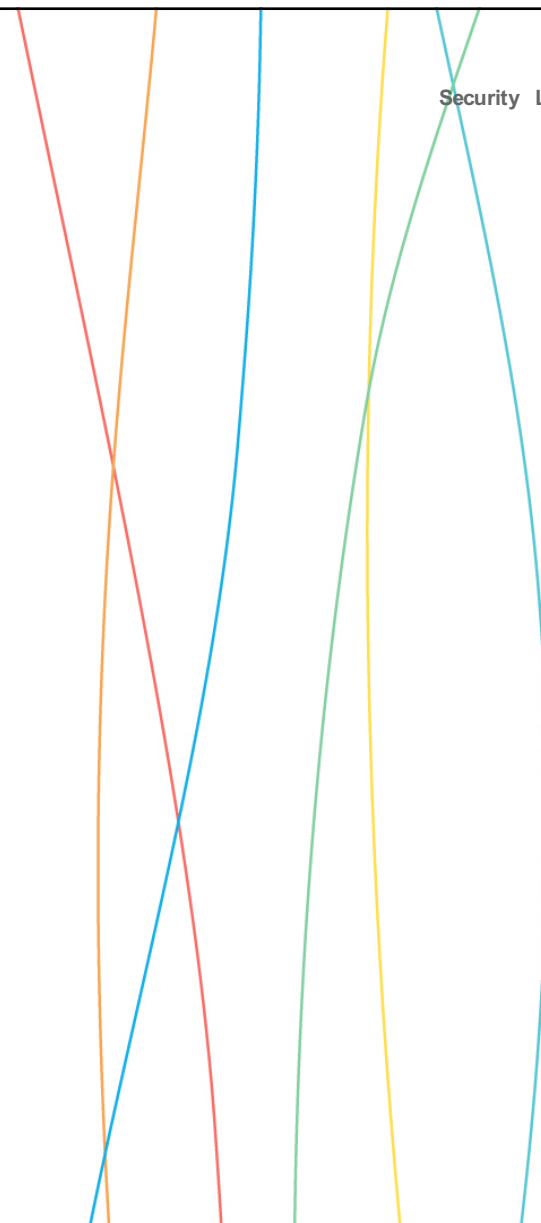
Cheng Zhu
Huawei

Building A Fully Connected World Together with NB-IoT

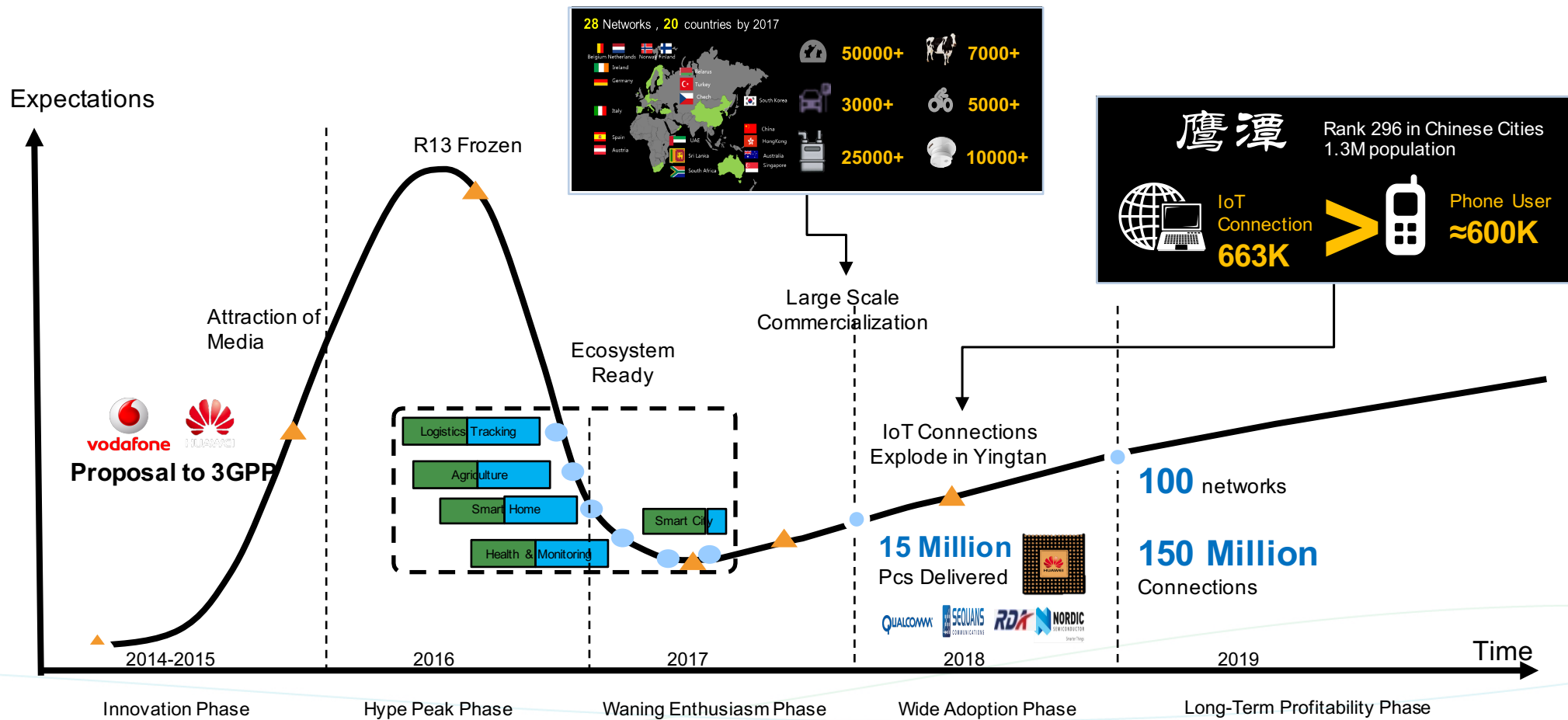
Mr. Cheng Zhu
President of Cellular IoT Product Line



Security Level:



NB-IoT Commercialization is on Fast Track



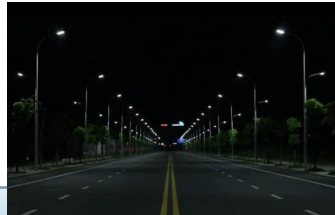
NB-IoT Use Cases Started Large Scale Deployments

50 thousand, pcs in contract



Smart Parking
(Germany, Xi'an)

1 million, pcs in contract



Street Lighting
(Shanghai, Yingtan)

2 million, pcs meters
to be delivered in
2018



Smart Water
(Fuzhou Yingtan...)

1 million, pcs meters
to be delivered in 2018



Smart Gas
(Korea, Shenzhen...)

More
...

1 million, pcs in 2018



Smoke Detector
(Shanghai, Xiamen...)

1.5 million cows in contract



Connected Cow
(Neimeng, Ningxia...)

1 million, pcs in 2018



Smart Lock
(Tsinghua, Changchun...)

1 million, pcs in 2018



Shared Bicycle
(Beijing, Yingtan)

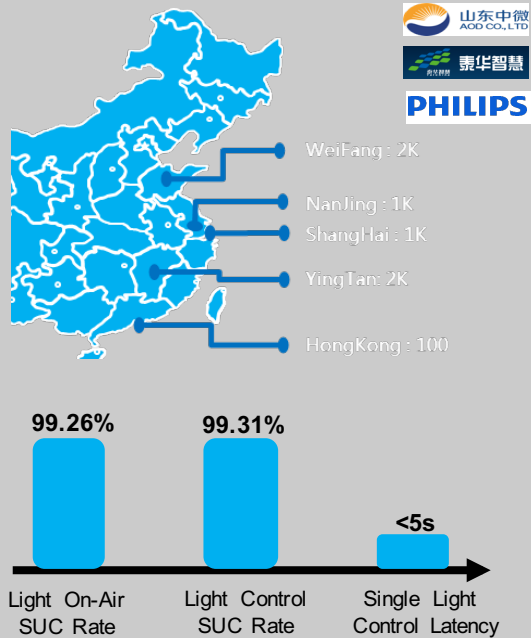
More
...

Proven Solution To Meet Typical LPWA Requirements



Remote Control

Smart Lighting

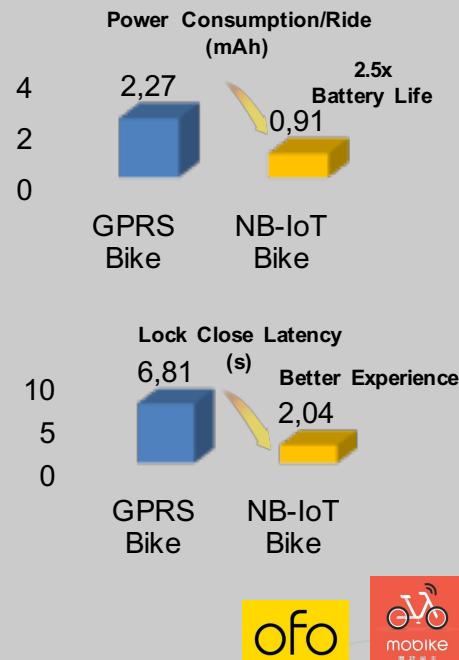


Performance



Asset Tracking

Sharing Bike



Sensor Information Upload

Smart Meter

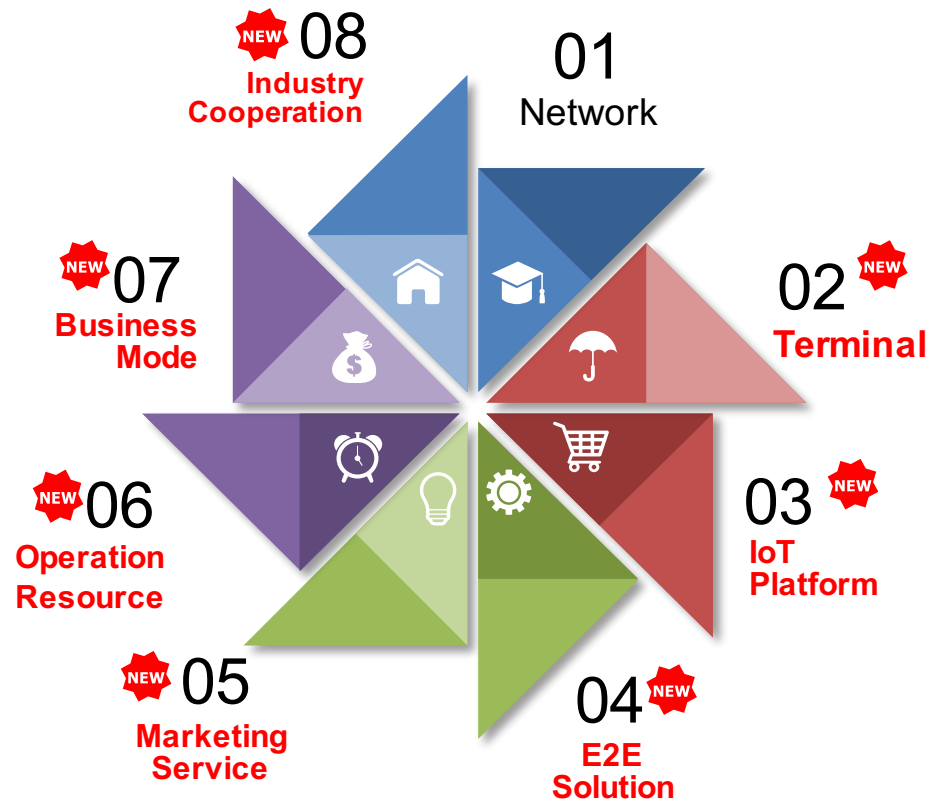


Cell Capacity Analysis when Several Types of Use Cases are Combined

No.	Use Case	Connection Times	Number /Cell	CC0	CC1	CC2	Start Time	End Time
1	Smart Water Metering	1	3000	50.0%	30.0%	20.0%	0	8
2	Smart Lighting: Attach	1	200	80.0%	15.0%	5.0%	17	18
	Smart Lighting: Heart Beating	48		80%	15%	5%	18	06
3	Sharing Bike: Lock, Location Update	2	800	60%	35%	5%	7	9
		2		60%	35%	5%	17	19
		1		60%	35%	5%	0	24
4	Smart Gas Metering	1	1000	50%	30%	20%	0	8
5	White Goods	96	500	40%	55%	5%	0	24
6	Smart Parking	24	200	50%	45%	5%	6	24
	Total		5700					


Based on the traffic model above, the number of connections per cell is predicted to be **5700**

NB-IoT: Not Just Selling SIM Cards



Go beyond traditional service domain
Build new E2E service integration capability

Deploy Mature NB-IoT Network



Build Vertical Industry Ecosystem



Gain More Revenue



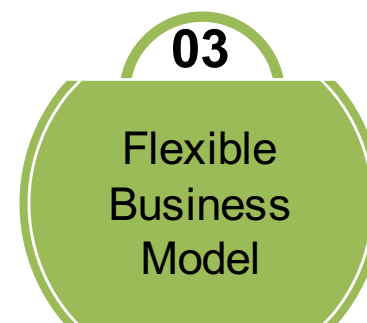
Three Key Methods Leading to NB-IoT Success



Full Coverage Network is the **basis** of NB-IoT Success.

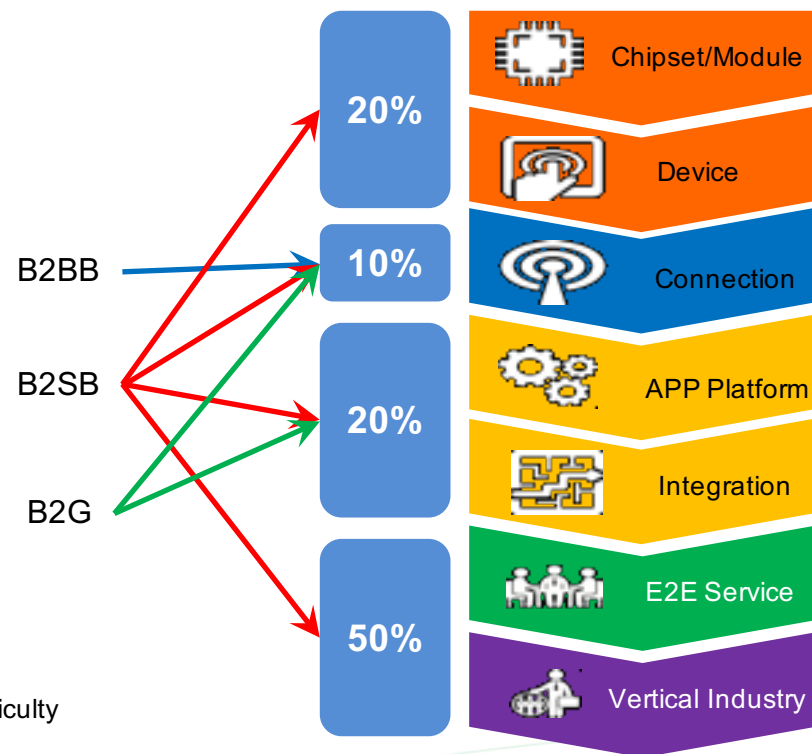
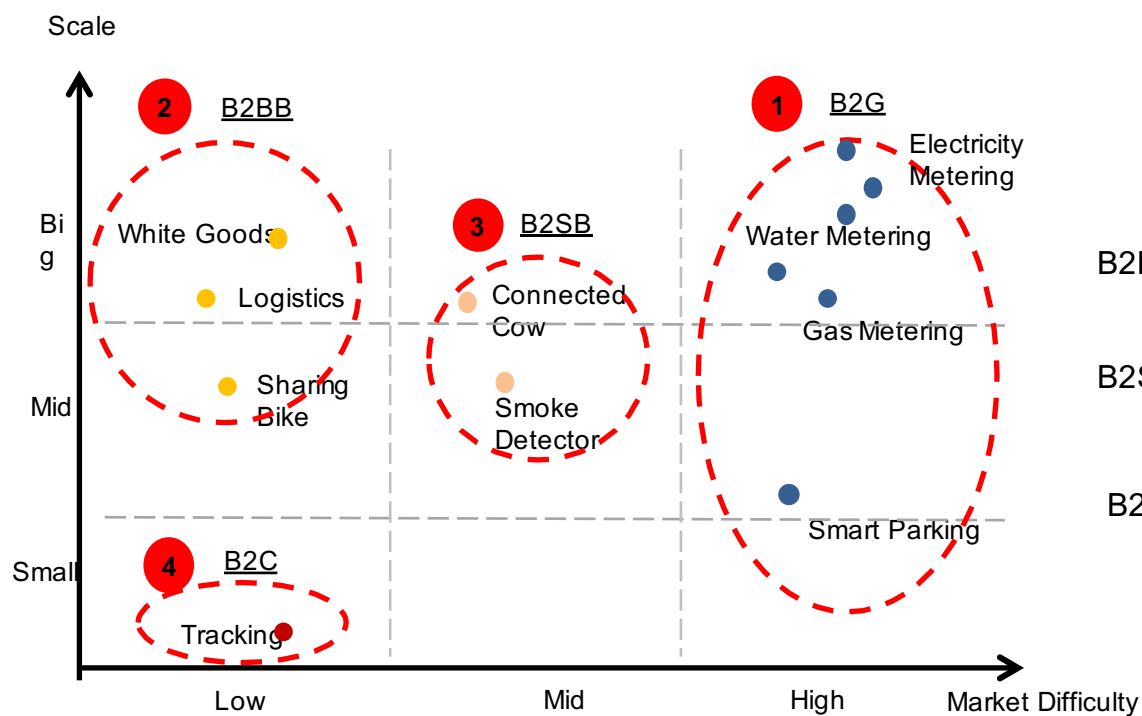


Create a variety of NB-IoT devices to satisfy different application scenarios.
Incubate use cases through **local ecosystems**.



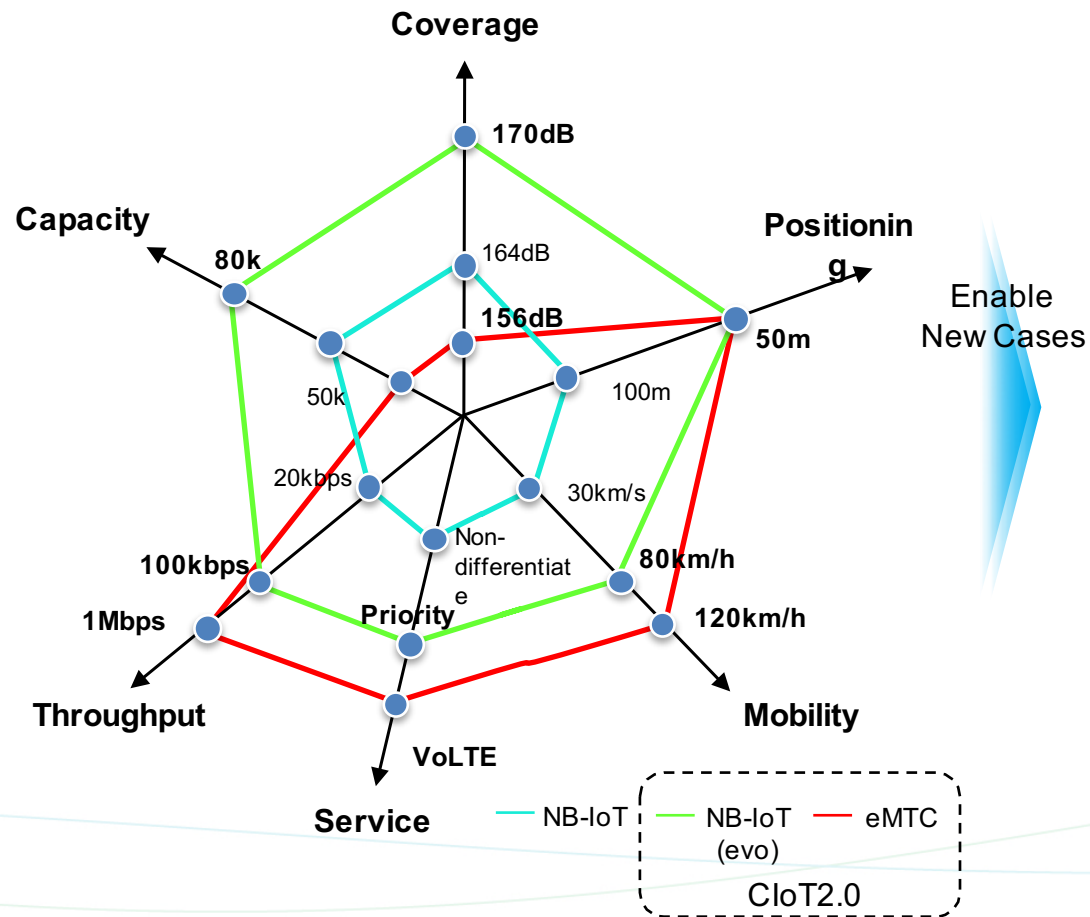
Transform from **SIM selling to E2E integrated business solution**, gain more from NB-IoT.

Win-Win Cooperation Between Operators and Vertical Industry



CloT 2.0: Enhanced Performance For More Use Cases

Enhanced Performance to Enable New Use Cases



POS

Use Cases
Need Higher
Throughput



Tracking Device



Positioning
Use Cases

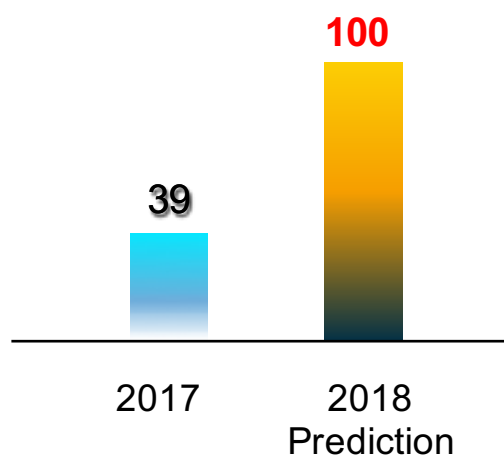


Smart Phone

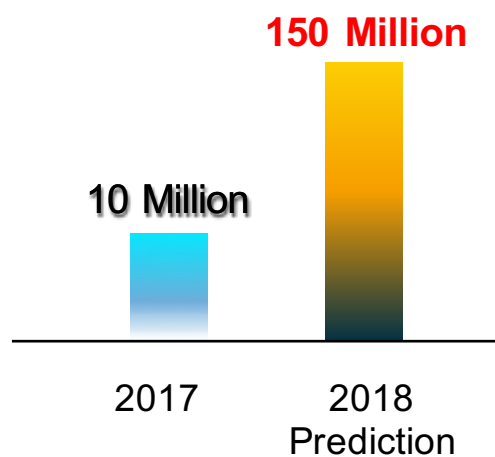
Phone with CloT
Module

NB-IoT @2018: Unstoppable Growth, Everywhere in Life

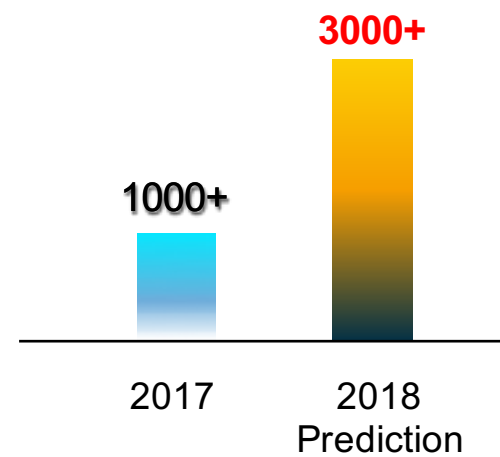
More Commercial Networks



More Connections



More Ecosystem Partners





Thank you!!

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