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Public Business Briefing

Sept. 29, 2015 Tomonori Nishimura Executive Vice President NEC Corporation

Orchestrating a brighter world

NEC brings together and integrates technology and expertise to create the ICT-enabled society of tomorrow.

We collaborate closely with partners and customers around the world, orchestrating each project to ensure all its parts are fine-tuned to local needs.

Every day, our innovative solutions for society contribute to greater safety, security, efficiency and equality, and enable people to live brighter lives.

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1. Public Business Overview

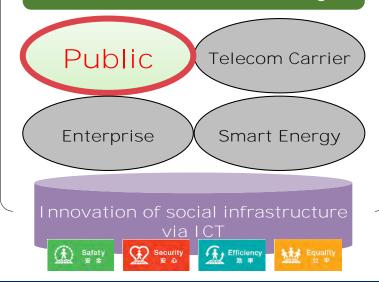


Public Business Overview

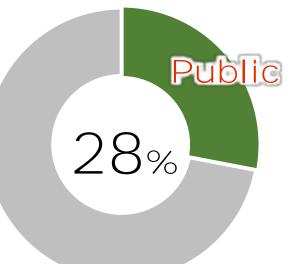
Focus on Solutions for Society Transformation into a "Social Value Innovator"



Solutions for Society



FY2014 Sales Composition Ratio





Public Business Domains

ICT-based Solutions for Society primarily in the infrastructure domain





Main Customers

Government agencies

Central government organizations, Government-affiliated organizations

Municipalities

Local authorities, Fire departments, Waterworks Bureaus, etc.



Educational institutions

Universities, elementary, junior and senior high schools



Medical institutions

Hospitals, clinics

Broadcasters, newspaper

companies, publishers





Operators of airports, railways, buses, and expressways



Financial institutions

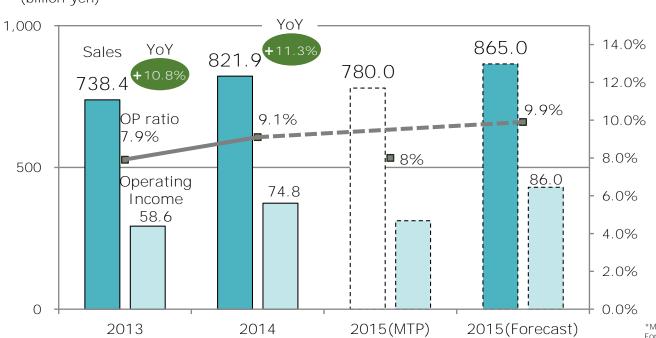
Banks, trust banks, credit unions, insurance companies, securities, JA, non-bank institutions





Business Performance

Maintaining an average annual growth rate of more than 10%, NEC was able to achieve its Mid-term Plan Sales target of 780 billion yen one year earlier in FY2014 for public business



(billion yen)

*MTP as announced on Apr. 26, 2013 Forecast as of Jul. 30, 2015

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Major Achievements

Exhibited stable performance in NEC's areas of strength

Main areas	Main achievements (*Contributors for outperforming MTP targets)
Administrative services	Acquired order from Japan Agency for Local Authority Information Systems (J-LIS) for "My Number" intermediate server platform Ongoing renewal of systems for municipalities; increasing demand for face recognition as security measure
Defense	Acquired order for field communication system through FY2014 Supplementary Budget
Public Safety	 Secured sales for special demands of fire prevention radio system digitalization Provided face recognition solution for Arizona Department of Transportation Conducted trials for disaster prevention information system using digital terrestrial broadcasting in the Philippines
Transportation, Water	 Built a mission-critical network using SDN^{*1} for West Nippon Expressway Company Limited (NEXCO-West) Conducted trials on effectiveness of water leak monitoring services in collaboration with City of Arlington, Texas
Broadcasting	 Acquired order for digital terrestrial TV transmitters from PBS TV^{*2}, Thailand Constructed environment for live 4K digital terrestrial broadcasting for Brazil and UK TV stations

*1 SDN: Software Defined Networking

*2 PBS TV (HQ: Bangkok, Thailand, Thai Public Broadcasting Service)





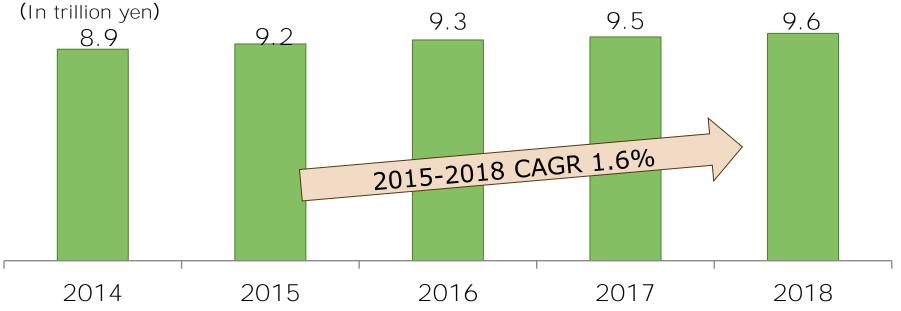
2. Business Environment

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Public ICT Market in Japan

"My Number" and security demands are driving the public ICT market in Japan, with stable growth at approx. 2% expected



*Charts/graphics created by NEC based on Gartner Research. Gartner ***Foreast: Enterprise IT Spending by Vertical Industry Market, Worldwide, 2013-2019, 2015 Update" 20 July 2015** (Sum of End-User Spending Banking, Broadcasting and Cable, Health Insurance (payer), Higher Education, Insurance (other than health), Primary and Secondary Education, Securities, Physician, Water Utilities, Publishing and Advertising, Hospital, National & International Government, Local & Regional Government)

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*CAGR: Compound

Annual Growth Rate

Social Demands for Security

Increasing security needs arising from legislation improvement, responding frequent occurrence of security incidents

• Rise in cyber attacks targeting government agencies

• Reinforcement of the National Center of Incident readiness and Strategy for Cybersecurity (NISC)

Actualization of needs for security measures following introduction of the "My
 Number" system

• Sudden increase in need for surveillance of transportation infrastructure due to arson attacks and other incidents/accidents

• Increase in threats from terrorist and real/cyber attacks

Society

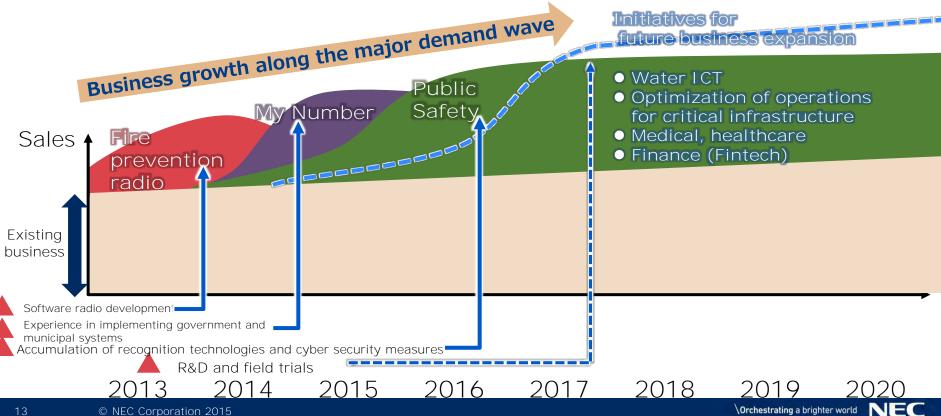
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- Proliferation and rise in amount of damage from Internet banking crimes
 - Intensified damage from natural disasters and increased needs for disaster prediction



Medium- to Long-Range Direction

Keep the growth momentum by seizing the major, medium- to long-term demand trends

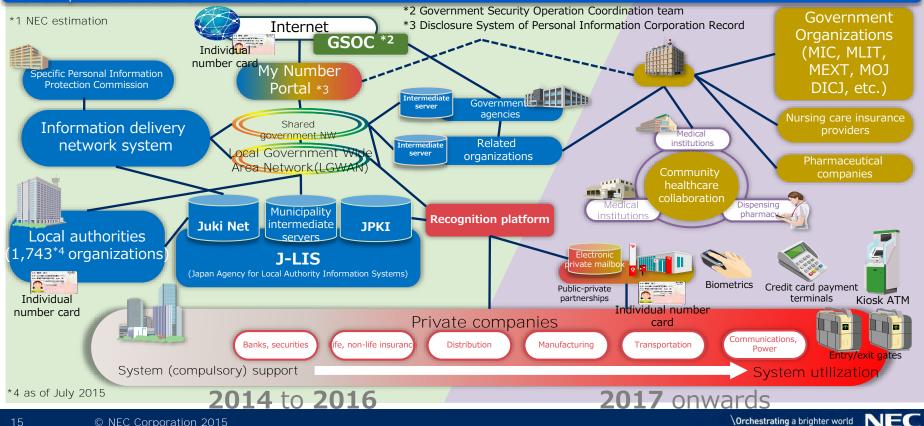




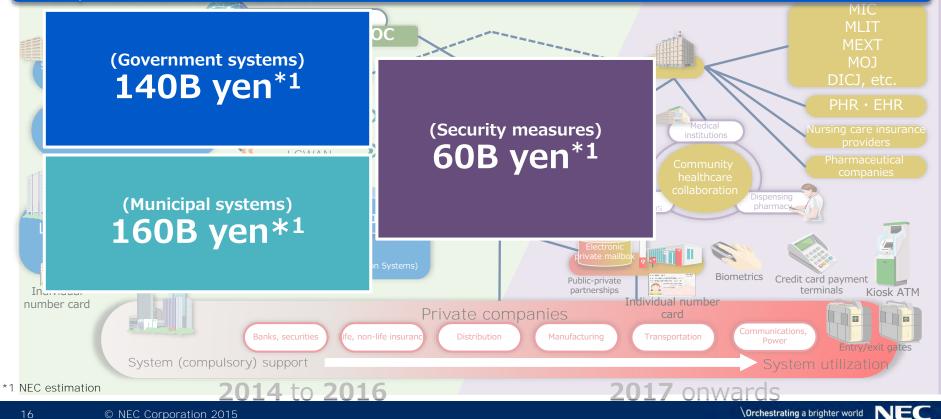
3. Focus Domains ①"My Number"



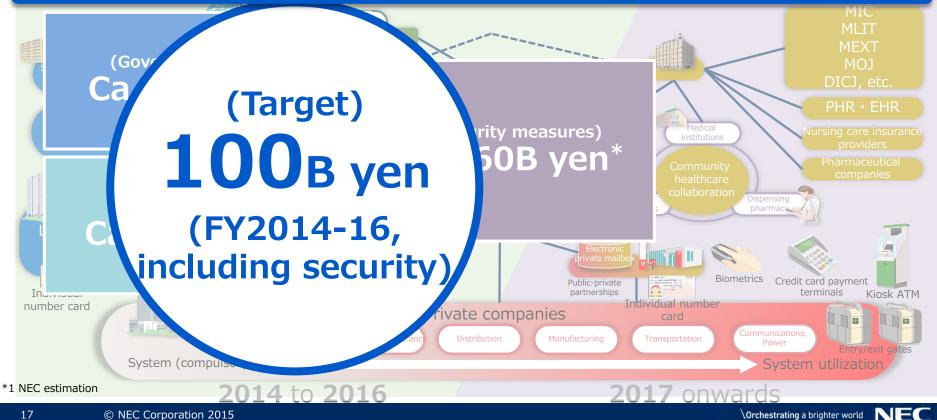
Aim to achieve 100 billion yen in sales out of the 360 billion yen*¹ market for infrastructure development from 2014 to 2016



Aim to achieve 100 billion yen in sales out of the 360 billion yen*¹ market for infrastructure development from 2014 to 2016



Aim to achieve 100 billion yen in sales out of the 360 billion yen^{*1} market for infrastructure development from 2014 to 2016



NEC's Strengths in the My Number Market

Deploy knowhow on implementation of mission-critical systems for local governments nationwide

NEC's strengths

Expansion measures



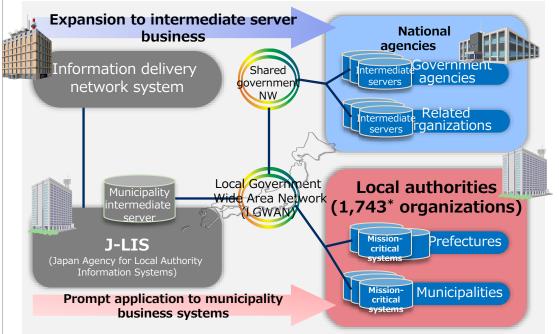
•Knowhow gained through implementation of missioncritical systems for governments

*Intermediate server platform
 ▶ NEC independent contract



Wide experience in implementing missioncritical systems for local authorities

*Approx. 20% market share



* as of July 2015

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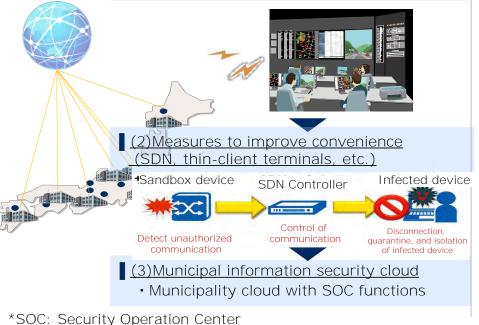


Security Measures by Local Authorities following the Introduction of My Number

Offer advanced security measures based on NEC's security technologies

Cyber security solutions

(1)Remote surveillance and analysis (SOC*)



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Biometrics solutions

Adopt NEC's face recognition solution to enforce rigorous personal identification procedures during issuance of Individual Number Cards at municipalities nationwide



Individual Number Card (face photo)

To be used at all municipalities nationwide beginning January 2016



Take facial photo upon visit to Municipal Office

NEC's advantage when the private sector starts to use the Individual Number Cards

Matching

Support the creation of new services arising from the use of "My Number" by the private sector



«Use by private sector» 700B yen*

onward

*NEC estimation

NEC

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«Use by private sector» 700B yen*

NEC estimation

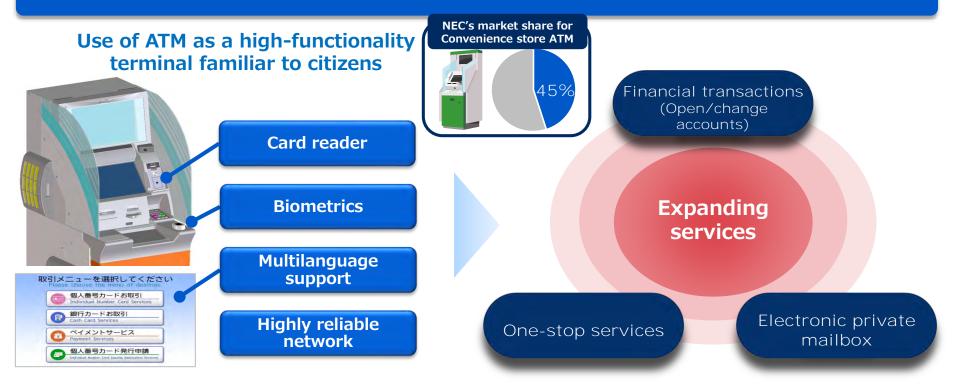
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Usage Example (My Number ATM)

Optimize and improve accuracy of ATM-based procedures. Deploy services based on rigorous personal identification, and improve convenience of citizens

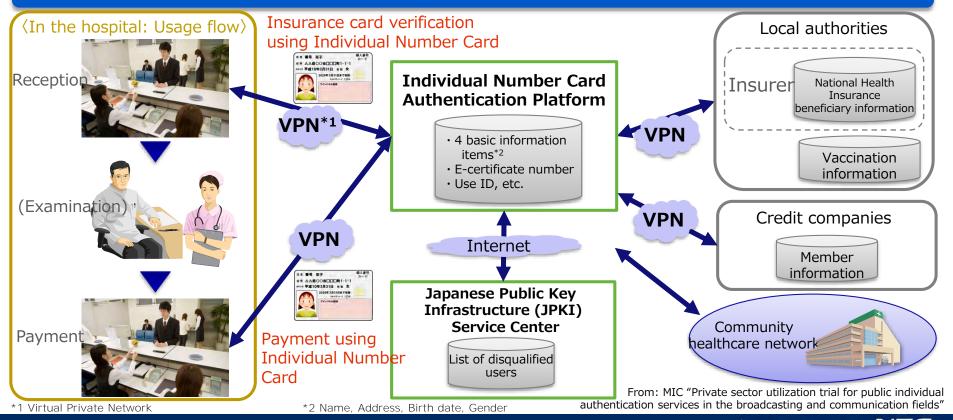


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Usage Example (Healthcare Payments)

Use of My Number card for all transactions—from insurance card verification to payment



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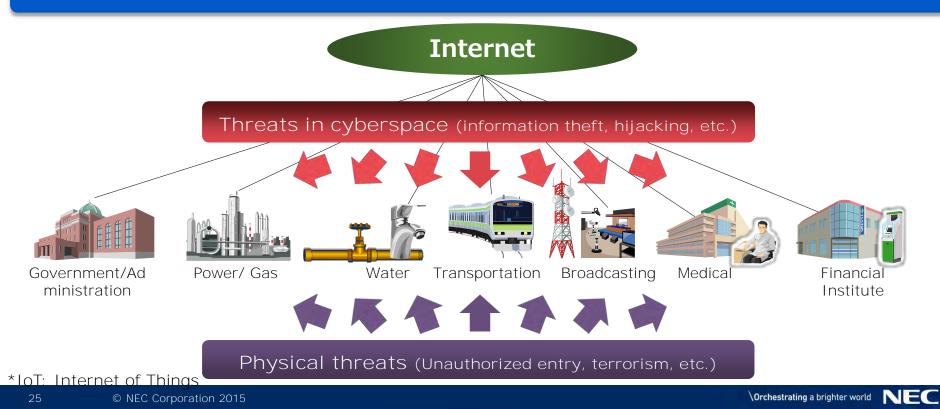
3. Focus Domains2 Public Safety

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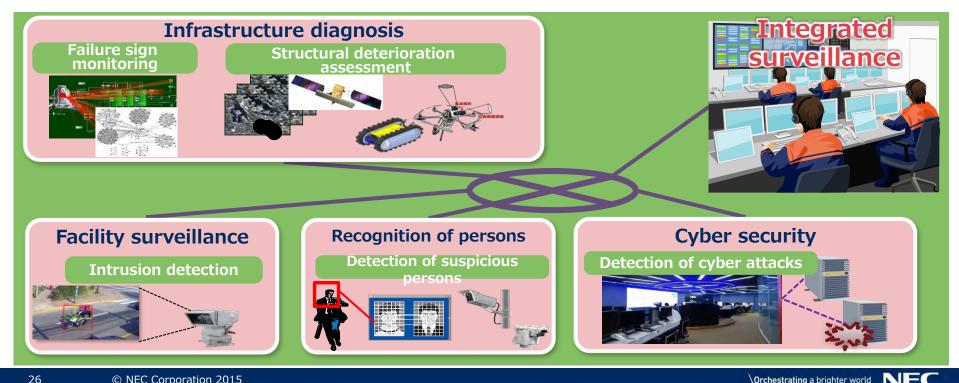
Increasing Security Risks in the IoT* Era

With the advancement of IoT, integrated protection combining physical and cyber spaces has become essential in maintaining stable operations of social infrastructure



Integrated Physical and Cyber Surveillance (Power Company Example)

Stabilize operations for entire facility through integrated monitoring of equipment operation status and of physical and cyber threats against facilities and equipment



NEC's Strengths (Cyber Security 1)

Backed by highly advanced human resource and information, NEC has the total capability to implement the most appropriate system



Information

- Collaboration with INTERPOL
- Practical cyber defense exercises CYDER^{*1}
- Participation in Japan Cybercrime Control Center (JC3)

Human Resources

- CyberDefense Acquisition of Cyber Defense Institute
 - Acquisition of Infosec
 - Joint human resource development with Singapore government
 - Sponsored course at the Japan Advanced Institute of Technology

Technology

- SDN collaboration (automatic communication interception)
- Biometrics collaboration (continuous monitoring of device users)

Academe

Police

Índustr

Sauniyprovidas

• Big Data collaboration (unknown attack countermeasures)

Industry

Enduser

Data encryption technologies (secured computing, quantum cryptography)

System construction

Experience in systems integration of many customers

*1 CYDER: Cyber Defense Exercise with Recurrence



fosec

NEC's Strengths (Cyber Security 2)

Reinforcement of information-sharing in cyber security







Collaboration with INTERPOL

Collaboration with INTERPOL on global cyber security measures. Fusion of NEC's advanced cyber security technologies with INTERPOL's knowhow and international anti-crime network

Practical cyber defense exercises CYDER

Subcontractor for MIC "Analysis, Defense-model, and Exercise against Cyber Attacks" Project since FY2013. NEC prepares and implements exercise programs (Photo: October 2014 exercise)

Participation in Japan Cybercrime Control Center (JC3)

Consolidate experience of industry, academe, and government (police) in handling cyber threats. Disable the origin of threat to prevent damage. NEC Executive Vice President, Chief Marketing Officer, and Member of the Board Takaaki Shimizu appointed as Executive Director of JC3

(November 2014 Press Release)

NEC's Strengths (Cyber Security 3)

Professional security experts to fight against professional cybercrime groups. Consolidate superior human resources, advanced information, and state-of-the-art technologies into the Cyber Security Factory

Cyber Security Factory



(Started operations in June 2014)

- 24h-365 day monitoring of networks
- System analysis and exercises using simulated environments
- Knowledge-sharing and analysis of cyber attack trends
- Development of advanced security technologies
- Training and improvement the skill level of security administrators
- Evidence preservation and inspection through analysis of digital information

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NEC's Strengths (Physical Security)

Having developed many unique technologies through long years of R&D, NEC takes pride in its high level of innovativeness



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Public Safety Business Execution

Generating synergy in business execution through joint marketing and solution development activities with the Global Safety Division, established in Singapore on April 2013



NEC's Strengths (Achievements in Public Safety)

For approximately 30 years, NEC has deployed more than 500 recognition systems in over 40 countries around the world, as part of its public safety business initiatives in a wide range of countries and regions



Argentina: Tigre City Surveillance Service Case Study

Reduction in crime rate after introduction of service; Horizontal deployment using this case study as a standard model for surveillance services

- Offer city surveillance system as a service to Tigre City, Argentina.
- Use of behavior detection engine to detect actions that could lead to crimes, such as loitering, riding double on motorcycles, riding without helmet, etc.
- Use of face recognition to identify blacklisted persons or missing persons in train stations, etc.
- 40% reduction in car thefts after surveillance was implemented (Between first half of 2013 and first half of 2014)



Horizontal deployment as a service model for public business

> Incident response scenario

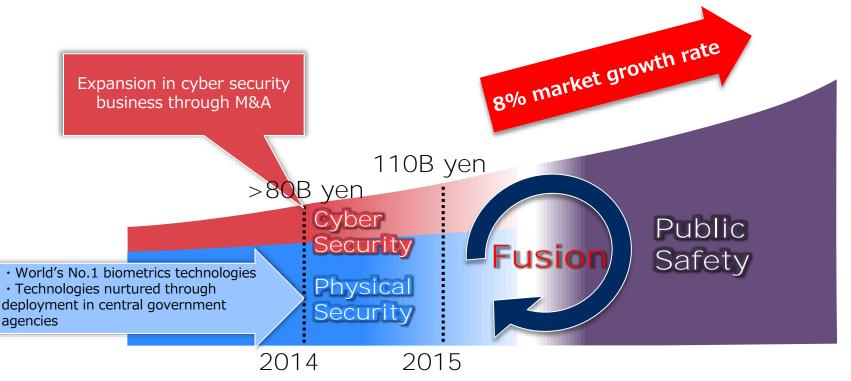
Standard configuration based on purpose and scale

Creation of menu for service level

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Growth of Public Safety Business

Aim to achieve growth exceeding the market growth rate for security-related business



* Market growth rate is inferred from NEC research materials



4. Initiatives for Future Growth



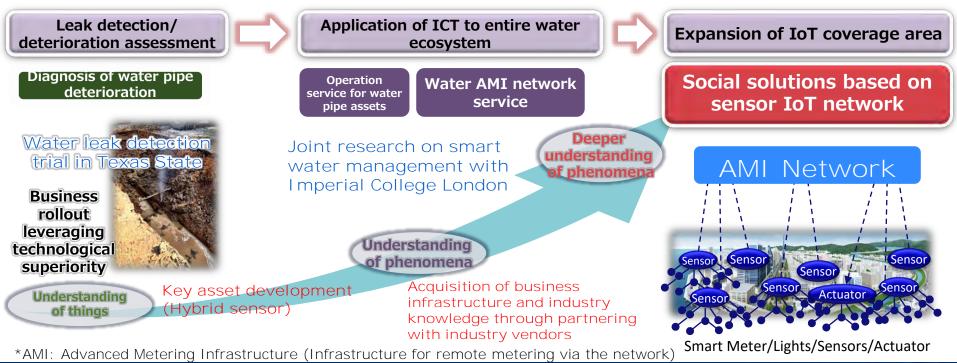
Initiatives for Future Business Expansion (Value Creation through partnership)

Create new social solutions business, and conduct innovative new trial projects in collaboration with partners possessing knowhow in particular domains



Approach from things to phenomena (Water ICT Case Study)

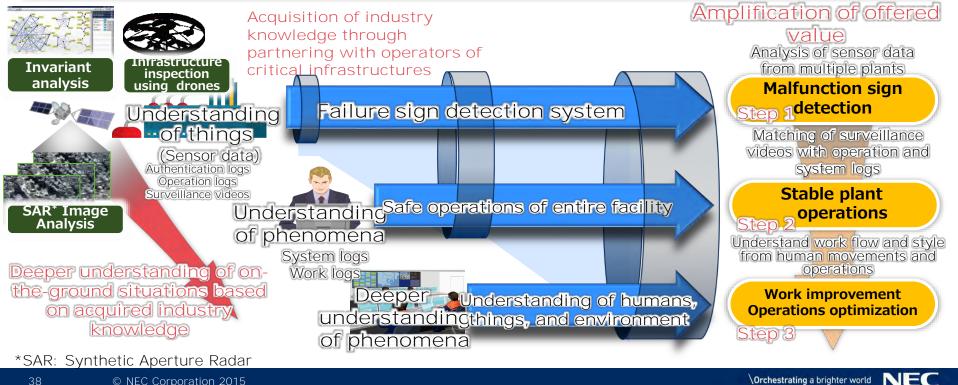
Leverage technologically superior hybrid sensors (vibration, water pressure, temperature) and partnering with industry vendors to enter Water ICT (Water AMI*) market





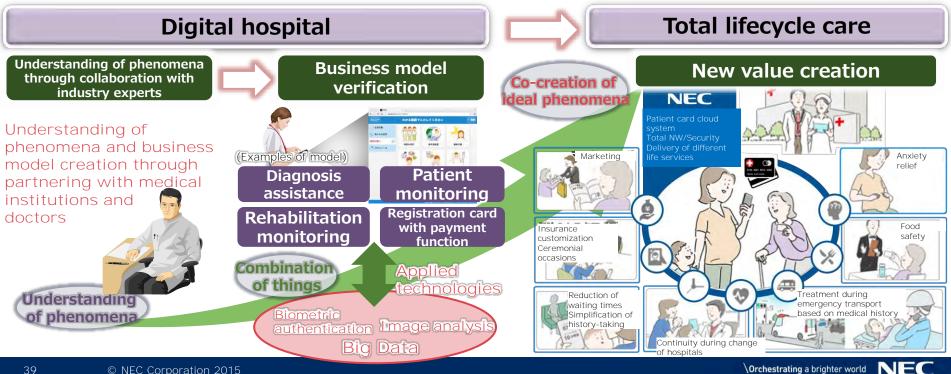
Approach from things to phenomena (Case Study on optimization of critical infrastructure operations)

Using the failure sign detection system based on sensor data as a market entry point, develop into consulting services that support the improvement of operations through an understanding based on acquired knowledge



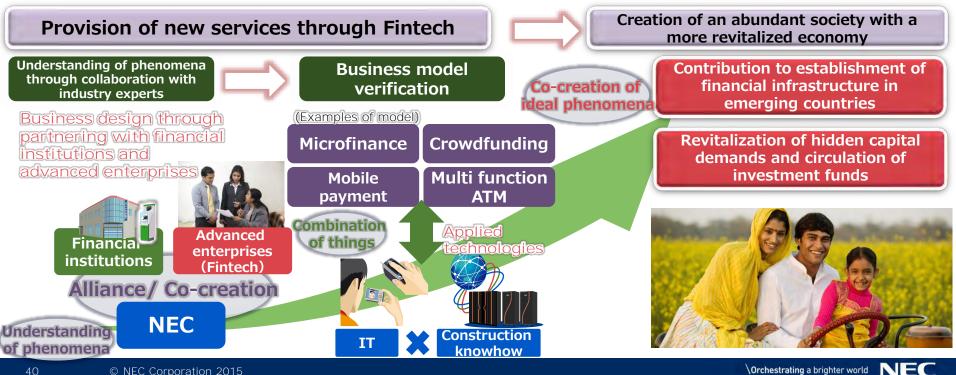
New business creation that begins with a deep understanding of business, operations and social problems (Medicine, healthcare)

Aim to provide total care, which goes beyond healthcare and supports an abundant lifestyle, and create the healthcare support services needed to deliver it



New business creation that begins with a deep understanding of business, operations, and social problems (Finance Case Study)

Aim to create an abundant society with a more revitalized economy through financial services, and create new financial services through partnering with financial institutions



Public ICT market in Japan is foreseen to exhibit stable single-digit growth.

Focus on My Number-related business and public safety business as the current growth drivers:

•Aim for 100B yen in sales in My Number-related business for FY2014-16. Reset targets considering stable order intake.

•Leveraging NEC's global and domestic strengths in public safety business, target of 100 billion yen* in FY2015.

Execute investments aimed at new domain expansion towards medium- to long-term growth.

*Including GSD (Global Safety Division)



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