

# Carrier Network Business Growth Strategy

July 8, 2010

Carrier Network Business Unit

Executive Vice President and Member of the Board

Junji Yasui

To be a leading global company  
leveraging the power of innovation  
to realize an information society  
friendly to humans and the earth

**NEC Group Vision 2017**

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## 1. Business overview

2. Mid-term business environment

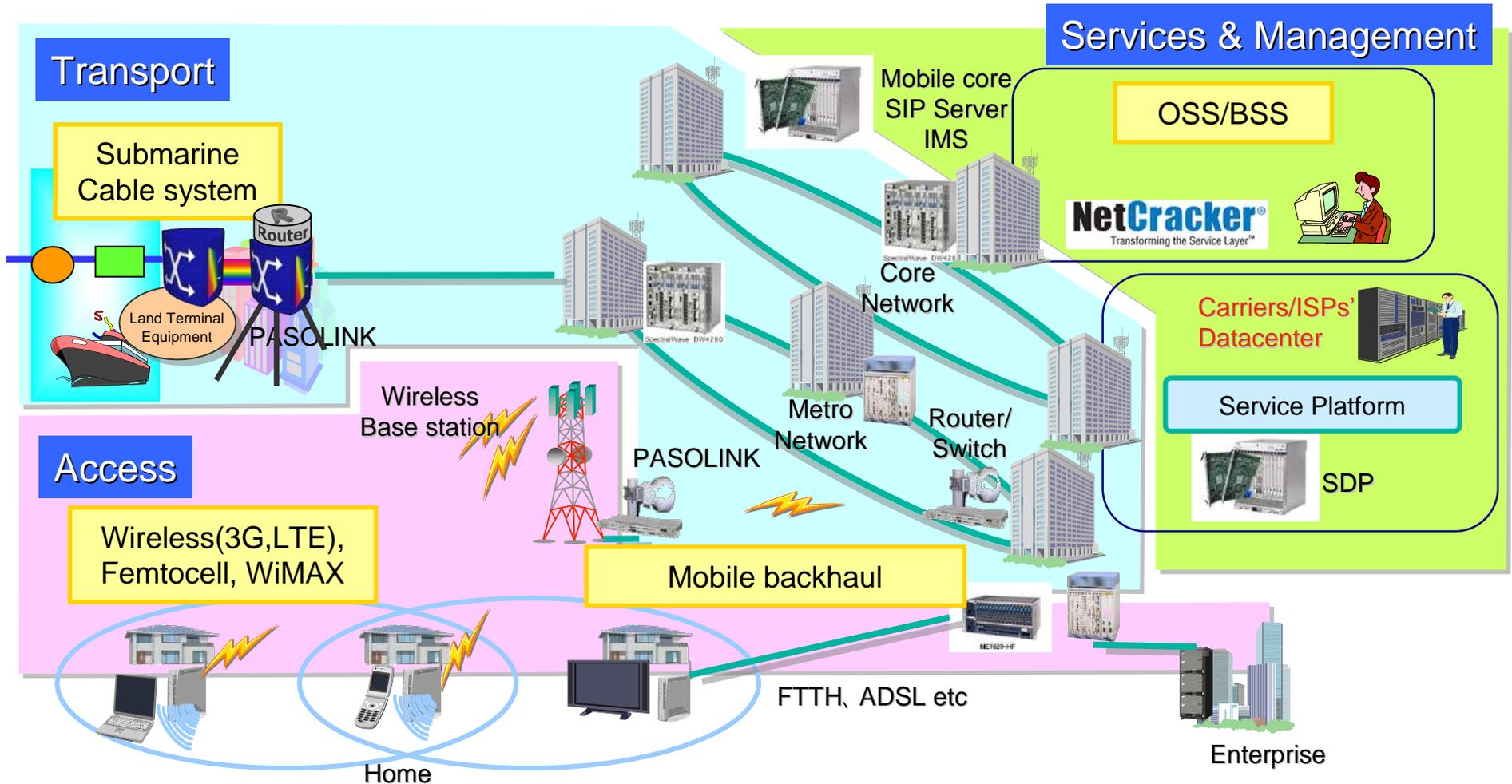
3. Key business strategy

4. Measures to enhance global competitiveness

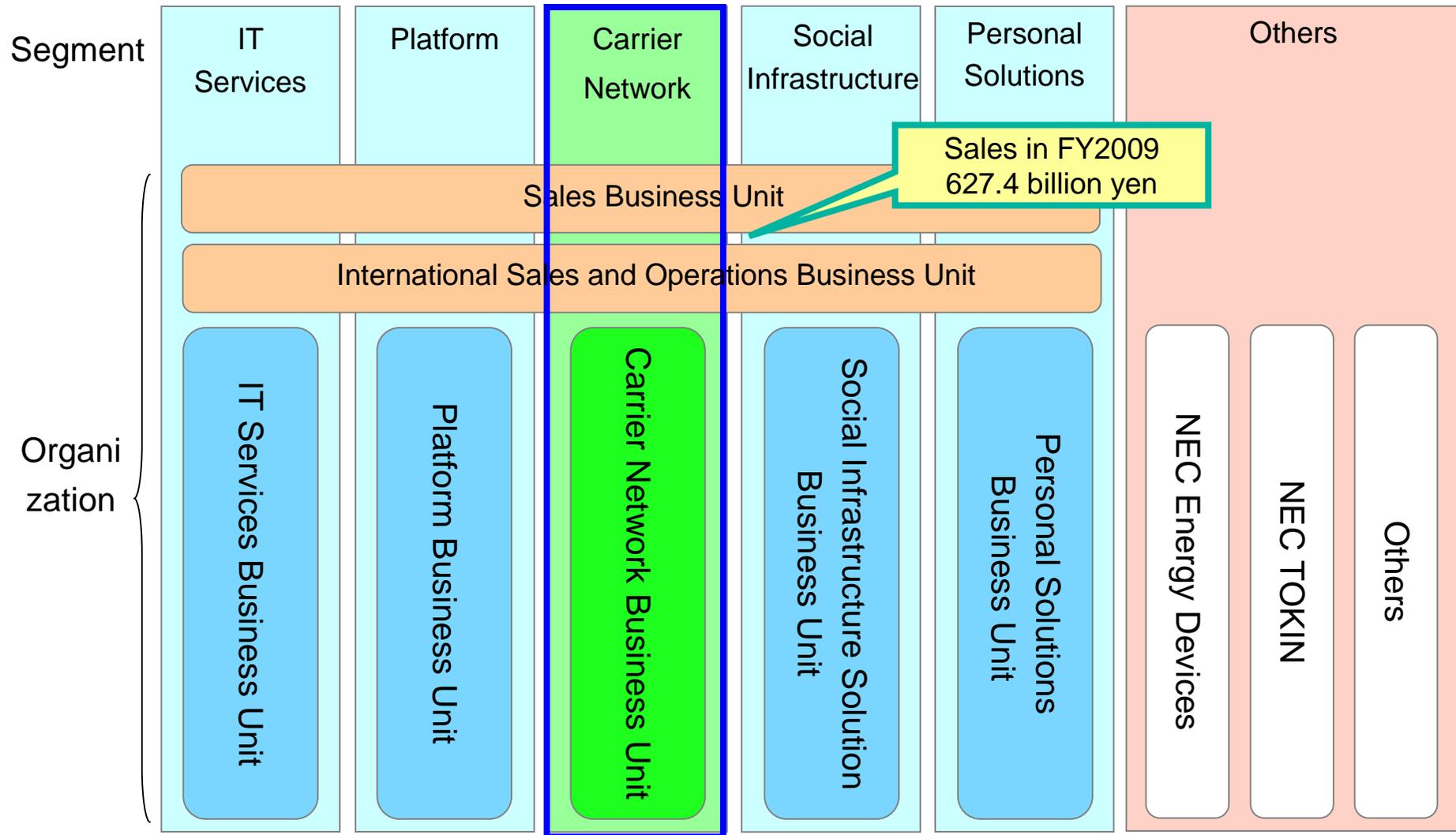
5. Toward achieving V2012

# Business Domain

Provide products/systems/services as a business partner and support the transformation of carrier services

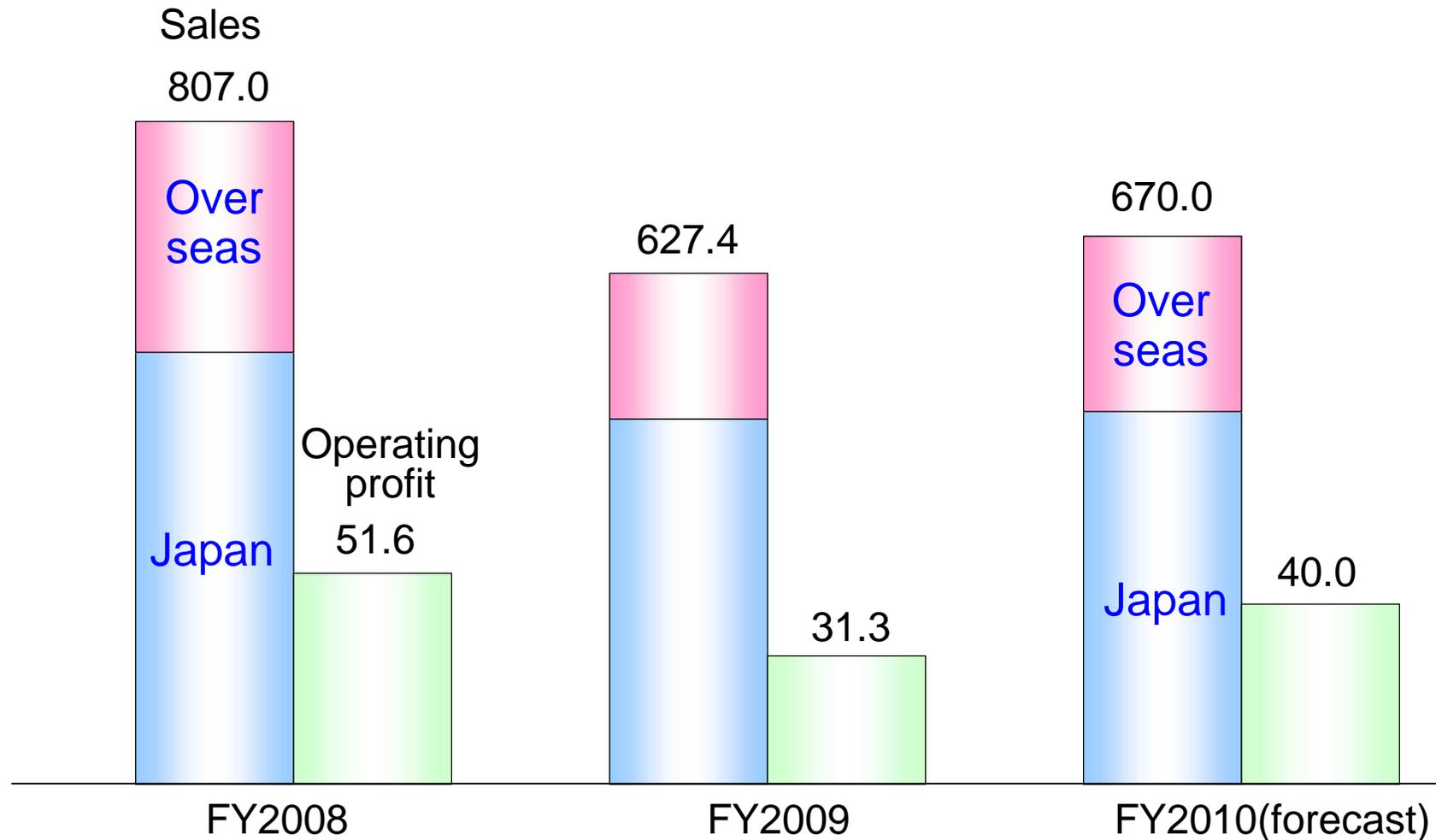


# Business Organization



# Sales and Operating Profit of Carrier Network Business

(Billions of Yen)



\* Forecast as of July 8, 2010

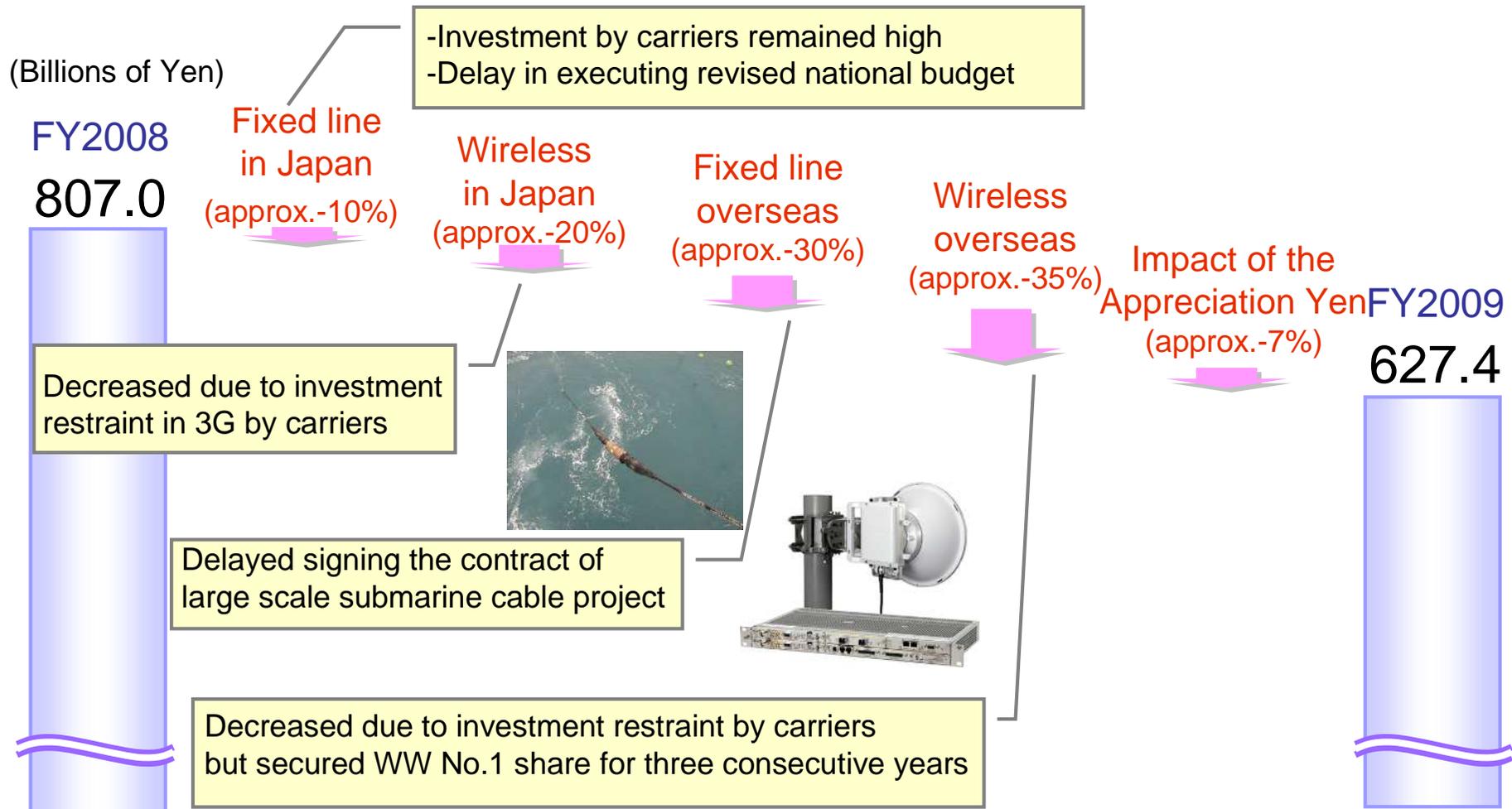
# Market Environment and NEC's Business Situation

	FY2009	FY2010
Market environment	<ul style="list-style-type: none"> <li>● Market shrinkage due to the slowdown of world economy (-10~-15%)</li> <li>● Continued shakeout of vendors and the rise of Chinese vendors</li> <li>● Investment restraint by Japanese carriers</li> </ul>	<ul style="list-style-type: none"> <li>● Recovery of world market (Approx.+5%)                             <ul style="list-style-type: none"> <li>· Growth in emerging market</li> <li>· Data traffic increase by the widespread use of smart phones</li> </ul> </li> <li>● Continued investment restraint by Japanese carrier                             <ul style="list-style-type: none"> <li>· Total investment will decrease while carrier will begin to invest in LTE</li> </ul> </li> </ul>
NEC's business situation	<ul style="list-style-type: none"> <li>● Significant sales decrease (approx.-20%)                             <ul style="list-style-type: none"> <li>· Decreased in wireless overseas, such as PASOLINK</li> <li>· Delayed in signing the contract of large scale project in submarine cable systems</li> <li>· Impact of the appreciation yen</li> </ul> </li> <li>● Lowered the breakeven point by enhancing selling expense and development investment efficiency</li> </ul>	<ul style="list-style-type: none"> <li>● Sales increase (approx.+7%)                             <ul style="list-style-type: none"> <li>· Launching new model of PASOLINK</li> <li>· sign the contract of large scale project in submarine cable systems</li> <li>· Sales increase in LTE/ WiMAX/ Femto</li> </ul> </li> <li>● Maintain a leaner cost structure                             <ul style="list-style-type: none"> <li>· increase profit by top-line growth</li> </ul> </li> </ul>

\* Forecast as of July 8, 2010

# Sales in FY2009

Japan: Investment in Fixed Line NGN remained high, while the Investment in 3G decreased  
 Overseas: Decreased due to investment restraint by carriers, delay of signing the contract of large scale project and the impact of the appreciation of the Yen

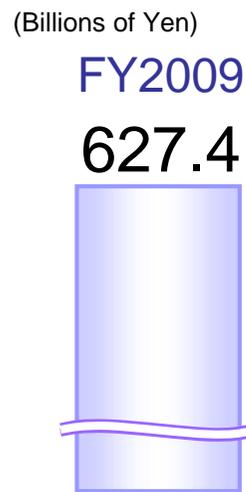


# Sales Forecast in FY2010

- Japan: Anticipate certain sales level while the investment in 3G decreased  
Anticipate demands of existing network migration
- Overseas: Recovery of submarine cable systems and investment in wireless broadband  
PASOLINK will expand compared with the last year due to increasing cellular subscriber in emerging market

- Submarine cable systems; APCN2 expansion etc.
- NetCracker; Expand the synergy business with NEC

Propose the service & management business to carriers and promote greater investment



- PASOLINK; Maintain and enhance our competitiveness by launching the new product. Approach to emerging markets
- Femtocell; Expand the business in Europe

- Expand next-generation wireless broadband (LTE, WiMAX)
- Promote greater investment from carriers through smart-phone demand

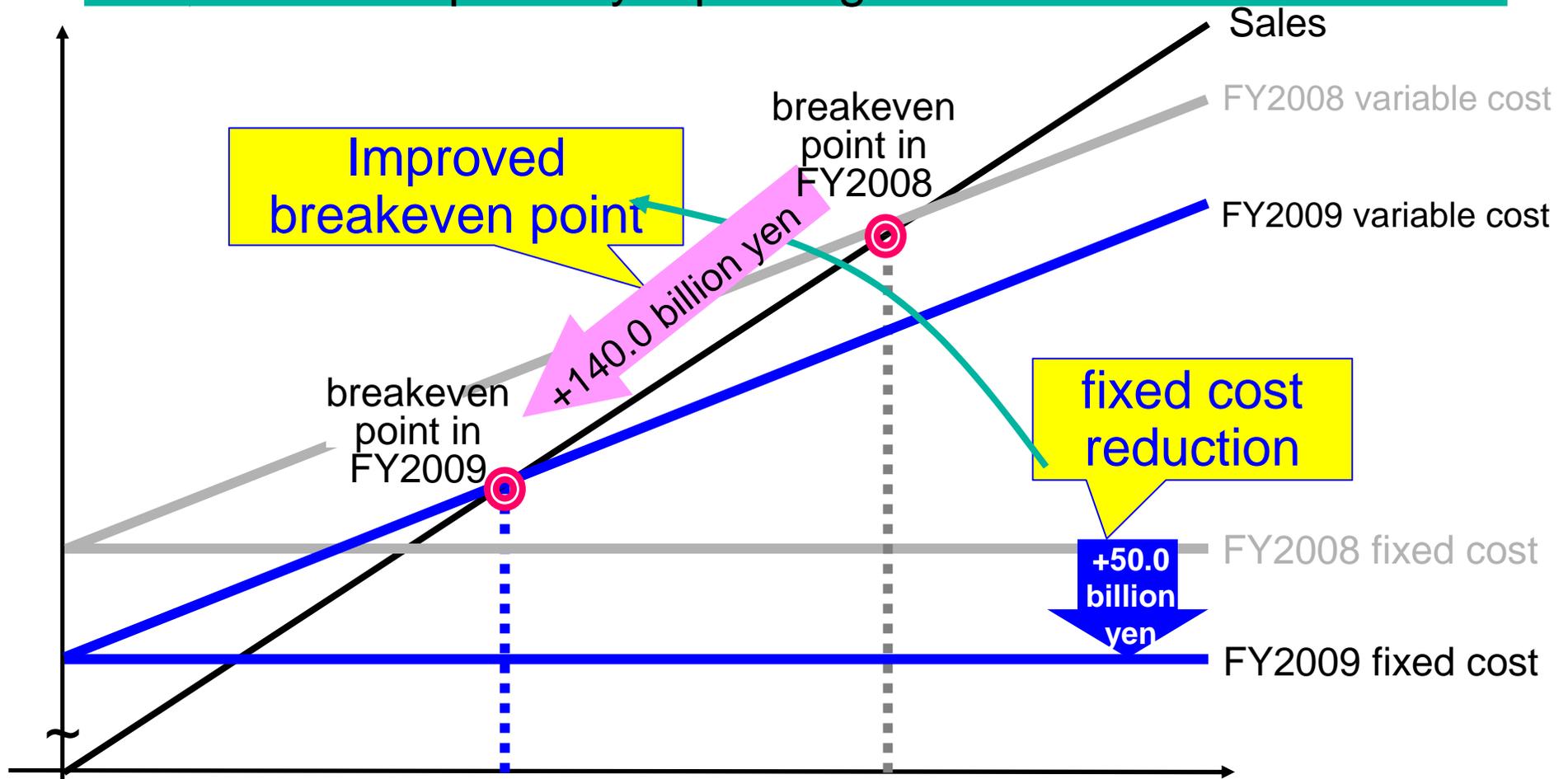


\* Forecast as of July 8, 2010

# Lowered Breakeven point

Improved breakeven point by enhancing SGA and development investment efficiency

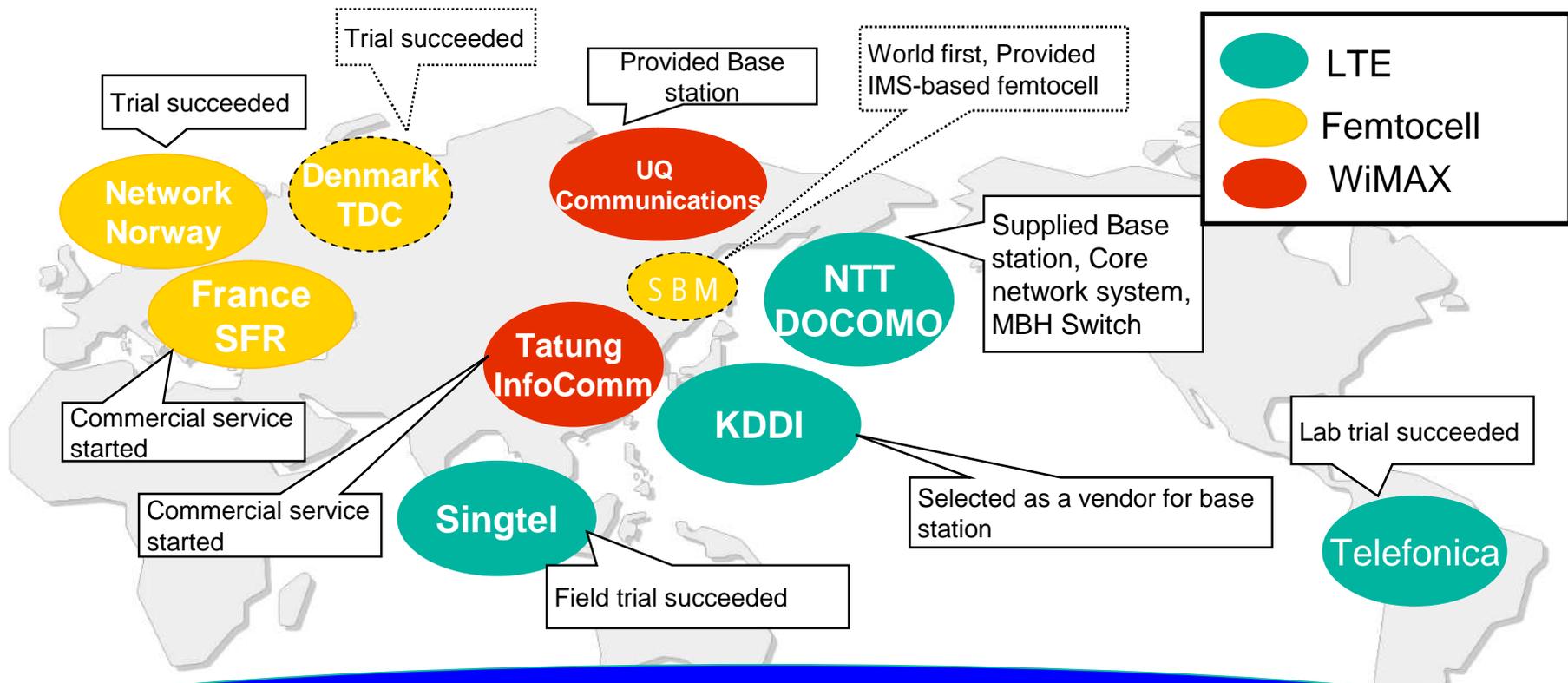
→ Increase profit by top-line growth



# Recent Achievements (1/3)

Steady progress of next-generation wireless broadband business

- Provide globally next-generation wireless broadband solution underlying cloud service

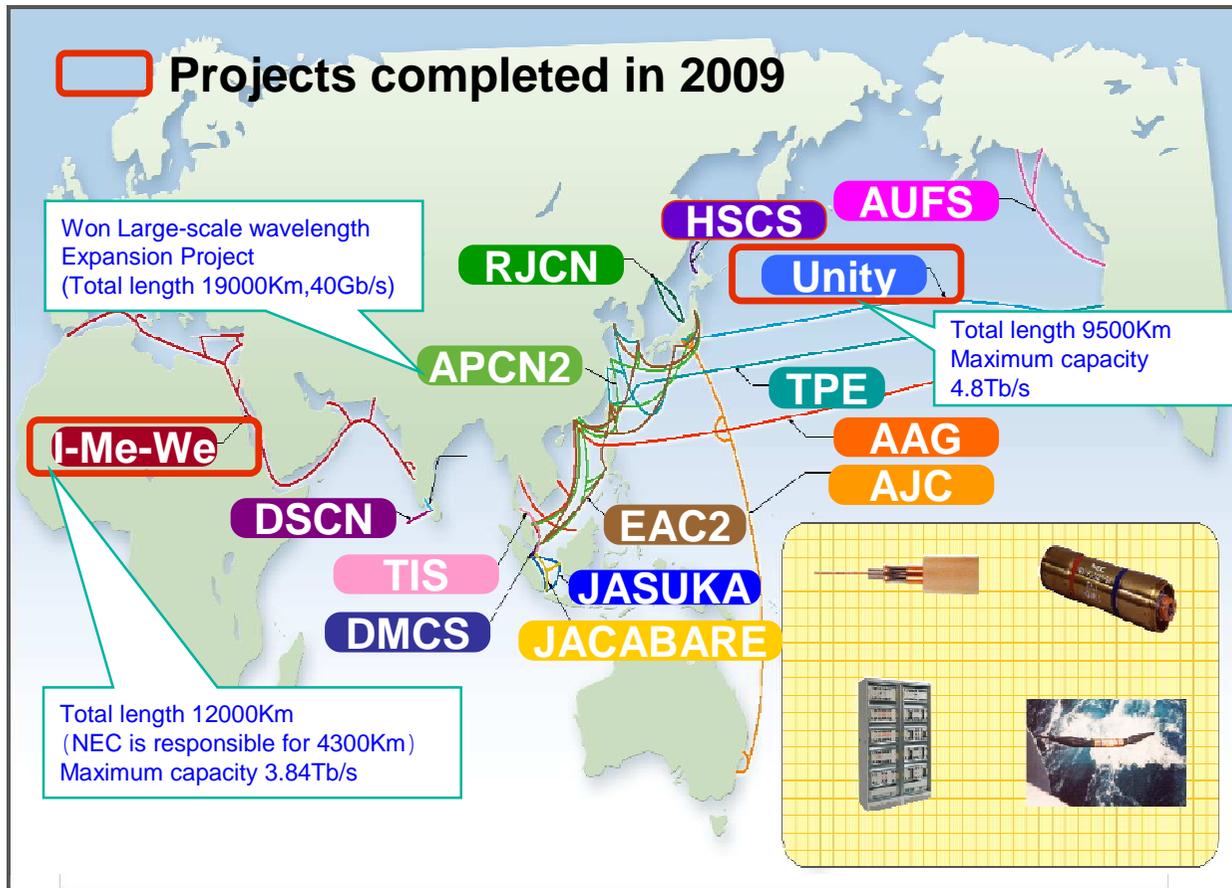


PASOLINK; Secured WW No.1 market share for 3 consecutive years

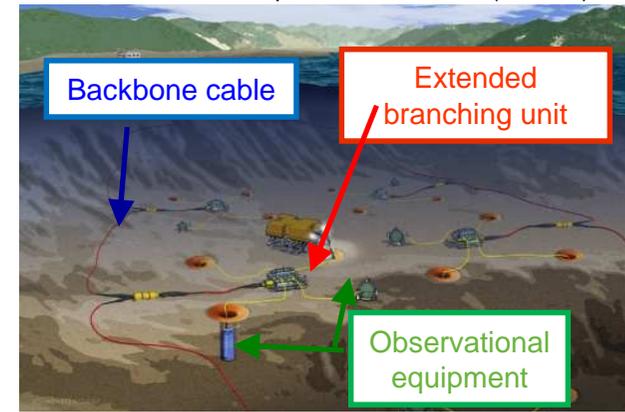
# Recent Achievements (2/3)

Completed two large-scale submarine cable system projects  
 Deployed domestic submarine earthquake observation system, also received first order from overseas market (Taiwan)

- NEC is the only supplier in Japan in the field of submarine system application



Started operation of submarine network observation system off the coast of Japan's Kii Peninsula (DONET)



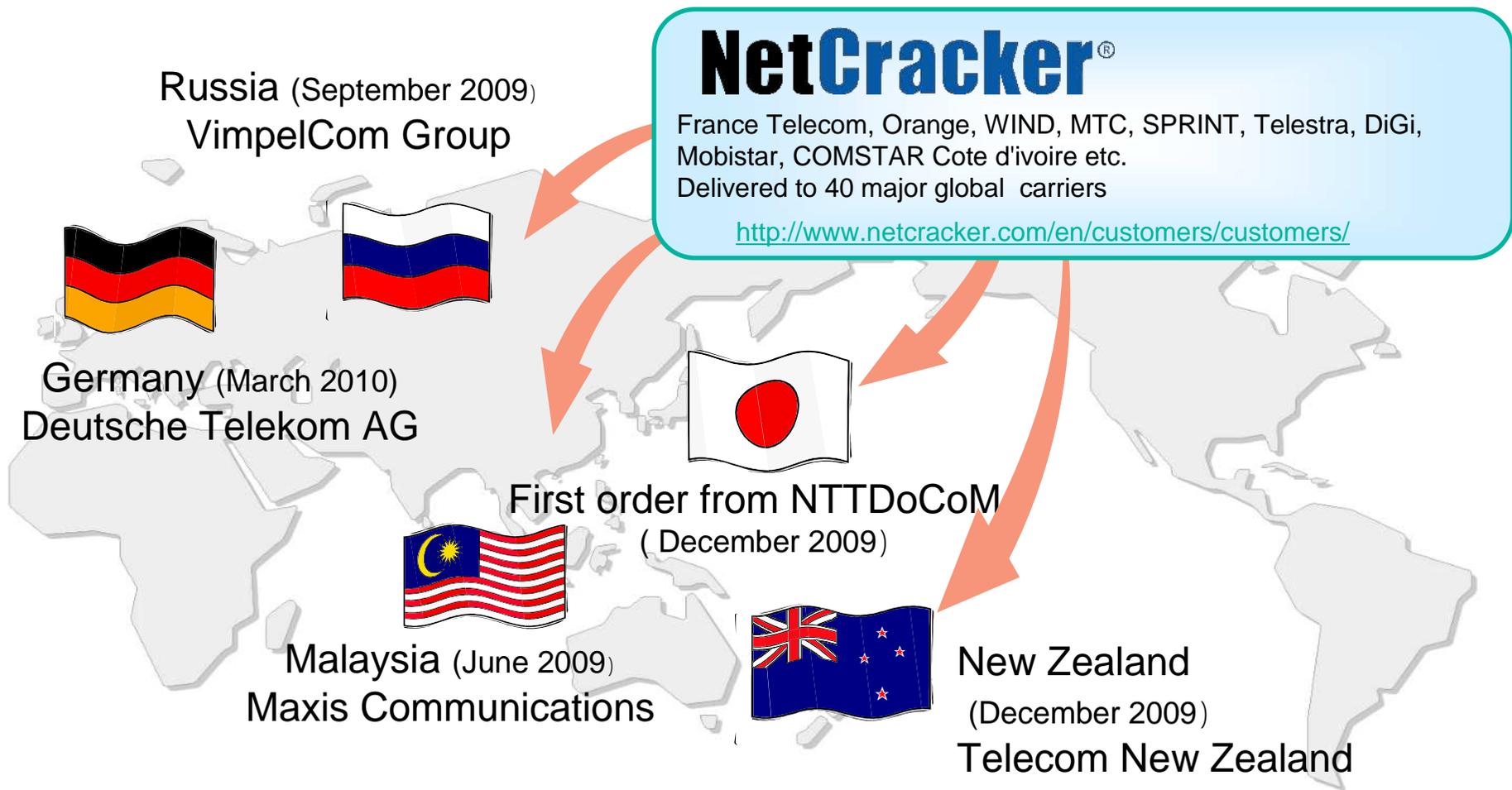
Submarine Seismograph System; First order from Taiwan Meteorological Agency



# Recent Achievements (3/3)

NetCracker expand platform implementation business for telecom carriers

- Won operations support systems from major Japanese and overseas carrier



# Our Strength

## High response capabilities in Japan's advanced broadband & mobile area

### Secure high market share by responding requirements from advanced customers

- NGN Related Products (IMS/SIP): Approx. 65% market share
- LTE: Delivered wireless base stations, core network system, MBH switch for NTT DoCoMo  
Selected as a wireless base station vendor for KDDI
- WiMAX: Delivered wireless base station for UQ Communications

## Global presence by providing high-reliable and high-quality products

### Provide products and technologies cultivated as a partner of domestic customers

- PASOLINK: WW No.1 share for three consecutive years/ Delivered to 141 countries
- LTE/WiMAX: The only domestic vendor which has a delivery and trial record for overseas carriers
- Submarine cable systems: Positioning world top 3 vendor as a total solution provider including submarine line terminal equipment, repeaters and cables

## Cloud solution capability utilized by the integration of IT and Network

### Create and provide various cloud services by utilizing both IT and network assets

- Service operation management: Expand global business by the synergy with NetCracker (WW No.4 share)
- Cloud system Implementation: Meet various customer needs as "One NEC"

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# Mid-term Market Trends and Business Opportunities

## Rapid Spread of Smartphones

- Cumulative shipments of 50 million iPhone
- Android handsets also undergoing rapid growth
- Usage of mobile rich content increasing

## Steep Rise in Demand for Mobile Phones in Emerging Countries

- Rapid progress in the BRICs, Middle East, etc.
- Indian subscribers: 16 million per month, cumulative total of 620 million subscribers

## Increase in Video / Images / User-Generated Content, etc.

- Video, games and SNS over mobile devices
- People around the world able to upload and watch video stored on servers around the world  
YouTube: accessed by over 20 million people each day

## Flattening of the World, Globalization of Enterprises

- Transmission of data among different businesses
- International data centers

## Mobile Networks Becoming Increasingly Sophisticated and Fast

- Major traffic has shifted from voice to data
- Increased speed of wireless access to accommodate the steep rise in mobile data usage

## Increased Traffic

- Global rebuilding of mobile backhaul
- Demand for high-capacity transmission to different countries and massive data centers

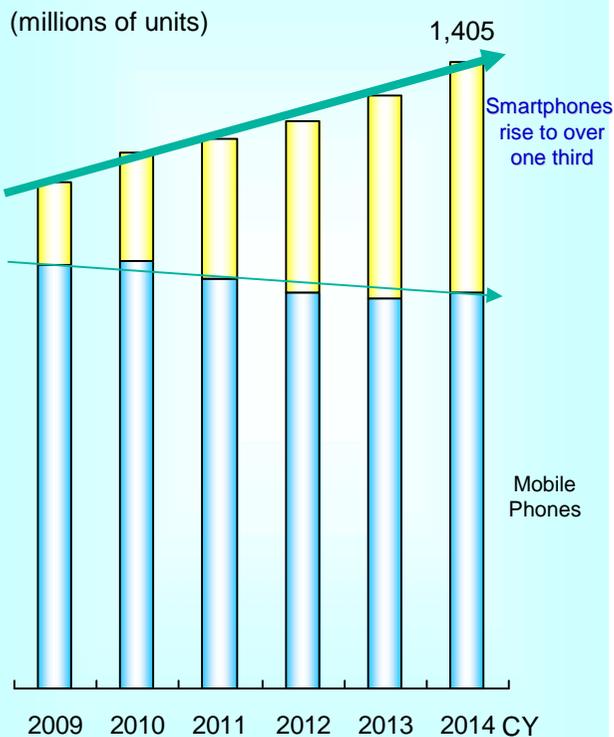
## Progress of IT/Network Integration

- Healthy demand for OSS/BSS, optimization services, etc.
- Progress of business transformations on telecom carriers
- Increased Carrier Cloud and IT system services

# Steep Rise in Mobile Data

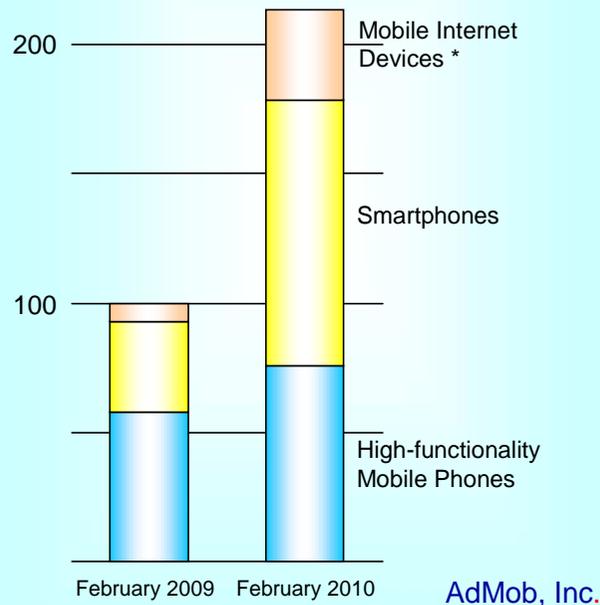
- Mobile usage patterns are evolving from voice to data
- Network services and IT Services are integrated
- Accelerate to transform business structure on Telecom Carriers

### Changes in the Worldwide Mobile Phone Market



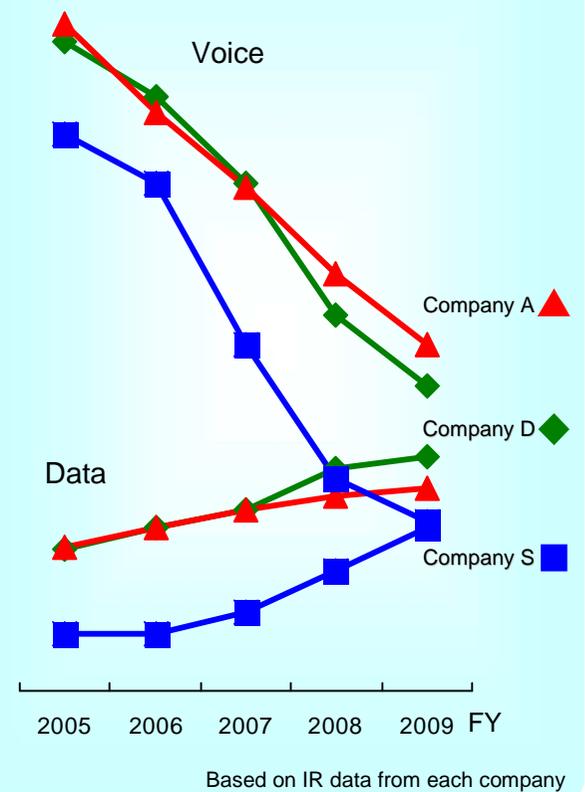
### Rapid Traffic Increasing by Smartphones

Proportion of traffic by handset model on the AdMob Network (when 100 is taken as the index value in February 2009)



\* iPod touch, Sony PSP, Nintendo DSi, etc.

### Shift in ARPU for Domestic Mobile Carriers

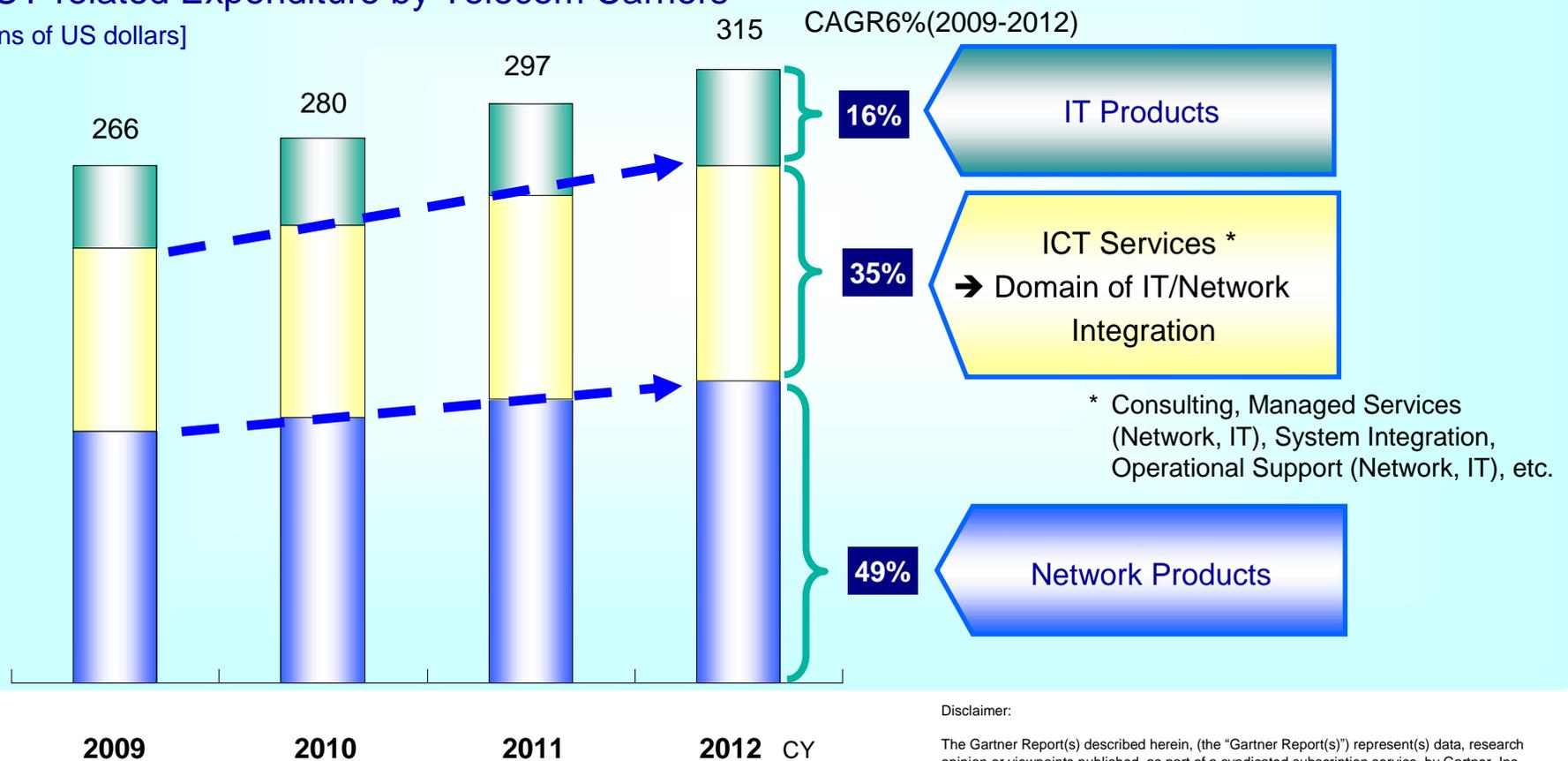


# ICT-related Expenditure by Telecom Carriers

- Expenditure on network-related products accounts for roughly half of the total, and continues to trend upwards
- Expenditure on ICT services also accounts for a large proportion (35%)

## ICT-related Expenditure by Telecom Carriers

[billions of US dollars]



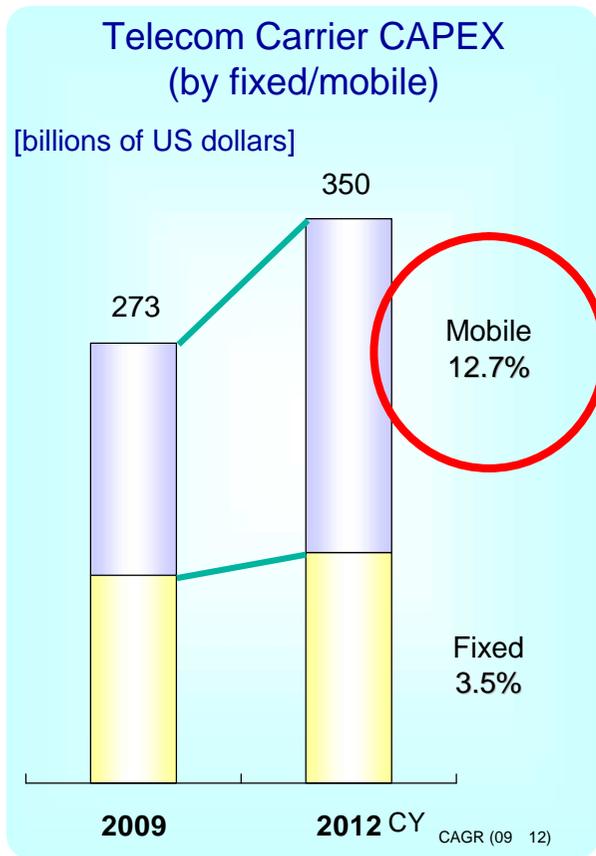
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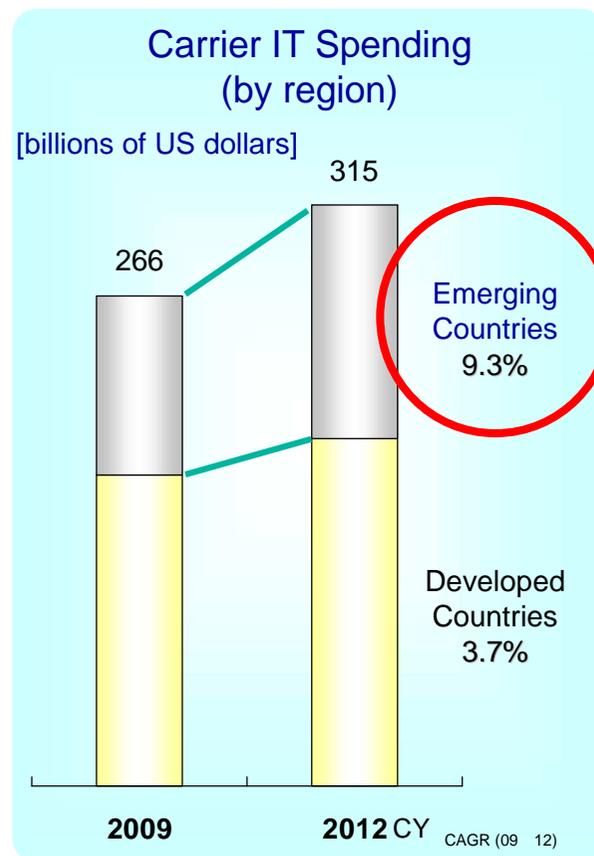
Source: Gartner "Forecast: Industry Market Strategies by Vertical Industry, Worldwide, 2006-2012, 1Q09 Update," February 6, 2009  
Graph produced by NEC based on Gartner data

# Growth Areas in Telecom Carrier Market

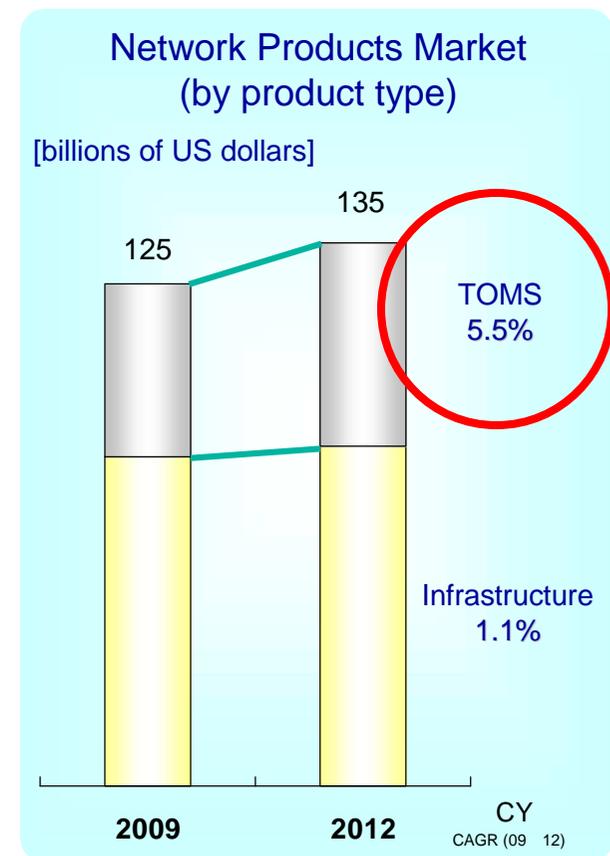
- Increased portion in growth rates and actual amounts centered around mobile
- Growth rates in Emerging countries surpassing those in developed countries
- Growth rates of OSS/BSS and SDP exceeding those of Infrastructure



(Ovum-RHK: Oct 2009)



Source: Gartner "Forecast: Industry Market Strategies by Vertical Industry, Worldwide, 2006-2012, 1Q09 Update," February 6, 2009  
Graph produced by NEC based on Gartner data

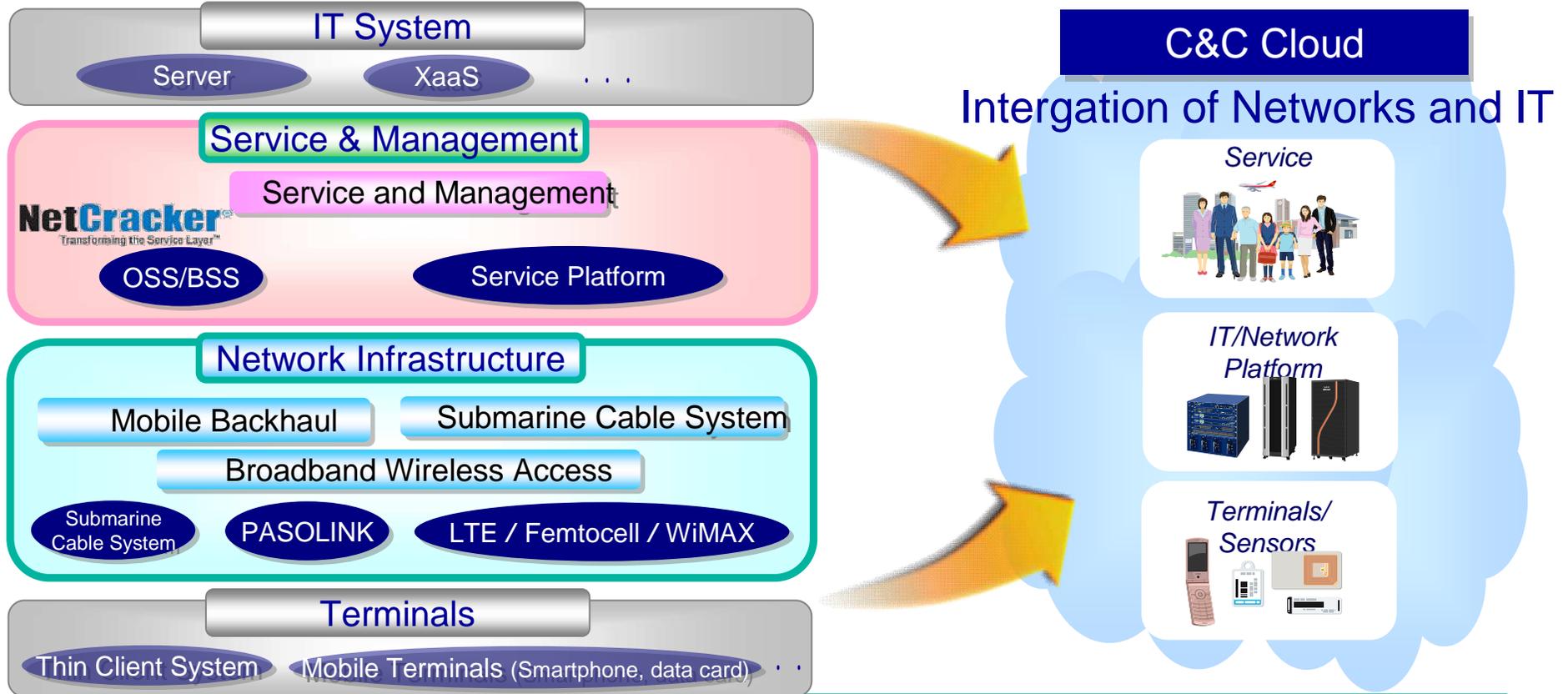


Source: Gartner "Dataquest Insight: Global Telecommunications Market Take, December 2009," January 18, 2010  
Graph produced by NEC based on Gartner data

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# Mid-term Business Policy

Expanding C&C Cloud related business by focusing on primary business areas where NEC's strength can be achieved



Our goal:  
 Challenges for gaining prominent position in global markets while increasing growth and earnings profit  
 Achieving sales of 900 billion yen (Operating profit ratio: 9%) in the Carrier Network business in FY2012

# Key Business Areas

Focusing on business areas where NEC can capitalize on its strengths and secure attractive global business

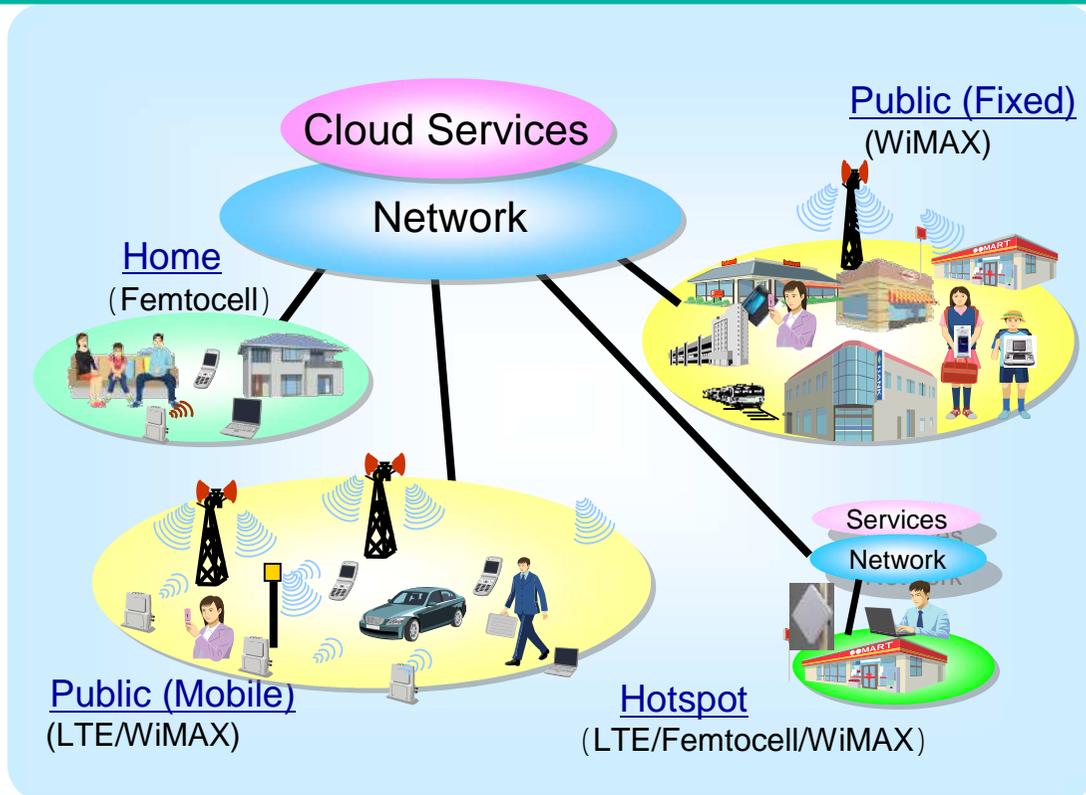
Key Business Area	Attractiveness of Market	Strength of NEC
1 Wireless Broadband Access	<ul style="list-style-type: none"> <li>● Large Market</li> <li>● High Market Growth</li> </ul>	<ul style="list-style-type: none"> <li>● Field-proven installation of LTE in Japan</li> <li>● Field-proven installation in Femtocell and WiMAX</li> <li>● IT and Network integrated solutions</li> </ul>
2 Mobile Backhaul	<ul style="list-style-type: none"> <li>● Increase of mobile subscribers in emerging countries</li> <li>● Increase of packet demand and wide coverage due to adaptation of LTE</li> </ul>	<ul style="list-style-type: none"> <li>● PASOLINK WW #1 share for three consecutive years</li> <li>● RF Technology</li> <li>● TDM/Packet Hybrid Network Technology</li> </ul>
3 Submarine Cable System	<ul style="list-style-type: none"> <li>● Continuing demand for installation due to increasing international traffic</li> </ul>	<ul style="list-style-type: none"> <li>● Top three global position</li> <li>● Operation Value Chain</li> <li>● Advanced optical technology (40Gbps digital coherent)</li> </ul>
4 Service & Management	<ul style="list-style-type: none"> <li>● Increasing demand for reduced OPEX</li> <li>● Increasing demand for value added services</li> </ul>	<ul style="list-style-type: none"> <li>● NetCracker Ranked 4<sup>th</sup> WW share</li> <li>● Field-proven installation of Service Platforms in Japan</li> </ul>

# Wireless Broadband Access Network Business

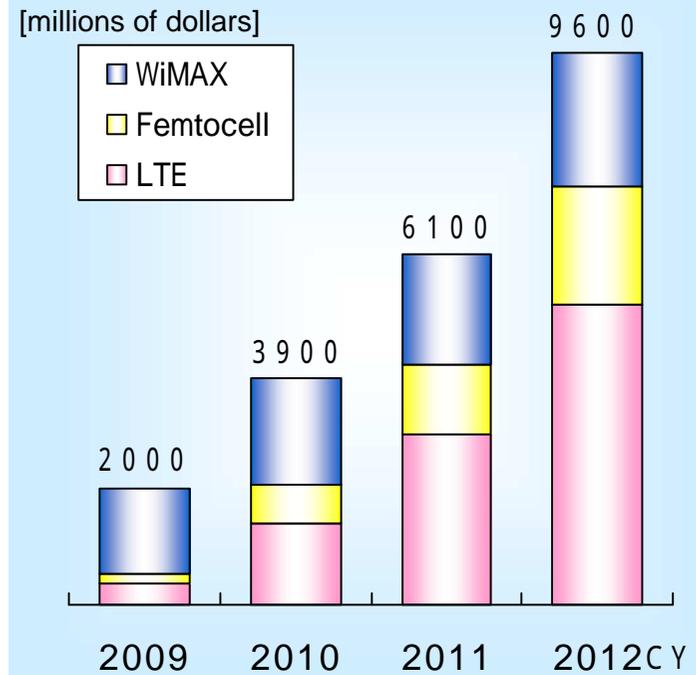
Wireless broadband access network is the core component for Cloud solutions

Focus on solutions that leads to data centric IT/NW

- **LTE** : Major player for wireless broadband
- **Femtocell** : Minimum investment and suitable for data services
- **WiMAX** : For advanced users of wireless broadband



Investment in Wireless Broadband Access Equipment



Source: NEC estimates based on various sources

# LTE Business

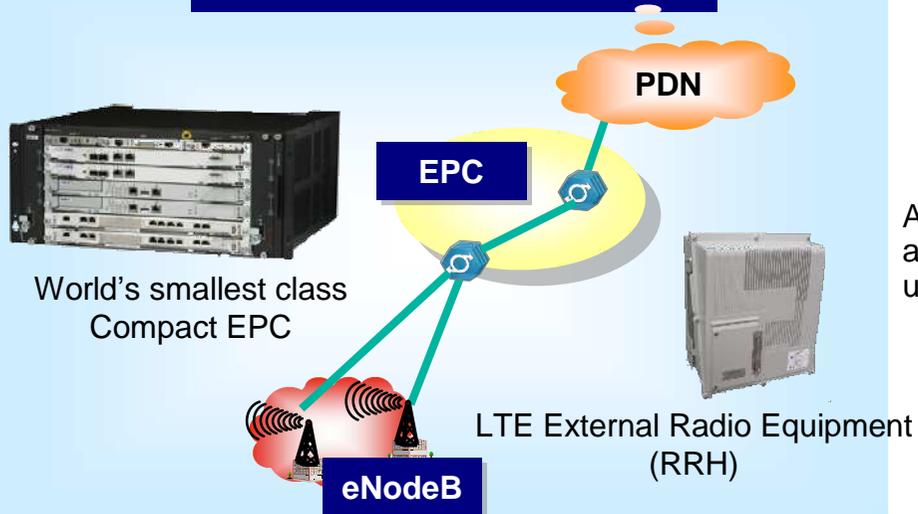
## NEC's strengths

- Developed and promoted among the world's top leaders. Introduced to the domestic market Expanding global deployment
- Designed by utilizing all potential features of LTE
  - (1) Small size/ Low Power Consumption
  - (2) Adopts SON which reduces installation and operating costs, and maximizes system performances
- Provides End-to-End (E2E) solutions from base stations (eNodeB) to Core (EPC)

## Market Oriented Strategy

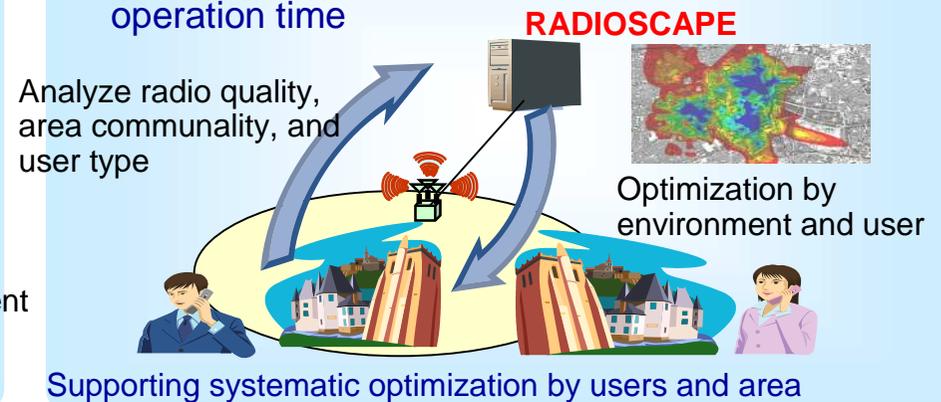
- Japan: Steady implementation of projects for advanced customers
- Overseas: Focus on small cells that support high speed LTE and LTE Femtocells

## LTE Network Products



## NEC's SON (Self Organizing Network)

Easy field work/installation (OneTouch)  
→ Reduce installation and recovery time, and operation time



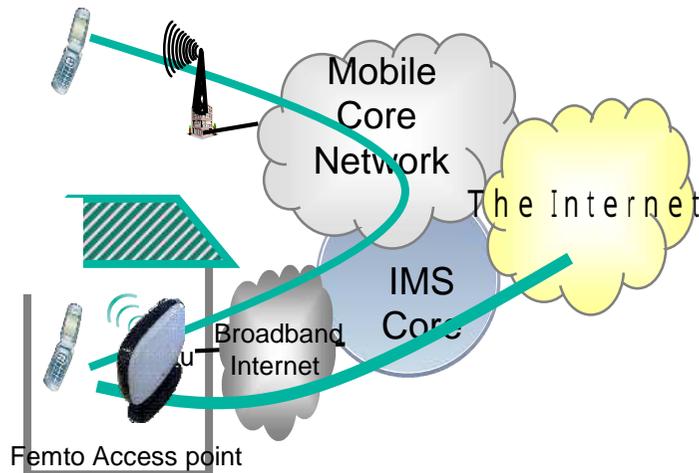
# Femtocell Business

## NEC's strengths

- Proven technology and achievement in the Femtocell market
  - World's most advanced commercial record in IMS based Femtocell
  - Commercial records in Europe prior to other prominent competitors
  - Technology, know-how and skills fostered by 3G-FMC in Japan
- Technology and achievement in LTE-Femtocell

## Market oriented Strategy

- Full scale development of LTE Femtocell
- Provide various services (Home ICT) by integrating with Home gateway



Easy installation  
by using current broadband internet lines

## Supply record of Femtocell in domestic/overseas markets

### Commercial Systems

- Softbank Mobile (World's first IMS based system)
- SFR-France (RAN-GW method system)

### Trial Systems

- Network Norway, TDC (Denmark)

## Femto Forum's Femtocell Industry Awards "Femtocell Network Design and Technology Innovation"

Two  
Consecutive  
Years



24 June 2010

# WiMAX Business

## Global deployment with advanced customers

### UQ Communications

- 2010.3 Started shipment of base stations
- Contribute to UQC's proactive area expansion
- WiMAX Forum's Wave2 (2.5GHz) Received certificate.
- Interoperability among different vendors

<Predominance of products and technology>

- Single outdoor/indoor unit by adopting a high amplifier



PasoWingsBS202

### M-Taiwan Project

- 2007.5 Received order for trial
- Started demo-trial with Tatung in Oct.
- 2008.6 Established R&D Center
- 2010.3 WiMAX system for Tatung InfoComm began commercial operation



Kaohsiung

Pintong

### Crown Prince Hospital Foundation in Thailand

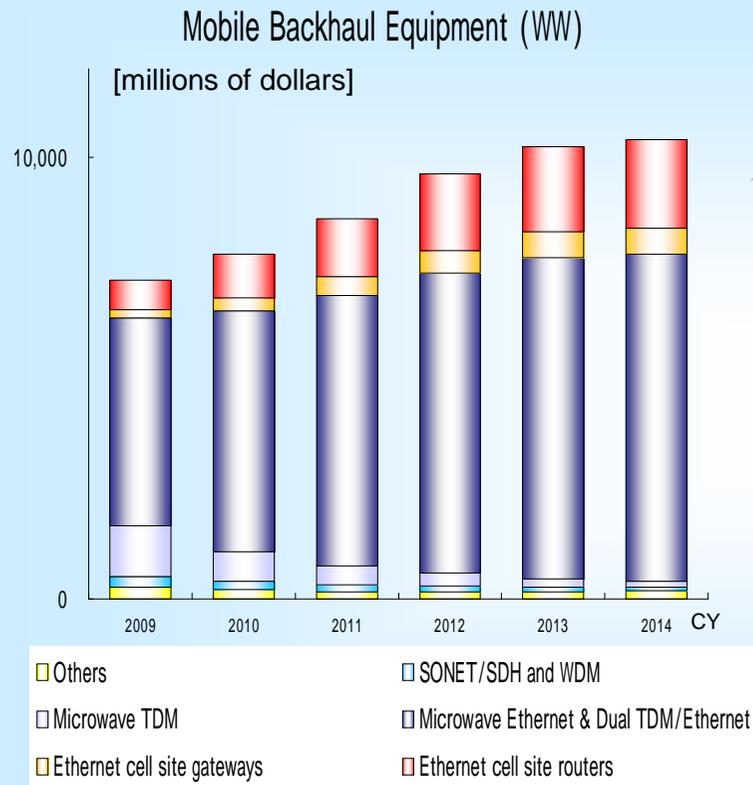
- 2008.8 Received order
- Connection to clinics within 5KM centering on Chiang Khong Hospital
- 2009.3 Service launched



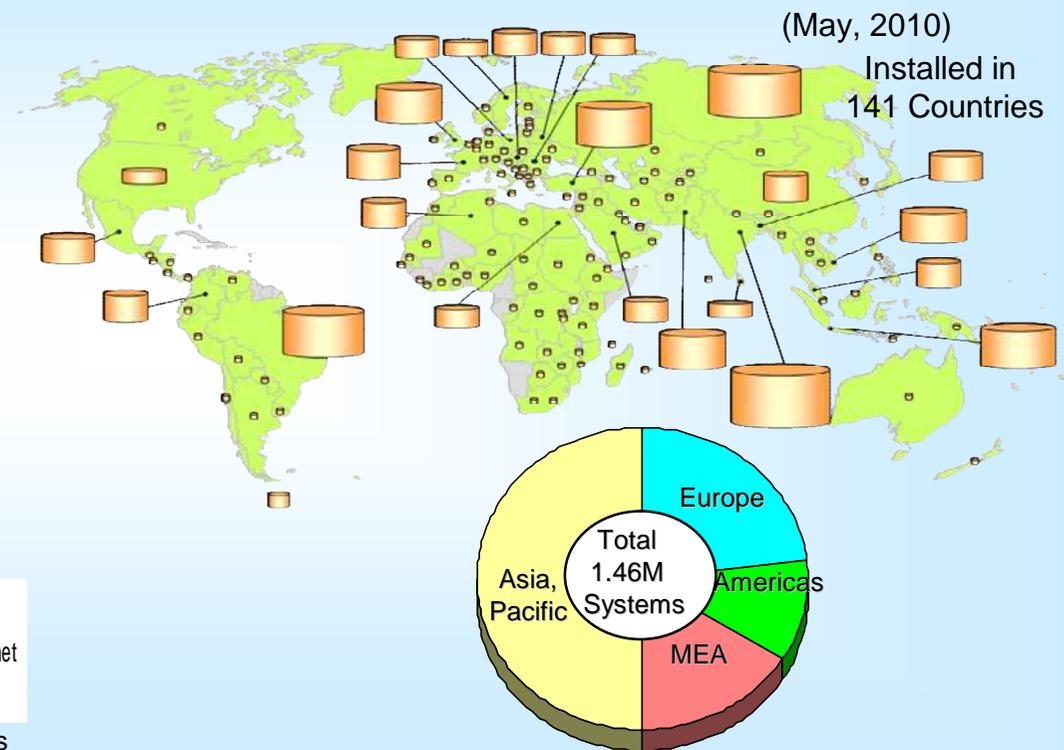
# Mobile Backhaul Business

The most important infrastructure to support the rapid increase in demand for both mobile telephone and mobile data services

- Secured highest quality of radio transmission technology and greater (non-price related) competitiveness through manufacturing
- Secured top market share by adopting advanced mobile backhaul



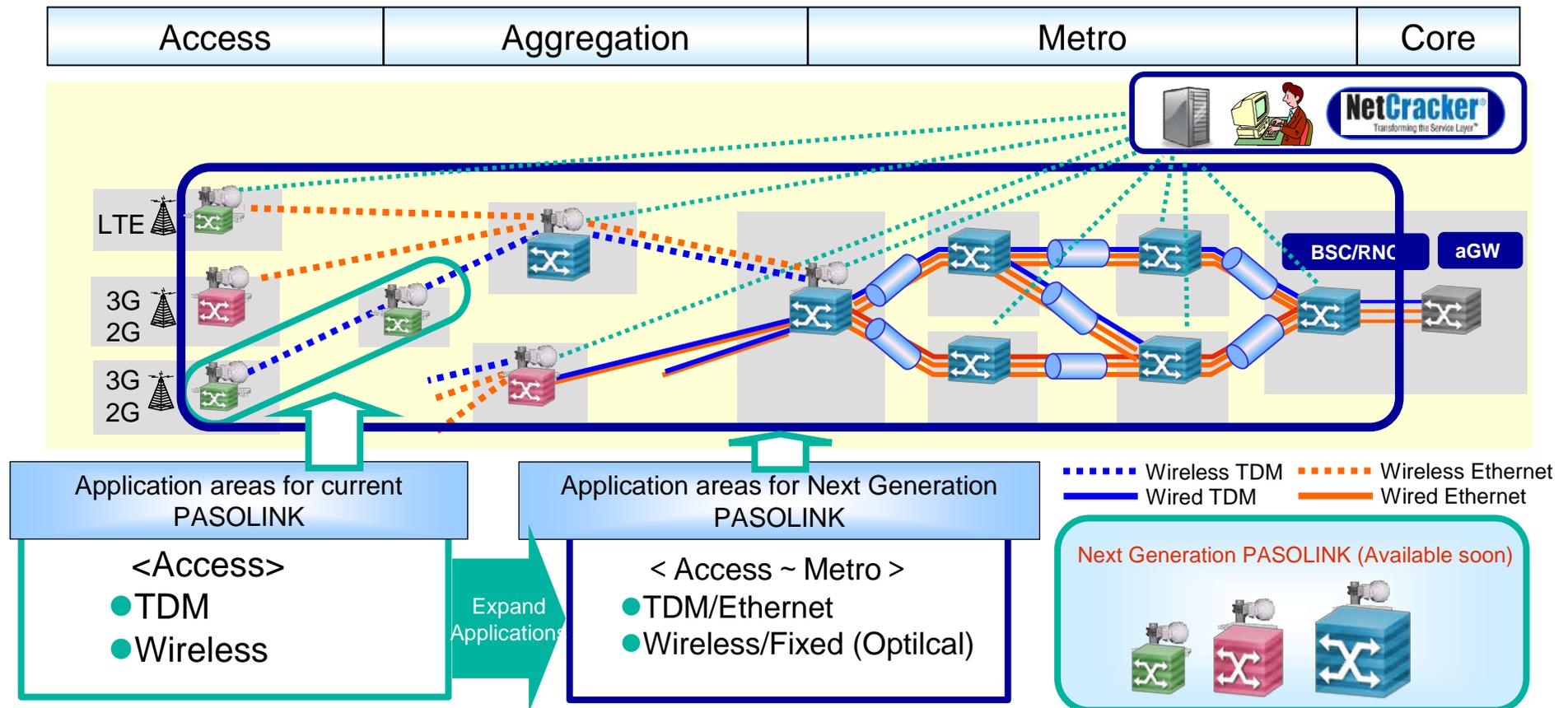
## Supply record of PASOLINK



# Advancement of Mobile Backhaul Solutions

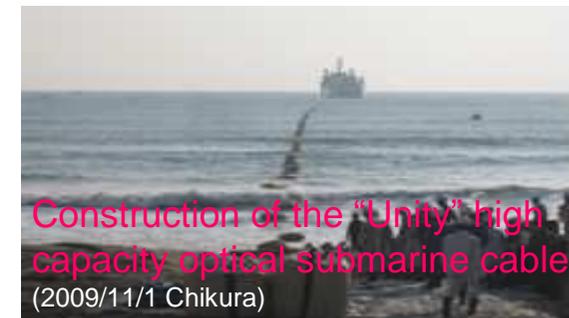
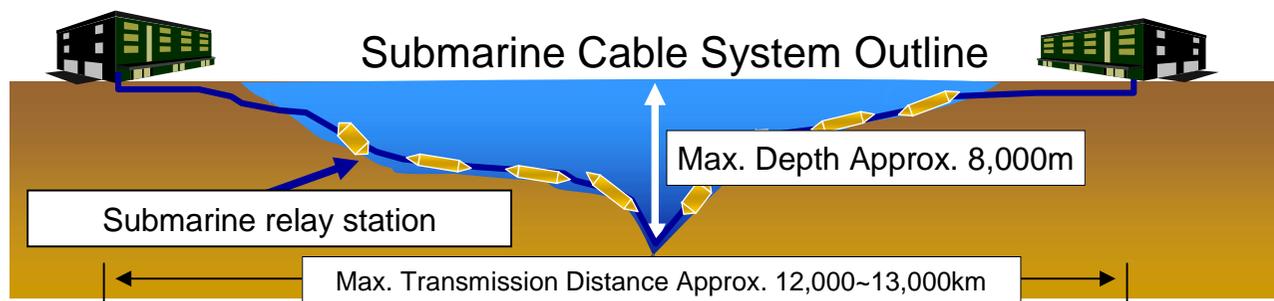
Combining NEC's Wireless, Optical, IP and OSS technologies

- Capable of supporting both new and old systems cohesively and economically during the migration from 2G/3G to 3.9G (LTE)
- Provide E2E/Multilayer path management through integrated NMS and OSS, as well as high expandability and high reliability

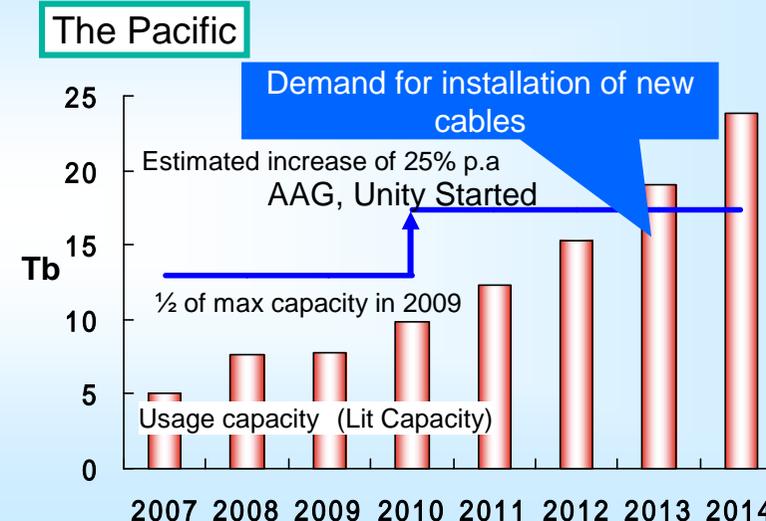
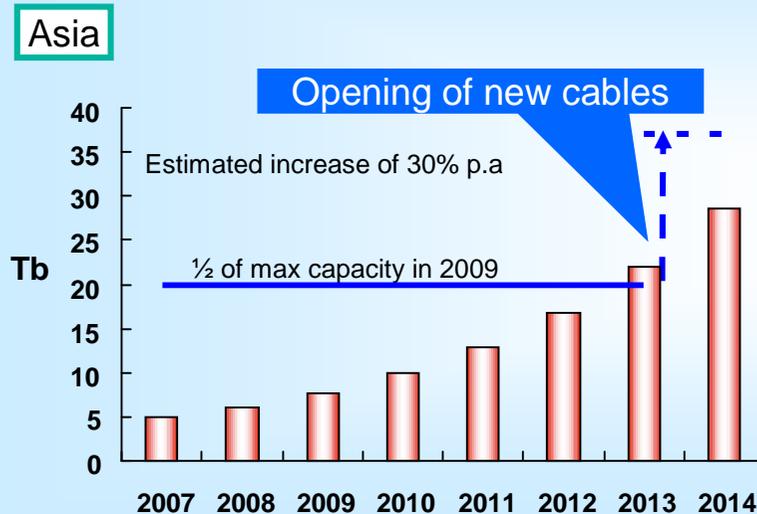


# Submarine Cable System Business Initiatives

- Continuing demand for new cable installation due to steady increases in traffic from expanding international data transfers
- NEC is one of the world's top three vendors for providing E2E solutions, including cable manufacturing



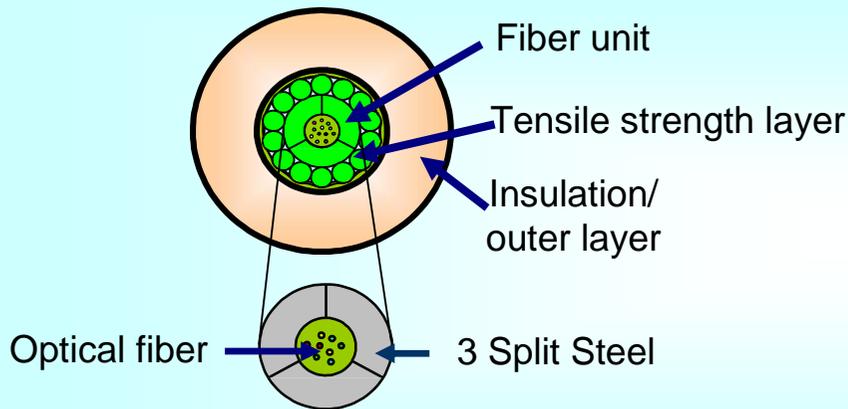
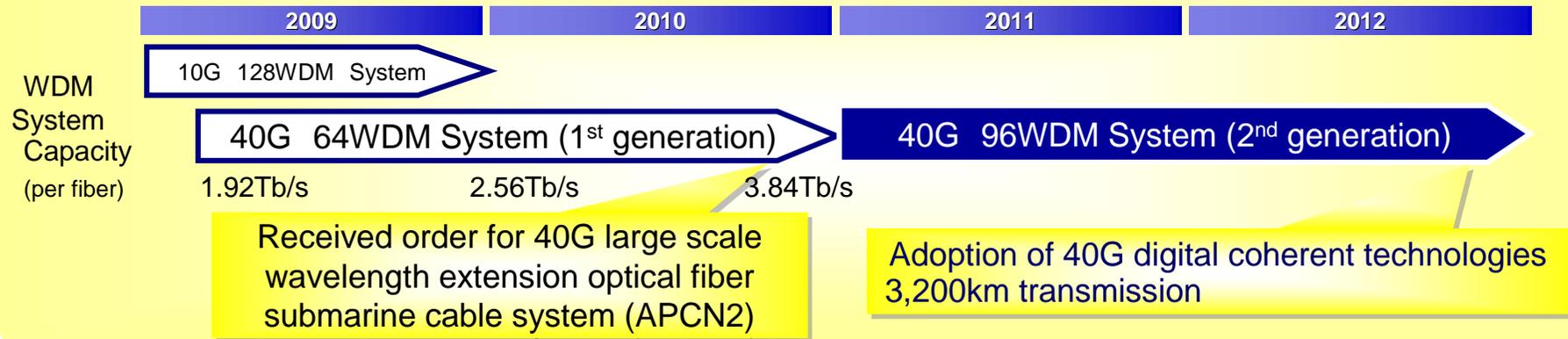
## Capacity of the Optical Submarine Cable among Asia and the Pacific



# Strengthen Submarine Cable System Business

Competitive system provided by advanced optical transmission and submarine cable technologies

## Advanced Submarine Cable System Technology



OCC – SC500 Submarine Cable Structure

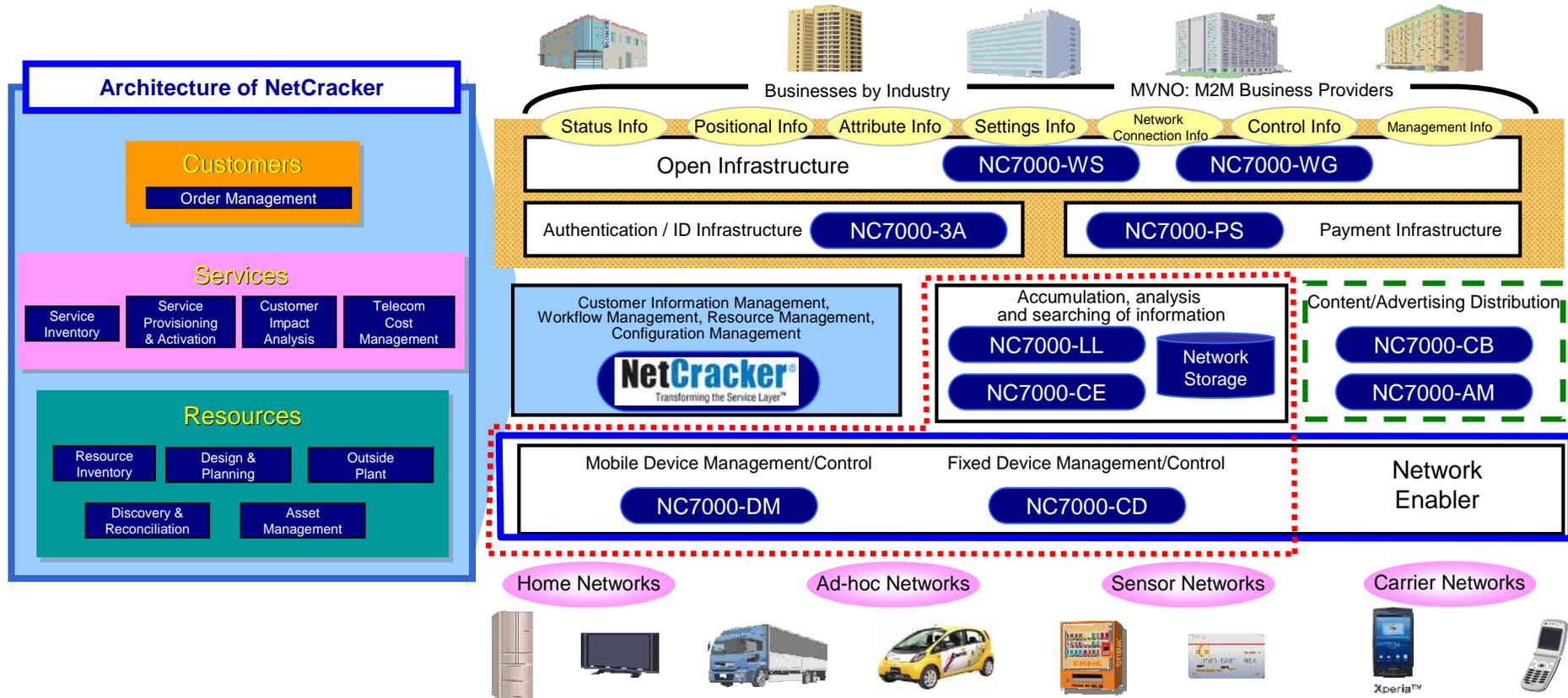
Next generation submarine cable systems combining high performance, high reliability and cost benefits  
(Features and Benefits of OCC-SC500)

- 17mm cable diameter, world's smallest class
- OCC's original "3 Split Steel" technologies
  - Durable construction
  - High speed production
  - Avoid effects associated with welding
  - Reduced production process

# Initiatives Towards Service & Management Businesses

Provide solutions that contribute to increased sales and reduced operational costs for carriers

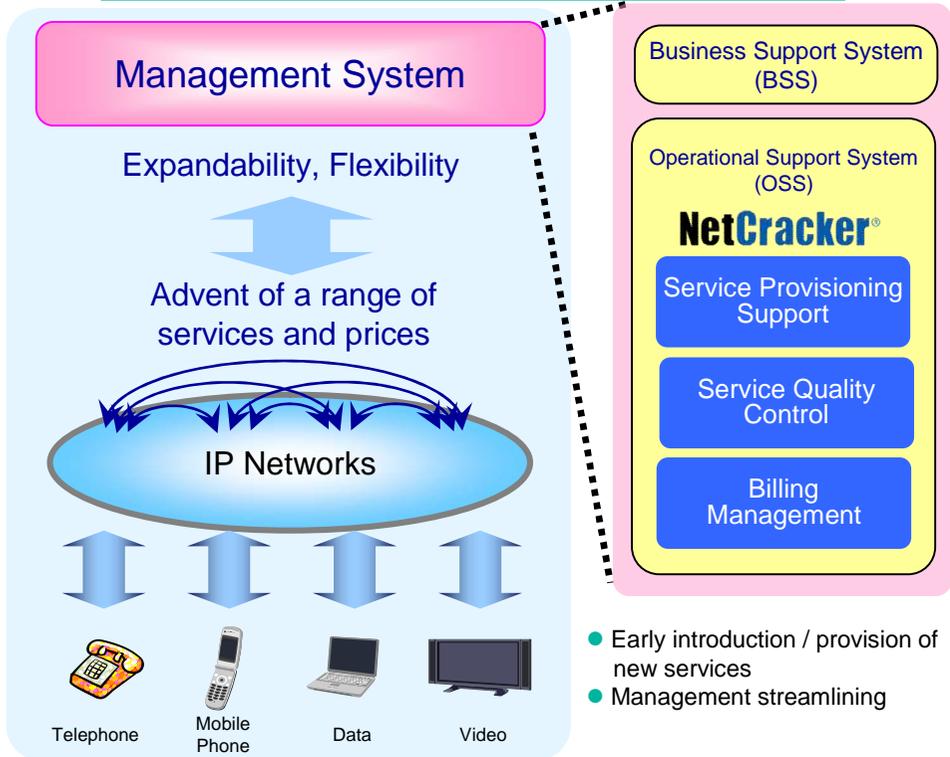
- Improve capabilities for high value-added services through NEC's service platform products (NC7000 Series) (Smartphone-supported services, M2M-supported services, etc.)
- Achieve optimum utilization of network resources and automation of service delivery with OSS/BSS (NetCracker)



# OSS/BSS Business

- Large market share in OSS product essential in service diversification
  - Firm customer footprint and powerful consulting / sales strength at a global scale
- Contribute to significant operational costs reduction and revolutionary improvements
  - Business Transformation

## Enhancement of the Management System Achieved by NetCracker

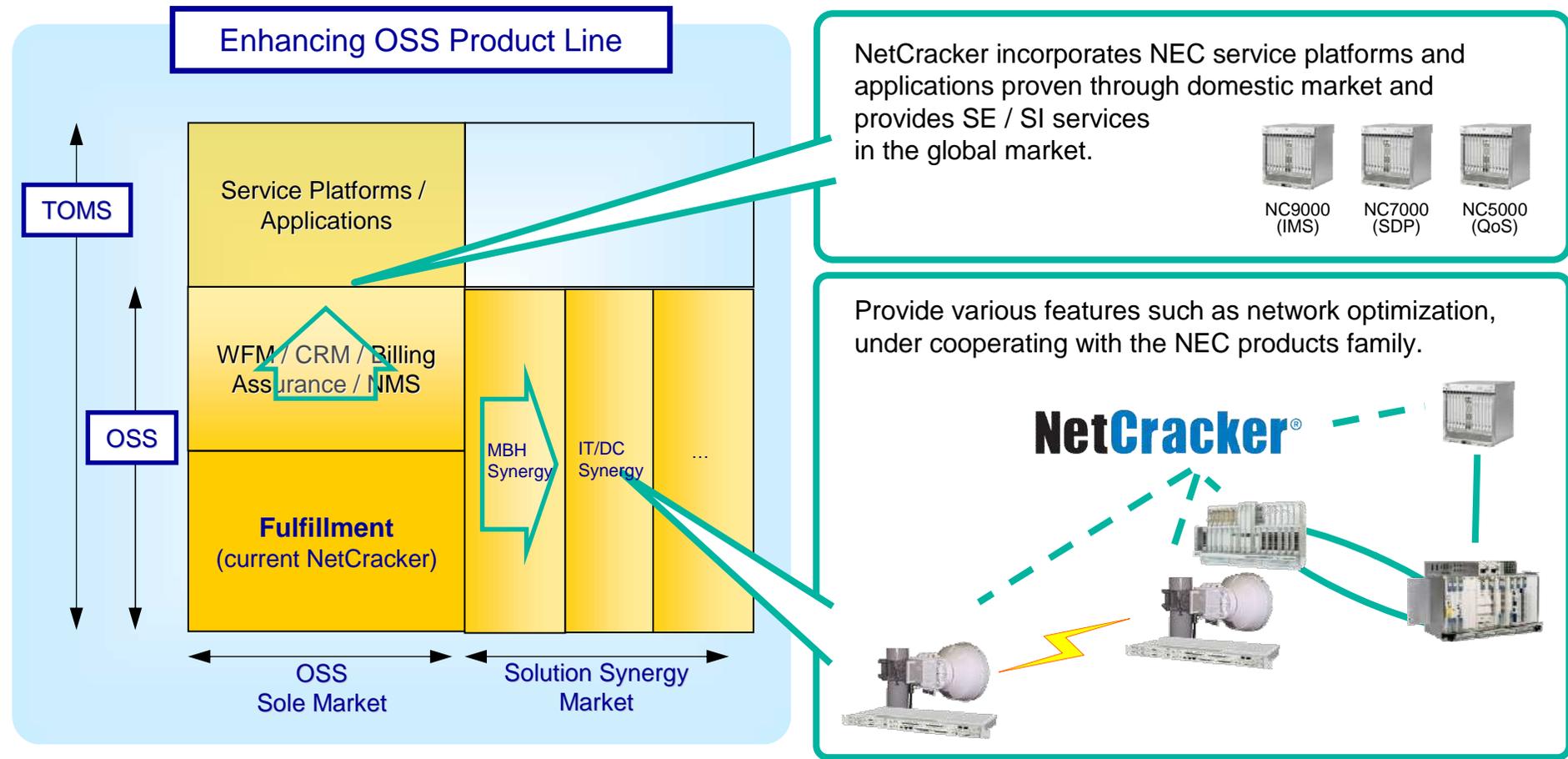


## Growing OSS/BSS Market and NetCracker



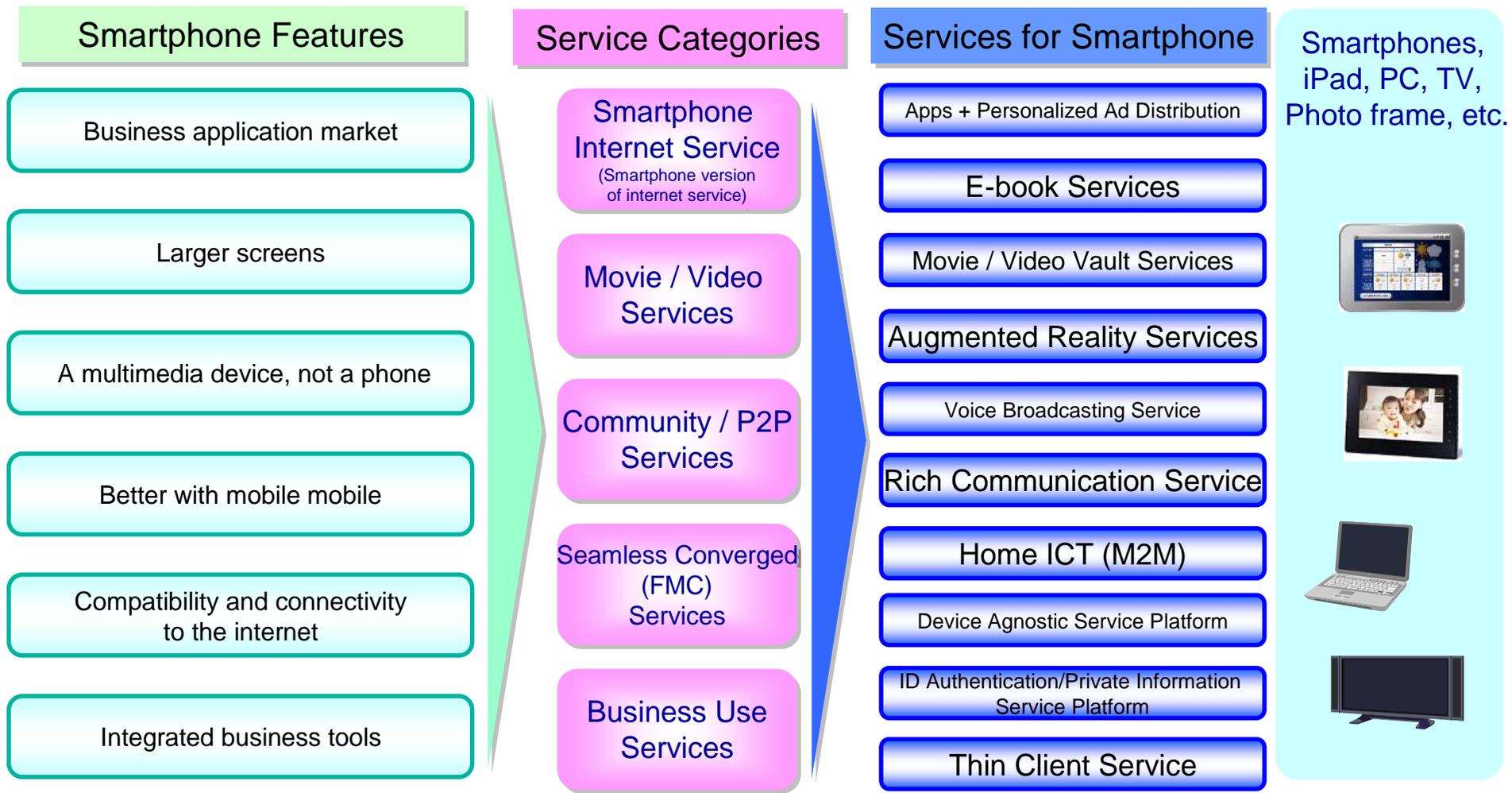
# Enhancing OSS/BSS Business

- Enhance product lineup from fulfillment (service provisioning support) with highly competitive and a strong track record, to the fields of total OSS and TOMS
- Expand its market segments through synergy with NEC products family (MBH, Data Centers, etc.)



# Service Platform Business: Services for Smartphone

Increase telecom carriers' profit through providing services for Smartphones etc.



# Service Platform Business: M2M

M2M (Machine to Machine) application on our service platform will create "Ubiquitous Networked Society"

<p><b>Sensing</b></p> <ul style="list-style-type: none"> <li>Environmental sensing services</li> <li>Agricultural sensing services</li> </ul> <p>Visualization of weather and vegetation information</p>	<p><b>Telematics</b></p> <ul style="list-style-type: none"> <li>EV drive services</li> <li>Drive-Net-Navigation services</li> </ul> <p>Battery monitors for EV, collection service for recharging costs</p>	<p><b>Telemeter</b></p> <ul style="list-style-type: none"> <li>Home ecology services</li> <li>Remote monitoring services</li> </ul> <p>Monitor the volume of electricity in home power outlets, control on/off</p>
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## Agriculture ICT Solution

**Farm**



Field Server  
elab experience

**Farmers**



Sensor Data  
 · Temp, Humidity  
 · Soil info  
 · Web camera.

Farm Know-how

· Temp, Humidity  
 · Atmospheric pressure, Rain  
 · Solar radiation  
 · Remote monitoring  
 · Harvest, fertilize, pest control

OPEN API

Sensor Info. Matching Farm Smarts

Device Mngmnt Workflow Mngmnt

Certification

Telecom Carrier Service Platform: NC7000 Series

Telecom Carrier Network

Info Release

**Farm Info Portal**

Weather Info /23.4

Web Camera

Farmer

Sensor Info

Community

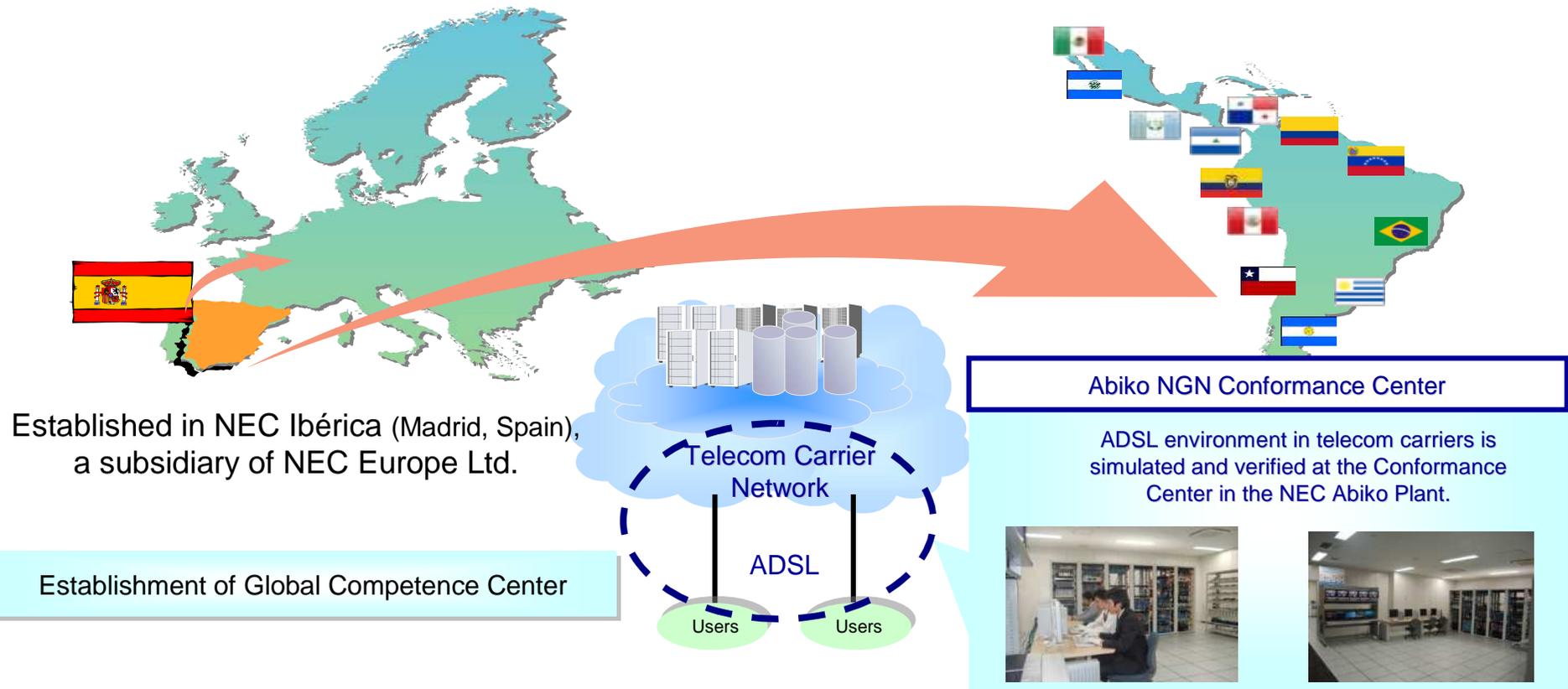
# Toward C&C Cloud

Telecom carrier network with high speed and mobility is the foundation of cloud services  
 Focus on creating cloud environments, smart grids and IT/NW integrated platforms

		FY2009	~	FY2012
NGN	Cloud Services/Cloud Environment Building	Enterprise	Cloud-oriented services Proof in NEC Intranet PaaS <small>PaaS: Platform as a Service</small> Strengthen Digital Signage Small/Mid-sized SaaS	Global deployment of cloud-oriented data centers
	Telecom Carrier	NGN/LTE Construction	OSS	Public cloud construction by telecom carriers (international) Growing orders from international telecom carriers Managed desktop services
	Social Infrastructure	Public Safety	Municipality Clouds	Smart Grid Commercial Telematics (logistics) Smart Infrastructure (Transport)
	IT/NW Integrated PF	Cloud Platform Suite	OpenFlow	

# Carrier Cloud Business

- Establish the Carrier Cloud business on a global scale, with IT and network technology and expertise
- Expand experiences in Telefonica across telecom carriers in Europe
  - Order for SaaS system by Telefonica Spain (July last year)
  - Agreement of joint rollout for cloud business in Latin America with Telefonica (February)



# Smart Grid Business

Apply various products and technologies in Carrier Network Business to energy networks as well.  
 (Wire line and wireless network, network management, customer and usage management, etc.)

## Establishment of Smart Network Businesses and Technologies

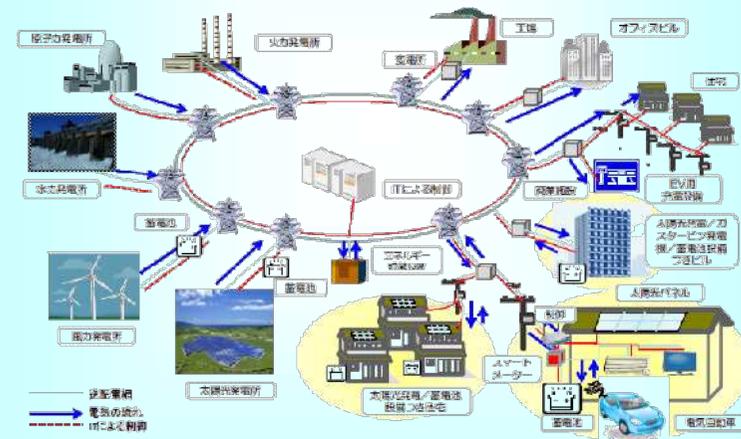
### Create businesses with partners

- Smart meters (automated meter reading systems)
- HEMS (home energy management systems)
- Quick chargers for electric vehicles



## Smart Grid

Enter the smart grid market that utilizes ICT and energy storing technologies



Ministry of Economy, Trade and Industry  
 Seminar on International Standardization Concerning Next-Generation Energy Systems (January 2010)  
<http://www.jisc.go.jp/jisc/data/soukai/018/san03.pdf>

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1. Business overview
  2. Mid-term business environment
  3. Key business strategy
  - 4. Measures to enhance global competitiveness**
  5. Toward achieving V2012

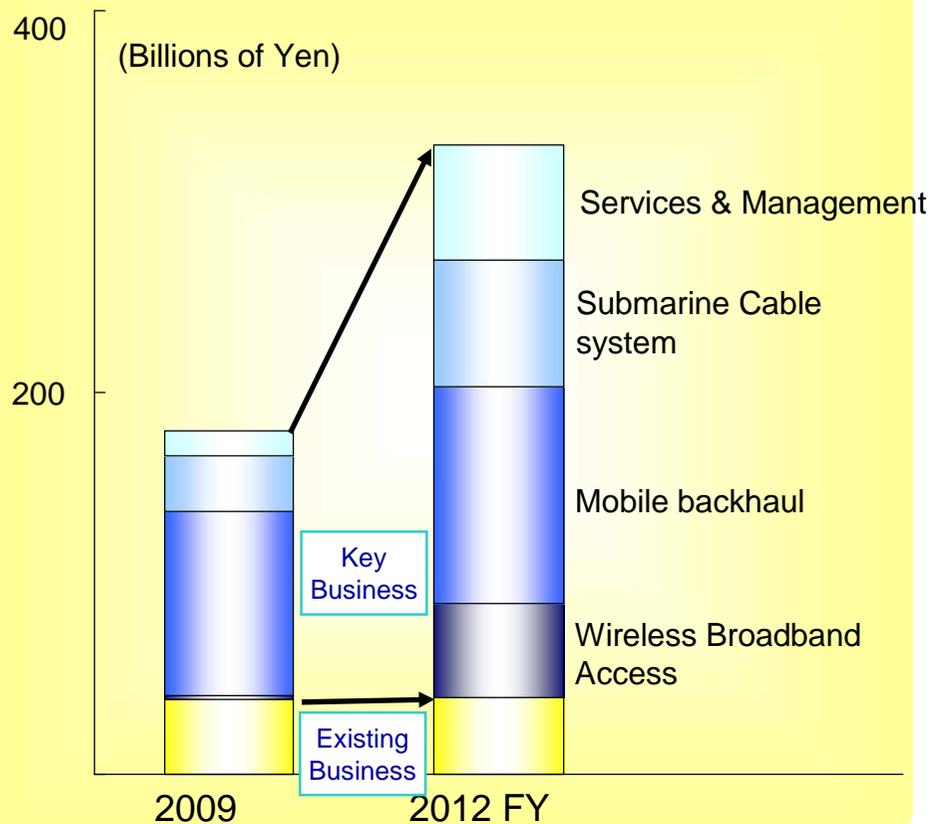
# Enhancing the Global Business Structure

## New structure of the five-region global structure and human resource development

- Accumulation of expertise through the creation of regionally-developed solutions and establishment of competence centers

## Ensure competitiveness through off-shore activities and actively utilize M&A / partnerships

### Overseas Sales (Existing business/Key business)



### Establish competence center/Create solutions

- Femtocell(London) Cloud(Spain)
- NetCracker Business Expansion(North America)
- Service Business Expansion(Latin America)

### Global human resource

(GTI: Global Track to Innovator)

- Program training for the early development of human resources who will work globally in the future.
- Local work experience in each specialized area for 1 to 2 years



### Offshore Activities

- 25% of outsourced development done offshore (2012)
- Expansion of offshore fields (SI/SE/contact centers, etc.)

### M&A, Partnerships

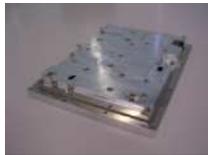
- Full utilization of the assets of acquired companies (NetCracker, OCC, NECEastern Europe)
- Partnerships, enhancement of ecosystems
  - NGN Partnership Program
  - OEM Partners (UbiquiSys, Juniper, Kineto, etc.)

# Enhancing Product Strength through Base Technologies

Differentiation with core technologies → Enhance global competitiveness of products in focused areas

## Apply Radio Frequency Amplifiers with World-Class Efficiency to LTE/WiMAX Base Station Units

- Reduce the size and power consumption of base station units, reducing installation space and power consumption, and cutting the costs of installation and operation



High-Efficiency Radio Frequency Amplifier

Achieve a power amplification efficiency of over 45%



LTE Outdoor Wireless Unit (RRH)

## Realization of World's First 100G Long-distance Real-time Digital Coherent Communication

- Develop a transponder that carries out long-distance optical transmission in real-time with a 100G digital coherent optical transmission system. “Success in real-time communication over a 1,520 km long-distance optical transmission section in Verizon field trials.”

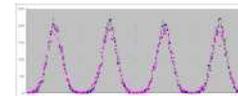


Received Signal

Real-time processing of received waveform from 1,520-kilometer optical transmission route



Received Waveform after Digital Signal Processing



## Practical Application of 40G Submarine Optical Cable System Terminal Equipment

- First-ever application of optical wavelength multiplex terminal equipment fitted with a 40G transponder in a wavelength expansion project for the APCN 2 large-scale submarine optical cable system



NS Series T640SW / 40G Transponder

# Enhanced Competitiveness through QCD Reforms

Management innovation from innovation in plant production throughout overall business, including front-loading.

- Production innovation: Put QCD reforms into practice at production sites.
- Front-loading: Incorporate QCD at the product planning and development design stages.

## → Q: Quality Reform

- Strengthening of development/design upstream processes
- Enhanced management of purchased components

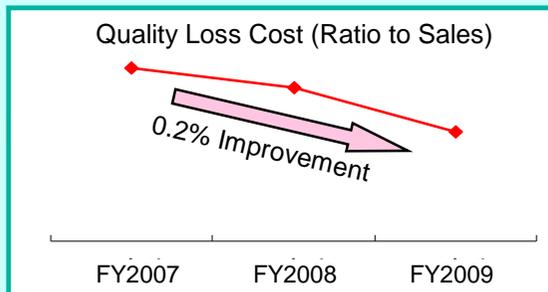
## → C: Cost Reform

- Setting of cost targets in anticipation of market prices
- Thorough screening of project orders
- Increased offshore and multi-vendor utilization

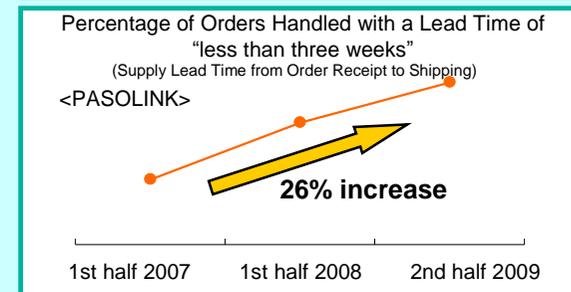
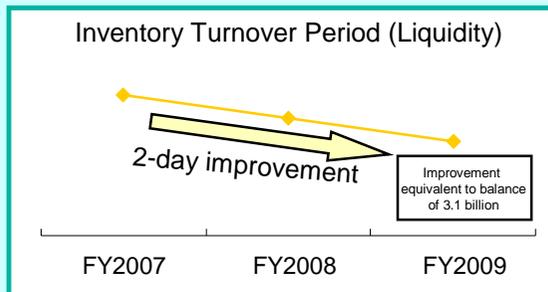
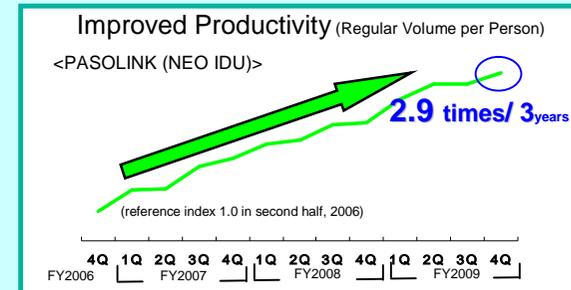
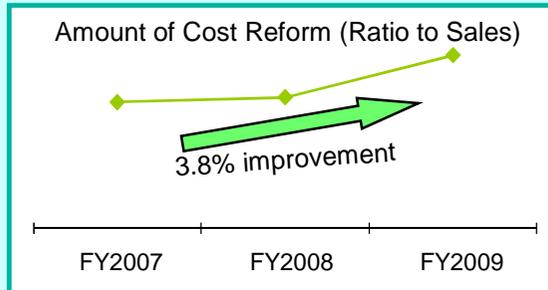
## → D: Delivery Reform

- Shorten total lead times
  - Shortened development times
  - Expand production for firm orders

[Carrier Network Business]



[Main Base (NEWIN)]



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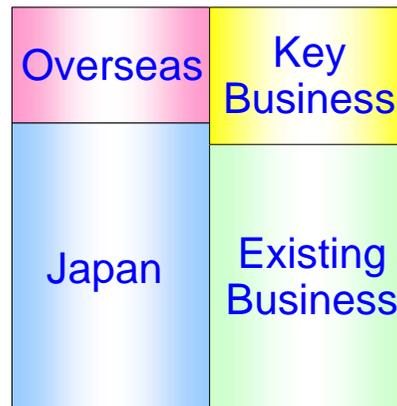
# Toward achieving V2012

Our goal:  
900 billion yen in sales (operating profit margin 9%) by FY2012

	FY2009	FY2012
Overseas Sales ratio	28%	40%
Key Business ratio	34%	50%
Operating profit ratio	5%	9%

(Billions of Yen)

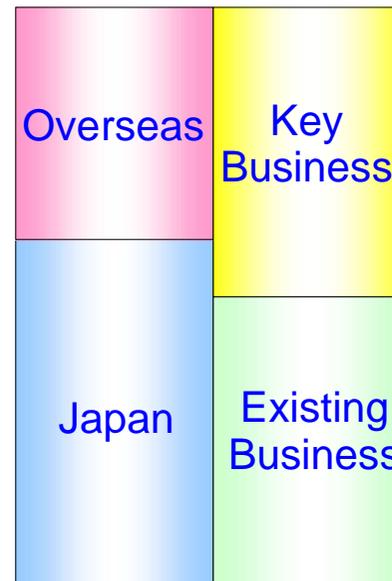
Sales  
627.4



FY2009

Sales  
900

CAGR +13% (09 12)



FY2012

- Wireless Broadband Access
- Mobile Backhaul
- Submarine Cable System
- Services & Management

\* Forecast as of July 8, 2010

Empowered by Innovation

**NEC**

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