

Japan Science and Technology Agency

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1

Japan Science and Technology Agency (JST)

- History
- Japanese Science and Technology Policy and Budget
- Japan Science and Technology Basic Law and Basic Plan
- Independent Administrative Institution
- JST Position in Japanese Administrative Structure
- JST Vision
- JST Organization Chart and Budget
- JST Services
- JST PDCA Cycle



What is JST ?

- The Japanese Science and Technology Agency (JST) is an independent administrative institution under the authority of the Ministry of Education, Culture, Sports, Science and Technology (MEXT) in Japan.
- JST supports advanced research activities to realize a better standard of living through the utilization of science and technology.
- JST is engaged in a wide variety of projects to develop interest in science and technology.









Recent Major Events in S&T and Policy in Japan

Year	S&T Related Acts	Administrative Reform
1995	The Science and Technology Basic Law	
1996 -2000	The Science and Technology Basic Plan	
1999	Act on Special Measures for Industrial Revitalization	
2001		National Administrative Reform
2001 -2005	The 2 nd Science and Technology Basic Plan	 National Research Institutes Public Corporations ➡ Independent Administrative Institutions (2003, JST)
2004		National Universities
2006 -2010	The 3 rd Science and Technology Basic Plan	
		7

The Science and Technology Basic Law

- This Law requires the government to formulate and implement comprehensive measures in relation to the promotion of S&T, including a higher standard of S&T, the development of Japanese economy and society, the improvement of the welfare of the nation, and the sustainable development of human society.
- To accomplish these objectives, the Law stipulates that the government must draw up a basic plan for S&T.

The Basic Plan stipulates the following :

- Comprehensive plans for the promotion of R&D.
- The policies taken comprehensively and systematically by the Government with regard to the installation of R&D facilities and equipment.
- The promotion of information intensive R&D activities.
- Maintenance of the necessary environment for the promotion of R&D.
- Other matters required to promote S&T.



NOTE : Exchange rate : 1 USD = 100 JPY





Independent Administrative Institution (IAI)

- IAI is a legal body for Japanese governmental organizations regulated by the Basic Law on Reforming Government Ministries of 1998
- Concept :

To separate governmental ministries and agencies into two functional groups: planning and operational

- Planning functions will continue to be carried out by government-based ministries and agencies.
- Operational functions will transferred to IAIs.

Independent Administrative Institution (IAI)

- Purposes
 - To improve quality of operations
 - To increase activity in operations
 - To streamline operations
 - To increase project autonomy
 - To improve transparency
- Features
 - Medium-term Objectives / Medium-term Plan (Five-Year Plans) / Fiscal Year Plan
 - IAI President's management
 - Evaluation by the Evaluation Committee
 - Obligation of transparency
 - Budgets
 - Personnel







JST Long-term Vision

• Vision formulated in March 2009

- To define our role in contributing to society and the general public through the promotion of science and technology with regard to national science and technology policy trends.

- As JST has been an independent administrative institution for just over five years now, we thought it was time to redefine and share our mission and objectives.

• Outlines the specific objectives for JST over the next five years, and includes the general aim for the next ten years.



JST Long-term Vision			
Mission	Value	Vision	Action Plans
We promote science and technology for the future in order to advance national welfare and prosperity.			



JST Long-term Vision				
Mi	ssion	Value	Vision	Action Plans
1. 2.	To promo technolog To suppo all people technolog	ote innovation b gy. ort the developm e who advance gy.	ased on science nent of an enviro and utilize scier	e and onment for nce and
3.	To promo developn in interna	ote science and nent, and contri ational collabora	technology for bute Japanese ations.	sustainable leadership

Positioning of Our Services in the Visions

JST aims to formulate and progress the science and technology network spread throughout Japan and the world based on this Vision.









JST Annual Budget

(Unit: US Dollars in Millions)





- Initial Budget (for Japan Science and
 - Technology Corporation)
- Supplementary Budget

NOTE : Exchange rate : 1 USD = 100 JPY



Creating Advanced Technology (Solution-Oriented Basic Research)



Support solution-oriented basic research for strategic sectors set by the government.



Promoting Technology Transfer and Innovation

Link universities and corporations to promote the sharing of research results with society.

- Contribution to the design of the national intellectual property strategies
- Support for commercialized R&D through industry-academia collaboration
- Support for creation of regional innovation

Details will be presented tomorrow morning



Large-scale super-high-resolution scanner specialized for cultural property

JST Innovation Plaza Kyoto



Scheduled for 19th Sep.

TZU

Promoting the Dissemination of Scientific and Technological Information



 JST promotes and disseminates scientific and technical information (STI) for a Nation Built on Scientific and Technological Creativity.

- STI is the "life blood of research and innovation".
- Database services and portals
 - Literature Databases
 - Research Information Databases
 - Factual Databases and Portals





JST General Link center Of Basic information for ALL S&T



http://jglobal.jst.go.jp/

- Newly launched in March, 2009.
- Identifying and connecting different types of STI for new ideas and insights.



Literature DB

Dream

http://pr.jst.go.jp/jdream2/

JST Document REtrieval system for Academic and Medical fields II

- An enhanced web-based literature database provides easy access to STM articles in Japan and abroad.
- Launched in April, 2006.
- Some search results of JDream II are linked to several sites, providing full text articles, via J-STAGE, CrossRef, PubMed and others.

科学技術全般ファイル	医学分野	一般ファイル	無料ファイル
 ● JSTPlus (科学技術全分野 1981~) ● JST7580 (科学技術全分野 1975~1980) ● JSTPlus + JST7580 ● JSTPatM (特許·文献統合DB) 	 JMEDPlus (国内発行の医学薬学 医学・薬学予稿集会 MEDLINE (国内海外の医学関連 MEDLINE + JM JDream 	*等の文献情報 1981~) <u>全文データベース</u> 2分野の文献情報 1950~) EDPlus	 JCHEM (化学物質データベース) JSTChina (中国文献DB) 研修JSTPlus 研修JMEDPlus
JSTマルチファ	・イル	その他の	サービス
○JSTPlus+JMEDPlus ○JSTPlus+JMEDPlus+JST7580		■ <u>J-DOCS</u> (文献複写の) ■ <u>JST資料所蔵目録 Web検</u>	お申込み <mark>有料</mark>) <u>索システム</u> (OPAC 無料)
シン	ブルモード	コマンドモード	

TZU	Promoting Science Communication	
	 Promote Science and Technology related educational support 	
	 Provide Support for Science Communication 	



JST supports education in science, mathematics, and technology, focusing on the following:

- Finding and fostering talents
- The study and practice of advanced educational programs
- The development and promotion of collaborative education between schools and other organizations
- Enhancing teachers' educational activities

Science Education Assistant Allocation Program

- The purpose is to enhance observation and experimentation activities in elementary schools and to stimulate teachers to improve their skills.
- Science Education Assistants (SEAs) assist with observation and experimentation sessions, including setup and cleanup, and advise on teaching methods.
- Guest teachers give classroom sessions with a special emphasis on the social implication of a particular area of science.
- Executed by the administrations of high schools.



 The purpose is to push high schools to improve human resources in Science and Technology.

• Each SSH designated by MEXT has developed its own curriculum, teaching method, and material on science and mathematics in cooperation with universities and research institutes since 2002.

 Executed by administration of high schools and secondary education schools.

• As of 2009, there were 106 SSHs all over Japan.



JST provides nationwide opportunities for the general public, particularly the youth, to develop interest in science and technology through experience and learning.

- Enhancing activities of relevant regional organizations
- Increasing opportunities for experiencing science and technology in familiar settings
- Promoting dialog between scientists and citizens
- Providing science and technology information to the public



Support Project of Regional Activities for Understanding of Science and Technology

This activity supports S&T related hands-on activities for local students and residents, and the establishment of regional and national networks in which the local governments, universities, and other participating institutions can connect with each other.



Experiencing nature and modern agriculture (Atsumi, Aichi)



Learning science in a tangible way



Science Agora



This is the largest science communication event in Japan held annually (since 2006) for everyone from academia, government institutions, NPOs, science museums and, of course, for citizens.



http://scienceagora.org/

Date	November 22-23, 2008	

Overview of the events in 2008

Bato	
Place	Tokyo International Exchange Center, Miraikan, and AIST Tokyo Water front
Number of Participants	6109
Number of exhibitors	138 Organizations
Events and Workshops	Workshops, symposia, exhibitions, demonstrative experiments, science shows

National Museum of Emerging Science and Innovation (Miraikan) http://www.miraikan.jst.go.jp/index_e.html

State-of-the-art knowledge and innovation is exhibited in a fun and easy-to-understand way

- Four themes:
- The Earth Environment and Frontiers
- Life Science
- Information Science and Technology for Society
- Innovation and the Future

Front-line scientists and engineers join in as supervisors and advisors.

• Exhibitions are designed and supervised by front-line scientists and engineers.

Technique development by experts; Explanation, Demonstration, and Dialogue

- "Science Communicators" develop and introduce new tools and methods to convey cutting-edge science and technology.
- "Science Communicators" convey cutting-edge science and technology through dialogues with visitors.





🎨 Miraikan

Scheduled for 17th Sep.



Promote strategic international cooperation in the areas of science and technology

Strategic International Cooperative Program (SICP)

 Science and Technology Research Partnership for Sustainable Development(SATREPS)

Details will be presented tomorrow afternoon

