

Declaration to be the World's Most Advanced IT Nation

I. Basic Principles

1. Eliminating Gridlock and Rejuvenating Japan

- Loss of international status as a result of economic recession and declining economic growth
- Japan is a developed country with major issues including a low birth rate and aging population, rising social welfare expenditures, and the necessity to deal with major natural disasters
- IT will be used as an engine of growth based on a growth strategy to eliminate Japan's problems and achieve continuous growth

2. Becoming an IT Utilization Society at the World's Highest Levels

- Based on reviews of past results, the **IT Strategic Headquarters and the government CIO** will implement **IT strategic measures** and address policy issues throughout the government **by breaking down vertical barriers in ministries**
- Use IT to expand perspectives with the aim of breaking down organizational barriers, systems and rules, and verifying, presenting, and internationally deploying successful models
- Implement over the course of about five years (through 2020)
- Implement PDCA based on roadmap

II. The Society that Japan Should Seek to become

Take action based on the following three pillars to become the world's most advanced IT-user nation, and deploy the results internationally

1. Create a society that encourages the creation of new and innovative industries and services and growth

- Promoting private sector access to public data (open data) and support the use of big data (distribution and use of personal data, etc.)
- Raise levels in agriculture and related industries to make them into intelligent industries, and ○ Encourage open innovation
- Rejuvenate local communities (including remote islands), and ○ Create new businesses in the film industry by establishing next-generation broadcasting services

2. The world's safest and most disaster-resilient society where people can live safely, with peace of mind, and comfort

- Create a healthy, longevity society, and ○ The world's most disaster-resilient society
- Conduct efficient and stable energy management, and ○ Achieve the world's safest, most environmentally-friendly, and most economical road transportation system
- Respond to diversifying work formats and achieve a good work-life balance

3. Create a society with one-stop public services that anyone can access and use from anywhere at any time

- Provide highly convenient electronic government services, and
- Reform national and local government administrative information systems
- Reinforce IT governance in government

1. Creating a Society that Encourages the Creation of New and Innovative Industries and Services and Growth in All Industries

(1) Promoting private sector access to public data_(open data) and the use of big data

Main Measures

- Launch a trial version of data catalog site in FY 2013 to provide guides to public data and cross-sectional searches, with full-scale operation to begin in FY 2014. Achieve release of data at the same level of other developed countries by the end of FY 2015.
- Immediately establish new bodies to investigate the handling of personal data. Review guidelines on the protection of personal information and begin measures for standardizing consent procedures within this year. Review systems and adopt policies that consider new legal measures including the establishment of third-party organizations within this year.

(2) Achieve advances in Japanese agriculture and peripheral industries, converting them into intelligent industries through the use of IT, and deployed business models internationally (Made by Japan Agriculture)

Main Measures

- By FY 2016, accumulate and analyze data from agricultural sites to establish agri-informatics (AI), a new production method that makes multifaceted use of experienced farmers' knowledge and implement it in Japan and overseas.
- Use data and expertise obtained from AI agriculture in related industries such as agricultural materials and equipment to provide integrated services and develop AI agriculture into a major source of income by 2018. AI agriculture will contribute 1 trillion yen to the agricultural, forestry, and fishery export target by FY 2020.

(3) Encourage interdisciplinary open innovation in a broad range of fields

Main Measures

- Encourage the development of environments by reinforcing broker functions to provide risk money such as crowd funding, providing knowledge and data, and providing specialists' supports.

(4) Rejuvenation of local communities (including remote islands) through the use of IT and data

Main Measures

- Build new community development and business models through demonstration projects in various regions and implement then spread them throughout Japan and overseas from FY 2015.

(5) Create new business and reinforce international competitiveness in the imaging industry through the creation of next-generation broadcasting services

Main Measures

- Begin 4K and smart television compatible broadcasts in 2014 and 8K broadcasts in 2016 using satellites and other means.
- Realize an environment for receiving services compatible with 4K and 8K broadcasts and with smart television on commercially-available television sets by 2020.

2. The world's safest and most disaster-resilient society where people can live healthily, with peace of mind, and comfort

(1) Realize a healthy society of longevity through the provision of appropriate local healthcare and nursing care and promotion of good health

(a) Expand effective, efficient, and high-quality healthcare and nursing care services

Main Measures

- Standardize healthcare information networks and improve effectiveness while deploying them nationwide by FY 2018 as a means for various bodies to collaborate and share healthcare, nursing care, and health information including remote healthcare, home-based healthcare and nursing care, and daily life support

(b) Enhance the use of various types of data such as medical, healthcare and related information including measures for improving health conditions for the working ages.

Main Measures

- Establish effective measures for improving and managing the health of the people in local communities and companies by FY 2016 through means such as insurers, local governments, and companies providing health guidance to the insured, residents, and employees based on medical checkup data, medical insurance claim data, and other data while encouraging participation by individuals.

(2) Creating the world's safest and most disaster-resilient society

(a) Build disaster response and damage mitigation systems including systems for the provision of disaster-related information to protect lives

Main Measures

- Build strong disaster response and damage mitigation information infrastructure that can provide accurate disaster-related information to all members of the public during emergencies through various means. Build multi-layered information collection and dissemination systems including diversification of the J-Alert methods of disseminating information by FY 2015.
- Introduce disaster-response robots that can operate unmanned or be operated remotely using IT by FY 2018.
- Verify evacuation guidance and firefighting measures that use geospatial information by FY 2016 and introduce such measures by FY 2020.

(b) Establish the world's safest and most economical social infrastructure through the use of IT

Main Measures

- Social infrastructure managers will create databases of the current status of facilities and build platforms for that data by FY 2013, begin operations in FY 2014, and conduct full-scale operations starting in FY 2015. Make it possible for the public to see utilization of facilities by their managers.
- Use sensors and other technologies to inspect and repair 20% of key and aging forms of infrastructure in Japan by FY 2020.

2. The world's safest and most disaster-resilient society where people can live safely, with peace of mind, and comfort

(3) Efficient and stable energy management in homes and communities

Main Measures

- Trials relating to demand response will be completed and practical application started by FY 2014. In conjunction with the development of a legal system including the deregulation of entry into the retail electricity market, which is scheduled for 2016, use of smart meters will be increased and stable and efficient energy management using demand response will be expanded.

(4) The world's safest, environmentally-friendly, and economical road transportation

Main Measures

- In FY 2014, state-of-the-art demonstration projects will be conducted on public roads in model areas to achieve early application of safe driving support systems.
- Trials of vehicle autonomous systems and inter-vehicle and vehicle-to-road information exchanges will be conducted on public roads to advance and support practical application of driving support systems in the 2020s.
- **Traffic accident fatalities will be reduced to less than 2,500 persons by 2018, the world's safety road transportation will be achieved by 2020 (the country with the fewest traffic accident fatalities compared to population), and traffic congestion will be greatly reduced.**

(5) Diversifying Type of Employment and Achieving a Good Life-Work Balance

Main Measures

- **Telework models will be supported in collaboration with industry** to enable workers such as women in their childbearing years, who often find it difficult to continue working, and men who participate in childcare, to work from home one or more full days per week, and **those models will be established and implemented on a full-scale by 2016.**
- **The number of companies that allow telework will be increased threefold by 2020 compared to 2012,** raising workers who work from home at least one day per week to at least 10% and increasing the percentage of women who continue working after their first child to 55% (compared to 38.0% in 2009) and the percentage of women aged 25 to 44 years who are employed to 73% (compared to 66.8% in 2011).
- Employment support functions such as Hello Work will be reinforced using IT.

3. Development of one-stop public services that anyone can access at any time from anywhere

(1) Provide highly convenient electronic government services

Main Measures

- More convenient public services will be created through collaboration between the public and private sectors.
- Open user environments that employ cloud computing will be created for this purpose while standardizing and sharing data formats, terminology, code, characters, and so on.

(2) Reform government information systems at the national and local levels

Main Measures

- Under the leadership of the government CIO, redundant systems will be eliminated, networks integrated, a shift made towards shared government platforms, and other measures taken to reform government information systems with the aim of **halving current information systems (approximately 1,500 in FY 2012) by FY 2018. In principle, all government information systems will be shifted to cloud computing and costs will be cut (with the target of a 30% reduction) with a target date of 2021.**
- Comprehensive operational reforms will be implemented when investing in IT. In government areas that introduce a number system, plans will be adopted for government services, business process reform (BPR), and information system reforms, and the plans will be steadily implemented.

(3) Reinforce IT governance in government

Main Measures

- Government information system investment plans will be adopted and implemented in conjunction with budget development starting in FY 2014.
- **A Japanese IT Dashboard (a system that enables members of the public to easily confirm, via Internet, the status of IT investment by individual ministries) will be developed and operations will be started in early FY 2014.**
- With regard to government information system procurement, standardization and the use of common systems will be encouraged, a review will be conducted concerning the optimal state of assessment of the technical capabilities of businesses that submit bids, procurement costs will be reduced, and a transparent and competitive market created.

1. Human Resource Development and Education

(1) Digitalize Educational Environments

- Encourage the use of IT in educational environments starting with primary education such as connecting schools with high-speed broadband, providing one information terminal per student, introducing electronic blackboards, creating wireless LAN environments, and using electronic texts and educational materials to raise the academic abilities of students and increase IT literacy.
- IT will be introduced to the educational environments at all elementary, junior high, high, and special support schools during the 2010s.

(2) Increase and enhance IT literacy for all

- No matter what age group they are in (from child, to student, adults, and seniors), they can get the benefit out of these related measures in order to increase individual IT literacy.

(3) Bring up highly qualified IT human resources who can lead innovation

- Encourage IT education such as programming starting from the primary and secondary school levels.
- Design and develop more practical and specialized educational programmers and environments for IT human resources development through strengthening industry-academic collaboration.
- Discover and support cutting-edge individuals through events and projects that encourage entrepreneurship.

2. Secure IT infrastructure environments at the world's highest levels

- Continue to implement competitive policies by securing fair competitive conditions among businesses to ensure access to low-cost, high-speed broadband.
- Develop and provide high-speed broadband in unprofitable areas such as remote islands.
- Build robust and redundant IT infrastructure to ensure IT use even during major natural disasters.

3. Cyber Security

- Implement specific policies in accordance with the Cyber Security Strategy (adopted by the Information Security Policy Council on June 10, 2013) to build a world-leading robust and vigorous cyberspace, making Japan a "cyber security nation."

4. Encourage research and development and coordination with the results of research and development

- Encourage R&D based on future trends in telecommunications and timely and accurate coordination of the results of research on various cutting-edge technologies that will lead to innovation (creation of cutting-edge international network bases, ultra-high-speed network transmission technologies, recognition technologies, data processing and analysis technologies, etc.) with IT strategies.
- Collaborate with the Council for Science and Technology Policy and other organizations to support R&D and take measures for establishing the results of R&D as international standards.

1. PDCA cycle for the Strategy and other implementation structures

(1) Exercise of government CIO's headquarter functions

- Create inter-ministerial action plans in areas such as electronic government, new industries, agriculture, healthcare and health, disaster response and damage mitigation, road transportation, and human resource development.
- Adopt policies (expense estimate policies) for the government to achieve overall optimization of IT investment relation to this Strategy.
- Prepare policies (guidelines) setting forth technical and specialized matters for government ministries to carry out uniform and specific measures relating to this Strategy.
- Make assessments relating to the implementation of policies (investment effects, progress, etc.) for each stage of the PDCA cycle

(2) Implementation and management structures within the IT Strategic Headquarters

- Create a specialized investigation body centered on the government CIO under the Headquarters. Establish subcommittees under the specialized investigation body to address priority fields.
- Investigate reinforcement of systems for establishing the PDCA cycle regarding IT strategies centered on the government CIO.

2. Assessment indicators for target and progress management

- Set quantitative key performance indicators (KPI) to the fullest extent possible and manage progress.

3. Regulatory reform and improvement of environments

Implement the following measures in collaboration with the Council for Regulatory Reform. Also, investigate legal measures (a Basic Law) for promoting the use of IT.

- (a) **Regarding the handling of personal data**, create a new investigatory body under the Headquarters. Adopt rules on data use as soon as possible this year. **Review systems and adopt policies this year, taking into consideration new legal measures including the establishment of third-party organizations.**
- (b) Review identity confirmation procedures including verification within electronic government services to maintain a balance between the convenience of users while protecting privacy and ensuring the accuracy of personal identification.
- (c) Conduct a detailed screening and investigation of related systems (including systems whose operational interpretation is not clear) from the perspective of expanding the scope of IT use and **adopt a Regulatory System Reform Intensive Action Plan for Expanding the Scope of IT Use (tentative title) this year.**

4. Verification and Deployment of Successful Models

- Promote collaboration among ministries, and use IT and implement comprehensive projects that integrate fields to address priority issues including rejuvenating local communities, raising efficiency in government, geospatial information, agriculture, healthcare and health, resources and energy, disaster preparedness and damage mitigation, road transportation, and education
- **The IT Strategic Headquarters will identify issues and regions, intensively introduce the policy resources of individual ministries, implement them as national projects, and verify and disclose successful models, and implement them internationally.**