Research & Development at NEC

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Takemitsu Kunio
Associate Senior Vice President
NEC Corporation
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
Organization Chart

NEC Group

NEC

International Sales and Operations Business Unit

Sales Business Unit
IT Services Business Unit
IT Platform Business Unit
Carrier Network Business Unit
Enterprise Communications Solutions Operations Unit
Social Infrastructure Solutions Business Unit
Personal Solutions Business Unit

Intellectual Asset R&D Unit
Central Research Laboratories
Intellectual Asset Management Unit

Mission: Continuous creation of innovation, and contribute to the growth strategy of NEC group

Corporate Staff

NEC Electronics Corporation
NEC Soft, Ltd.
NEC System Technologies, Ltd.
NEC TOKIN Corporation
NEC LCD Technologies, Ltd.
NEC Personal Products, Ltd.

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Out of the corporate wide R&D expense, investment toward future technology, which is assigned to corporate R&D, is approximately 10%.

societal challenges
- information explosion
- complicated social systems
- environmental issues and energy issues
Organization

Central Research Laboratories

C&C Innovation Research Labs.
- Research of new forms of information processing and communication with an outlook of 10 to 30 years into the future

Business Innovation Center
- Promoting innovation in business using novel technologies developed at Central Research Laboratories

Solution Platforms Research Group

Service Platforms Research Labs.
- Research and development of service platforms and service applications as a basis for new solutions

Common Platform Software Research Labs.
- Research and development of common technologies and information platform technologies for creating new solutions

IT/Network System Platforms Research Group

System Platforms Research Labs.
- Research and development of platforms for telecommunications and IT systems

System Jisso Research Labs.
- Research and development of equipment and module technology

System IP Core Research Labs.
- Research and development of basic technologies that can be implemented in chips as NEC intellectual property (IP) cores thereby raising the competitiveness of NEC equipment and terminals

Materials and Process Research Group

Nano Electronics Research Labs.
- Research and development of new functional electronic materials and devices for achieving advanced telecommunications, IT systems, and information devices

Device Platforms Research Labs.
- Research and development of high-performance, high-function, and high-efficiency semiconductor devices for achieving advanced telecommunications, IT systems, and information devices

Number of Employees: Domestic 1000, Overseas 300

NEC Laboratories America, Inc
(Princeton, Silicon Valley, U.S.A.)

NEC Laboratories Europe
(Heidelberg, Bonn, Germany / Acton, U.K.)

NEC Laboratories China
(Beijing, China)
R&D Management that adapts to changing Environmental Trends

Transformation of R&D management is necessary in order to adapt to the changing business environment and eroding Added-Value.

- Maximize ROI of R&D

Execute the following initiatives as specific actions.

1. Leverage Open Innovation
   - Speed up and improve efficient R&D by acquiring external technologies

2. Challenge toward Concurrent R&D (R&D + Marketing)
   - Create values with leading markets/customers at early stages of R&D