

# Big data challenge

## Recent big data analysis at NTT Laboratories

**Big data era** : Cloud, mobile, social, and big data are new trends in ICT. A large market will be created in various sectors by using big data (e.g., MGI reports : US healthcare will be able to create more than \$300 billion in value annually)

NTT R&D will realize innovative services by using big data, and change from "provider" to "**value partner**" in the new stage



Sensor info.

Big data analysis

Learning latent info. behind the data from large and various kinds of data

- causal analysis
- sign discovery
- future prediction etc.

Big data analysis makes it possible to support decisions based on "present" and "future" data in all economic and social activities

### MLC : Machine Learning and Data Science Center

Cooperation with (non-ICT) associated experts on application domains is indispensable for big data analysis

Mission

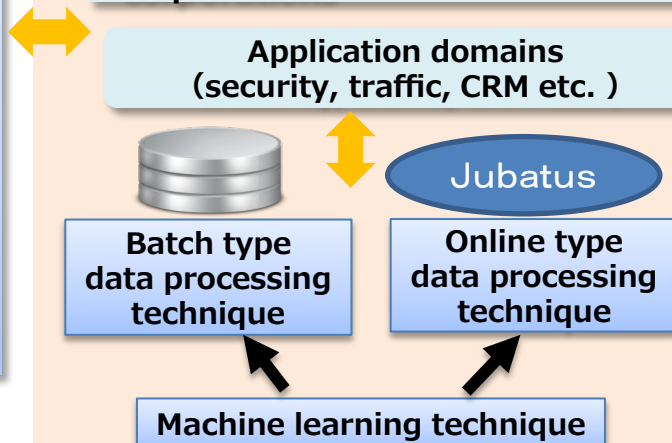
- Develop innovative technologies
- Provide technical assistance in response to requests from business corporations

**Database techniques :**  
Accumulation, complication and search techniques for various kinds of data

**Parallel distributed processing techniques :**  
Fast computation of large-scale data

**Machine learning techniques :**  
Analytical techniques for creating new value from latent information

Business corporations, Other research organizations



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