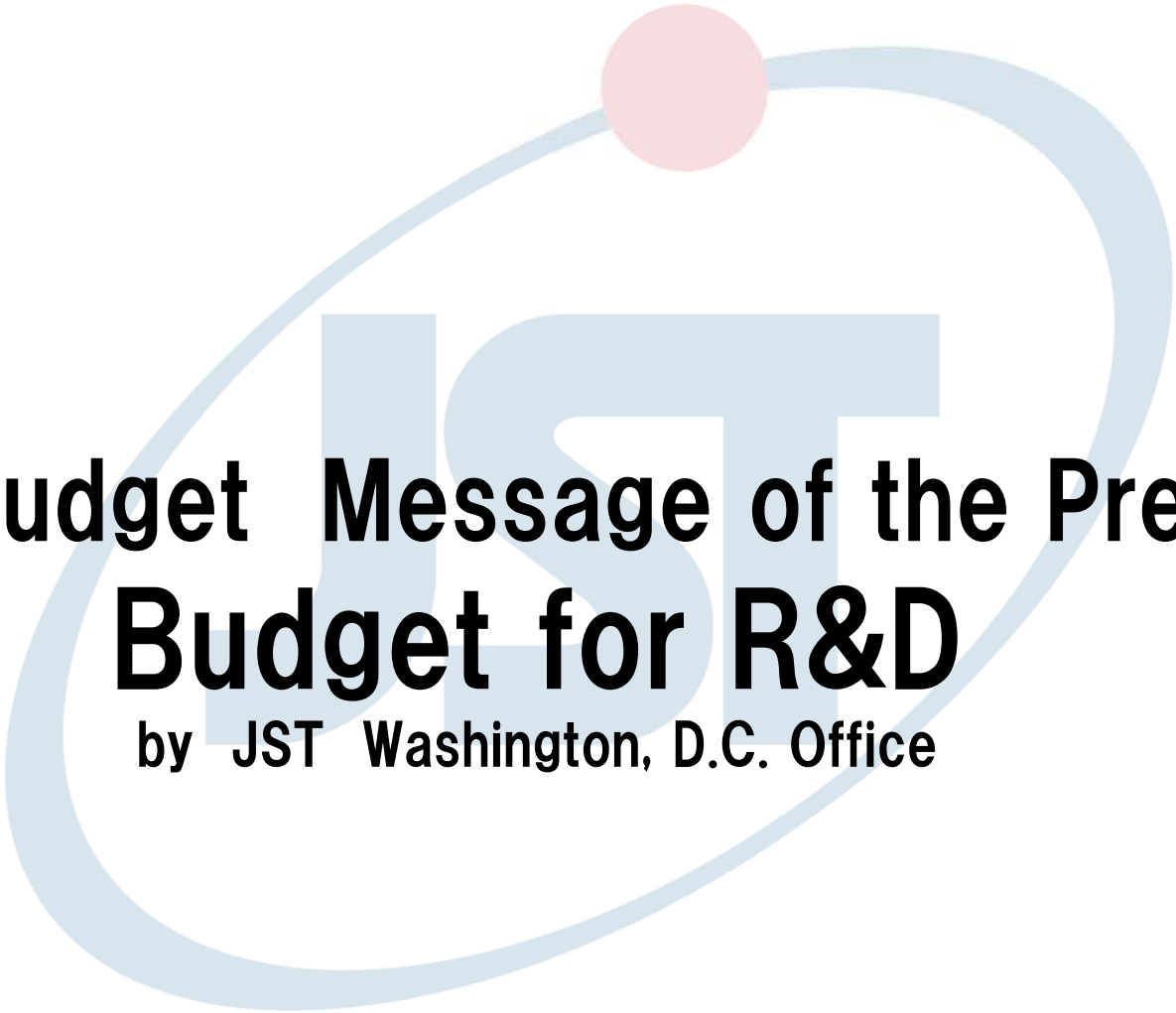


# **Press Conference President of JST**

**May 31, 2017**



**Japan Science and Technology Agency**



# **2018 Budget Message of the President Budget for R&D**

**by JST Washington, D.C. Office**



**Japan Science and Technology Agency**



# **Enhancing International Cooperation for Strategic Basic Research Program in 2017**



**Japan Science and Technology Agency**

# Enhancing International Cooperation for Strategic Basic Research Program in 2017

## Overview:

- For enhancing international cooperation for the Strategic Basic Research Program (CREST, ERATO, ACCEL), JST will support activities in each program that accelerate collaborative research with overseas researchers in the U.S., European nations, and others.
- JST will invite about 80 researchers from 62 universities and research institutes in 21 countries that include mainly the U.S., Germany, U.K., France, and China. These researchers plan to stay in Japan from a few weeks to 8 months, and attend discussions for each project among 48 collaborative research projects. \*

## Purpose:

- Obtain new knowledge relating to projects through discussion and exchange of information between research leaders and project participants intensively for a certain period of time when overseas researchers stay in Japan.
- Maximize the results of research by collaborative papers and others.
- Promote building and enhancement of networks and collaborations with leading researcher groups in the U.S., Europe, and others.

# Enhancing International Cooperation for Strategic Basic Research Program in 2017

## Support:

- Provide supplementary research funds for 2017 to supporting projects.
  - Funds include costs of travel and stay, gratuity, salary, and research related costs.

## Inviting Overseas Researchers:

- A researcher who has an employment position or semi-employment position in a university or research institute overseas, and has outstanding research result in the area of the project.
- A researcher who has Japanese nationality and has lived in an overseas country for more than 10 years and played an active role in that country's academia.
- A young researcher or graduate student who will participate in a collaborative research with a qualified researcher mentioned above.

\* We are under the final stage of coordination of inviting researchers. The number of researchers and organizations will be changed accordingly.

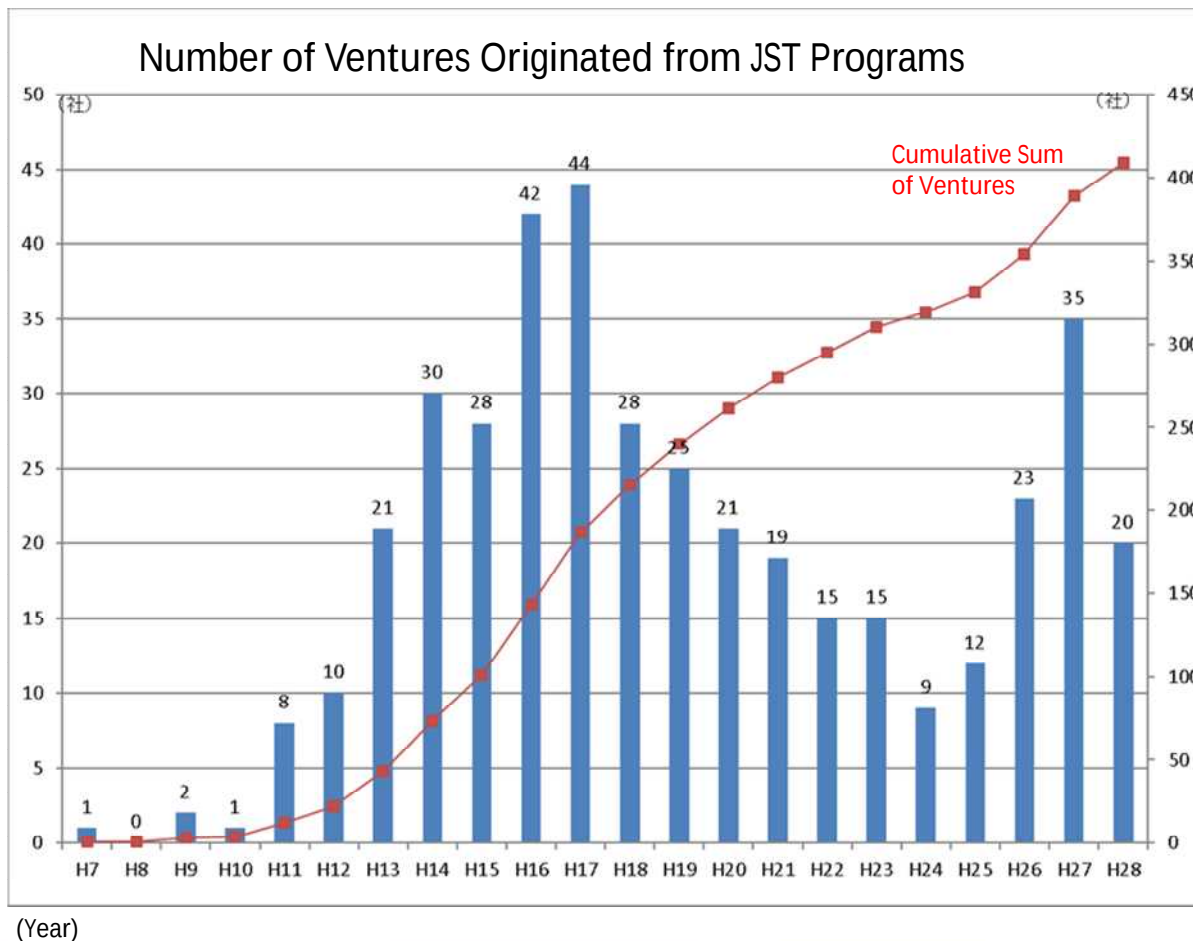
# Ventures Originated from JST Projects



Japan Science and Technology Agency

# Ventures Originated from JST Projects

- The number of venture corporations established through efforts of JST programs has been increasing, and it numbers 409 ventures at this point.
- About 60% of those ventures originated from Industry/academic collaboration programs by JST, such as START.
- Ventures raised from JST Strategic Basic Research Programs, such as CREST and ERATO were 16 ventures in 2016.
- The number of ventures originated from JST programs accounts for 16% of that of programs of universities and others.



※The number of ventures originated from JST programs is researched by JST, although JST operates no venture certified system. Data is as of May 31, 2017.

※The research of university originated ventures conducted by METI includes not only technology related ventures but also ventures in all fields. For a comparison with the number of JST originated ventures, the number of ventures established by 2014 is used.

# J S T Generated Ventures (examples)

| Company                                                                             | Since | Business Overview                                                                                                    | JST Program                     | Head of Researchers                                                |
|-------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------|
|    | 2008  | Production and sales of ultra compact satellites.<br>Sales of visual data gained by the private satellite.           | University-generated venture    | Professor Shinichi NAKASUKA (The University of Tokyo)              |
|    | 2010  | Analysis of quality of sleep by portable electroencephalogram.                                                       | University-generated venture    | Director Yoshihiro URADE (Osaka Bioscience Institute)              |
|    | 2010  | Sales of Bio 3D printer, development and manufacturing of 3D bio organ products.                                     | A-STEP                          | Professor Kokihi NAKAYAMA (The University of Saga)                 |
|    | 2010  | Providing disease-specific formula of glycopeptides, Supporting the creation of antibodies for cancer immunotherapy. | SENTAN                          | Team Leader Shinichiro NISHIMURA (Hokkaido University)             |
|    | 2010  | Creates innovative fluorescent probes and in-house value addition by expanding applications in cell biology.         | PREST, CREST                    | Professor Yasuteru URANO (The University of Tokyo)                 |
|    | 2012  | Manufacture and sales of measuring devices by the moiré-fringe method.                                               | A-STEP                          | Professor Yoshiharu MORIMOTO (Wakayama University)                 |
|    | 2013  | Development of functional peptides. Planning cosmetic, medical devices, regenerative medicine and ethical drug.      | Creation of Regional Innovation | Professor Hironori NAKAGAMI (Osaka University)                     |
|    | 2014  | Developing a pipeline of steals RNA vector (SRV)-based gene-cell therapies and development of devices.               | START                           | Head of Research Labo Masato NAKANISHI (AIST)                      |
|   | 2014  | Robot system business and surgery supports by moving robots safely and precisely.                                    | CREST, START                    | Associate Professor Koutaro TADANO (Tokyo Institute of Technology) |
|  | 2015  | Implementation and sales of a laboratory humanoid robot. Management of execution logs and experimental protocols.    | SENTAN                          | Head of Research Center Toru NATSUME (AIST)                        |
|  | 2015  | Production and sales of hyper fluorescence TADF emitters.                                                            | CREST                           | Professor Chihaya ADACHI (Kyushu University)                       |
|  | 2015  | Production and sales of wearable devices.                                                                            | ERATO                           | Professor Takao SOMEYA (The University of Tokyo)                   |
|  | 2015  | Evaluation and analysis of medication<br>Biological marker, Utilizing iOrgans technology                             | ERATO                           | The Thomas N. Sato BioMEC-X Laboratories (ATR)                     |
|  | 2016  | Production and sales of printable electronics sensors and silver nanoparticle inks.                                  | START                           | Associate Professor Daisuke KUMAKI (Yamagata University)           |



# **Mirai Project Themes for 2017 Announced**



**Japan Science and Technology Agency**

# Mirai Project Themes Announced

The aims of the project are to promote R&D that challenges novel subjects and to create the values of future society that realize economic and social impacts. Selecting prioritized themes for the small type plan, we call for “new value for society and industry” in order to grab the needs of society and industry.

We decided prioritized themes among over 1,000 proposals from companies, organizations, universities, and general public.

## Small Start Type:

| Area                                                                               | Themes                                                                                                                                                                                           |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Realization of a Super Smart Society</b><br>* Akira MAEDA                       | Building a service platform for creation of new services by collaboration and cooperation                                                                                                        |
| <b>Realization of a Sustainable Society</b><br>* Hideyo KUNIEDA                    | Innovation in manufacturing for new process of sustainable resource recycle<br>Improving intellectual capability to enhance “a Socially Active Life” for overcoming the reduction in labor force |
| <b>Realization of the Most Safe and Secure Society</b><br>* Kenichi TANAKA         | Development of the crisis navigator for individuals<br>Creation of “humane service” industries                                                                                                   |
| <b>Realization of a Low Carbon Society, a global issue</b><br>* Kazuhito HASHIMOTO | Realization of a low carbon society through “game changing technologies”                                                                                                                         |

\* R&D Supervisor

## Large Scale Type:

### Technical Themes

Laser-plasma acceleration technologies leading to innovative downsizing and high energy of particle accelerators

High-temperature superconducting wire joint technologies leading to innovation

Quantum inertial sensor technologies leading to innovative high precision and downsizing of self-localization units

**Calls for R&D Proposals starts in early June**  
**Small Start Types**

Terms for R&D: Up to 3 years

Grant for R&D: 20 million JPY yearly for a subject

**Large Scale Types**

Terms for R&D: About 10 years

Grant for R&D: 300–600 million JPY yearly



# SDGs and Gender Summit



**Japan Science and Technology Agency**

## Overview of Gender Summit 10

- May 25–26, 2017 at Hitotsubashi Hall, Tokyo  
Participants : over 600 people from 26 countries  
(about one-fourth of visitors were from overseas)
- Satellite Symposium for female high school students  
Theme: Global Girls' Scientists and Engineers in Future  
May 27 (Sat.), 2017 Hitotsubashi Hall about 260 people participated.
- Gender Summit 10 Satellite Conference in Okinawa  
May 29–30, 2017  
at Okinawa Institute of Science and Technology Graduate University

# Tokyo Recommendations

1. Gender equality is an essential determinant of societal sustainability and wellbeing and affects how science, technology and innovation can improve people's lives. It is realized through interventions based on **gender differences as an important factor for science, technology and innovation**. It should be also adopted by **all stakeholders, including industry**, as part of their own sustainability agendas.

Bridge Gender and STI

2. Gender equality should be integrated into the implementation of all 17 SDGs, as such, gender equality with science, technology and innovation provides a **BRIDGE through which all 17 SDGs can be connected** to help enhance implementation of all SDGs.

Bridge SDGs

3. Gender equality in the context of SDG targets must recognize the influence of human and societal diversities, and, in particular, how societies define and **BRIDGE the roles and attitudes to women, girls, men, boys, ethnicity, race, cultures etc.**

Bridge all People