



# **Role of CAICT in promoting ICT research, stakeholder cooperation and capacity building**

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## Role in ICT field

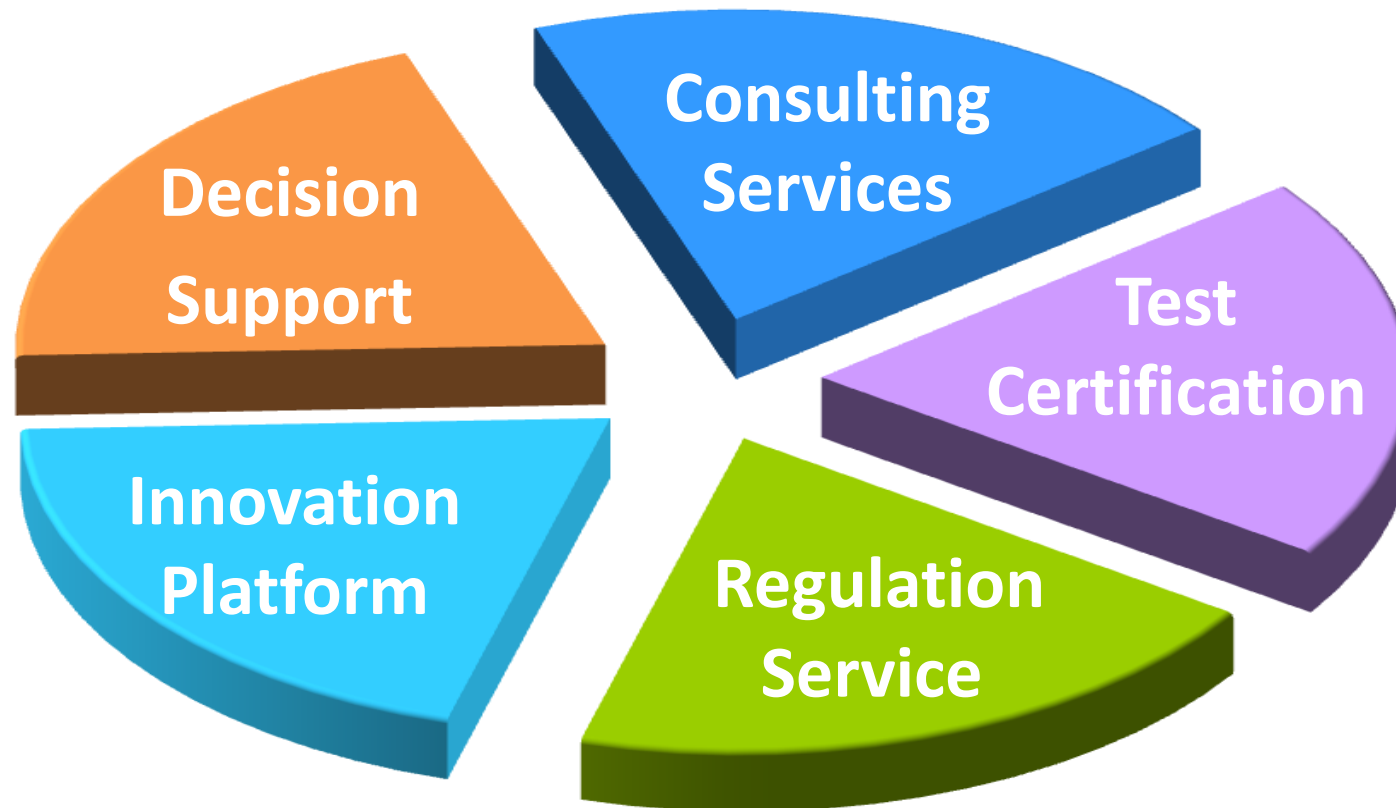


### the Think-tank for government & the Platform for Industry

- CAICT focus on ICT policy, planning and technology research
- Special role in both domestic and international standardization, many experts attend the activities in international ICT organizations, such as ITU
- Designed conformity assessment in test and certification
- Comprehensive consulting institution in ICT market
- CAICT is one of Think-tank of China in ICT field



# Areas of Research - 5 Core Business Areas



# 1. Support the Introduction of Major Policies



## • In Telecommunication Field

- “Guidance on accelerating the construction of high speed broadband network and promoting the speed & drop charge of network” (the General Office of State Council,2015.5)

## • In Internet Field

- “Views on promoting innovation of Cloud computing and development the new normal of information industry” (the State Council,2015.1)
- “Action outline on promoting the development of big data”(the State Council,2015.8)

## • In Informatization Field

- “Guidance on promoting the ‘Internet +’ action actively ” (the Sate Council,2015.7)
- “Opinions from the State Council for some policies and measures on promoting innovation and public entrepreneurship” (the Sate Council,2015.6)

## • In Convergence of Informatization & Industrialization Field

- “Made in China 2025” (the Sate Council,2015.5)

## 2. Strengthen the research of ICT Standard



- Job for domestic standards:
  - In 2015, the total standards issued by MIIT was 351, 145 were from CAICT, more than 41%. Such as
    - Telecom and Internet Service: Technology Requirements of Users' Personal Information Protection
    - Technical Requirements and Test Methods for Mobile Resale Business Management Platform
- Work on international standards:
  - In 2015, more than 400 person-time from CAICT attended international standard organization activities.

### 3. Accelerate the Construction of Industry Platform



- Organize the research and development of 5G and international cooperation
- Organize 4G interoperability testing and service fieldtrip experiment
- Build a public service platform for mobile internet and intelligent terminal
- Start to construct a big data platform for industry
- Run Innovation laboratory of the integration of internet and industry
- Run a management platform of Internet information security
- Run a platform for monitoring the quality of the broadband network

## 4. Provide Testing and Certification Services



- More than 1000 Engineers,
- About 3 billions properties of test instrument,
- Test for both Chinese and abroad market
- Assistant to issue domestic and abroad licenses
- Assistant to hand out Chinese NAL Labels
- National Engineering Laboratory for New Generation Mobile Communications Testing and Verification
- National Quality Supervision and Inspection Center for Internet of Things Communication Products
- National Telecommunication Metrology Station
- China Telecommunication Technology Labs (CTTL)
- Electro Magnetic Compatibility (EMC) Lab
- MTNet (Mobile Communication Trial Simulation Network)
- RTNet (Fixed Telecommunication Trial Simulation Network)
- TD/LTE Test Environment

# Some Domestic Mobile Phone Statistic Data



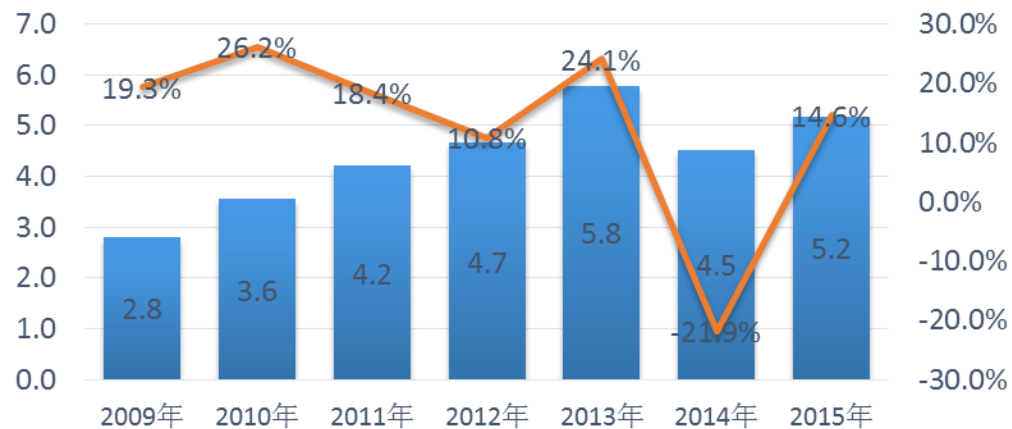
- In 2015, shipment is 518million, Year-on-year growth is 14.6%;
- 2016.1-4, shipment is 159millions, growth compared to the same period last year is 9.0%.

## 1、 Domestic market shipments

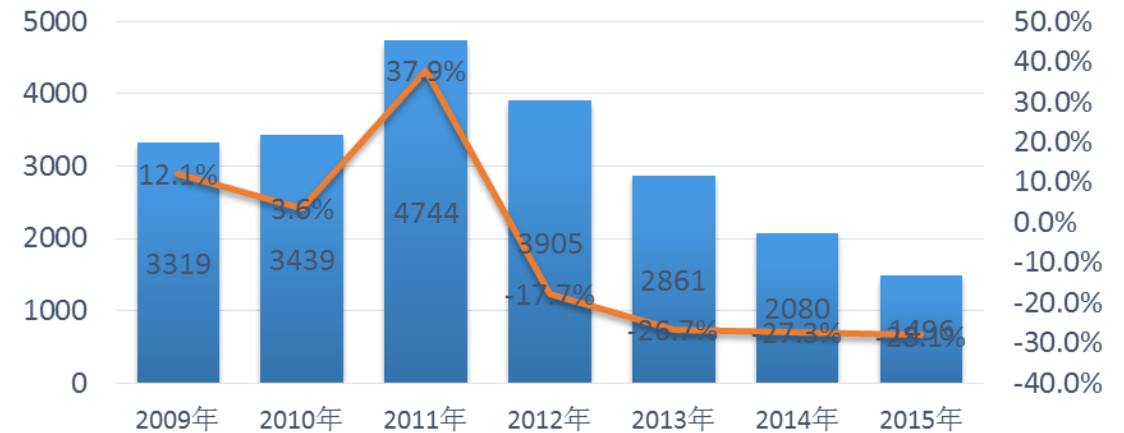
## 2、 Domestic market new types

- In 2015, new types are 1496, year-on-year fall is 28.1%;
- 2016.1-4, new products type are 508, growth compared to the same period last year is 1.0%.

Domestic market shipments  
(unit:100 millions)



New products in the domestic market  
(type)



shipment Growth rate

shipment Growth rate

Note: Data based on Chinese domestic market statistics



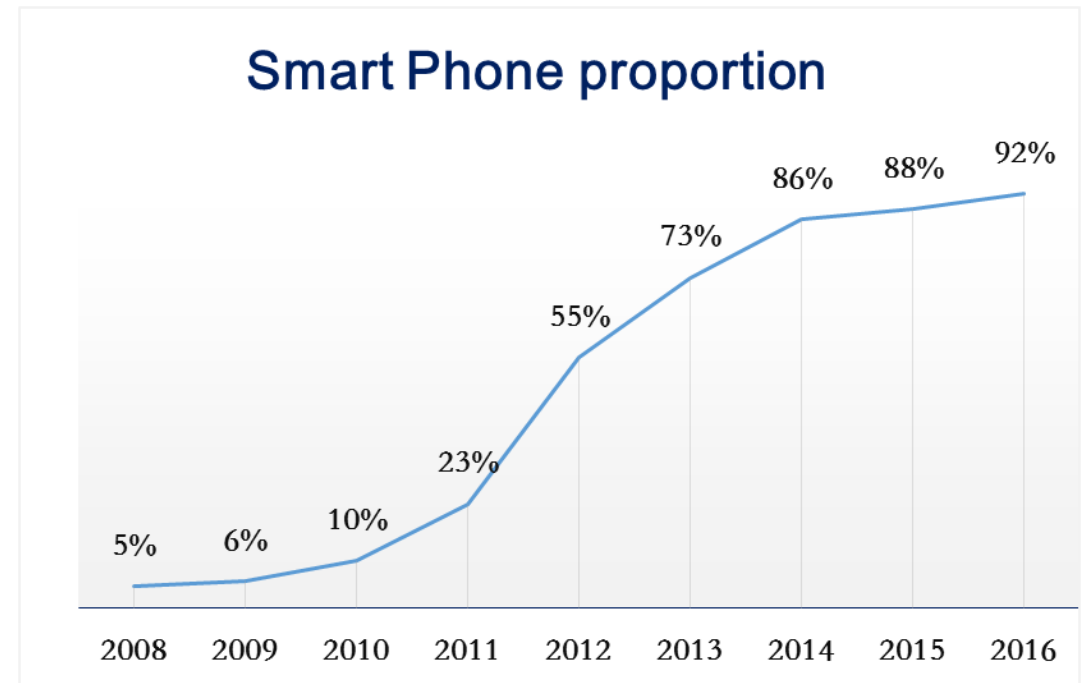
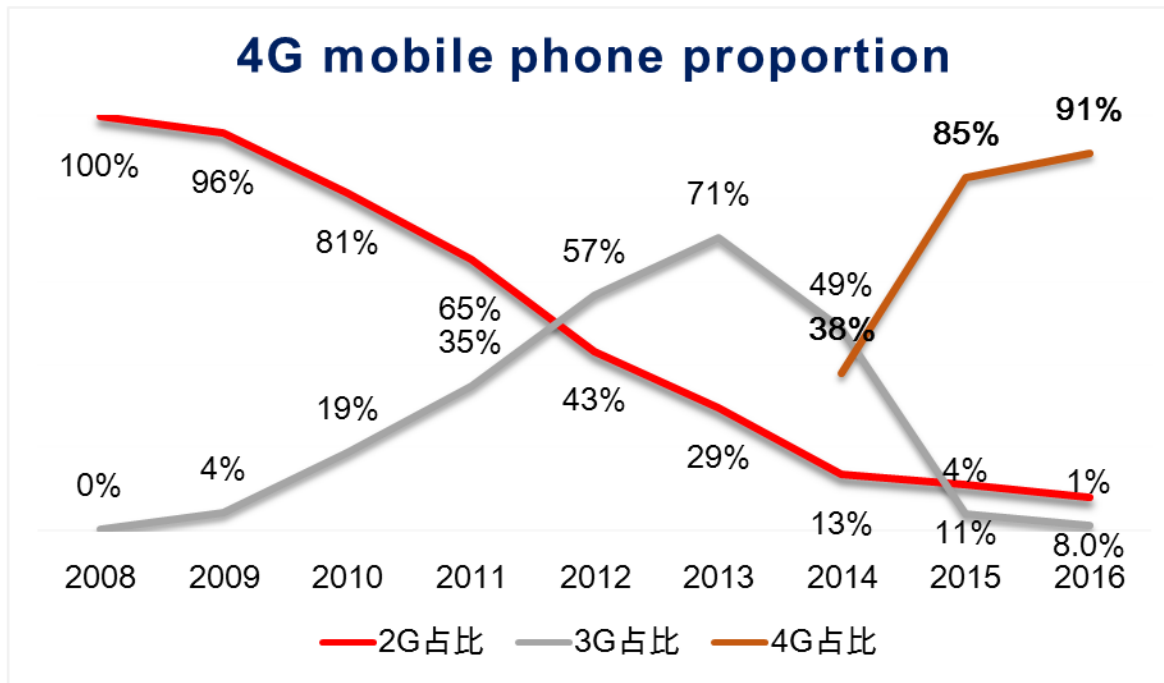
# 2

## The Trend of 4G Mobil Phone



□ In 2015, the shipment of 4G mobile phone is 440 millions, the year-on-year growth is 157.0%, the proportion is 85.0% of total mobile phone shipments. Now the market of 4G mobile phone is almost replaced 3G mobile phone within two years.

□ In 2015, the shipment of smart phone in Chinese domestic market is 457 millions, the growth is 17.7%, the proportion is 88.3%.



Note: For Statistic data in 2016, as the end of April, 2016

# Cooperation with International Organizations



- Cooperation with ITU
  - More than 100 experts from CAICT attend the ITU activities, including ITU-T, ITU-R, ITU-D. They work in study group, attend expert group or working groups, promoting the standardization and projects and make their contributions for ITU.
  - CAICT also cooperation with ITU in many other issues, such as holding Research Forum in popular topic in ICT field.
- Collaboration with other organizations
  - The standard organizations: ETSI, 3GPP, IETF, OMA, ONEM2M, W3C, IEEE, IIC, BBF etc.
  - The global/regional associations: GCF, CCF, PTCRB, CTIA, Bluetooth (SIG), NFC, Wi-Fi, WiMAX etc.
  - Designated/listed conformity assessment body by the government: FCC(US), IC(Canada), NTRA(Egypt), PTA(Pakistan)
  - Business With association/companies: JATE(Japan), TUV, VDE(Germany), Nemko(Norway), BABT(British) etc.

- CAICT applied to be ITU APR C&I CoE in 2014



# ITU C&I Training Course—2015



- **First year training activity focus on :**
  - Development and implementation of Conformity Assessment Programme
  - Conformity Assessment Principles
  - Global and Chinese Certification System
  - PTN (Packet Transport Network) Interoperability Test——ITU-T G.8113.1OAM
  - Mobile Terminal Testing





# ITU C&I Training Course - 2016



- **Second year training activity focus on:**

- Online Training (April 25- May 20, 2016)
  - C&I
  - EMC
  - PTN
  - Mobile terminal testing
- 90 participants all around the world

- Face to Face Training (Oct. 17-21, 2016, Chongqing, China)
  - C&I Brief
  - IMS
  - 4G-LTE
  - Hands on testing



## Suggestion to ITU C&I Programme

- It is noted that the improvement of interconnection of network all over the world becomes an important target within the scope of C&I project.
- In this regard, ITU should take effect measures to promote C&I.
- It proposed to update Resolution 76 of the WTSA2012 “Studies related to conformance and interoperability testing, assistance to developing countries, and a possible future ITU Mark programme” in following aspects:
  - To extend the scope of C&I to interconnection of global network, especially for emerging technology;
  - To improve the analysis and sharing mechanism for result of conformance and interoperability testing in different area;
  - To enhance the responsibility of each participants in order to increase the efficiency of the progress of C&I.

# Some CAICT's Focus Points of ICT Industry in 2016



- 5G
  - Technical trial,
  - International standards, etc.
- Broadband Network
  - Personal information protection,
  - Security assessment for new technology and new service, etc.
- Internet
  - Network and information security,
  - Open public information resources, etc.
- Industry Internet
  - Internet of things,
  - Internet of Vehicles,
  - Smart Devices, etc.



**Thank you !**

<http://www.caict.ac.cn>

