Embassy of Japan in the UK

Overview on the Current Policy Trends in Robotics and AI in JAPAN

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New Target set by the 5th S&T Basic Plans

Science and Technology Basic Law (1995)

S&T Basic Plan

1st Basic Plan (1996-00)

- Support plan for 10,000 post-docs
- Implementation of evaluation system
- R&D expenditure over ¥17tri

2nd Basic Plan (2001-05)

- R&D Prioritization (Life science, IT, Environmental science, Nanotechnology & Materials)
- Doubling competitive research funds
- R&D expenditure over ¥24tri

3rd Basic Plan (2006-10)

- R&D Prioritization with area-setting
- Key technologies of national importance
- R&D expenditure over ¥25tri

4th Basic Plan (2011-15)

- Issue-driven Approach instead of Discipline-oriented Approach
  (1) Recovery and Revitalization from the Disaster (2) Green Innovation (3) Life Innovation
- R&D expenditure over ¥25tri

Promotion of R&D to realise a "**Super Smart Society**"

Total budget: ¥26 trillion

approved on 22 January by the Cabinet

NEW

5th S&T Basic Plan (April,2016-March,2020)

AIP: Advanced Integrated Intelligence Platform Project

Integrated project of artificial intelligence/big data/IoT/cyber security

Global trends

- **Accumulated big data, and quantitatively and qualitatively expanded sensors** in each field (IoT: Internet of Things)
- Significant technological breakthrough in **Artificial Intelligence** (that captures characteristics by itself)
- At the same time, a growing need to **ensure cyber security** (Developing human resources is vital for responding to increasing threats)

◆ Response by Ministry of Education, Culture, Sports, Science and Technology (MEXT)

(1) Creating new value by **analyzing big data** possessed by MEXT

(2) To achieve the above target, **developing and utilizing innovative new Artificial Intelligence technologies**

(3) To collect big data, utilizing advanced **sensors/IoT technologies**, while establishing a robust **security system**

◆ **Collaborating with METI (Ministry of Economy, Trade and Industry) and MIA(Ministry of Internal Affairs and Communications)** to establish an integrated system from basic research to social application .

理化学研究所

AIP Centre (RIKEN)

1.5 billion yen (FY2016)

I. Developing innovative new AI technologies learned from human intellectual activities

II. Utilizing Artificial intelligence and big data to advance science in many fields

III. Implementation in many application fields that create social/economic value

IV. Addressing ethical/social issues in a society where artificial intelligence is widely spread

V. Developing human resources for data science and cyber security

collaboration

JST's Research Funding (Strategic Basic Research Program)

4 billion yen (FY2016)

Widely soliciting for proposals from researchers and establishing a temporary cross-organization/cross-field research system to support creative research

Collaboration system of 3 ministries in R&D of next-generation artificial intelligence technology

(1) Accumulating big data, and quantitatively and qualitatively expanding sensors in each field (IoT: Internet of Things)
(2) Significant technological breakthrough in Artificial Intelligence (that captures characteristics by itself)
(3) Providing R&D results to relevant ministries to create more new industries and to enhance international competitiveness