

The City of Miyako

Post-Disaster Reconstruction Plan

【Basic Plan】 • As of October 31, 2011

【Promotion Plan】 • As of March 30, 2012

Miyako City

【Basic Plan】

I. Introduction

1) Purpose of the Reconstruction Plan

The Reconstruction Plan serves as a guideline for anyone who can relate to the city to work collectively for post-disaster reconstruction. The purpose of the plan is to help accomplish the future vision of “Creating an oasis where “forests, rivers and the ocean” and people can coexist” as mentioned in the City of Miyako Comprehensive Plan (March 2011), which is a guideline for city planning to set out the future state of the city. It is also a resolution to achieve reconstruction by quickly and steadily taking a wide range of actions for reconstruction.

2) Role of the Plan

a. Prompt recovery and reconstruction for further development

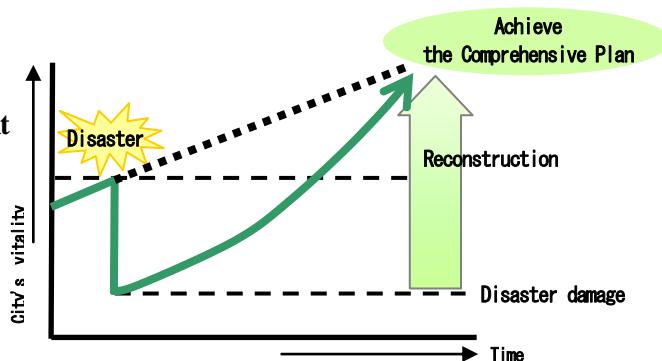
While the city's priorities have been urgent recovery work since the disaster, we must accelerate reconstruction and further development of the city. This Plan was drafted to align with the city's upper most Comprehensive Plan.

b. Reconstruction with all citizens

Reconstruction is a combined effort of all people; citizens, community groups, civil organizations, companies and businesses. It must be done in accordance with this plan in partnership and cooperation with national and municipal institutions. This Plan supports forward looking reconstruction with wider participation and cooperation reinforced by the support of national and international communities.

c. City-wide effort

This Plan promotes a city-wide reconstruction effort, recognizing that reconstructing affected areas would give more vitality to the city's development, and that the socioeconomic impact of the disaster was beyond the affected area and reached inland as well.



3) Three pillars for reconstruction

< Restoring people's houses and living > Looking to accommodate the aging population, we will secure safe housing centered around the ideal state of a city where all functions necessary to people's lives are conveniently concentrated in one area so that all citizens can reach them on foot safely and easily. We also focus on human development and educational advancement for the future, while working to restore people's houses and living from all aspects of the society including employment, healthcare and welfare.

< Reconstructing industry and the economy > We will support the work to recover different sectors including business, trade and manufacturing, agriculture and forestry. We will also promote industrial and economic reconstruction especially of ports that are critical for the city's industrial development.

< Rebuild safer communities > In order to avoid the same level of damage, we will work to create a safer community by designing the city to minimize damage caused by a tsunami, developing a disaster-resilient transportation network, securing and promoting renewable energy, enhancing local disaster-readiness, and reinforcing and reorganizing systems for disaster prevention and risk management.

4) Composition of the Reconstruction Plan

The City of Miyako, Post-Disaster Reconstruction Plan

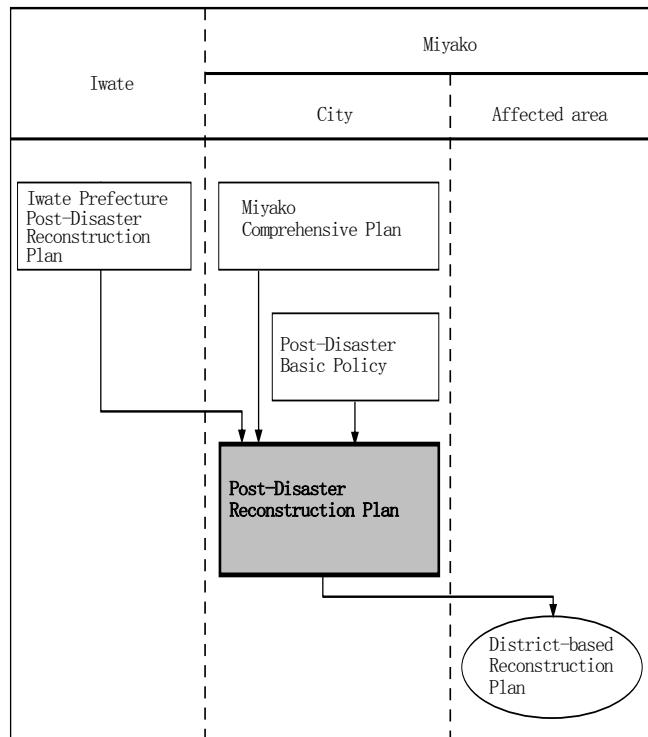
[Basic Plan]

- I. Introduction
- II. Policy for infrastructure development
- III. Effort toward reconstruction
- IV. Project priority for reconstruction
- V. Direction of community-based reconstruction
- VI. Advancing reconstruction

[Promotion Plan]

- I. Promoting reconstruction projects
- II. Promoting community-based reconstruction

5) Organization



6) Time frame

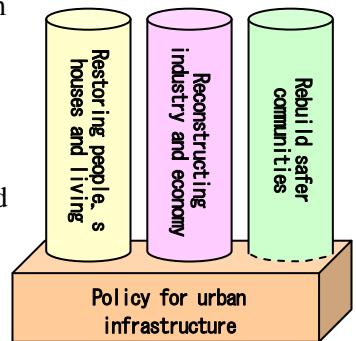
The time frame of this Plan is fiscal 2011-2019 as it is aligned with the City of Miyako, Comprehensive Plan (basic scheme) whose target year is fiscal 2019. The first three years (up to 2013) is “recovery period”, the second (up to 2016) is “revival period” and the last three years (up to 2019) is “development period.”

7) Review

The Reconstruction Plan undergoes review when necessities arise due to socioeconomic changes and reconstruction progress as well as changes in national or prefectural plans. Reviews are done under appropriate progress management.

II. Policy for infrastructure development

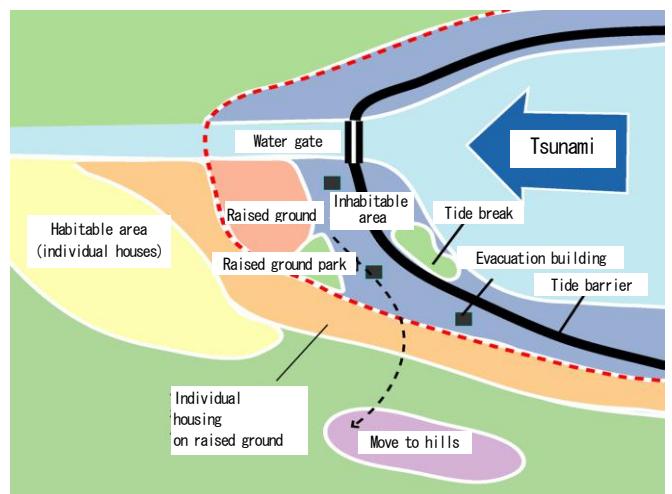
For the city to recover and develop, we need to promote “Efforts for reconstruction” based on the three pillars; “restoring people’s houses and living,” “reconstructing industry and the economy” and “rebuild safer communities.” In order to ensure these “Efforts,” we need to develop the city’s infrastructure as foundation for citizens’ living and industrial activities. Such foundation must also prevent human losses in the face of tsunami and other natural disasters and minimize the damage. The following describes policies for infrastructure development as a basis to promote the “Efforts for reconstruction.”



1) Building multilayered disaster-ready city based on the concept of “disaster reduction”

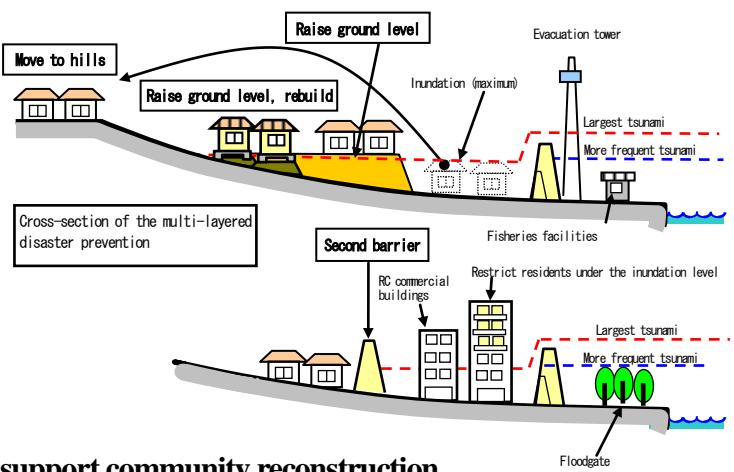
Since it is nearly impossible to block all tsunami just with coastal safety installations, we aim to build a multi-layered disaster-ready city by taking the approach of “disaster reduction” to minimize the damage. We do so by a combination of “reinforcing coastal safety installation” to develop tide barrier; structural side of disaster prevention including transfer to safer neighborhood, raising the ground level, reinforcing building and developing evacuation routes; and the program side of prevention including smooth evacuation and usage restriction, disaster prevention education, and providing information.

2-dimensional image for multi-layered disaster prevention



2) Promoting land usage for safety and vitality

We continue to review land usage and promote the usage to concentrate the industrial foundation in one area with a view to secure a housing environment that gives security to the residents and to give vitality to economic activities. We continue to create a highly mobile society where people can move on foot safely and comfortably based on a universal design by concentrating basic life-related functions in one area to accommodate the aging population.



3) Forming a disaster-ready transportation network to support community reconstruction

We will reinforce and expand a comprehensive transportation network consisting of roads, trains and buses as a basis for community reconstruction and form a disaster-proof transportation network.

4) Reconstructing public facilities for citizens and reinforcing disaster-readiness

We will promptly restore and develop public facilities that support citizens’ safe and comfortable living including facilities to promote industries, educational facilities, and healthcare and welfare facilities. In addition to rearranging public facilities from a municipal perspective, we discuss how the city hall could serve people as a center for disaster prevention and reinforce disaster readiness by securing safer evacuation routes and developing evacuation spots.

III. Effort toward reconstruction

Three pillars	Approaches and targets
Restoring people's houses and living	<p>① Rebuild and support victims' lives</p> <ul style="list-style-type: none"> support lives of the disaster victims for their recovery and stability. support people living in temporary housing that need help. <p>② Secure and retain jobs</p> <ul style="list-style-type: none"> promote recovery and rebuilding of affected businesses toward stable and secure employment in order to restore the deteriorated employment situation. <p>③ Secure and reinforce healthcare</p> <ul style="list-style-type: none"> restore affected healthcare facilities as soon as possible and recover service provisions at a local level. work in partnership with relevant institutions and groups to provide both tangible and intangible support so that citizens stay healthy and safely receive medical service despite the stress caused by the disaster. <p>④ Reinforce welfare</p> <ul style="list-style-type: none"> restore affected welfare facilities as soon as possible and recover service provisions at a local level, and work to provide specific support so that citizens in need of welfare and care services due to the disaster stay healthy and safely both mentally and physically. provide necessary support to people with financial needs caused by the disaster in order to secure their minimum living standard and promote self-sustainability based on their financial condition. <p>⑤ Secure and enhance schools and educational environments</p> <ul style="list-style-type: none"> recover the school environments that were lost in the disaster and secure and expand schools and educational environments where children develop solid academic capability, nurture rich spirit, and grow up physically healthy in their lives at school. <p>⑥ Restore facilities for lifelong learning and preserve and pass down cultural assets</p> <ul style="list-style-type: none"> restore affected facilities as soon as possible and secure environments for diverse activities including lifelong learning, sports, recreation, art and culture. prompt research on cultural assets to preserve and pass them down in response to reconstructions needs. <p>⑦ Reinforce and revitalize local communities</p> <ul style="list-style-type: none"> revitalize communities in affected areas to foster stronger ties in the communities and encourage community building within temporary housings.
Reconstructing industry and the economy	<p>① Reconstruct and revitalize agriculture</p> <ul style="list-style-type: none"> restore affected farm land and facilities as soon as possible to help resume their operation and work to secure and train successors to reconstruct and revitalize agriculture. <p>② Reconstruct and revitalize forestry</p> <ul style="list-style-type: none"> revitalize affected forest and restore forest roads as soon as possible to help restore and further develop production facilities while securing and training successors in order to reconstruct and revitalize the industry.

<p>Reconstructing industry and the economy</p>	<p>③ Reconstruct and revitalize fisheries</p> <ul style="list-style-type: none"> reconstruct and revitalize the fishery industry, a core industry of the city, in an integrated process from production to distribution in order to rebuild the local economy. <p>④ Reconstruct and revitalize commerce</p> <ul style="list-style-type: none"> help affected city centers and commercial districts resume their businesses as soon as possible and promote activities to create attractive stores and liveliness in order to reconstruct and revitalize commerce. <p>⑤ Reconstruct and revitalize industry</p> <ul style="list-style-type: none"> restore and rebuild affected factories as soon as possible and promote local companies that lead the city's industrial development centered around manufacturing as well as attract companies into the city. <p>⑥ Reconstruct and revitalize companies and businesses</p> <ul style="list-style-type: none"> aim to reconstruct and revitalize all sectors and foster local industry by supporting affected companies and businesses to resume their services as soon as possible. <p>⑦ Reconstruct and revitalize tourism</p> <ul style="list-style-type: none"> reconstruct affected tourist facilities as soon as possible and rebuild an attractive tourism industry integrated with the rich local resources that we boast. <p>⑧ Reconstruct and revitalize ports</p> <ul style="list-style-type: none"> prompt reconstruction and development of ports and ensure that they are safe while promoting community development based on industrial/economic activities and utilizing ports.
<p>Rebuild safer communities</p>	<p>① Promote building a disaster-proof city</p> <ul style="list-style-type: none"> design districts based on reconstruction and community building plans (plans for developing affected areas), advance effective and systematic land use, prompt reconstruction and development of coastal safety installations such as tide barriers and create a city based on the concept of "disaster reduction" to minimize tsunami damage. review the reallocation of public facilities according to the development of affected areas to restore and develop those facilities in an appropriate way. secure and promote renewable energy, promote rebuilding lifelines including water and sanitation, electricity and phone lines, and advance disaster-proof city planning. <p>② Develop disaster-proof transportation networks</p> <ul style="list-style-type: none"> restore and revitalize public transportation such as railways, build highly safe road networks disaster-proof transportation networks. <p>③ Enhance disaster readiness at a local level</p> <ul style="list-style-type: none"> restore and develop evacuation sites, roads and guiding signs to secure citizens' safety in case of disaster, raise awareness on disaster prevention and knowledge, and reinforce voluntary disaster prevention groups. <p>④ Reinforce and restructure disaster prevention and risk management systems</p> <ul style="list-style-type: none"> promote developing disaster readiness and responses to protect citizens from damage and facilities to smoothly rescue and serve victims. <p>⑤ Passing lessons and stories of disasters to future generations</p> <ul style="list-style-type: none"> pass down stories of earthquakes and tsunami that took so many people's lives to future generations and make sure the lessons learned from them are not forgotten.

IV. Core projects for reconstruction

We give priority to the following five core projects to lead the whole plan so that all citizens can witness actual reconstruction.

1) Project to support rebuilding houses

One of the priorities of the city for post-disaster reconstruction is to secure permanent housing for affected people so that they heal from the disaster damage and are hopeful for the future. We need to respond to various needs of victims including public housing and support rebuilding private houses as affected households vary from elderly households to single-person households.

Thus, we work on a “project to support rebuilding houses” to respond to various housing needs including securing land for rebuilding houses, developing public housing, and creating aid systems for building individual houses.

2) Port town revival project

We need to restore infrastructure for production including ports, commercial centers and other industrial districts as soon as possible. Tourism is another important sector for the city’s reconstruction and needs to be promoted to attract more people.

Thus in addition to developing and improving coastal safety installations such as tide barriers to protect this infrastructure, it is also important to develop a disaster-proof industrial basis and effective land use to concentrate functions as well as recover employment to support rebuilding businesses. We work on this “Port town revival project” as a city of industry in order to train human resources that are necessary for industrial formation, train successors and create attractive tourism.

3) Renewable energy project with forest, river and the ocean

Due to the blackout that was caused by the tsunami and affected the initial restoration and victims support process as well as the Fukushima radiation leakage accident, which made us realize the importance of disaster-proof, clean renewable energy. Local energy management based on local production and consumption of energy is increasingly important.

Thus, the city’s reconstruction introduces a “Renewable energy project with forest, river and the ocean” to encourage renewable energy utilizing natural energy resources including solar, wind, wave and water power.

4) Cooperation project as a disaster-proof city

Various forms of communication are necessary as communication in the face of disaster connect people’s lives to the future and thus are essential for safe community building. Also, voluntary disaster-prevention groups know local communities very well and are expected to be the core of community disaster prevention efforts. Thus it is necessary to train and reinforce such groups to prepare for disasters.

Thus we work to create extended and specific communication systems by digitizing the community wireless system and increasing its coverage. We also work on the “Cooperation project as a disaster-proof city” to reinforce mutual help among local communities including developing safer evacuation routes and destinations, utilizing community FM radio, and train and reinforce volunteer disaster-prevention groups to enhance support systems within communities in the face of disasters.

5) Project to pass down disaster stories

To bring an end to disaster damage involving human losses, it is necessary to encourage disaster-prevention education for sharing tragic stories of the tsunami and connect them to safer evacuations and actions by all citizens. It is also important to pass down the experiences from this disaster and the lessons learned from past disasters so that each citizen enhance their disaster-preparedness and future generations don’t have to repeat the same tragedy.

Thus we work on the “Project to pass down disaster stories” to remember and document the disaster for the future generations as well as to inform the rest of the world of our effort to create a disaster-ready city that protects precious lives.

V. Approach for reconstruction – case study

The most affected coastal area of the city is divided into three districts (see the map) taking local features into consideration. For each district, we set the following approaches on city planning based on the opinions and recommendations arisen from public surveys and public comments. We advance our city planning based on these approaches.



1) Taro District

- promote development of residential areas where people can live their lives without fear by relocating them to on hills, while taking Settai District in the north and other pre-disaster communities into consideration.
- support the fishery industry and rearrange fisheries and processing facilities toward revitalization of the industry that create and nurture lives. Also, increasing demand for tourism by attracting people along with the Sanriku Jukan Highway and interchanges will promote reconstruction for the industry that boasts rich natural and fishery resources.
- promote the development of coastal safety installations including restoration of destroyed tide barriers and discussing effective disaster-prevention facilities, and advance tangible and intangible projects to increase the attraction of the city including facilities to learn the history of the tsunami and lessons learned from this disaster as well as disaster prevention education.

2) Miyako District

- enhance safety against tsunamis by raising the ground level and building river embankments in the central area, and develop safe and secure residential areas by utilizing hills in hinterland as well as raising the ground level and developing tide barriers as necessary in non-central areas.
- promote actions for the reconstruction and revitalization of central commercial areas, discuss the introduction of projects to reinforce urban infrastructure and functions, and take steady steps in the reconstruction by systematic and gradual deployment of restoration measures for industrial infrastructure including fish markets, ports, harbors and tourism facilities.
- discuss building evacuation towers or buildings to reinforce and secure evacuation systems for the area outside the tide barrier protection or where there is no tide barrier installed, review current evacuation routes and destinations to see if they are friendly to elderly and physically challenged people and make sure everybody can evacuate easily, and introduce multi-lanes for the roads that are used for evacuation.
- create a compact city with urban functions and businesses concentrated in one area while utilizing geographical advantages and historical backgrounds in implementing reconstruction projects.

3) Omoe District

- develop residential areas where people can live safe and secure lives while maintaining existing communities by utilizing lower land and hinterland within existing neighborhoods.
- restore affected port facilities and tide barriers in an attempt to revitalize the fishery industry that is a core sector for the region and attract people into the area by taking advantage of rich natural environments and the geographical features as being the eastern tip of the main island.
- promote the restoration of tide barriers and other coastal safety installations and prompt construction of disaster-proof road networks while improving access to surrounding neighborhoods.

VI. In order to promote reconstruction, we keep in mind the following points in promoting reconstruction:

1) Points to keep in mind

- participatory and cooperative efforts of citizens and local government working in partnership.
- systematic and effective implementation of projects.
- consider situations of affected people and ensure equality to all.
- flexible responses according to changing situations.

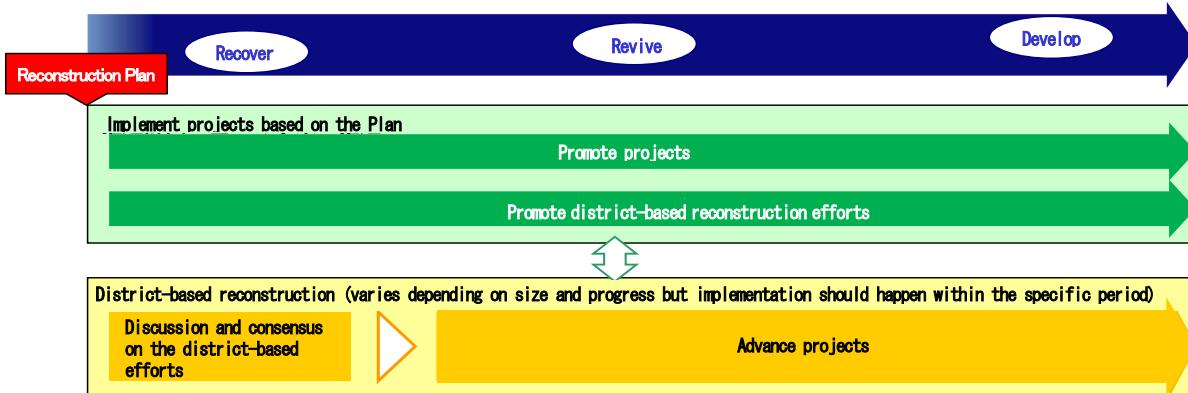
2) Process for promoting reconstruction and citizens' participation

The city's plans for reconstruction consists of "Reconstruction Plan (Basic Plan)," "Reconstruction Plan (Promotion Plan)" that is an actual implementation of the Basic Plan and "District-based Reconstruction Plan" that are under these plans and set out specific individual efforts in affected areas. These plans give direction to the city's overall reconstruction projects.

These three Plans are like wheels of cars and all are essential to move forward to attain reconstruction. Effective and prompt implementation of reconstruction policies depend on whether we can advance projects in parallel with and based on these plans.

We have encouraged the participation of citizens from early stages through dialogues and surveys. The active participation and cooperation of citizens are needless to say as important as before for the future reconstruction of the city.

We will encourage opinions and recommendations from citizens while sharing information on our plans and projects with them.



3) Partnership with national, prefectoral and other municipal governments

We work with national, prefectoral and other municipal governments to promote projects smoothly while making suggestions and requests for financial resources and creating new systems for allowing special arrangements.

We aim for effective reconstruction through cooperation or sharing roles on the issues that need to be addressed in a broader geographical range while reinforcing partnerships with the prefectoral government and local governments on the coast.

4) Progress management

We monitor the progress of the plan properly by reviewing results and achievements of the projects for more comprehensive and effective development according to different situations.

5) Distribute information

We utilize and provide various methods and opportunities of communication to distribute information necessary for citizens, companies and businesses. We also report on actual damage to the city and our progress and efforts for reconstruction to the rest of the country and the world in order to prevent unwanted rumors and increase population.

【Promotion Plan】

Advancing reconstruction projects

*As of March 30, 2012

Policy systems for “Efforts toward reconstruction”

[Pillar]	[Approach]	[Effort/work]	[Projects]
① Rebuild and support victims' lives	<ul style="list-style-type: none"> ● Support independent lives ● Support residents of temporary housing ● Support rebuilding houses ● Provide public housing ● Provide detailed information ● Expand citizens' consultations ● Integrated management of victims information 	Project to grant public donation Project to provide information on support systems for victims	
		Project to support residents of temporary housing Project for management and maintenance of temporary housing	
		Project to grant aid for rebuilding lives of victims Project to support rebuilding victims houses (construct/buy) Project to provide housing support for rebuilding lives (repair affected houses) Project to provide housing support for rebuilding lives (remodel affected houses) Project to supplement housing loans for post-disaster reconstruction and restoration Project to provide and promote high-quality community apartments for post-disaster reconstruction (prefectural) Project to support quakeproof wooden housing Project to prevent furniture from falling	
		Project to develop post-disaster public housing (prefectural/municipal) Project to develop parking space for post-disaster public housing (prefectural/municipal) Project to develop management systems for post-disaster public housing (prefectural/municipal) Project to reduced rent for post-disaster public housing (prefectural/municipal) Project to plan for longer-lasting post-disaster public housing	
		Project to provide information on support systems for victims [written again]	
		Life-related consultation project for victims	
		Information management project for victims	
② Secure and retain jobs	<ul style="list-style-type: none"> ● Retain jobs ● Create jobs ● Support job hunting 	Project for post-disaster urgent employment measures	
		Project for employment boosting Project for post-disaster urgent employment measures [written again]	
		Project for employment boosting [written again] Project for post-disaster urgent employment measures [written again] Project for job hunting	
③ Secure and enhance healthcare	<ul style="list-style-type: none"> ● Secure doctors at nationalized universal healthcare clinics ● Develop community healthcare systems 	Project to secure doctors at nationalized universal healthcare clinics	
		Project to support securing doctors at Miyako Prefectural Hospital	

【Pillar】	【Approach】	【Effort/work】	【Projects】
	③ Secure and enhance healthcare	<ul style="list-style-type: none"> Maintain and enhance health, promote psychological care 	Project to support victims health Project to secure specific health checkups Project to run community mental care centers (prefectural) Project to support health counseling at affected areas (prefectural) Project to promote oral healthcare at affected areas
	<ul style="list-style-type: none"> Restore healthcare facilities 	Project to restore Taro Clinic Project to develop health and social care facilities	
	④ Enhance welfare	<ul style="list-style-type: none"> Support people in need of welfare and care services due to the disaster 	Project to support affected elderly people Project to manage Taro Support Center Childcare fee exemptions Subsidy for joining kindergartens Project to allocate life supporters Project to reinforce consultation service systems Project to encourage disaster support networks Project to promote access to adult guardianship
		<ul style="list-style-type: none"> Restore welfare facilities 	Project to develop health and social care facilities [written again] Project to provide special subsidies to care services Project to restore care and prevention centers Project to develop childcare facilities
		<ul style="list-style-type: none"> Expand support for impoverished people 	Special emergency housing allowance Project to support affected social security recipients for their
	⑤ Secure and enhance school and educational environments	<ul style="list-style-type: none"> Promote mental health for school children 	Project to support schools for children's mental health Project to develop school support systems
		<ul style="list-style-type: none"> Promote education from the perspective of reconstruction education 	Project to promote reconstruction education
		<ul style="list-style-type: none"> Support affected school children 	Scholarship project
		<ul style="list-style-type: none"> Promote security for school children 	Project to develop emergency evacuation systems Project to support children going to school Project to promote reconstruction education [written again] Project to secure safety stock for housing and building (project for earthquake-proof structures, prefectural)
		<ul style="list-style-type: none"> Restore school facilities 	Project to build temporary school building for Chikei and Uiso elementary schools Project to restore school facilities Project to plan appropriate allocation of schools
	⑥ Restore facilities for lifelong learning and preserve and pass down cultural assets	<ul style="list-style-type: none"> Restore social education facilities 	Project to restore community centers Project to restore district centers
		<ul style="list-style-type: none"> Restore sports and recreation facilities 	Project to restore sports park Project to restore Fujinokawa Beach Project to restore Rias Harbor pontoon bridge Project to repair lights of Taro Daiichi Middle School playground
		<ul style="list-style-type: none"> Restore cultural facilities 	Project to restore Miyako City Cultural Hall
		<ul style="list-style-type: none"> Prompt survey to preserve and pass down cultural assets 	Excavation and research project for buried cultural property

【Pillar】	【Approach】	【Effort/work】	【Projects】
Restoring people, s houses and living	⑥ Restore facilities for lifelong learning and preserve and pass down cultural assets	<ul style="list-style-type: none"> Prompt survey to preserve and pass down cultural assets 	Excavation and research project for buried cultural property (prefectural) Project to develop facilities for storing buried cultural property
⑦ Reinforce and revitalize local communities		<ul style="list-style-type: none"> Support community building in temporary housings 	Project to grant subsidies to support community enhancement
		<ul style="list-style-type: none"> Support rebuilding communities 	Project to grant subsidies to support community enhancement [written again]
		<ul style="list-style-type: none"> Support local activities 	Project to grant subsidies to support community enhancement [written again] Project to develop facilities for community autonomous bodies to hold local activities Project to develop autonomous body training center

【Pillar】	【Approach】	【Effort/work】	【Projects】
Reconstructing industry and economy	① Reconstruct and revitalize agriculture	<ul style="list-style-type: none"> Restore farm land and facilities 	Project to reorganize farm land and related land allocation (project for comprehensive infrastructure for reconstruction, prefectural) Project for comprehensive reconstruction of rural areas Project to restore farm land (prefectural) Project to develop facilities for rural areas Project to grant aid for farm land and water preservation management
		<ul style="list-style-type: none"> Secure and train successors 	Project to allocate municipal agriculture counselors Project to encourage new entry into agriculture Project to give general support to Iwate future agriculture
		<ul style="list-style-type: none"> Support producers for rebuilding their operation 	Project to help affected farmers resume their operation Project to help producers rebuild their operation
② Reconstruct and revitalize forestry		<ul style="list-style-type: none"> Revitalize forest 	Project to restore destroyed forests Project to restore forest roads Project to restore degraded forest land (prefectural)
		<ul style="list-style-type: none"> Restores and develop production facilities 	Project to restore forestry facilities Emergency projects to provide timber wood (prefectural) Project to restore timber processing and distributing facilities (prefectural) Project to accelerate forest development and to set up foundation for revitalizing forestry (steady supply of timber wood for reconstruction, prefectural)
		<ul style="list-style-type: none"> Secure and train successors 	Project to train forestry successors
		<ul style="list-style-type: none"> Encourage local wood usage 	Project to promote building houses using local wood Project to set out basic policy for using wood for public facilities Project to accelerate forestry development and to set up foundation for revitalizing forestry (steady supply of timber wood for reconstruction)

【Pillar】	【Approach】	【Effort/work】	【Projects】
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Reconstructing industry and economy</p> 	<p>③ Reconstruct and revitalize fisheries</p>	<ul style="list-style-type: none"> • Revitalize fisheries that produce and nurture 	Project to restore salmon and trout farming facilities (tentative restoration of salmon incubator) Project to support reconstruction of salmon and trout breeding facilities (official restoration of salmon incubator) Project for emergency support to restore seaweed Project to purchase broodstock Project to support restoration of fishery infrastructure (farm) Project to support restoration of fishery infrastructure (shared facilities) Project to promote cultural fishery (Iwate prefectural contribution for fishery farming) Project to beautify the aquatic environment Project to increase fisheries in Heigawa River Project to promote cultural fishery Project to promote cultural fishery in Miyako Bay Project to support environmental and ecological conservation Project to develop facilities to deal with spilled oil
		<ul style="list-style-type: none"> • Revitalize ports, fishing ground and fishery village 	Project to restore civil engineering facilities (tentative restoration of fisheries facilities) Project to restore civil engineering facilities (restoration of fishery facilities) Project to restore ports (city only) Project to restore civil engineering facilities (restoration of coastal safety installations) Project to restore civil engineering facilities (restoration of port related facilities) Project to reinforce port functions Project to reconstruct and develop shared facilities for marine products industry (related to reconstruction of port facilities) Project to develop fisheries infrastructure Project to reinforce disaster-prevention in fishing communities Project to develop community facilities in fishing villages Project to restore publicly managed ports (prefectural) Project to develop infrastructure for publicly managed ports (prefectural) Project to develop infrastructure for publicly managed ports (contribution) (prefectural)
		<ul style="list-style-type: none"> • Reconstruct producers' management 	Project to support functional recovery of marine products organizations Project to support functional recovery of fisheries cooperatives Project to support restoration of shared fishing boats Special interest subsidy for post-disaster fisheries subsidies Project to vitalize marine products industry management Special interest subsidy for fisheries modernization Subsidies for fisheries mutual aid premium Project to reconstruct marine product industry management
		<ul style="list-style-type: none"> • Secure and train successors 	Project to train successors of marine products industry in Miyako
		<ul style="list-style-type: none"> • Develop distribution and processing systems 	Project to restore ice making and storing facilities Project to support restoration of shared facilities for marine products industry Project to increase marine products consumption Comprehensive support project for industrial reconstruction [post-disaster project to increase marine products consumption] Project to attract more boats that stop by at Miyako Project to support distribution and processing of marine product Project to restore ice making and storing facilities

【Pillar】	【Approach】	【Effort/work】	【Projects】
 Reconstructing industry and economy	③ Reconstruct and revitalize fisheries	<ul style="list-style-type: none"> ● Develop distribution and processing systems 	<p>Project to support restoration of shared facilities for marine products industry Project to increase marine products consumption Comprehensive support project for industrial reconstruction [post-disaster project to increase marine products consumption] Project to attract more boats that stop by at Miyako Project to support distribution and processing of marine products Project to restore Miyako fish market Project to develop Miyako fish market Project to develop warehouse for Miyako fish market Project to reconstruct and develop shared facilities for marine products industry (to promote distribution of marine products) Project to provide special support to marine products distribution and processing facilities</p>
	④ Reconstruct and revitalize commerce	<ul style="list-style-type: none"> ● Reconstruct and revitalize city center 	<p>Project to help affected business owners resume their businesses Project to create attractive city Project to promote commerce Project to introduce information on attractive city center Project to introduce activities by commercial community Project to support vitalization of local commercial activities Project to support medium and small sized companies for post-disaster restoration Project to support medium and small sized companies for post-disaster reconstruction</p>
		<ul style="list-style-type: none"> ● Reconstruct and revitalize affected commercial districts on the coast 	<p>Project to help affected business owners to resume their businesses [written again] Project to promote commerce [written again] Project to support vitalization of local commercial activities [written again] Project to manage shared temporary commercial building Project to support medium and small sized companies for post-disaster restoration [written again] Project to support medium and small sized companies for post-disaster reconstruction [written again]</p>
		<ul style="list-style-type: none"> ● Secure and train successors and new business owners 	<p>Project to support medium and small sized companies for post-disaster reconstruction [written again]</p>
	⑤ Reconstruct and revitalize industry	<ul style="list-style-type: none"> ● Restore and rebuild factories 	<p>Project to support medium and small sized companies for post-disaster restoration [written again] Project to support medium and small sized companies for post-disaster reconstruction [written again]</p>
		<ul style="list-style-type: none"> ● Support nurturing indigenous companies 	<p>Comprehensive support project for industrial reconstruction [project to foster indigenous industry and cultivate market]</p>
		<ul style="list-style-type: none"> ● Attract more companies 	<p>Project to attract more companies Project to develop land for inviting more companies to build their offices</p>
	⑥ Reconstruct and revitalize companies and businesses	<ul style="list-style-type: none"> ● Financial and managerial support 	<p>Project to support medium and small sized companies for post-disaster reconstruction [written again] Comprehensive support project for industrial reconstruction [Project to promote support for industrial reconstruction] Project to support medium and small sized companies for post-disaster restoration [written again]</p>

【Pillar】	【Approach】	【Effort/work】	【Projects】
Reconstructing industry and economy	⑥ Reconstruct and revitalize companies and businesses	<ul style="list-style-type: none"> ● Promote utilization of various support systems 	<p>Project to support medium and small sized companies for post-disaster reconstruction [written again] Comprehensive support project for industrial reconstruction [Project to promote support for industrial reconstruction] [written again] Project to support medium and small sized companies for post-disaster restoration [written again]</p>
		<ul style="list-style-type: none"> ● Support business revitalization and growth 	<p>Comprehensive support project for industrial reconstruction [project to foster indigenous industry and cultivate market] [written again] Project to support medium and small sized companies for post-disaster reconstruction [written again] Comprehensive support project for industrial reconstruction [Project to promote support for industrial reconstruction] [written again] Project to support medium and small sized companies for post-disaster restoration [written again] Comprehensive support project for industrial reconstruction [agriculture, forestry, marine, and industry related project] Aid for industrial development</p>
⑦ Reconstruct and revitalize tourism		<ul style="list-style-type: none"> ● Restore tourist services and destinations 	<p>Project to upgrade a waiting room in Taro Station Project to develop collective facility district in Rikuchu Kaigan national park, Jodogahama Beach Project for urgent development of nature park facilities (tentative name) (prefectural) Project to upgrade Jodogahama Rest House Project to develop a facility to promote general Miyako city-wide exchange Project to attract more tourists [project to maintain beaches] Project to upgrade environment of the Jodogahama district Project to restore Aneyoshi camp site Project to develop tourist facility</p>
		<ul style="list-style-type: none"> ● Rebuild and support systems to receive guests 	<p>Project to upgrade Jodogahama Rest House [written again] Project to develop a facility to promote general Miyako city-wide exchange [written again] Project for partnership among tourist related groups Project to attract more tourists [project to support cruise bus for overnight tourists] Project to attract more tourists [project for Bonnet Bus, city cruise bus] Project to attract more tourists [Welcome to Miyako project]</p>
		<ul style="list-style-type: none"> ● Revitalize local tourist resources 	<p>Project to attract more tourists [project to support tourist events] Project to attract more tourists [project to promote hands-on tourism] Project to attract trips related to disaster-prevention education Project to utilize tsunami legacy Project to promote tourism in the city center Project to preserve history and culture</p>
		<ul style="list-style-type: none"> ● Share information on reconstruction and attract more tourists 	<p>Project to attract more tourists [project to share information on reconstruction] Project to develop Miyako Dream Rail Project to promote Iwate Destination Campaign Project for partnership among Rikuchu Kaigan National Park association members Project to promote tourism in wider Morioka and Hachimantai area</p>

【Pillar】	【Approach】	【Effort/work】	【Projects】
⑧ Reconstructing industry and economy	⑧ Reconstruct and revitalize ports	●Secure port functions	Post-disaster restoration of Miyako Port (national) Post-disaster restoration of Miyako Port (prefectural) Promotion of utilizing Miyako Port
		●Secure functions as a basis for logistics and industrial infrastructure	Post-disaster restoration project of Miyako Port(national) 【written again】 Post-disaster restoration project of Miyako Port (prefectural) 【written again】 Project to promote utilizing Miyako Port 【written again】 Project to subsidize port usage fee Project to subsidize fees for container shipping routes Project to secure port functions
		●Secure disaster-ready fuctions	Post-disaster restoration project of Miyako Port (national) 【written again】 Post-disaster restoration project of Miyako Port (prefectural) 【written again】 Project to promote utilizing Miyako Port 【written again】
		●Secure water-friendly space	Post-disaster restoration project of Miyako Port(national) 【written again】 Post-disaster restoration project of Miyako Port (prefectural) 【written again】 Project to promote utilizing Miyako Port 【written again】 Project to develop Miyako Port (prefectural) Project to promote marine recreation Project to celebrate 400 th anniversary of Miyako Port

【Pillar】	【Approach】	【Effort/work】	【Projects】
① Rebuild safer communities	① Promote building a disaster-proof city	●Introduce the district-based reconstruction plan (plan for developing affected districts)	Introduction of the district-based reconstruction plan
		●Promote systematic land use	Draft reconstruction and development plans Project to promote priority projects for reconstruction Project to develop post-tsunami reconstruction basis Project to readjust land for urban revitalization Project to promote collective relocation Project to reinforce disaster-proof functions for fishery communities 【written again】 Project to convert performance coordinates for a cadastral survey, to conduct a check survey Project for a national land survey
		●Restore and develop coastal safety installations	Project to restore civil engineering facilities (restore ports, rated as serious disasters) 【written again】 Project to restore civil engineering facilities (restore coastal safety installations, rated as serious disasters) 【written again】 Project to reinforce port functions 【written again】 Project to restore publicly managed ports(prefectural) 【written again】 Post-disaster restoration project of Miyako Port(national) 【written again】 Post-disaster restoration project of Miyako Port (prefectural) 【written again】 Project to promote multi-layered city planning and create motorized and remotely controllable water gate systems against tsunami (prefectural)

【Pillar】	【Approach】	【Effort/work】	【Projects】
① Promote building a disaster-proof city 	<ul style="list-style-type: none"> ● Restore and develop coastal safety installations 	<ul style="list-style-type: none"> Project to promote multi-layered city planning and develop coastal safety installations (prefectural) Project to restore social infrastructure and rivers (national/prefectural) Project to restore civil engineering facilities (national/prefectural) Project to maintain and manage rivers 	
	<ul style="list-style-type: none"> ● Develop and promote multi-layered disaster ready facilities 	<ul style="list-style-type: none"> Project to develop evacuation facilities against tsunami Project to secure evacuation routes against tsunami 	
	<ul style="list-style-type: none"> ● Restore parks 	<ul style="list-style-type: none"> Restore parks Project to develop evacuation spots 	
	<ul style="list-style-type: none"> ● Reallocate public facilities 	<ul style="list-style-type: none"> Draft development policy for affected public facilities Project to plan reallocation of public facilities Develop city hall Restore city hall Project to upgrade Tsugaruishi Branch 	
	<ul style="list-style-type: none"> ● Secure and promote renewable energy 	<ul style="list-style-type: none"> Project to design the renewable energy master plan Project to draft the basic environmental plan Project to introduce renewable energy into public facilities Project to promote the introduction of large solar power generators Project to promote the introduction of household solar power generation systems Project to subsidize the purchase of wood-fuelled biomass heating systems Project to develop wood-fuelled biomass related facilities (prefectural) 	
	<ul style="list-style-type: none"> ● Promote the development of disaster-proof lifelines (water and sanitation, electricity, telephone) 	<ul style="list-style-type: none"> Project to develop disaster-proof lifelines (electricity and telephone) Project to restore water systems Project to update water systems (raise ground level) Project to update water systems (move to hills) Project to secure water tank trucks Project to develop storage for emergency water supply equipment Project to develop an emergency reservoir Project to develop Miyako public water treatment plants Project to upgrade sewer systems (post-disaster restoration) Project to upgrade sewer systems (Miyako treatment district) Project to make sewer systems earthquake-proof Project to develop public sewer systems (Taro treatment district) Project to develop drainage systems for fishery communities Project to develop private sewerage systems (installed by municipality) Project to deal with inundation 	
<ul style="list-style-type: none"> ● Proper treatment of waste 	<ul style="list-style-type: none"> Project to treat disaster waste 		
② Develop disaster-proof transportation networks 	<ul style="list-style-type: none"> ● Promote the development of high standard arterial road 	<ul style="list-style-type: none"> Project to develop the Sanriku Reconstruction Road and other Reconstruction Roads (national) Project to develop the Sanriku Reconstruction Road and other Reconstruction Roads (renew, disaster-prevention, bridges with earthquake-proof functions) (prefectural) Project to develop Sanriku Reconstruction Road and other Reconstruction Support Roads (disaster-prevention, bridges with earthquake-proof functions) (prefectural) Project to develop the Sanriku Reconstruction Road and other Reconstruction Related Roads (renew, disaster-prevention, bridges with earthquake-proof functions) (prefectural) 	

【Pillar】	【Approach】	【Effort/work】	【Projects】
Rebuild safer communities	② Develop disaster-proof transportation networks	<ul style="list-style-type: none"> ● Promote the development of high standard arterial road 	<p>Project to promote multi-layered disaster-ready city planning and to develop community networking roads (prefectural) Project to restore social infrastructure and rivers (national/prefectural) [written again]</p>
		<ul style="list-style-type: none"> ● Restore and develop intra-city arterial roads and community roads 	<p>Project to restore social infrastructure and rivers (substituted by prefecture) Project to develop the Sanriku Reconstruction Road and other Reconstruction Related Roads (substituted by prefecture) Project to develop arterial roads for reconstruction Project to develop local partnership roads for reconstruction Project to promote local disaster-prevention roads Project to address inundation Project to restore civil engineering facilities [written again]</p>
		<ul style="list-style-type: none"> ● Restore and revitalize public transportation 	<p>Project to build public transportation systems Project to maintain community bus networks (for newly developed hill residences) Project to promote bus usage Project to restore the Sanriku Railway Project to reinforce Sanriku Railway Company management Project to support the Sanriku Railway Project to promote restoration and usage of railway systems</p>
	③ Enhance disaster readiness at a local level	<ul style="list-style-type: none"> ● Restore and develop disaster-prevention facilities (evacuation routes and guiding signs) 	<p>Draft urban disaster prevention comprehensive promotion plans Project to develop tsunami evacuation guiding facilities Project to develop tsunami evacuation facilities [written again] Project to develop tsunami evacuation routes [written again] Project to improve shelter environments Project to develop open space for tsunami evacuation [written again]</p>
		<ul style="list-style-type: none"> ● Raise awareness and knowledge on disaster 	<p>Project to enhance community disaster-readiness (project to raise awareness of disaster)</p>
		<ul style="list-style-type: none"> ● Train and reinforce voluntary disaster-prevention groups 	<p>Project to enhance community disaster-readiness (project to support reinforcing voluntary disaster-prevention groups)</p>
		<ul style="list-style-type: none"> ● Recover firefighting 	<p>Project to upgrade fire-extinguishing vehicles Project to develop sites for fire-fighters Project to secure safety for volunteer fire-fighters Project to develop the environment for volunteer fire-fighting activities</p>
	④ Reinforce and restructure disaster prevention and risk management systems	<ul style="list-style-type: none"> ● Review community disaster-prevention plans and action manuals 	<p>Project to plan community disaster-prevention plans Project to create hazard maps</p>
		<ul style="list-style-type: none"> ● Develop hubs for disaster prevention 	<p>Project to develop hubs for disaster prevention</p>
		<ul style="list-style-type: none"> ● Reestablish communication tools for citizens 	<p>Project to develop community wireless systems by municipality Project to reinforce emergency communications Project to develop sea level monitoring facilities Project to partner with disaster-prevention media Project to develop emergency communication tools</p>
		<ul style="list-style-type: none"> ● Reestablish systems to save and rescue victims 	<p>Project to secure equipment for disaster prevention Project to reestablish systems to save and rescue victims</p>

【Pillar】	【Approach】	【Effort/work】	【Projects】
Rebuild safer communities	⑤ Passing lessons and stories of disasters to future generations	<ul style="list-style-type: none"> ●Expand disaster-prevention education 	Project to improve community disaster-readiness (project to promote disaster-prevention education) [partially written again]
		<ul style="list-style-type: none"> ●Organize disaster related documents and develop disaster record 	Project to pass down stories and lessons of the disaster
		<ul style="list-style-type: none"> ●Build the disaster memorial park 	Project to conserve the tsunami legacy

*The reconstruction project undergoes annual reviews.