Web OS Opportunities and Challenges in China

Robert Wang Project Manager of China Mobile

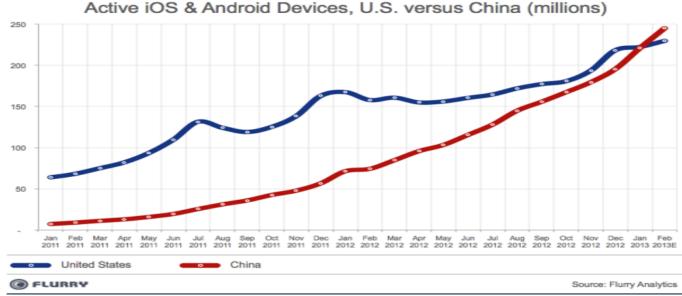
TIZEN

2013 SAN FRANCISCO

- Overview China Smartphone market
- What is driving China Smartphone market
- Tizen's Opportunities and Challenges in China
- Tizen Ecosystem Consideration
- Q&A



China is the world's largest handset and Smartphone market by volume, as well as the second-largest market by value.



- By February 2013, China have 246 million Smartphone devices compared to 230 million in U.S
- U.S. will not take back the lead from China for vast difference in population



1.15 Billion mobile phone user, still growing up

- By the End of Q1 2013, Mobile Phone user has reached 1.15 billion in China
 - 2G user: 870 million
 - 3G user: 280 million
- Mobile Phone user still growing up
 - During Q1 2013, mobile phone user increased 34.9 million
 - 3G user has became the mainstream
 - a) China Mobile 3G user's incremental grew 28%, 2G user's incremental negative growth 8%
 - b) China Unicom 3G user's incremental grew17 %, 2G user negative growth 44%
 - b) China Telecom 3G user's incremental fell 6%, but above the average of last year, 2G user negative growth 27%

Data source: Operators quarterly report



In China, Smartphone market is growing rapidly

- China Smartphone market is growing rapidly
 - In March, China market sales 26 Million Smartphone, increased 41.9% than the same period last year
 - a) Android have 91% (increase 0.5%) market
 - b) iOS have 5.9% (drop 0.4%) market
- JP Morgan reported the high-end Smartphone market is saturating, first-time buyer is reducing
 - By 2014, the global Smartphone growth rate will sharp decrease to 17% from 37% in 2013
 - Then most of Smartphone buyer will come from emerging markets
 like China
 Data source: Operators quarterly report

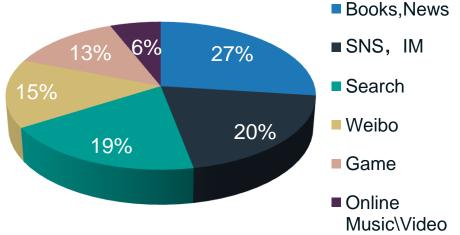


China Smartphone user's preference

 27% user use Smartphone read books and news

China Smartphone user's preference

- 20% user use Smartphone access SNS and chat using IM
- 31% user use Smartphone 2-3 hours, except for phone call time; and 22% user use 3-5 hours.

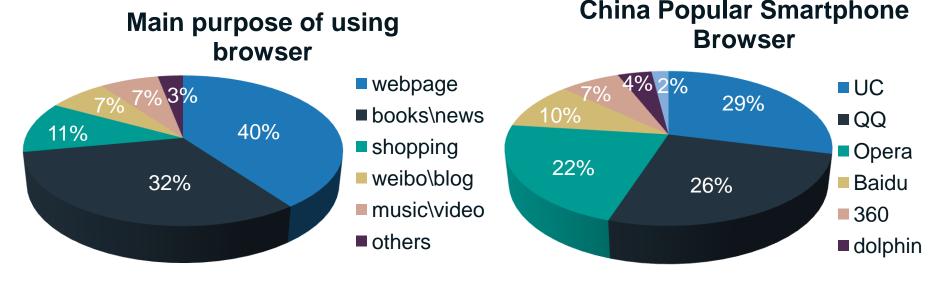


The big screen Smartphone is becoming more and more popular in China, And they are pay more attention on the sustainable use time.

Data source: Hexun



China Smartphone user's browser preference

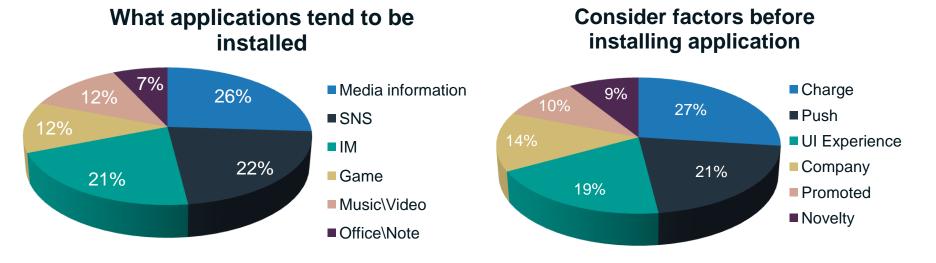


- Access webpage and read books\news are the main purposes. And mobile shopping is becoming more and more popular.
- UC, QQ and Opera covering 77% of browsers market share

Data source: Hexun



China Smartphone user's App preference



- Top three categories apps are Media information, SNS and instant messenger
- Top three factors to consideration: Charge , Push and UI Experience

Data source: Hexun

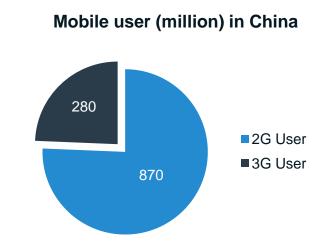


- Overview China Smartphone market
- What is driving China Smartphone market
- Tizen's Opportunities and Challenges in China
- Tizen Ecosystem Consideration
- Q&A



3G drives Smartphone replace feature phone

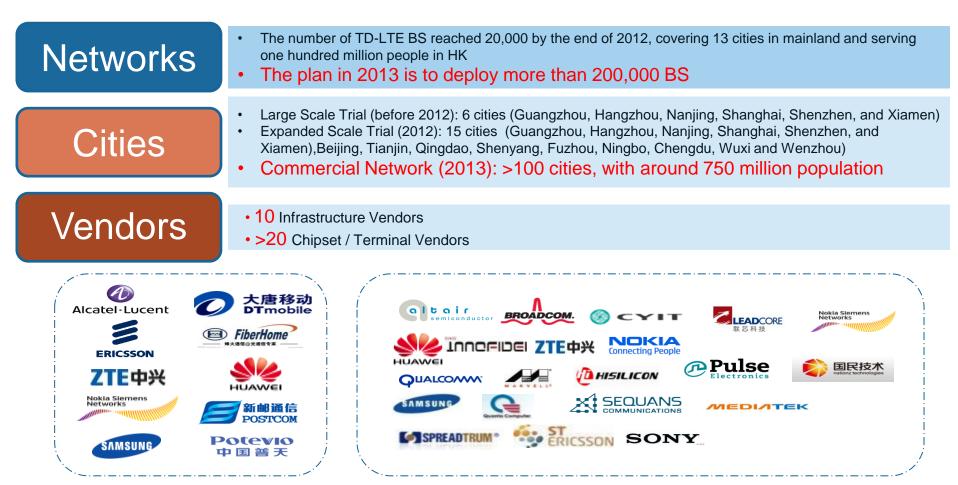
- Q1 2013, China 3G user rapidly increasing :
 - China Mobile : increase 16 million
 - China Unicom: increase 11.4 million
 - China Telcom: increase 741 million
- 870 million 2G user is moving to 3G
 - High speed network drive
 - Mobile internet\application\game drive
 - Current 3G user only 280 million



Data source: Operators quarterly report



TD-LTE will drive the second wave



China Operators are leading 2G user to 3G

- 1000RMB Smartphone plan
 - High subsidies reach up to 50%
 - Local terminal manufacturers have 30s devices, include Huawei, Coolpad, Lenovo, ZTE etc
 - International terminal manufacturers have joined, include Samsung, Moto, Nokia etc

Operator	Brand	Mode	Price	OS
China Telcom	Huawei	C8813	900¥	Android
China Mobile	Samsung	GT-S7568	1199¥	Android
China Mobile	Lenovo	A278T	350 ¥	Android
China Mobile	Lenovo	A288T	350 ¥	Android

4 Typical 1000RMB Smartphone

Data source: Third party



- Overview China Smartphone market
- What is driving China Smartphone market
- Tizen's Opportunities and Challenges in China
- Tizen Ecosystem Consideration
- Q&A



Tizen's Opportunities in China

Opportunities

- The World's biggest Smartphone market, 870 million 2G user waiting to buy 3G/4G Smartphone
- 11.28 million first-time buyer per month
- Operator is open and would like to see the multiple OS in market
- Cost effective device is welcomed by the market



Tizen's Challenges in China

- Android and iOS already have 97% Smartphone market share
 - Android also open source and free, even if it's controlled by Google
 - Android has covered the low to high end Smartphone
 - App Store and Ecosystem are Tizen's weakness
- Terminal Manufactory Brands
 - International brands: rising the profile
 - Local brands: cover more market share



- Overview China Smartphone market
- What is driving China Smartphone market
- Tizen's Opportunities and Challenges in China
- Tizen Ecosystem Consideration
- Q&A



Two issues should be considered for Tizen Ecosystem

- How to develop Web Apps Fast and Easily?
 - HTML5 standard compromise
 - Web Application portability between OSs and Browsers
 - Web Apps development tools
- How to delivery Web Apps to end user in low cost?
 - Web page apps VS Installable apps
 - URL VS App Store







Thanks

Email: wangyonghuiyj@chinamobile.com



TIZEN DEVELOPER CONFERENCE 2013 SAN FRANCISCO