

Developments of mobile broadband and Anritsu's contributions

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Agenda

1. Market trends and challenges
 2. T&M solutions
 3. Course of action for T&M business
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1-1. Developments of Mobile Broadband

by interaction between technology and services in expansion

Technology progress

LTE Advanced

LTE
WiMAX

WLAN
3.5G

3G

2.5G

2G



Increase
of data traffics

Service expansion

Medical
Transportation
Energy
Environment
Movies
Education

Video streaming
SNS
Music/Game
Photo
Shopping

Short message
Voice

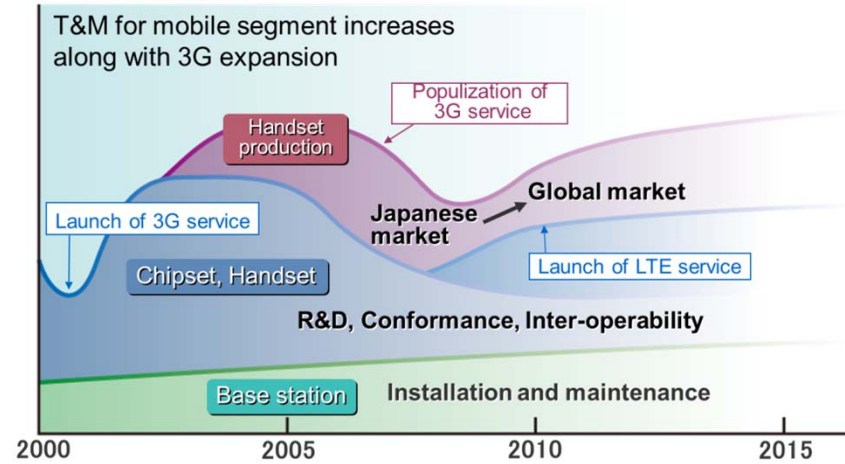
1-1. Short-term challenges and our contributions

Challenges -1	High capacity and speed-up access systems
Contribution	R&D of LTE
Challenges -2	Data offloading
Contribution	R&D and manufacturing of non-Cellular devices
Challenges -3	Acceleration of speed-up network systems (wired and wireless) Early introduction of next generation new technologies
Contribution	R&D, manufacturing, installation&maintenance of base stations R&D and manufacturing of devices for high-speed comm. (towards All-IP, 40Gbps, 100Gbps, etc.)
Challenges -4	Reduction of network problems
Contribution	Service assurance

2-1. LTE



Smartphones
Chip-sets
Tablets



For R&D

LTE: Introduction started in all over the world

LTE R&D

Interoperability test

Test for services / communication functions

For Manufacturing

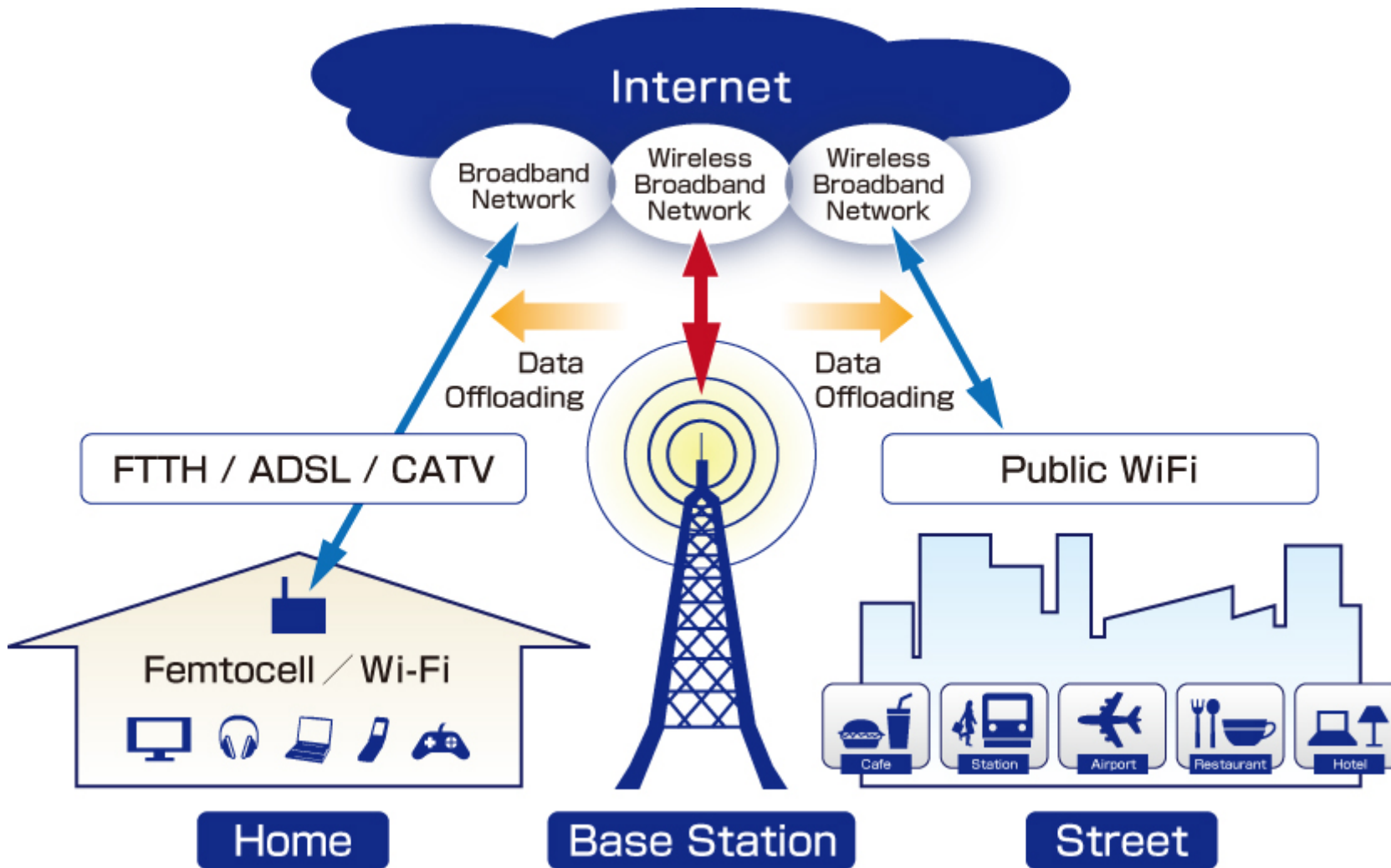
3G: prevailing and expanding globally

LTE, 3G including TD-SCDMA and 2G responding to all above systems

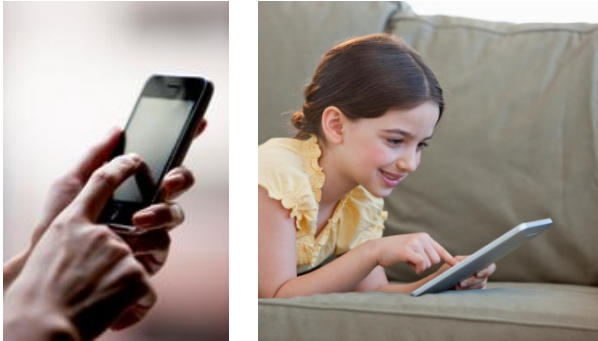
For Maintenance

Primary failure diagnosis of W-CDMA, GSM

2-2. Non-Cellular devices (data offloading)



2-2. Non-Cellular devices (WiFi, Bluetooth etc.)



Demands increase along with developments such as data offloading

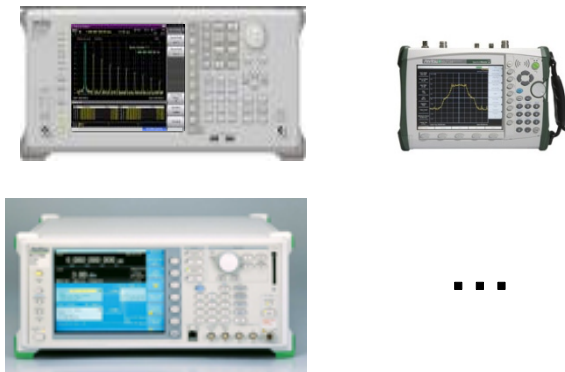
Shipments of WLAN: 1 B units in 2011, 2 B units by 2015

Progression of integration into single chip in various systems

Demands for new T&M solutions

T&M demands from semiconductor vendors and chip-set makers
(Clients: R&D and Manufacturing phase)

For R&D and Manufacturing

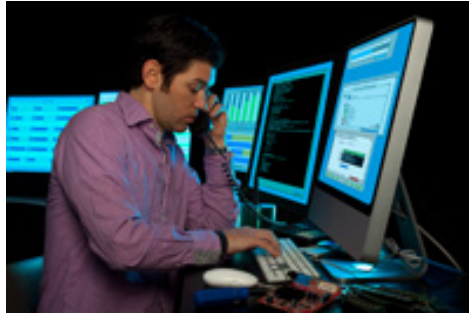


We are expanding our product lineups
Spectrum Analyzer, Signal Generator

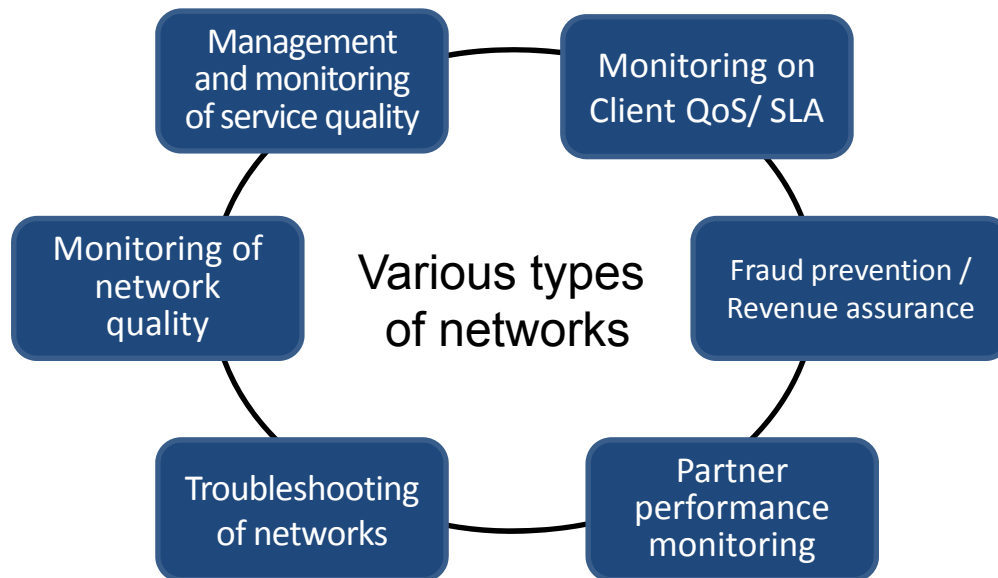
Our efforts

Expanding T&M solutions which can respond on
Cellular (2G/ 3G/ LTE) and
Non-Cellular systems
→ Expanding market shares

2-3. Quality of Network



Increase in demands of monitoring quality and performances as well as troubleshooting from telecommunications carriers



Our efforts

Cultivating businesses with existing clients and expansion in Asia, Central and South America by new services

3-1. Course of action for T&M Business

Users

The world where services and applications are always available (man to man, machine to machine, man to machine,....)



Operators/Vendors

Securing high quality network environment, providing attractive terminals and services



Anritsu



Quality assurance of networks and services in “End-to-End”
Corresponding to applications and evolution of technology

Competitive advantages

- Technology: wired and wireless, several layers in network/protocol
- Global operation
- Close relationship with customers

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