

Japan Science and Technology Agency

Facts and Figures 2018



Mission, Operations and Budgets

Mission

JST, an advanced network-based research institute that promotes the state-of-the-art R&D projects, boldly leads the way for creation of innovation for tomorrow's world together with society.

Operations



Formulating visionary R&D strategies for co-creation of the future with society

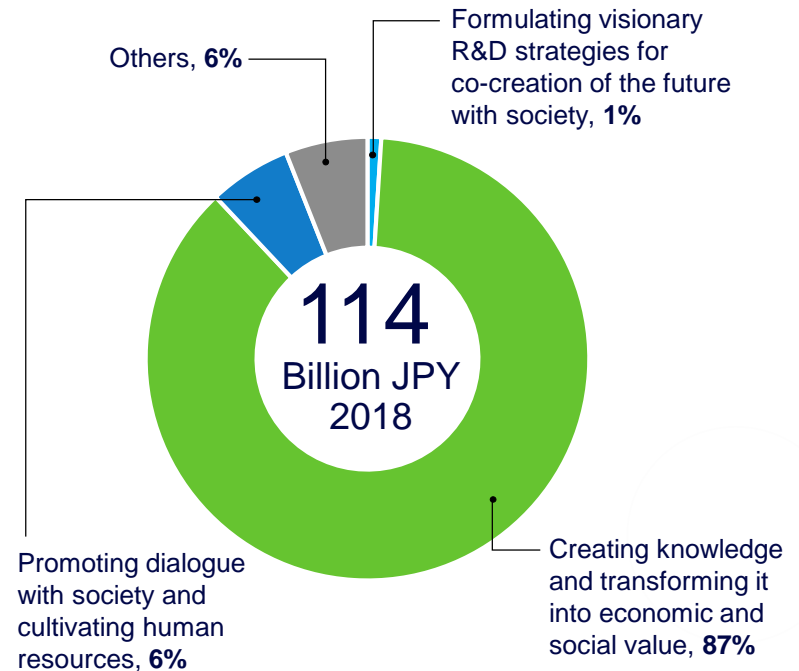


Creating knowledge and transforming it into economic and social value



Promoting dialogue with society and cultivating human resources

Budgets



R&D Strategies

Through dialogue with various stakeholders and objective analysis of data, JST formulates research and development strategies with a view to the future.



Number of **collaborators** to the “Panoramic View Reports”

1,298

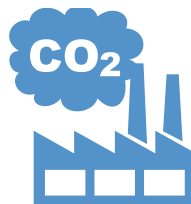
(2017)



Number of **proposals** for STI policies

120

(2004-2016)



Social scenarios toward low carbon societies

66

(2012-2016)



Creating Knowledge

As a network-based research institute, JST takes the initiative to promote research and development activities linked to innovation, and tackles economic and social issues through the practical application of its research output as well as international collaborative research.



Number of **projects**

1,107

(2012-2016)



Research articles

30,275

(2012-2016)



Top 1% citation articles
from JST in Japan

2.3%

(2016)



International award
winnings

364

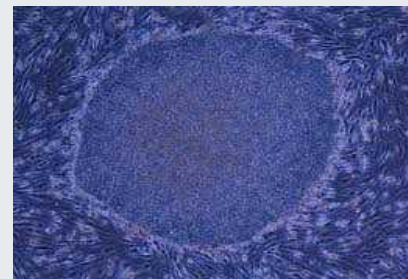
(2012-2016)

2016 The Japan Prize

Professor Hideo Hosono
(Tokyo Institute of Technology)
ERATO, SORST, ACCEL

2012 The Nobel Prize in Physiology or Medicine

Professor Shinya Yamanaka
(Kyoto University)
CREST, Yamanaka iPS Cell
Project, Core Center for iPS Cell
Research




Source: Center for iPS Cell Research and
Application, Kyoto University (CiRA)

Economic Value

JST's industry-academia collaborative programs promote technology transfer from universities and public institutions to private firms by bridging the gap between basic research and applied R&D for practical use conducted in each sector. Also, these programs contribute to realizing future innovations (advancement of S&T, socioeconomic development and enhancement of people's quality of life) utilizing promising early-stage technologies in academia.

 Number of **projects**
3,722 (2012-2016)

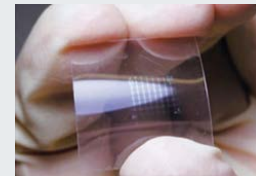
 Number of **start-ups** from JST
41 (2012-2016)

 **JST's patents** in the world (Including pending patent applications)
4,008 (-2016)

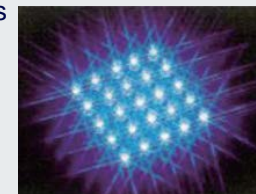
 Number of **projects monetized**
128 (2012-2016)

 **Award winnings**
126 (2012-2016)

Triggered by the transparent oxide semiconductors IGZO-TFT



Nobel Prize in Physics
Invention of efficient blue light-emitting diodes which has enabled bright and energy-saving white light sources (2014)





Database and Intellectual Properties

JST aims to support R&D activities and the creation of innovation by developing a comprehensive information infrastructure focused on easily accessible S&T databases. In addition to providing specifically targeted information services, JST also provides J-GLOBAL, a unique one-stop search service that intends to accelerate scientific discoveries and cross-disciplinary breakthroughs by linking information from many sources.



Number of **research articles** recorded

43 million (-2016)



Number of **electronic journals** published by **1,100** Japanese academic societies

2,100 Journals (-2016)



Number of **licensed IPs**

1,336 (2012-2016)



Number of **projects monetized**

128 (2012-2016)



Fostering Human Resources in STI for the Next Generation

To develop and secure human resources and promote their active roles in S&T fields, JST is implementing the programs for developing post doctorates, young researchers, program manager candidates and children, who will lead the next generation.



Number of **high schools**
focusing on STEM education
supported by JST

200 (2016)



Number of **students in
international exchange** programs

5,519

from 1,403 institutes
in 35 countries (2016)



Number of **students participating** in
JST's operations

158,080 (2016)

International Cooperation Towards Global Common Goals

Number of international research projects and collaborating countries



511 projects with 34 countries and regions (2003-2017)

under the two programs based on inter-governmental frameworks mainly with leading countries and regions, to contribute solutions to global challenges.



125 projects with 47 countries (2008-2017)

under the partnership between counterpart countries of official development assistance (ODA) and Japan, based on the sustainable development needs of developing countries.

Some examples of cooperation with foreign ministries and research institutions



Government of India
Ministry of Science and
Technology
(2016)



The Leibniz Association,
Germany
(2015)

Contribution to SDGs

SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD



Reuters' Top 25 Global Innovators

among government-funded science and technology institutions

The 4th rank 2017

Organization	Country/Region
1. Health & Human Services Laboratories	USA
2. Alternative Energies and Atomic Energy Commission	France
3. Fraunhofer Society	Germany
4. Japan Science & Technology Agency	Japan
5. National Institute of Advanced Industrial Science & Technology	Japan
6. Korea Institute of Science & Technology	South Korea
7. Medical Research Council	UK
8. National Center for Scientific Research	France
9. French Institute of Health & Medical Research	France
10. Agency for Science Technology & Research	Singapore

Reuters' Top Global Innovators 2015

2016

Mouse egg cells made entirely in the lab give rise to healthy offspring



2013

Your Microbes,
Your Health



2012

Making eggs from stem cells

Science's Breakthrough of the Year

President's Initiative for the Reform of JST

The HAMAGUCHI Plan: *Challenge for Change!*

JST, an advanced network-based research institute that promotes state-of-the-art R&D projects, will solidly lead the way for co-creation of innovation for tomorrow's world together with society.

JST will: - deepen its close & global partnership with universities, public research institutes & industrial partners
- refine programs & business structure for a more effective & efficient implementation
- contribute to improving the Quality of Life of the people in Japan as well as the sustainable development of the society

1. Advanced network-based research institute that promotes unique, challenging & high-impact R&D

- Create a new tide that leads us to groundbreaking innovation
- Promote challenging & high-impact R&D projects in a bold manner
- Precise prediction of transforming global trends

2. Visionary R&D strategy for co-creation of the future with society

- Elucidate the societal challenges & expected outcomes of STI
- Develop & advocate visionary R&D strategies
- Comprehensive analysis of the evidence data & continuing dialogues with stakeholders

3. Cultivation of human resources for STI

- Cultivate HRs who proactively promote STI in various phases of the innovation ecosystem

4. Contribution to regional revitalization

- Contribute to self-sustaining regional revitalization through the structuring of the regional innovation ecosystems
- Take full advantage of the characteristics of each region

5. More effective & efficient business implementation

- Work as a team to implement businesses in a more effective & efficient manner
- Make the most of comprehensive resources in JST

JST in Japanese STI Policy



Japan Science and Technology Agency



Michinari HAMAGUCHI
President (2015–)

Founded JICST 1957
JRDC 1961 → JST 1996

Parent organization Ministry of Education, Culture, Sports, Science and Technology (MEXT)

Category National Research and Development Agency

Headquarters Saitama and Tokyo, Japan

Number of employees 1,236 (2018)

Offices Paris / Washington, D.C. / Singapore / Beijing

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» Tokyo Headquarters Annex K's Gobancho

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» National Museum of Emerging Science and Innovation (Miraikan)

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