

## Shaping the Future with IT

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NTT DATA was founded in 1988 as a subsidiary of NTT dedicated to systems integration and network system services. Since its establishment the company has led the software service industry in Japan as a pioneer of information system development, having engineered much of Japan's social information technology (IT) infrastructure through a series of large projects for both the public and private sectors. IT permeates every aspect of life in society today. It is indispensable both in our daily lives and for business. Our corporate message is "Insight for the New Paradigm—Shaping the Future with IT" and in utilizing our technical capabilities, proven reliability, and vision, we are committed, together with our customers, to creating new services and new markets with IT at their core.

The NTT DATA Research and Development Headquarters is working on leading-edge technologies with a focus on their applicability to our business as well as the creation of new added value through technology. Currently, our R&D is aimed at realizing two visions for adding new value using IT in the ubiquitous network society. The first, 'e-collaboration', creates new added value by enabling seamless networking between individuals, businesses, and even government organizations. The second, the 'tangible future', concerns confident decision-making based on the swift collection and analysis of the vast amount of information that surrounds us. For this purpose, we are conducting R&D in six areas:

- Collaborative computing: RFID (radio frequency identification) solution development, sensor networks, and context awareness
- Tangible intelligence: data mining, large-scale high-speed full-text searching, metadata handling, and bioinformatics
- User interfaces: voice recognition, multi-channel multi-modal user interfaces, and universal design
- System architecture: open systems for mission

critical services, and grid computing

- Information security: digital document lifecycle management, prevention of information leakage, biometrics, and integrated countermeasure against network intrusion
- Software engineering: model-orientated system development, model-driven architecture (MDA), and web services

Our world today is changing in a big way: personal values, lifestyles, and commercial and business structures are all undergoing huge changes. Our systems integrators build and deliver information systems, but to ensure that IT is introduced smoothly into society, we are finding it necessary to consider various social issues such as new legislation and business practices to exploit the potential of our technologies and alleviate potentially negative impacts such as the digital divide. We are extending our efforts to propose solutions to these issues so that consensus over them will be reached through dialogue. We are currently looking at the fields of e-democracy, security and privacy, and personal healthcare. By working actively on both the development of technologies based on our two visions for the creation of new added value and building a consensus for resolving social issues, we hope to create services that contribute to society.

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