## To Build the Most Reliable Energy Network using LTE

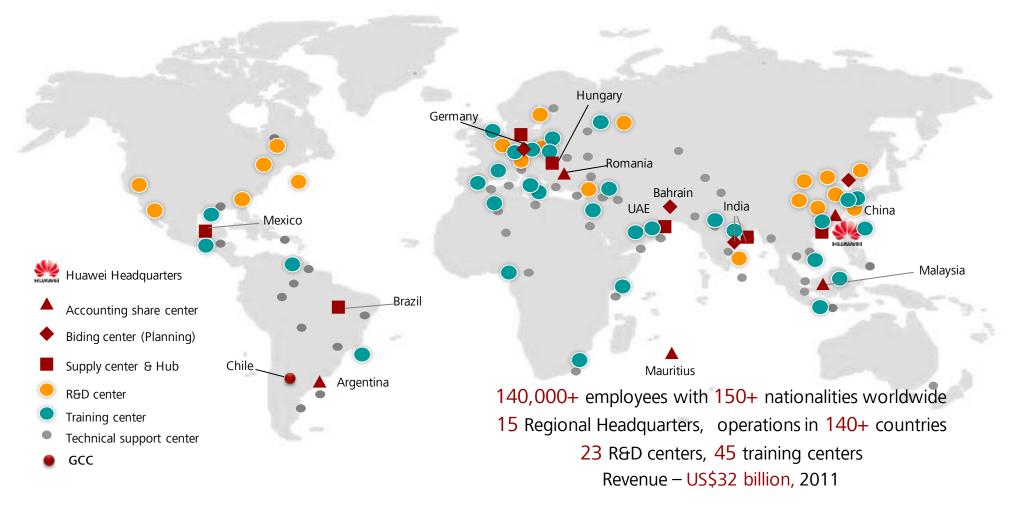
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## A leading global ICT solutions provider with Centers of Expertise worldwide





### **Huawei Latin America Region**



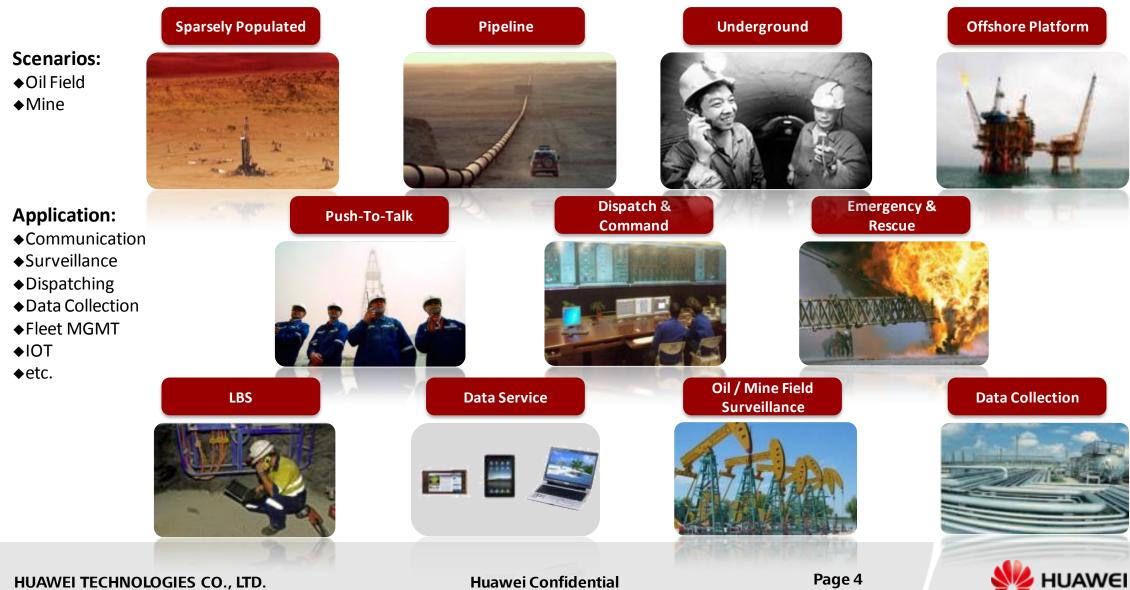


- Established in 1999 with headquarters in SP., Brazil
- 19 branch offices in Latin America, covered almost all the LA market
- 3 software R&D centers and 3 training centers.
- 4500+ staff, around 80% of whom are local staffs
- Serving over 50 Operators





### **Scenarios and Applications for Energy Network**



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### **From Voice to Multi-Media**



#### **Traditional Voice Communication**

- Single voice service
- Information Distorted by Voice
- Transmission of large amount of data is unavailable
- Video service is unavailable

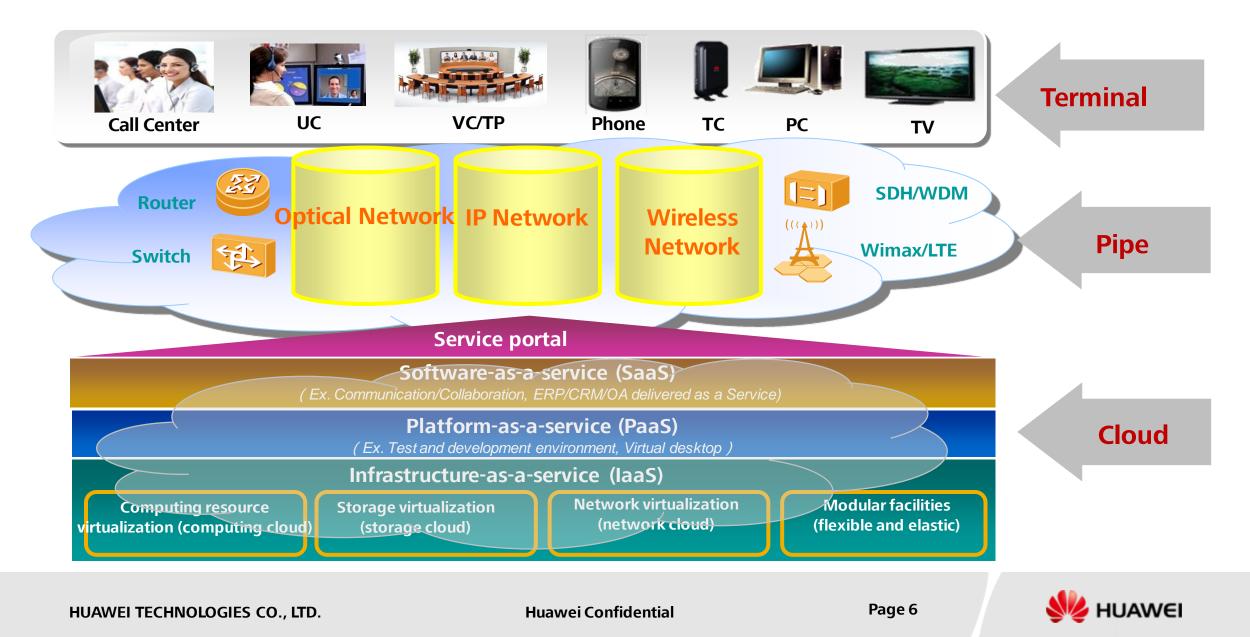
#### **Multi-Media Communication**

- Voice + Video Dispatching
- Visual Operation Management
- Remote mass data collection
- Video services enhance efficiency and
- security

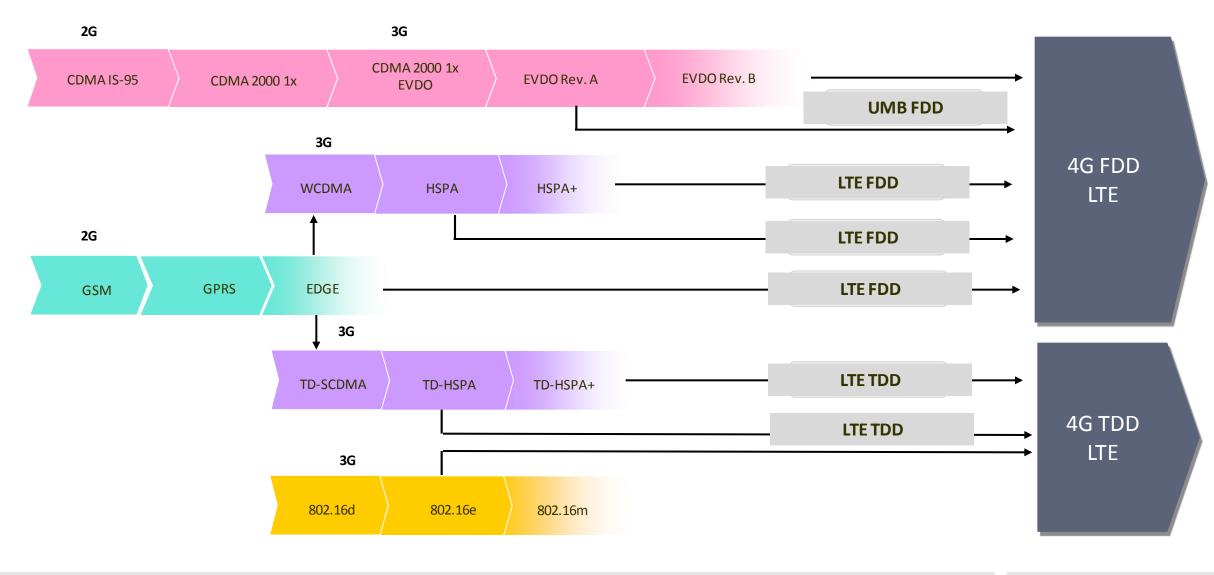




### **New Generation ICT Technology Framework**



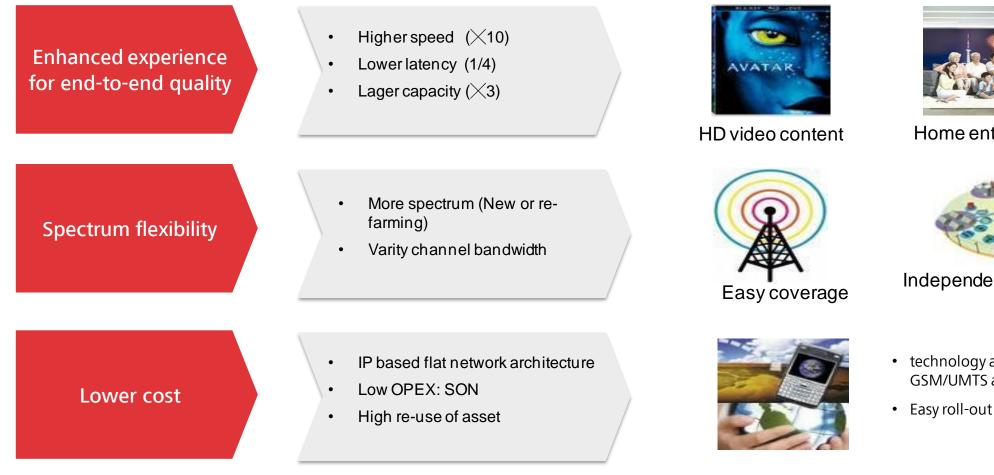
### 4<sup>th</sup> generation (4G) FDD / TDD Long Term Evolution (LTE) roadmap



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### 4G LTE brought both technology and competitiveness advantage for telecom services





Home entertainment solution



Independent network (e.g M2M)

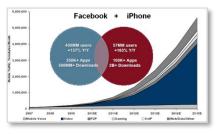
 technology adopted by both GSM/UMTS and EVDO worlds

• Easy roll-out network



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#### Data consumption increasing, device innovation, seamless user experience and market competition are main drivers of LTE development

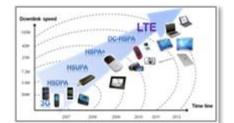


Data consumption will increase 40 times in next 5 years

GSA forecasts 144

by end of 2012

commercial LTE network



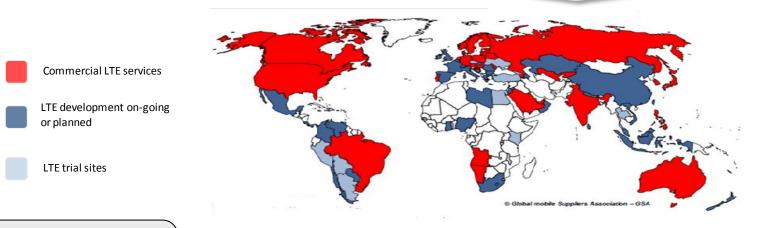
Innovated big screen device bring 10X traffic



Customer demand seamless broadband experience

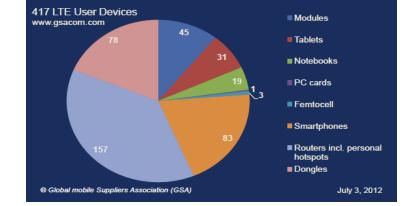


Mobile broadband market competition



Total 327 operators in 99 countries are investing in LTE

- 267 commercial LTE network commitments in 86 countries,
- 60 pre-commitment trial in additional 13 countries
- 80 commercial LTE networks launched in 38 countries



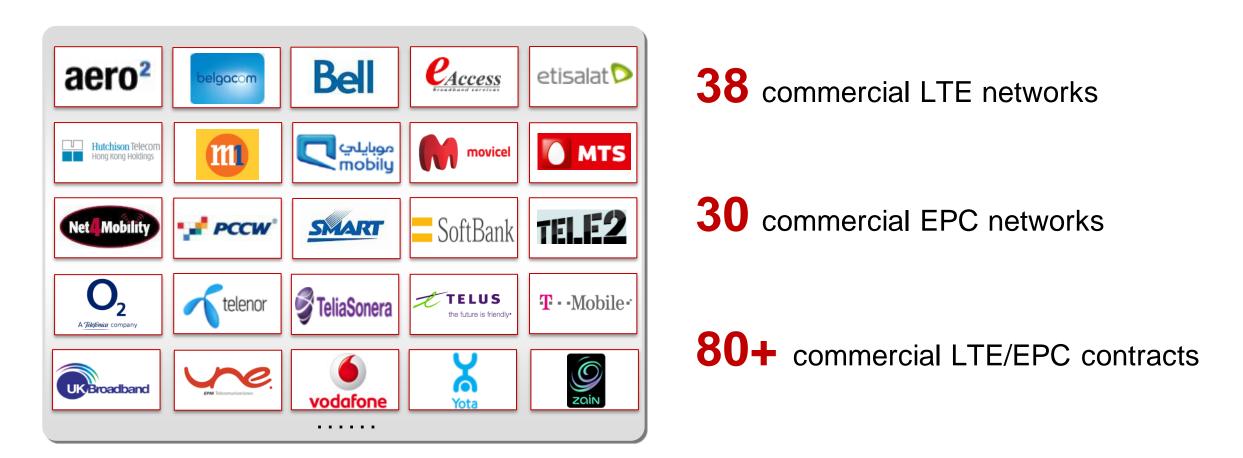
LTE device development (417 from 67 manufacturers)





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### Leading Global LTE/EPC Markets



### Huawei LTE Networks Provide Coverage to 135 Million People



### Industry Recognition of Huawei's LTE Leadership

#### 2012 GTB Innovation Awards



#### World's Largest & Fastest LTE TDD Network



(Sole vendor in Tokyo, Osaka & Nagoya)

#### 2012 LTE World Awards



Most Significant Development for Commercial LTE Networks



Best LTE Core Network Element

#### 2011 LTE World Awards



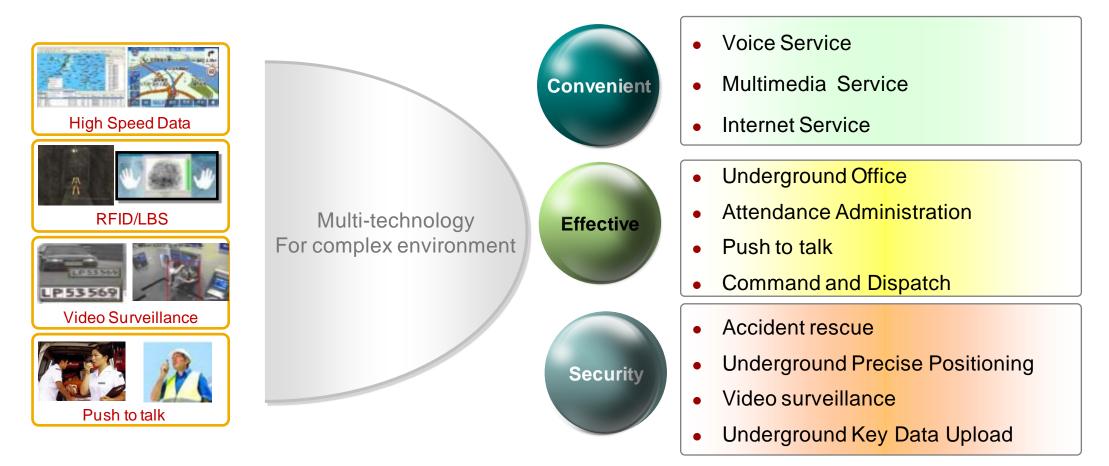
Significant Progress for a Commercial Launch of LTE by a Vendor



Best LTE Network Elements (SingleRAN BTS3900L)



# Huawei's Energy Network Platform opens for all innovated business cooperation



#### Different technology, Different Service, Unified Solution, for Different Scenery





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