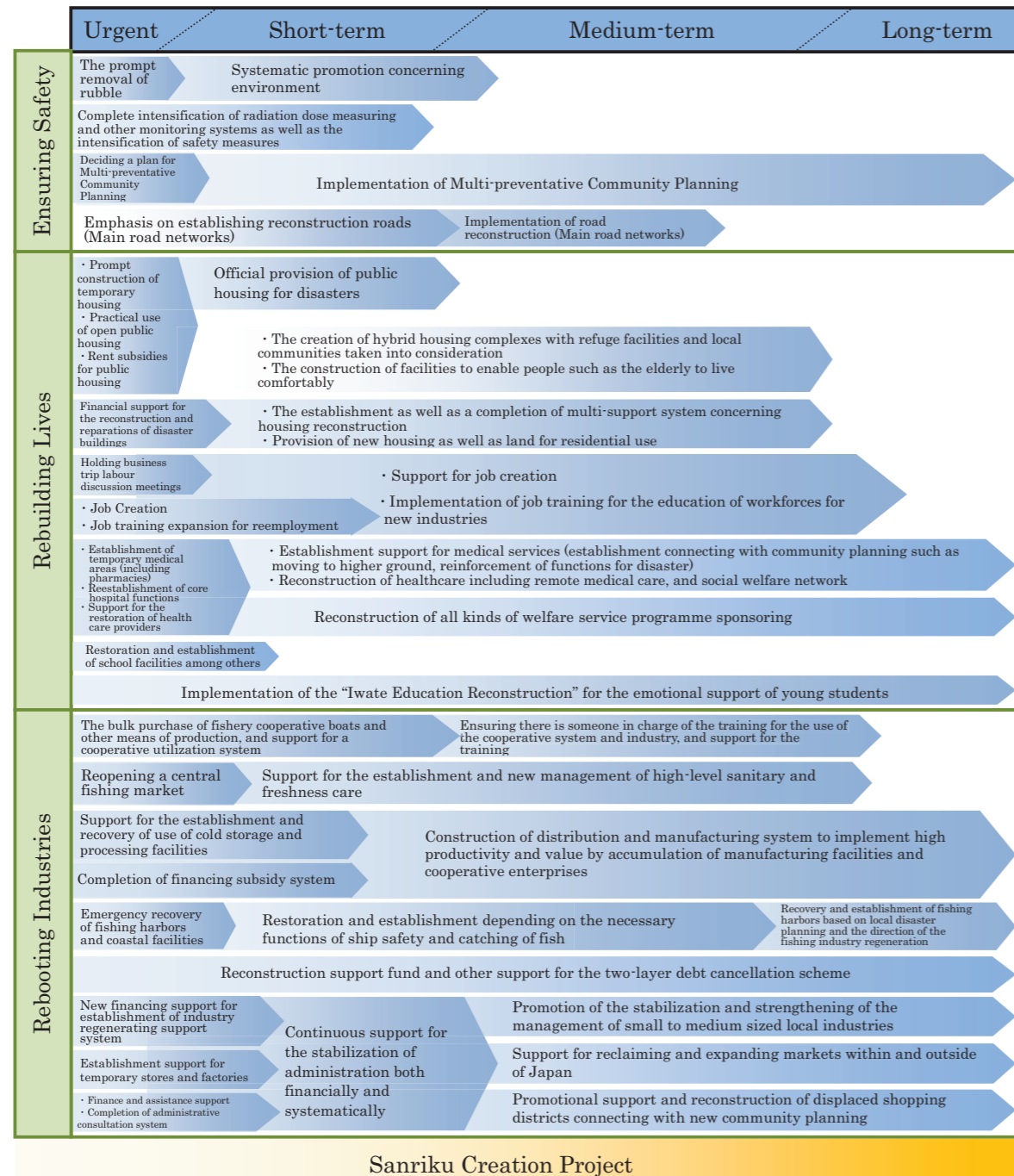


## Advancing towards Reconstruction



For opinions and inquiries concerning the Basic Reconstruction Plan, please use following the contact details.

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**Inquiries : Iwate Prefecture, Bureau of Reconstruction, Planning Division**  
 020-8570 Iwate Prefecture, Morioka City, Uchimarui, 10-1  
 TEL : 019-629-6945 FAX : 019-629-6944  
 Email : AJ0002@pref.iwate.jp  
 Iwate Reconstruction Net [http://www.pref.iwate.jp/~hp0212/fukkou\\_net/](http://www.pref.iwate.jp/~hp0212/fukkou_net/)

## Iwate Prefecture Great East Japan Earthquake and Tsunami Reconstruction Plan Basic Reconstruction Plan<Outline>

~To Protect Life, To Live Together with the Sea and Land, and To Create a Homeland Iwate and Sanriku~

Many precious lives and property were taken by the magnitude 9.0 earthquake that shook eastern Japan and the horrific tsunami that followed. In order to overcome the pain and sadness of the natural disaster and return to a society where we can live and work safely, and under the determination that we must bring an end to tsunami that claim lives, all of Iwate starting with the coastal areas will establish plans using scientific and technical expertise that will act as the area's future blueprint, where it will overcome the Great East Japan Earthquake and Tsunami and make a robust recovery and reconstruction.

This outline describes the Basic Reconstruction Plan established by the prefecture in an easy-to-follow format. The plan includes the goal of the region, guiding principles, community planning ground design, and specific reconstruction efforts.

### Damage Status

Many precious lives and property were taken (Fig. 1) and many survivors have no choice but to live in shelters (Fig. 2) due to the Great East Japan Earthquake and Tsunami that struck the Sanriku-oki fault on March 11.

Fig. 1 Outline of the Earthquake and Tsunami

Subject	Great East Japan Earthquake	Miyagi-oki Fault Aftershock
Time of quake	March 11, 2011(Fri)14:46	April 7, 2011(Thu)23:32
Epicenter	Sanriku-oki Fault	Miyagi-oki Fault
Hypocenter	24km	66km
Depth	24km	66km
Scale	Moment Magnitude 9.0	Magnitude 7.1(prelim.)
Places of Highest Intensity	6(weak): Ofunato, Kamaishi, Takizawa, Yahaba, Hanamaki, Ichinoseki, Oshu, Fujisawa	6(weak): Ofunato, Kamaishi, Yahaba, Ichinoseki, Hiraizumi, Oshu
Highest Tsunami Waves	Miyako over 8.5 m (March 11 15:26) Kamaishi over 4.1 m (March 11 15:21) Ofunato over 8.0 m (March 11 15:18) Kuji Port 8.6 m (Estimate)	—

Source: Iwate Prefecture Disaster Countermeasures Headquarters

Fig. 2 Damage Status

※As of July 25, 2011

Subject	Damage Classification		Reference
	Damage	Damage	
Human Damages	Deaths	4,611	Some places without numbers
	Missing	2,081	
	Injured	186	
Total		6,878	
House Damages	Completely/partially destroyed	29,544 buildings	
	Total		¥608.7billion
Industry Damages	Agriculture	¥58.9billion	Does not include estimates of earthquake damages
	Forestry	¥25.0billion	
	Fishing/fisheries	¥358.7billion	
	Industrial (manufacturing)	¥89.0billion	
	Commerce (retail/whole)	¥44.5billion	
Total		¥608.7billion	
Public Works Damages	Rivers, coasts, and roads	¥172.3billion	
	City and park facilities	¥40.5billion	
	Ports and related facilities	¥44.5billion	
Total		¥257.3billion	

Source : Iwate Prefecture Disaster Countermeasures Headquarters

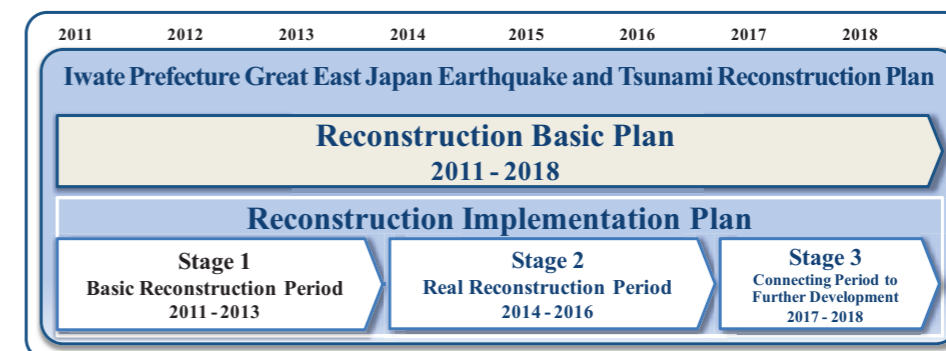
### Plan Construction and Period

Plan target : All of Iwate Prefecture

Plan Period : An 8 year period from 2011 to 2018

Plan Construction : Designed in the Reconstruction Basic Plan and Reconstruction Implementation Plan

<b>Reconstruction Basic Plan</b>	Makes clear the goal of the region, guiding principles, and specific reconstruction efforts
<b>Reconstruction Implementation Plan</b>	Makes clear the measures and projects for reconstruction and the progress schedule, and separates those measures into 3 different time periods



# Vision of Community Planning

## Basic Vision of Tsunami Countermeasures

To promote **multi-preventative community planning** and to **create and pass on a culture of disaster prevention**, so that no more lives will be lost.

### Tsunami Countermeasure Approaches

#### Coastal Protection Facilities

Coast levees, sea walls, off shore levees and breakwaters should be built to withstand tsunami for a hundred and some years.

#### Community Planning

Disaster-preventative unity planning coordinated with (1) creating a safe living environment through resident consensus, and (2) land-use planning with consideration for tsunami damage prevention.

#### Cultural Measures

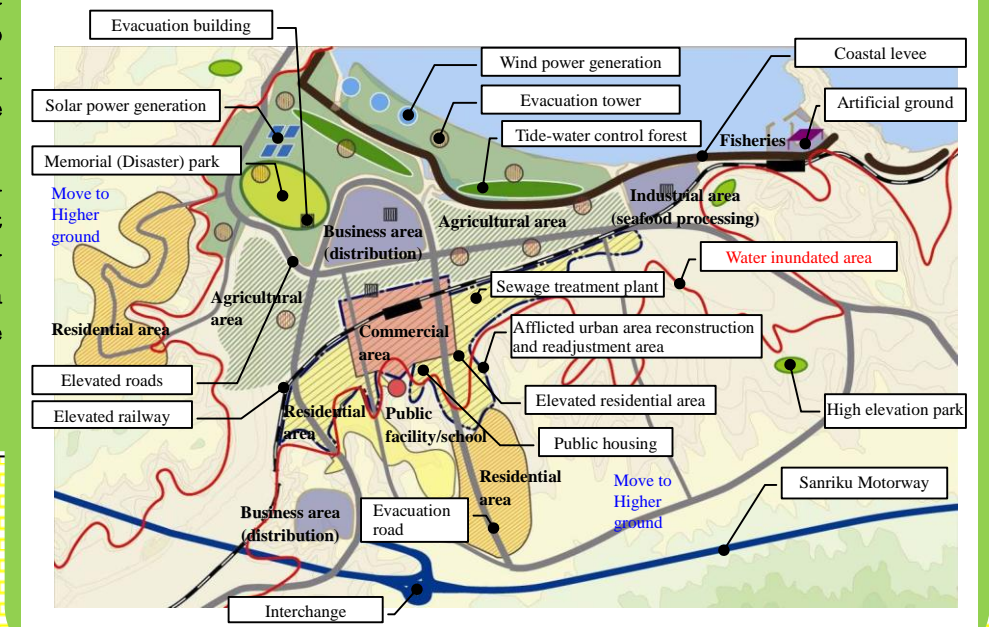
Establish an accessible and time-saving evacuation plan so that everyone may reach shelter easily and safely. Create a culture of disaster prevention by passing on the experiences and lessons of the disaster.

### Multi-Preventative Community Planning

Community Planning Ground Design includes a “community planning vision”, and examines how to effectively combine (1) tsunami damage prevention method classification and (2) tools for multi-preventative community planning.

In order to have the municipalities use this ground design for reference in their reconstruction plans, first we sort regions by the degree of damage and by land-usage. Then we demonstrate reconstruction patterns suitable for each and every degree of damage as community planning ground design models.

## Community Planning Ground Design Model (Example)



## Three Principles

Along with multi-preventative community planning, this principle plans a transportation network strong against natural disasters and ensures the safety of our residents so that no more lives will be lost to tsunami.

### Preventative Community Planning

Includes tsunami countermeasure approaches (coastal protection facilities, community planning, and cultural measures), reduces natural disaster damages to a minimum, and promotes preventative planning of a safe and secure cities and regions that protect lives and livelihoods in any situation. It also promotes new independent community planning by residents, including regional history, culture, traditions, and residents’ thoughts towards their hometowns.

### Transportation Network

Creates a trustworthy road network that ensures reliable emergency transportation and alternate functions during natural disasters. It also promotes the creation of a transportation network strong against natural disasters by strengthening the function of seaports, airports, and railroads that support relief work and personnel transportation.

## Ensuring Safety

This principle plans the rebuilding of regional residents’ lives through housing distribution and ensuring jobs. Moreover, it also plans the reconstruction of the community through reconstructing the medical, welfare, and nursing structures that protect lives and mental & bodily health, and the support of regional community activities.

<b>Living &amp; Employment</b>	A multi-purpose support system and consultation service will be set up for residential reconstruction and securement, along with distributing safe and high-quality housing and residential areas. Promote regional industry and generate stable employment along with planning the emergency preservation and creation of jobs.
<b>Healthcare &amp; Welfare</b>	Quickly restore function to affected medical institutions and social welfare facilities, implement finely tuned healthcare, mental health services, and caring for children who need guardianship. Also, reconstruct a long-term system that can distribute high-quality health, medical, and welfare services.
<b>Education &amp; Culture</b>	Promote an environment of learning through cooperating with schools, families, and the community to give mental care and support to children, and promote a prefecture-wide education program that incorporates experiences from the Great East Japan Earthquake and Tsunami. Also, in order to encourage a drive for living and deepen pride and love for the region, support the preservation and inheritance of cultural arts and traditional culture.
<b>Regional Community</b>	Create an environment that encourages regional community involvement in order for regional cohesion to become even stronger. Moreover, support measures that will invigorate community activities in the region in order for all residents to feel secure in their lives. Also, cooperate with regional residents and NPOs that act as the “new public”, and support reconstruction community planning that promotes leadership by residents in affected regions.
<b>Municipal Administrative Function</b>	Support the prompt restoration of administrative function to municipalities that have gaps in their services because of the disaster. Create an environment where municipalities and residents can devise new ideas for community planning.

## Rebuilding Lives

## Rebooting Industries

Along with producers hopefully and willfully carrying out production activities, this principle plans the rebooting of regional industry through constructing a production system, developing infrastructure, and financial and systematic support. Moreover, it plans the rejuvenation of the regional economy through the support of measures such as the creation and adding of value to unique regional products and services.

<b>Fishing and Agricultural Industries</b>	<p>«Fishing Industry» Reboot the community-based fishing industry by supporting the integrated, simultaneous creation of aquaculture industry and fisheries with fisheries cooperatives in the lead, and the creation of a distribution and processing structure with fishing area markets in the lead. Also, promote the restoration and creation of a fishing port/area/village environmental infrastructure and coastal protection facilities that include approaches towards regional disaster preventative measures, community planning, and rebooting the fishing industry.</p> <p>«Agricultural Industry» Realize a high-output, highly profitable agricultural industry that includes approaches towards the unique character of coastal areas and community planning by promoting the restoration and creation of an agricultural production infrastructure that supports horticulture creation &amp; agriculture, and coastal protection facilities. Also, reboot the regional timber processing system by supporting the restoration and creation of plywood factories and tide-water control forests.</p>
<b>Commerce and Industry</b>	Implement support for the promotion and re-opening of middle to small sized businesses that support the affected region’s economy, and put a quick stop to economic shrinking. Support the restoration of industry through the reconstruction of new shopping districts and industry that makes use of the special character of the region.
<b>Tourism</b>	Promptly restore and promote tourism facilities in the coastal areas that lost many of their tourism areas. Create attractive tourist spots and tourist related industries, and confirm Iwate’s status as a tourism prefecture through spreading the message to the world that Iwate will not succumb to this disaster and will fight on.

### Goal of the Plan

## To Protect Life, To Live Together with the Sea and Land, and To Create a Homeland Iwate and Sanriku

- Reconstruction through preventative planning of safe and secure cities and regions based on tsunami countermeasure approaches that use scientific and technical expertise, and community planning ground design
- Reconstruction through regional society planning where one’s “homeland” remains a place where people can live their lives energetically and vivaciously
- Reconstruction that is oriented closely on the survivors of the disaster, where industry and livelihoods are restored quickly and everyone can return to lives of human dignity once again
- Reconstruction that uses the region’s unique qualities like the various natural resources and latent potential of the Sanriku sea, and planning the restoration of the community while keeping in mind the region’s proactive suggestions
- An Open Reconstruction through various participants and where the bonds grow wider between person to person and region to region

## Sanriku Creation Project

The Sanriku Creation Project will be implemented as a leading project to realize the restoration and reconstruction of the Sanriku Coast. With a long-term vision that will represent the entire reconstruction, it aims towards the creation of a new Sanriku Coast that the world can be proud of.  
<Involving and passing on to science and technical fields, and the next generation after the disaster>