“Reform 2020” projects
Leading Projects for 2020
to accelerate the reforms of the Growth Strategy
List of Projects

Providing solutions to social issues by technologies/ Exporting solution-integrated systems

Project N˚ 1 : Use of next-generation transportation systems and automatic driving technology

Project N˚ 2 : Solutions to energy/environmental problems through use of distributed energy resources

Project N˚ 3 : Realization of a universal future society through leading-edge robotic technology

Project N˚ 4 : International implementation of high-quality Japanese medical services and technology (inbound use of medical care)

Developing an environment to increase the number of foreign tourists to Japan

Project N˚ 5 : Showcasing Japan as a country of tourism

Expanding foreign direct investment in Japan and improving business environments

Project N˚ 6 : Policies to attract more foreign direct investment in Japan
Project N°1: Use of next-generation transportation systems and automatic driving technology

(1) Realize a smart mobility system in Tokyo waterfront area at the occasion of 2020 Tokyo Olympic and Paralympic games,
(2) Secure transportation for elderly persons, utilizing advanced automatic travelling technologies,
(3) Realize an automatic following travelling system (in convoy form) for trucks

R&D projects for automatic travelling system (under Cross-Ministerial Strategic Innovation Promotion Program)

Reduce traffic jams
Reduce traffic accidents
Transportation friendly to everyone
Reduce burden on environment

Urban area
Local area

Image of society to be realized

(!) Realize a smart mobility system (ART: Advanced Rapid Transit) at the occasion of 2020 Tokyo Olympic and Paralympic games
Appeal to the world and involve also regions. Concrete bus services in Tokyo under coordination

(2) (3) Utilization of further advanced automatic travelling technologies
Transportation friendly to handicapped or elderly persons
(example) Station → Destination

Last one mile mobility

Station
Destination

Transportation friendly to every one

Reduce traffic jams
Reduce traffic accidents

(1) Realize a smart mobility system in Tokyo waterfront area at the occasion of 2020 Tokyo Olympic and Paralympic games,
(2) Secure transportation for elderly persons, utilizing advanced automatic travelling technologies,
(3) Realize an automatic following travelling system (in convoy form) for trucks

R&D projects for automatic travelling system (under Cross-Ministerial Strategic Innovation Promotion Program)
(1) A smart mobility system (realization of “ART: Advanced Rapid Transit”)

**In towns** Comfortable, safe and trusted urban transportation infrastructure (priority put on public vehicles)

- Control signals so that public buses can pass without waiting at intersections
- ART in bus: Comfortable with few shakings and without noises
- Real time provision of information on traffic situations
- Inform right-turning vehicle of approaching straight-travelling vehicle behind large truck
- Intercommunication between vehicles to avoid collision
- Easy to get on without help
- In advance of handicapped passengers or passengers with buggy
- Bus coming on time

**ART at bus stop**

**ART in bus**

**In local cities**
Support areas with many elderly persons / Support life in areas poorly served by public transportation

【Example1】 Introduce ART system, utilizing disused local railway

【Example2】 Urban re-development with ART system
(2)(3) Further utilization of automatic travelling systems

**Solve the shortage of drivers, Reduce CO2 emission**
- Follow automatically a truck running ahead (at Expressway)
- Solve the problem of driver shortage, Reduce CO2 emission

**Secure transportation friendly to elderly persons**
- Provide transportation friendly to elderly persons, women with buggy, handicapped persons
- Contribute to enhance QOL of persons difficult to move

**Last one mile automatic travelling system**

1. Get on a vehicle individually
2. When approaching a leading vehicle bound for the same direction, start and join automatically
3. Follow the leading vehicle automatically
4. When approaching the destination, detach automatically and stop around the destination

Leading vehicle (public vehicle)
- General road or automobile road
- ※separate from general road

目的地
- ※automobile road

Station etc. → Destination

Electronically coupling
- Electronically coupling
Project N° 2 : Solutions to energy/environmental problems through use of distributed energy resources

(1) Utilization of CO2 free-hydrogen generated from renewable energies

Produce CO2 free-hydrogen utilizing surplus electric power of renewable energy facilities in region, transport hydrogen to areas with high energy demand, provide hydrogen for the use of fuel cell buses, thus realize CO2 free-hydrogen society combining region and large city.
(2) Establishment of innovative energy management system

Establish a new energy management system, integrating dispersed renewable energy facilities, storage batteries, etc. utilizing demand response methods as if it functioned as a single power generation facility.

- **Renewable energy generators:**
  - Stock surplus power to batteries and realize a stability of business

- **Retail business:**
  - Realize stabilized electricity supply by utilizing storage batteries

- **Transmission and distribution business:**
  - Realize efficient investment and efficient adjustment of supply and demand, by utilizing demand response methods
  - Realize power system stabilization by means of storage batteries

- **Consumers in cities:**
- **Consumers in suburbs:**
- **Consumers in waterfront areas:**

- **RE generation company:**

- **Retail business Transmissions/ Distribution business:**

- **Consumers:**
  - Save electricity prices by reducing power consumption during peak periods by means of controlling integrated storage batteries
  - Get financial incentives in response to the reduction of power consumption during peak periods (DR methods)
  - Enable to secure power in case of emergency
Project N°3: Realization of a universal future society through leading-edge robotic technology

Realize a society where you see everywhere robots providing a wide range of services so that elderly persons, handicapped persons or foreign people can enjoy stress-free lives, and make it a showcase.

【Place of implementation】 Daiba and Aomi areas (Tokyo waterfront area)
Establish a field of demonstration for advanced technologies such as personal mobility, video display technologies with high presence, digital signage, multilingual translation, indoor-robots.

【Place of implementation】 City area and airports
Show to the world a wide range of services provided in coordination by autonomous mobile robots in city areas and communication (translation or guidance) robots or luggage support robots at airports.

Example of robot technologies
- Easy to communicate
- 4K, 8K Ultra High-Definition (UHD) TV
- Support to carry luggage or assist for elderly or handicapped persons
- Autonomous driving or support for moving
- Welcome and give guidance
- Listen to needs for help
- Provide services according to the needs

Demonstration at Daiba

Demonstration at an airport
(Annex) Image of projects implemented at Daiba and Aomi areas

- Demonstration of personal mobility at West Park Bridge, Teleport Bridge, and Symbol Promenade Park
- Exhibitions at facilities and Centers
Project N° 4: International implementation of high-quality Japanese medical services and technology (inbound use of medical care)

Make a list of medical institutions active in receiving medical examinees from abroad, in the field where Japan has international advantages with high overseas needs, and provide an opportunity to experience Japanese medical care (early finding and prevention of disease, medical treatment and rehabilitation) by overseas medical examinees.

- Orthopedic surgery/rehabilitation
  - Operation using Japanese artificial joint
  - Rehabilitation
  - Medical care after traffic accidents or apoplexy
  - Advanced medical devices enable to convey to brain how to move legs

- Neuro rehabilitation

- Medical checkup
  - Accurate diagnosis

- Hernia
  - Endoscopic operation of slipped disk

- SAS
  - Treatment of sleep apnea syndrome (SAS)

- Treatment of cancer
  - Corpuscular beam therapy or boron neutron capture therapy (BNCT)

- Diabetes
  - Diabetes medical treatment instruction (exercises, dietary cure etc.)

- Regenerative medicine
  - Cutting-edge regenerative medicine (myocardium etc.)
Project N°5 : Showcasing Japan as a country of tourism

In order to attain the targets of 20 million inbound tourists in 2020, and of 30 million in 2030, create internationally attractive destinations for sightseeing, by brushing up sightseeing resources in regions. To this end, showcase selected destinations for sightseeing in regions, Tokyo area and Tokyo international airports.

① Destinations for sightseeing in regions

Select destinations for sightseeing with great potentials, create in each selected destination “Japanese Destination Marketing/Management Organization (DMO)” as a platform to mobilize public and private sectors, and brush them up, by 2020, utilizing different subsidies and other financial measures of the government, as such attractive destinations for sightseeing as to receive many tourists from abroad.

[Concrete initiatives]
- Establish DMOs in each selected region
- Brush up sightseeing resources
- Develop a stress-free environment
- Reinforce international promotion

【example : initiatives by DMO】
- Festival of giant lantern in Noto
- Improve Wi-Fi access environment
- Multilingual translation
- Japan channel
- This temple was built in 1020

② Tokyo

In the areas connecting principal railway stations, Olympic and Paralympic games facilities, and popular sightseeing spots, realize barrier-free public transportation systems with guide signboards easy to understand for anyone including foreign tourists, by 2020.

[Concrete initiatives]
- Promote barrier-free environment
- Provide guide signboards easy to understand
- Develop a stress-free environment

Vegetarian food
【pictogram】
【elevator】

③ Tokyo International airports

Make more comfortable and practical Tokyo International airports.

[Concrete initiatives]
- Improve accessibility to airports by trains and buses
- Dissemination of information from airports
- Develop a stress-free environment
- Promote barrier-free environment

【Most advanced toilet with multi functions】
【Digital signage】
【Japan channel】
【Multilingual translation】
【improve Wi-Fi access environment】
Project N° 6 : Policies to attract more foreign direct investment in Japan

Put priority on expansion of FDI to Japan towards 2020 when Japan attracts worldwide attention. Disseminate actively the results of the Growth Strategy contributing to improve the business environment and, in collaboration with local governments, find FDI projects to Japan and encourage the realization of those projects.

**2016**
- Rio de Janeiro Olympic and Paralympic games
- World forum on sport and culture (Oct. 2016 in Kyoto and Tokyo)
  - Collaboration with WEF

**2019**
- World cup of rugby (12 cities in Japan)
- Government : Top sales, reinforcement of JETRO
- Local Governments : activities to attract FDI in collaboration with central government and JETRO

**2020**
- Tokyo Olympic and Paralympic games
  - Target of stock of FDI (35 trillion yen)
- Japan Business Conference (2020 in Tokyo)
  - Invite CEOs of foreign companies
  - Received by relevant Ministers
  - Disseminate information on improvement of business environment
- Regional Business Conference (2019-2020 organized by local governments)
  - Collaboration between regional bureaus of METI and local governments active in receiving foreign companies
- Global Venture Summit (2020 in Tokyo)
  - Invite global ventures and government leaders

Improve business environment
- Promotion of results of reforms
  - Building a linking bridge between Silicon Valley and Japan
  - University reforms to create global ventures

World forum on sport and culture (Oct. 2016 in Kyoto and Tokyo)
In the context of global competition on new business models, generated by the development of such new technologies as IoT, big data and artificial intelligence, vitalize activities of innovative ventures is extremely important for Japan to achieve a sustainable growth. Japan is aiming at enhancing attractiveness as an international hub for innovation, by building direct networks with global venture ecosystems in the world and by organizing a global venture summit in Tokyo in 2020.

**2020 Global Venture Summit (in Tokyo in 2020)**

**Events**

- Participate in international matching events such as SLUSH and SXSW etc. and make a linkage with the initiatives of Japan

**Policy dialogues**

- Collaboration between governments through dialogues with other governments or ventures

**Human resources development**

- Dispatch entrepreneurs and venture capitalists etc. to Silicon Valley through bridging projects between Silicon Valley and Japan

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**SLUSH@Finland**

**SLUSH ASIA@Tokyo**

**SXSW@U.S.**

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**Visit of Prime Minister to Silicon Valley in May 2015**