The Asia S&T Strategic Cooperation Promotion Program

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Ministry of Education, Culture, Sports, Science & Technology (MEXT)

JAPAN
Contents

- Science and Technology Policy of MEXT
- The Asia S&T Strategic Cooperation Promotion Program
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Five S & T Strategies of MEXT

- Develop *human resources*
- Promote *basic research*
- Create *innovation* through a continuous cycle of intellectual creation and utilization
- Promote *key technologies* as a basis for national existence
- Promote *international activities*
Promoting the international activities strategically in a period of worldwide mega-competition, responding appropriately to the international environment and attracting outstanding researchers from around the world.

Strategic Promotion of International Activities in S&T

1. Strengthening S&T cooperation with Asian countries
2. Promoting international joint research
3. Attracting outstanding human resources


Policies for the Promotion of the International Activity of S&T

● Approaches for promoting International Activity of S&T
  - Competition and Cooperation
  - Cooperation (As Equal Partnership)
    - Cooperation on the basis of equality and mutual benefit
  - Support
    - Approach toward future cooperation

● Agreement of S&T cooperation
  - 26 S&T cooperation agreements with 40 countries
  - 3 EPA (Including S & T cooperation)
### S&T-Related Budget in FY2006

#### Ministry S&T-Related Budget

<table>
<thead>
<tr>
<th>Ministry</th>
<th>S&amp;T-Related Budget (tri yen)</th>
<th>(bil USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEXT</td>
<td>2.30</td>
<td>(19.3)</td>
</tr>
<tr>
<td>METI</td>
<td>0.56</td>
<td>(4.7)</td>
</tr>
<tr>
<td>MHLW</td>
<td>0.13</td>
<td>(1.1)</td>
</tr>
<tr>
<td>MAFF</td>
<td>0.12</td>
<td>(1.0)</td>
</tr>
<tr>
<td>Defense Agency</td>
<td>0.18</td>
<td>(1.5)</td>
</tr>
<tr>
<td>Others</td>
<td>0.28</td>
<td>(2.4)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3.57</strong></td>
<td><strong>(30.0)</strong></td>
</tr>
</tbody>
</table>

**NOTE**  The exchange rate : FY2006. 1 USD = 119 JPY
Breakdown of MEXT S&T-Related Budget

**S&T-Related Budget in FY2006**

- **MEXT:** 2,303 (65%)
- **Others:** 1,269 (35%)

**Grants-in-aid for Scientific Research:** 1,895 (8%)

**Breakdown of MEXT**

- **National University Corporations, etc.:** 12,237 (53%)
- **Independent Administrative Institutions:** 6,600 (29%)
- **Others:** 2,305 (10%)

(Unit: 100 million JPY)
**Competitive Funding Programs in Japan, FY2006**

Total Budget in FY2006: 467,236 (mil. yen)

Total Budget allocated to MEXT: 360,864 (mil. yen)

<table>
<thead>
<tr>
<th>Source</th>
<th>Allocation (mil. yen)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEXT (Grant-in-Aid for Academic Research)</td>
<td>38,171</td>
</tr>
<tr>
<td>MEXT (Program for Promotion of Strategic and Creative Research)</td>
<td>29,595</td>
</tr>
<tr>
<td>MEXT (Special Coordination Funds for Promoting S&amp;T)</td>
<td>188,000</td>
</tr>
<tr>
<td>MEXT (the 21st Century COE Program)</td>
<td>47,598</td>
</tr>
<tr>
<td>MEXT (Other Programs)</td>
<td>47,595</td>
</tr>
<tr>
<td>Ministry of Internal Affairs and Communications (MIC)</td>
<td>524</td>
</tr>
<tr>
<td>Ministry of Health, Labour and Welfare (MHLW)</td>
<td>7,656</td>
</tr>
<tr>
<td>Ministry of Agriculture, Forestry and Fisheries (MAFF)</td>
<td>30,696</td>
</tr>
<tr>
<td>Ministry of Economy, Trade and Industry (METI)</td>
<td>794</td>
</tr>
<tr>
<td>Ministry of Land Infrastructure and Transport (MLIT)</td>
<td>12,403</td>
</tr>
</tbody>
</table>

**Grants-in-Aid for Scientific Research**

- **Special Coordination Funds for Promoting S&T**: 38,171
- **Program for Promotion of Strategic and Creative Research**: 47,598
- **Total Budget in FY2006**: 467,236
- **Total Budget allocated to MEXT**: 360,864
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Purpose:

The Strategic Promotion of S&T Partnerships in Asia

- By expanding an open and equal partnership with Asian countries such as ASEAN members, China, Korea and India, Japan will promote the development of S&T in this region.

- Especially, by Tackling the Challenges: solutions for common regional issues, Asian contributions for solving global problems (environment and energy, disaster reduction, pandemics, etc.), the creation of Asian S&T and securing S&T human resources in the aforementioned fields, Asian superiority in S&T will be maintained.

- By constructing a sustainable framework (by carrying out non-temporary S&T cooperation), the S&T community in Asia will be strengthened.
1. Strategic International Exchanges

- To carry out the strategic and flexible support for exchanges at multiple levels such as universities, research institutes, academia and research funding agencies in Asia (The development of the Network/Community by organizing International Meeting and exchanging researchers).
- The coordinating organization will be designated to carry out this program in Japan.
- **Approx 150 million yen/year in principle for 5 years (total budget)**

2. Joint R&D in Common Regional Issues

- Considering the feature and the situation of each region such as i) East Asia (mainly China and Korea), ii) Southeast Asia (mainly ASEAN countries), iii) The West Asia (west of India) and iv) The other Asian region, To support the startup and initial cooperative activities which are politically necessary for the solution of the regional common issues based on the agreement between governments.
- Cooperative areas will be politically arranged considering the feature and the situation in each region. All Japanese research institutes can apply for this program with having partners in Asian region.
- **Approx 30 million yen/year/case × 10 cases in principle for 3 years**
Diverse S&T cooperation as Asian contributions for solutions to common regional issues, and global problems (environment, energy, disaster reduction, pandemics, etc.) will be enhanced.
The Asia S&T Strategic Cooperation Promotion Program (Adopted Projects)
(Special Coordination Funds for Promoting Science and Technology in 2006 Fiscal Year)

2. Joint R&D in Common Regional Issues

1-1 Response to Natural Disasters
- Disaster Reduction Hyperbase-Asian Application (DRH-Asia)
  Nat'l Res. Inst. for Earth Science and Disaster Prevention [NIED]
- Collaborative Research and Development Project for Disaster Mitigation on Network of Research Institutes in Earthquake Prone Areas in Asia” Building Research Institute

1-2 Fight against Infectious Diseases
- Epidemiological Research on Pathogenic Fungi in China, and Development of Research Regional Bases for Fungal Infections.” Chiba Univ. (Research Center for Pathogenic Fungi and Microbial Toxicooses)
- Pilot study to develop a network for prevention and control of leptospirosis in Asia” Kyushu Univ. (Dept. of Bacteriology, Fac. of Medical Sciences)

2-2 Development within Asia of New ICT-related International Standards
- Infrastructural Communication Technologies Supporting Fully Ubiquitous Information Society” Kyushu Univ.
- Foundation of Asian Speech Translation Research Basis” Advanced Telecommunications Research Inst. Internatl'l, Inc. [ATR] (Spoken Language Communication Research Labs.)

[3] Other Issues
- Establishment of Bioproduction Research Centre for Southeast Asian Bioresources” Osaka Univ.(Internatl'l Center for Biotechnology)

1. Strategic International Exchanges
“Strategy for Building the Asian S&T Community” Japan Society for the Promotion of Science [JSPS]

[1] S&T Contributions to Urgent Socio-economic Issues
1-1 Response to Natural Disasters
- Disaster Reduction Hyperbase-Asian Application (DRH-Asia)” Nat'l Res. Inst. for Earth Science and Disaster Prevention [NIED]
- Collaborative Research and Development Project for Disaster Mitigation on Network of Research Institutes in Earthquake Prone Areas in Asia” Building Research Institute

2-1 Development of Sustainable Environmental and Energy Technologies
- Studies on Extracting Resources from Bio-Wastes by Refinery Technology” Nagoya Univ.(EcoTopia Science Inst.)

2-2 Development within Asia of New ICT-related International Standards
- Infrastructural Communication Technologies Supporting Fully Ubiquitous Information Society” Kyushu Univ.
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[3] Other Issues
- Establishment of Bioproduction Research Centre for Southeast Asian Bioresources” Osaka Univ.(Internatl'l Center for Biotechnology)
2007 Fiscal Year (Second year) Schedule

Schedule

December 2006 call for proposals
February 2007 deadline for proposals

The Program calls for proposal applications from all Japanese researchers who plan to cooperate with partners in the Asian region.

From this year, the new theme will be added to this program.
“The Creation of high technology from Asia through the cooperation with India.”
An information platform "Disaster Reduction Hyperbase - Asian Application (DRH-Asia)" shall be developed to accommodate disaster reduction technologies in the WEB-base database to aid disaster reduction policy enhancements in Asian countries.

※The project is also intended to contribute to DRH with a global perspective through inter-regional collaboration with a notion of implementing the Hyogo Frame for Action 2005-2015 adopted at the UN World Conference on Disaster Reduction, Hyogo-Kobe, January 2005.

Collaborative research on "Risk Management System of Buildings", "Earthquake Resistant Construction Technology", "Strategy for Dissemination of Earthquake Resistant Technology into Society" aiming to develop ability for autonomous capability of Research Institutes in each country.