

SBIR Phase 3 Projects

Learn more about the SBIR Phase 3 projects!

Discover technologies that will change the world's future!
Inquiries are welcomed from anyone who is interested!

Preparation and release of the SBIR Demonstration Project Compendium



SBIR Demonstration Project Compendium

The technologies of Japanese startups will change the future!

Cabinet Office
Ministry of Education, Culture, Sports, Science and Technology
Ministry of Health, Labour and Welfare
Ministry of Agriculture, Forestry and Fisheries
Ministry of Economy, Trade and Industry
Ministry of Land, Infrastructure, Transport and Tourism



Second edition (March 2025)



We have published the SBIR Demonstration Project Compendium to compile the large-scale technology demonstration projects undertaken by companies selected for SBIR Phase 3.

The following information is provided for each demonstration project:

- ▶ Overview of large-scale technology demonstration
- ▶ Development schedule and targets for social implementation
- ▶ Developer's message (future vision)
- ▶ Company details and contact information



Available on the SBIR special site

<https://sbir.csti-startup-policy.go.jp/phase3fund>

Create a Sustainable Future with Japanese Startup Technologies!



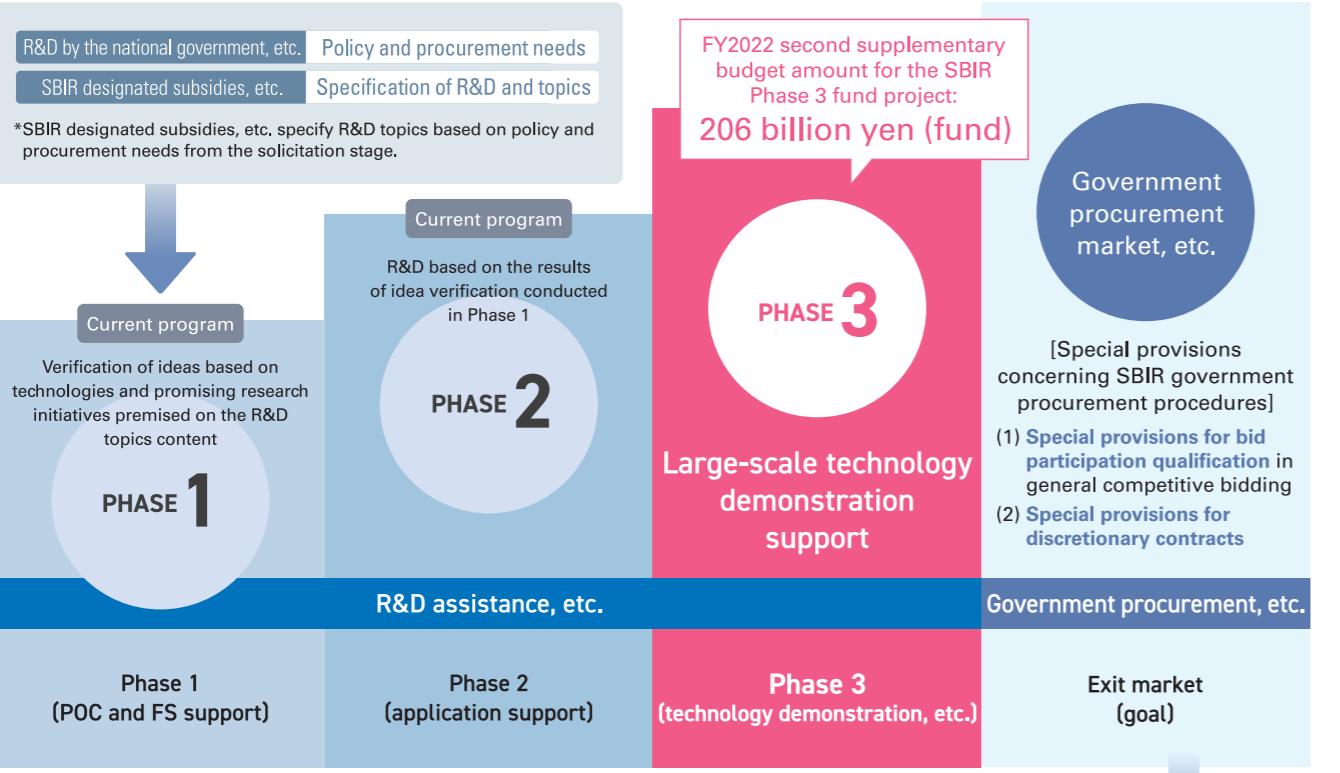
Small/Startup Business Innovation Research

Publisher: Secretariat of Science, Technology and Innovation Policy, Cabinet Office

Small/Startup Business Innovation Research Program

What is the SBIR Program?

In addition to the expansion of support for the feasibility study (FS) phase of business ideas (Phase 1) and the R&D phase toward practical application (Phase 2), a new phase (Phase 3) for large-scale technology development and demonstration in advanced technology fields has been added to the scope of support.



Contributing to the promotion of social implementation of advanced technologies held by startups

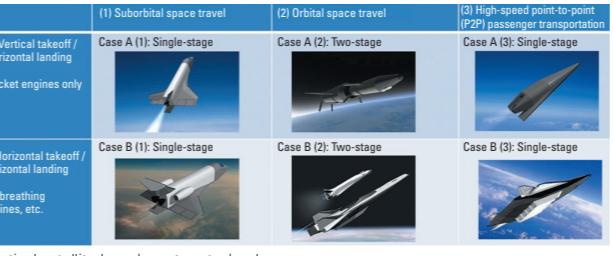
The Small/Startup Business Innovation Research (SBIR) Program is designed to encourage innovation creation in Japan through promoting R&D of startups and other small businesses and facilitating the implementation of their products in society.

At the same time, one of the program's objectives is to solve various social issues facing Japan through the social implementation of innovative technologies. Previously, the focus was on supporting technology development by SMEs with public procurement in mind, but now it has shifted to R&D support for startups. The scope and scale of subsidies under the system have also been drastically expanded.

Examples of major technology demonstration projects

01 Development and demonstration of private rockets

Assistance for startups developing and conducting flight demonstrations of internationally competitive rockets.



Practical satellite launch system technology

06 Flying cars

Two aircraft manufacturers, SkyDrive Inc. and teTra aviation Corp., have been selected. SkyDrive Inc.: Development of multicopters for point-to-point flights at Expo 2025 Osaka, Kansai, Japan, implementation of tests necessary for obtaining type certification required for mass production of these aircraft, etc. teTra aviation Corp.: Development of a lift + cruise flying car equipped with fixed wings, implementation of flight tests aimed at obtaining early certification by leveraging U.S. regulations, etc.



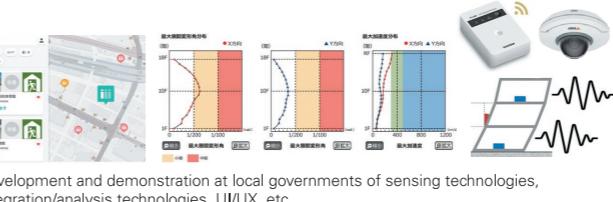
07 Automated driving (public transportation)

A consortium comprising startups and other organizations has been formed to advance development of automated driving technologies by leveraging the results of SIP and the strengths of various companies. Feedback from demonstrations of automated driving in regional public transportation, etc. will be incorporated into development, accelerating automated driving technology development and promoting the widespread adoption of automated driving mobility services.



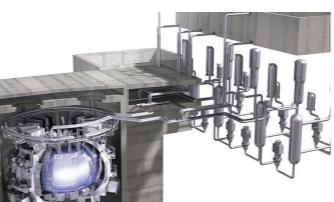
02 Disaster risk reduction technologies

The project aims to reduce the workload of local governments, unify the information infrastructure, provide real-time information to residents, and more by combining various solutions that automate and optimize shelter management tasks using digital technology.



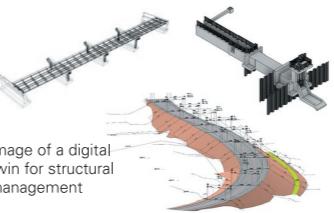
03 Demonstration of nuclear fusion technologies

Assistance for startups demonstrating the essential technologies required for achieving nuclear fusion power generation, aiming for implementation in domestic and international fusion-related equipment.



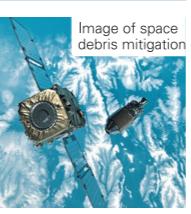
04 Digital twins

Acquisition of three-dimensional data of structures to monitor their conditions, use of that data to construct digital twins, and study of the results aiming for efficient maintenance and management.



05 Development and demonstration of key technologies for space debris mitigation

Assistance for startups that aim to commercialize services and expand them globally after developing and demonstrating innovative technologies and systems essential for the removal of satellites that have become space debris in orbit, as well as developing and demonstrating technologies and components that promote the post-mission disposal of small satellites and other objects.



09 Development and demonstration of smart agriculture, forestry, fisheries, and food sector technologies

Technology demonstrations aimed at improving productivity through the automation of work and the construction of precise production systems leveraging data in the food, agriculture, forestry, and fisheries sectors.

<Development items (examples)> Development and demonstration of harvesting and pesticide-spraying robots for horticultural crops, fully automated systems for manufacturing processes in prepared food factories, data management for overall rearing control of pig barns, automation of forestry logging work, AI-based fishing vessel operation monitoring systems, etc.



10 AI hospitals

<Development and demonstration of medical AI technologies aligned with healthcare needs>

Promotion of the social implementation of AI hospitals by accelerating the development of medical AI technologies aligned with healthcare needs through collaboration between startups and medical institutions.

<Development items (examples)> Implementation of EHR-linked AI electronic medical questionnaires, development and social implementation of emergency medical workflow improvement tools, development of AI systems and devices for cognitive function and frailty assessment, etc.



Going forward, the Government of Japan plans to create a **roadmap outlining specific measures (government procurement, deregulation, standardization, etc.)** for the social implementation of technology demonstration results across all projects. This roadmap will be released during the technology demonstration period.