One LTE, Multiple Spectrums and Rich Services

Ultra Mobile Broadband



HUAWEI TECHNOLOGIES CO., LTD.

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Content

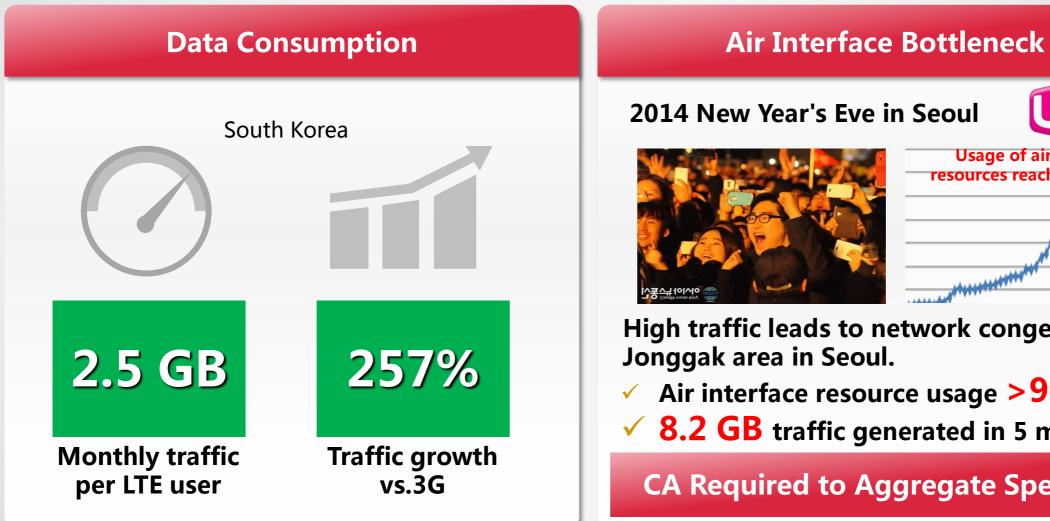
MBB Industry Findings

One LTE Inspiring the Best Experience



Finding #1: LTE Driving Big Data Consumption





2014 New Year's Eve in Seoul



High traffic leads to network congestion in Jonggak area in Seoul.

- ✓ Air interface resource usage >90%
- ✓ 8.2 GB traffic generated in 5 minutes

CA Required to Aggregate Spectrum

Finding #2: MBB Connections Rapidly Increasing



51% MBB connection increased in 3 months

2013.10 National Day



423 connected users per cell

10 times of that when network was built





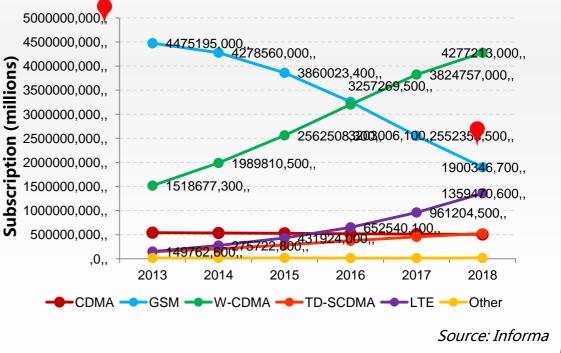


638 connected users per cell • 15 times of that when network was built

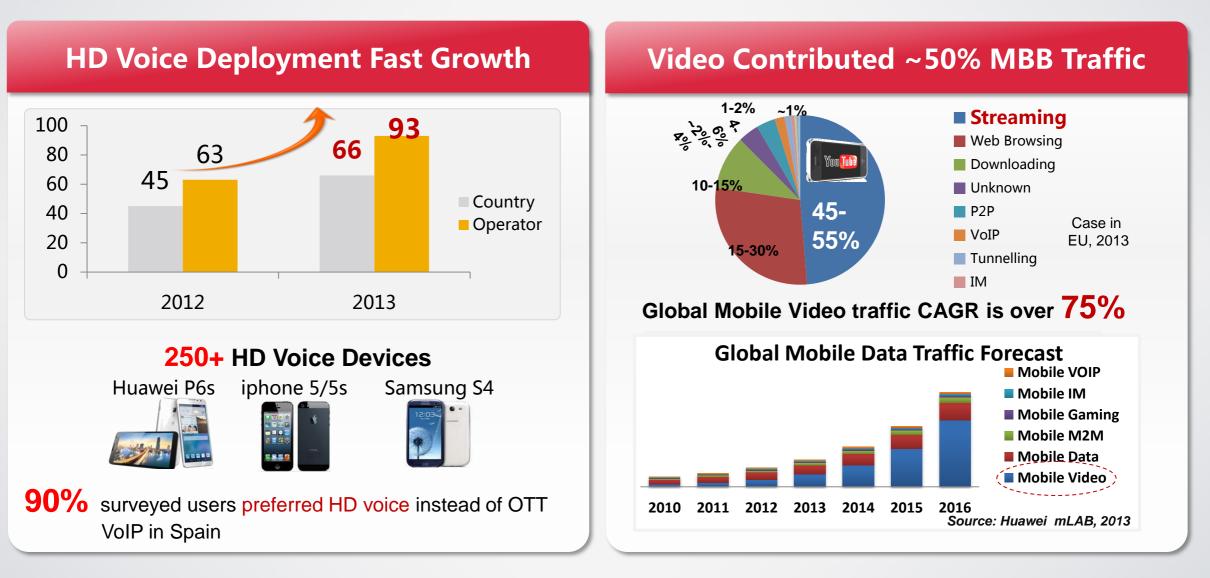


Global Subscription Forecast

2.5B 2G User will Migrate to MBB in



Finding #3: HD Voice & Video are being Main Service



Finding #4: FDD&TDD Convergence Leads to One LTE

The Common Ground of GTI Summit : One LTE



Craig Ehrlich GTI Chief man



Anne Bouverot

GSMA General Secretary

Hope all members and partners to build a TDD&FDD convergence network



Shang Bing Vice Director, Ministry of Industry and Information Technology



Special Consultant of

Song Ben,

SBM CEO

TD-LTE is the correct choice for SoftBank. SoftBank will drive TDD&FDD convergence and will deploy 3.5G TDD in future.

To accelerate

convergence

and global

roaming

progress

the TDD&FDD

The Progress of Eco-System



HUAWEI

2014Q3, **3GPP freeze** FDD+TDD CA standardization





Li Yue CEO, CMCC

expand the TDD scalability to 500,000 sites and sell 100.000.000 terminals to ensure the network faster and the price

CMCC will

GTI Target:

Develop TDD

and promote

Convergence

TDD&FDD

Steve Pusey, VDF CTO

Vodafone will align Huawei demonstrate FDD+TDD CA in 2014MWC and will plan to deploy LTE TDD/FDD convergence

network globally



2015, **TDD+FDD CA** commercial





affordable



MBB Industry Findings

One LTE Inspiring the Best Experience







One LTE

Best Experience

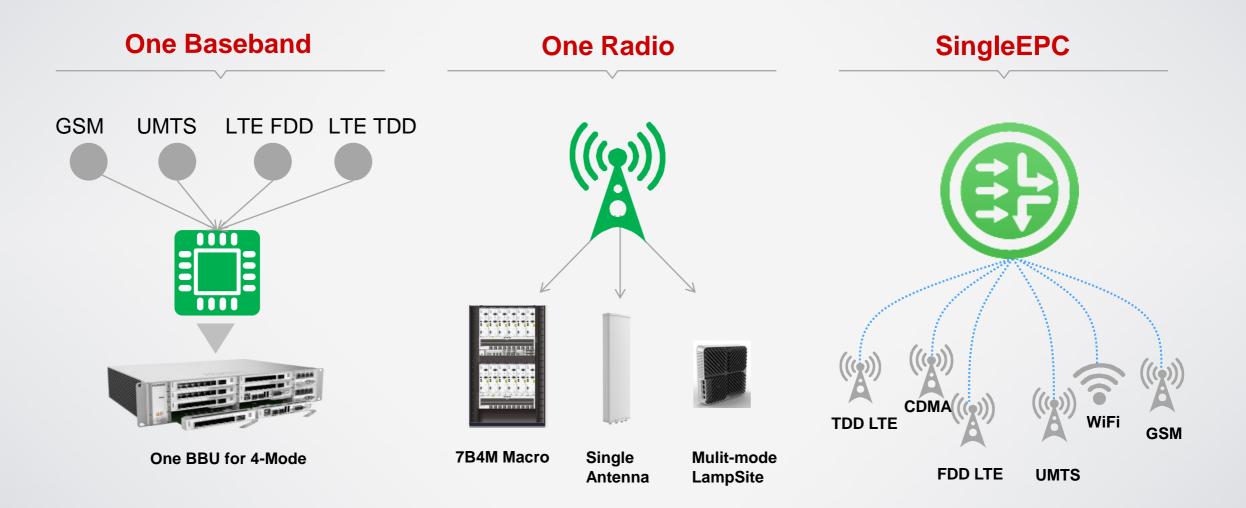




Ultra Fast Experience Voice Experience Video Experience

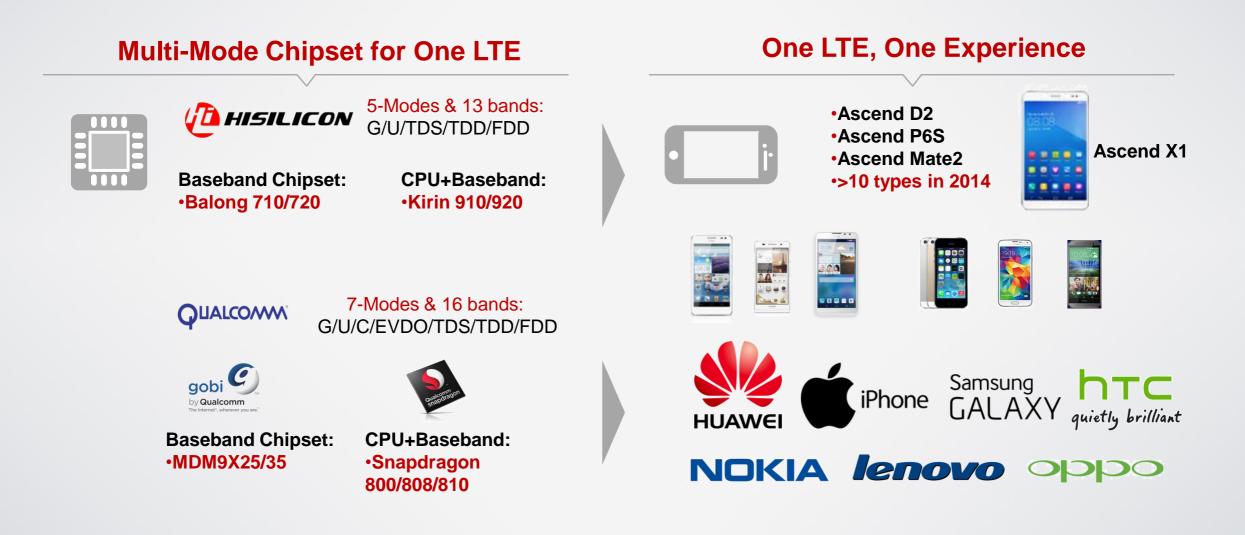
One LTE Network for FDD&TDD Convergence





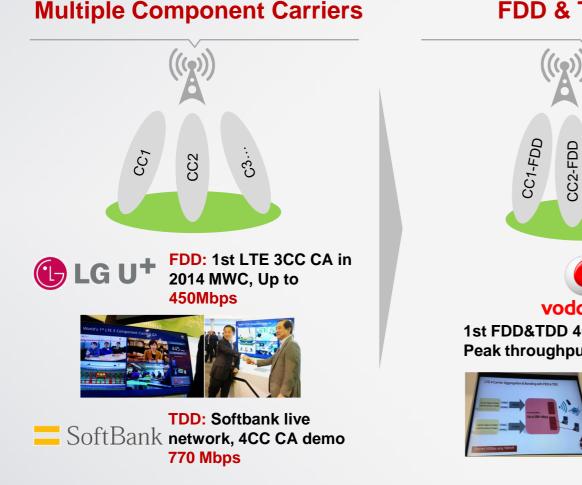
One LTE, One Experience



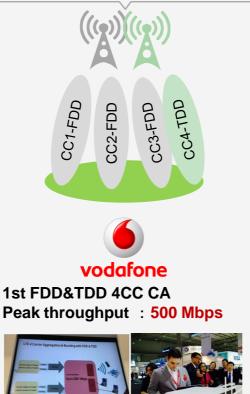


FDD&TDD CA for Ultra Fast Experience

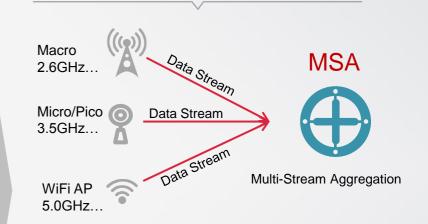




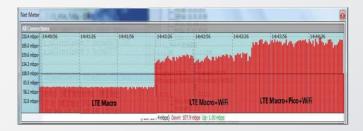
FDD & TDD CA



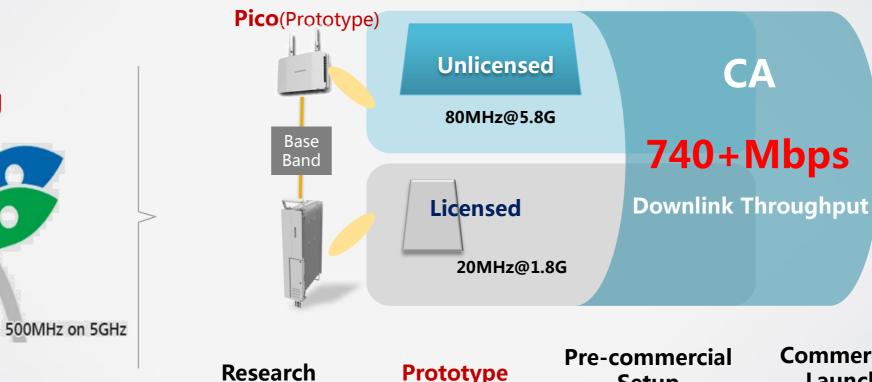
Multi Stream Aggregation



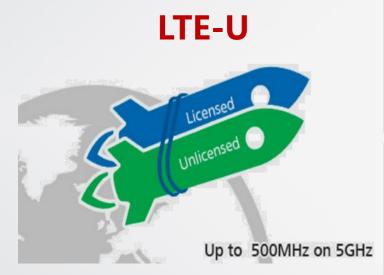
World 1st Live Demo in Shanghai



LTE-U Extends LTE Benefits to Unlicensed Spectrum



Live Demo for NGMN in Hongkong, Jan, 2014

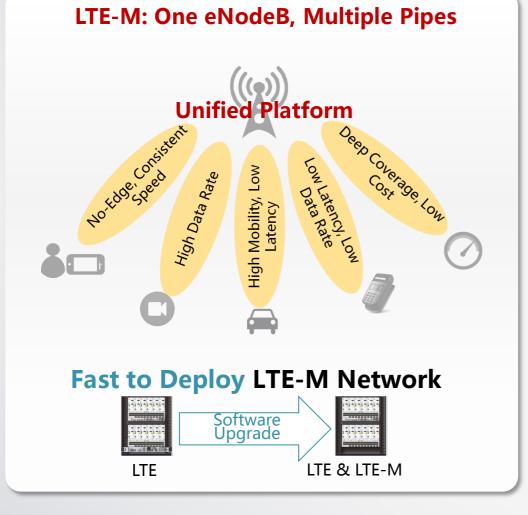


Research	Prototype	Pre-commercial Setup	Commercial Launch
2013	2014	2015	2016

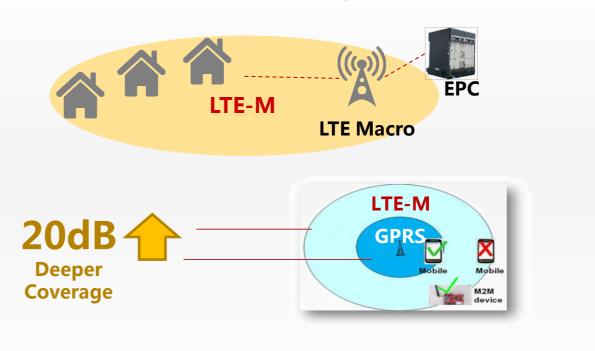


LTE-M: Bring New Opportunities to Operators

M2M technologies for smart metering applications

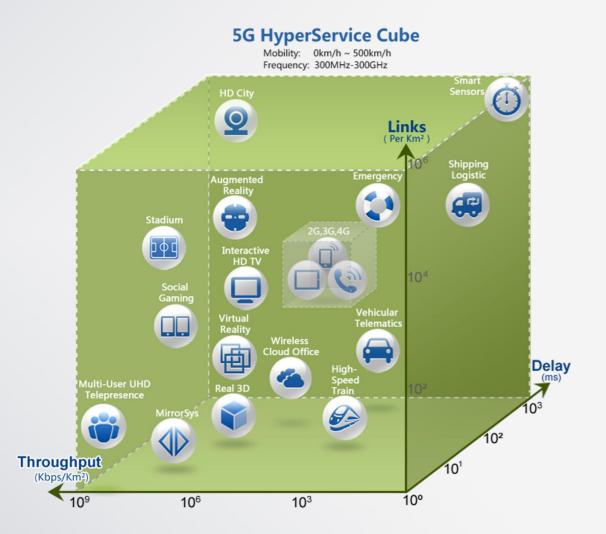


Case: Optimized Access Technology for VDF Smart Meter



- LTE-M get deep coverage, 20 dB gain, 8 to 10 times coverage radius
- Massive connection: 10k to 100k connections with a single cell
- Low power consumption: battery life up to 10 years

5G Discovery for Future Ultra Broadband Everywhere





Thank you

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