

Press Conference President of JST

April 18, 2013

Japan Science and Technology Agency



Innovation Creation through Big Data

JAPAN SCIENCE AND TECHNOLOGY AGENCY

FY 2013 Key Initiatives - Innovation Creation through Big Data -





Innovation Design in the Big Data Era

Eliminating obstacles to integrating big data into the sustainable circulation of scientific and technological innovation



JST 科学技術振興機構



Inter-ministry Collaboration



Inter-ministry Collaboration Promoting coordination between related ministries and research institutions in order to share research data

Seeds of New Technology

Establishing Two New Research Areas under a Single Strategic Sector



Strategic Sector

文部科学省 MINISTRY OF EDUCATION, CULTURE, SPORTS, SCIENCE AND TECHNOLOGY: JAPAN

Creation, advancement, and systematization of innovative information technologies and their underlying mathematical methodologies for obtaining new knowledge and insight from the use of big data across different fields

Objectives to be achieved - 1

Creation of advanced application technologies for developing the use of big data in various fields

Objectives to be achieved - 2

Creation of advanced core technologies for the integration and analysis of big data

Research Area-1: Big Data Application

CREST

Advanced application technologies to boost big data utilization for multiple-field



scientific discovery and social problem solving

Research Supervisor

Yuzuru Tanaka (Professor, Hokkaido University)

Research Area-2: Big Data Infrastructure

CREST & PRESTO Advanced core technologies for big data integration

Research Supervisor

Masaru Kitsuregawa

(Director General, National Institute of Informatics)



独立行政法人 科学技術振興機構 Japan Science and Technology Agency

Innovation through Fusing Two Areas

Value Creation through Big Data

Seeds of New

Technology

《Environment & Energy》 《Medical Care & Health》 《Resilience & Safety/Security》





Inter-ministry Collaboration

Scientific Knowledge Infrastructure

New Discovery in the Life Sciences by Analyzing Big Data



Promotion of the Integrated Use of Life Science Databases



Providing information infrastructure for big data to serve drug development and improvement of breed

- Integrating over 1,000 databases in the life sciences to maximize their value
- Contributing to both Japanese and international users



Scientific Knowledge Infrastructure

Constructing Interdisciplinary Platforms

Providing platforms for harnessing scientific data (images, measurement data) with interdisciplinary platforms of researchers, papers, etc. at the core





Inter-ministry Collaboration



FY 2013 Key Initiatives - Innovation Creation through Big Data -

Leading "Top Science" into "Top Innovation"

《Prioritizing research towards value creation in society》

Seeds of New Technology

CREST, PRESTO

Establishing two new research areas under a single strategic sector with the aim of creating innovation by fusing these areas

Scientific Knowledge Infrastructure

NBDC

New discovery in the life sciences by analyzing big data J-GLOBAL etc.

Constructing interdisciplinary platforms

Inter-ministry Collaboration