

CASE STUDY



Skills Training with VR

We have developed a VR training system that allows athletes to experience and train in sports within a virtual environment. Generated based on omni-directional images and sensors, scenes in which a ball is being thrown are reproduced as if you are the batter in a game. With a VR head-mounted display, skills such as visual discernment of movement and physical performance can be perfected. The technology can be applied to many fields.



Contact Center Quality Advanced with AI

We are leveraging AI technology to improve the efficiency and quality of service at call centers. NTT Laboratory's "Semantic Understanding Query" and speech recognition technology (which has achieved the world's best performance in noisy public areas) are being utilized. As a result, the optimization of real-time text conversion of customers' voice, automatic proposal of candidate responses, and automatic record of response histories have been achieved.

NTT DATA Technology Foresight 2017



ABOUT NTT DATA

NTT DATA is a leading IT services provider and global innovation partner headquartered in Tokyo, with business operations in over 40 countries. Our emphasis is on long-term commitment, combining global reach with local intimacy to provide premier professional services varying from consulting and systems development to outsourcing. For more information, visit www.nttdata.com.

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Contact NTT DATA Technology Foresight team if you are interested in knowing more about any of these trends.

Looking ahead: Technology trends driving business innovation.

NTT DATA Technology Foresight aims to map out the impact that technology will have on society and business in the coming years and outline expected business innovation.

Information Society Trend

We anticipate four key trends will have significant impacts on our clients' medium to long-term business.

Power of the Individual

The growing influence of individuals and startup businesses are transforming established systems in societies and industries. This is encouraging businesses to restructure, increasing choices for consumers, and enabling society to become more flexible.



IST 01

Decentralized Collaboration

Dynamic, digital ecosystems will emerge in which constituents will interact collaboratively over decentralized networks. This open exchange of information and resources will revolutionize both workplaces and societies.



IST 02

Ever-Evolving Things

Data analytics will fuel innovation. Products will become ever-evolving things, continuously improving functionality and performance. This will boost customer value and promote the transformation of business models.



IST 03

Physical Digital Convergence

The physical-digital convergence will broaden in scope increasing the flexible and effective use of technology. This will create new value as limitations in time, space, and ability are removed.



IST 04

Pervasive Artificial Intelligence

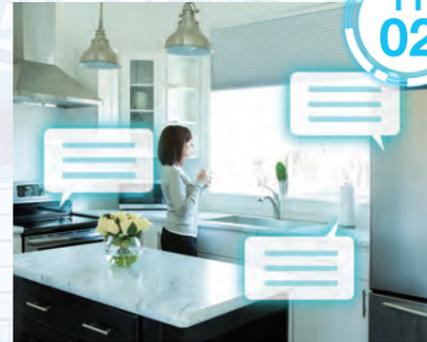
Widely accessible advanced machine learning will result in expanded use of AI (Artificial Intelligence). AI will improve convenience, resolve intellectual labor shortages, and drastically advance science. Mastery of AI will become a critical component of competitiveness.



TT 01

Conversational Computing

The advancement of voice recognition technology with enhanced context/emotion interpretation will make natural and seamless people-to-technology interactions available. Such intelligently interactive systems will change human behaviors, societal interactions, and decision making.



TT 02

Environment-Aware Robotics

Advancements in perception technology for images and voice is enabling robots to acquire enhanced environmental awareness, providing opportunities to exploit its use within products such as self-driving cars and drones. These higher level operational capabilities will transform the industrial structure.



TT 03

Precision Life Science

DNA Analysis, biosensors, and EHR continuously generate data related to individuals, accelerating the field of data-driven life sciences and enabling root cause analysis of genetics, personal habits, and environmental factors to aid in the treatment and preventive care of individuals.



TT 04

Synthetic Reality

With the rapid evolution and diffusion of virtual reality (VR) and augmented reality (AR) devices, the digital and real worlds are being further integrated and expanded. Human perception will become synthesized within new 3D spaces, allowing the sharing of knowledge and distributed experiences.



TT 05

Security for the IoT Era

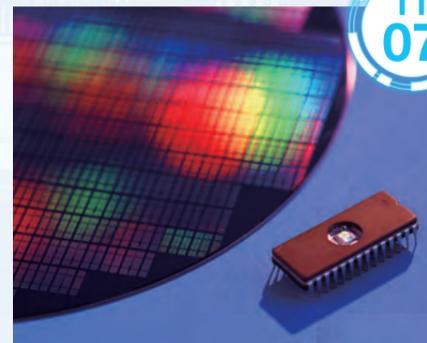
IoT devices have enhanced value by collecting more detailed and broader information, but have increased the risks from data breaches and large scale cyberattacks. While value associated with utilization is realized, it is now necessary to change the way we treat and protect data.



TT 06

Heterogeneity in IT Infrastructures

To supply the massive computing performance required for AI and IoT, new infrastructure is needed for both general use and specific purposes. Cloud services will rapidly enable such future flexible infrastructure.



TT 07

Experience Design Innovation

Development of the API economy and UX design are simplifying the creation and continuous evolution of innovative services. Propagation of IoT will drastically change interactions between human and systems resulting in more natural and freer user experiences.



TT 08