Steps for Revitalization in Fukushima «November 25,2013»

Three basic concepts of revitalization plan

OBuilding a safe, secure and sustainable society free from nuclear power.

ORevitalization that brings together everyone who loves and cares about Fukushima.

OA homeland we can all be proud of once again.

(Excerpt from Plan for Revitalization in Fukushima formulated in December, 2011)

Priority Projects

For depopulation and ageing society Easing of effects of depopulation and ageing Curbing of outflow of population outside the prefecture Measures for recovery of birth rate

Living with peace of mind: decontamination and health control, etc.

Environmental restoration

Development of facilities providing research functions including promotion of decontamination securing of food safety, disposal of waste and environmental restoration





Assistance for rebuilding livelihoods

Assistance for evacuees inside and outside the prefecture, measures for returning of evacuees to their homes. rebuilding of livelihoods after returning, development of hubs for livelihoods of long-term evacuees, and assistance for long-term evacuees



Protecting the physical and mental health of citizens

Maintenance and promotion of citizens' health, reconstruction of regional medical services, development of systems providing cutting edge medical service and mental care for the disaster affected residents



children and young people, who are our future

Development of the best environment in Japan for people to give birth and raise children, human resources who remain viable, and workforces who are responsible for the future industry



Work in your hometown: promotion of industries and employment creation, etc

Primary industry revival

Measures to provide safety and peace of mind, recovery of agricultural, forestry and fisheries industries and response for reorganization of designated areas



SMEs revitalization

Vitalization of SMEs in the prefecture, promotion of business investment, creation of new businesses that lead the new era, and response for reorganization of designated areas



Promotion of renewable energy

Expansion in the adoption of renewable energy, cooperation with R&D hubs, attraction of relevant industries, assistance for entry and transactions of industries in the prefecture, promotion of local production and local consumption of renewable energy



Medical industry cluster

Clustering of medical and welfare devices and development of drug discovery hubs



Rebuild towns, connect people: building bonds and revitalizing towns, etc.

Building bonds in Fukushima

Building bonds between evacuees inside and outside the prefecture and our supporters release of measures for revitalization and information, and maintenance of bonds with evacuees





Tourism exchange in Fukushima

Promotion of tourism and various exchanges, such as tourism revitalization campaign and recovery of education tour





Revitalizing towns, such as tsunami-affected area

Improvement of comprehensive anti-disaster measures, reviewing of regional plans for disaster prevention, raising of citizens and regions with high anti-disaster awareness, reorganization of land usage, planning and implementation of town-building for revitalization

Prefectural network infrastructure

Investment in early restoration of Hama-dori's (Coastal Region) "axis" road and life-supporting roads; building of a prefectural road network and infrastructure to support revitalization of logistics and tourism, early restoration of JR Joban line and Tadami line, building of extended cooperation and communication systems

Disaster status in Fukushima Prefecture



"The Great East Japan Earthquake in 2011" was centered offshore of Sanriku and occurred at 2:46 p.m. March 11, 2011 and marked M9.0. It was unprecedented in seismic scale marking the 4th largest earthquake in the world since 1900. This massive earthquake of a maximum seismic intensity of 7 triggered a large tsunami that rushed into a large area inshore.

Disaster status after the earthquake and tsunami

<Disaster status> as of November 12, 2013

◆Death toll: 3,397 persons

(disaster-related death toll: 1,577 persons)

Missing: 5 persons



Yotsukura Bay being struck by tsunami

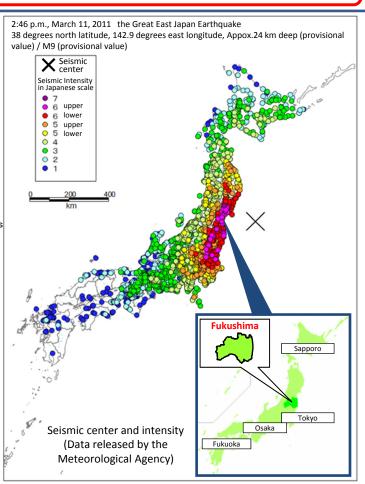
Police officers searching missing persons with heavy machines (Soma City)

<Cost of damage> as of March 23, 2012

- ◆ Reported cost of damage for public works facilities: About 316.2 billion yen
- ◆ Reported amount of damage on agricultural, forestry and fishery facilities: About 245.3 billion yen
- ◆ Reported amount of damage on educational facilities: About 37.9 billion yen
- ◆Total of reported amount of damage on public facilities: About 599.4 billion yen

**Areas under jurisdiction of the prefectural government: For the 30km zone from the Fukushima Daiichi NPPS, approximate amount of damage is estimated based on air photos.

※Areas under jurisdiction of municipalities: Excluding approximate amount of damage in parts of Minami Soma City and 8 municipalities in Futaba. [Source] Land Rehabilitation & Development Group, Fukushima Restoration & Revitalization Headquarters for Great East Japan Earthquake



Status of housing damage by region

<Damage status> as of November 12, 2013 ◆Totally damaged: 21,204 housing facility ◆Half damaged: 73,150 housing facility Half damaged damaged 36,374 36.614 houses houses Totally Totally damaged damaged 15,970 24 houses houses Half damag **Central Region Coastal Region** Aizu Region



Status of housing damage (Ukedo District, Namie Town)

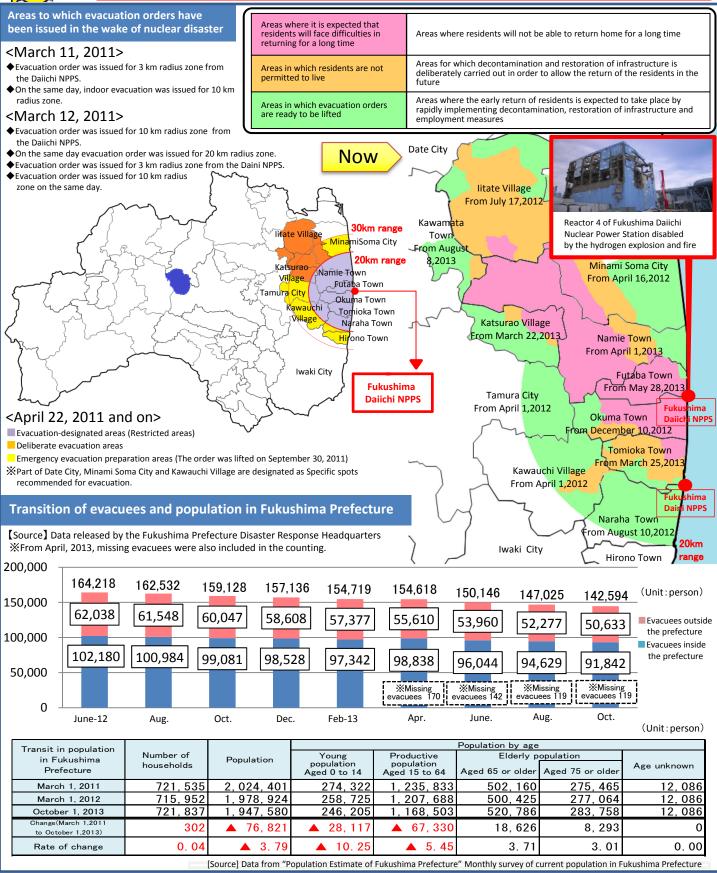


Status of housing damage (Fushiogami, Fukushima City)

Situation of evacuation



The number of evacuees as of October 2013 reduced to 142,594, which is below 150,000. Still, there are about 92,000 evacuees within the prefecture and 51,000 evacuees outside the prefecture, with many citizens still forced to evacuate from their homes.



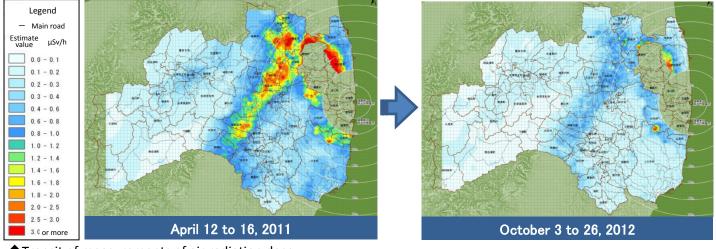
Environmental restoration



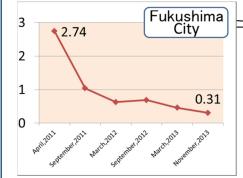
Air radiation doses in the prefecture have sharply decreased compared with April, 2011. Meanwhile, the rate of completion in decontamination is sluggish even though the rate of orders is rising. We are making full efforts for further implementation.

Transition of air radiation dose in Fukushima Prefecture

◆ Radiation dose level map covering the whole area of the prefecture based on the monitoring mesh survey of environmental radiation by Fukushima Prefecture.



Transit of measurements of air radiation dose



	_ Fukushima City	Aizu Wakamatsu City	Iwaki City	
Normal condition before the disaster	0.04	0.04~0.05	0.05~0.06	
April,2011	2.74	0.24	0.66	
September,2011	1.04	0.13	0.18	
March,2012	0.63	0.1	0.17	
September,2012	0.69	0.1	0.1	
March,2013	0.46	0.07	0.09	
November,2013	0.31	0.07	0.08	

≪Reference≫

Unit: µSv/h

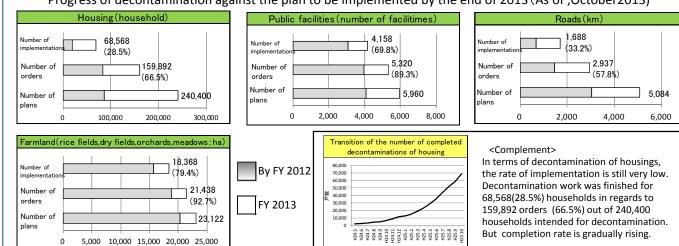
- •Seoul, South Korea 0.14μSv/h
- •Hong Kong, China 0.23μSv/h
- Munich, Germany 0.56µSv/h
- •New York, America 0.11µSv/h

[Source] Fukushima Prefecture Disaster Response Headquarters (provisional value)

<Map of radiation measurements in the world > (Shown on home page of the prefectural government, releasing results of measurements in major cities in the world)

Progress of decontamination work in designated municipalities

Progress of decontamination against the plan to be implemented by the end of 2013 (As of ,October2013)



Health of citizens



We conduct the "Fukushima Health Management Survey" to carefully observe the mental and physical health of citizens and help maintain and promote citizens' health over the future. We estimate the exposure dose of citizens and conduct thyroid gland inspections for 370,000 citizens who were aged from 0 to 18 at the time of the disaster.

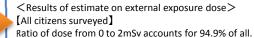
Fukushima Health Management Survey

Content of survey	Subjects
Basic survey (estimate of exposure dose)	·Citizens residing in the prefecture as of March 11, 2011 (2,056,994 persons)
Inspection of thyroid gland	·Citizens below 18 years old at the time of the disaster (About 370,000 persons)
Health examination	 Citizens of evacuation areas, etc. (About 210,000 persons) Citizens outside evacuation areas (Conducted for citizens who had no opportunity to take medical examinations)
Survey on mental health and life habits	· Citizens in evacuation areas, etc. About 210,000 persons
Survey on pregnant women	· Pregnant women



Basic survey

Self-administered questionnaires: **23.6%** (as of September.30, 2013) (484,864 respondents against 2,056,994 subjects)



Estimate of external exposure dose for the 4 months from the nuclear accident until July 11



Thyroid gland inspections

<Primary inspections > (2011 to 2013)

Inspection to confirm the present situation of children who were below 18 years old at the time of the disaster

238,785 examinees(as of September. 30, 2013)

<Full-scale inspection > (from 2014)
The inspection is conducted every two years
until he/she becomes 20 years old, and every
five years thereafter

1,558



(As August 23,2013)

0.7%

0.001%

Number of examinees whose inspection results were confirmed				225,537 examinees	
	X"The number of examinees whose inspection results were confirmed"refers to the total of examinees who took medical checks at institutions inside and outside the prefecture and whose results were confirmed.				
		Number of examinees	Proportion		
Judgment	(A1)	No node or cyst was observed	121,525	53.9%	99.3%
Α	(A2)	Node smaller 5.0 mm or cyst smaller than 20 mm was observed	102,453	45.4%	99.3%

required to take a secondaryinspection

Judgments A1 and A2 will undergo follow-ups until the next inspection(after 2014)

Node larger than 5.1 mm or cyst larger than 20.1 mm was observed

Judging from the conditions of thyroid gland, the examinee is immediately

 ${}^{\scriptscriptstyle \bullet} A$ secondary inspection is conducted judgments B and C

<Reference>Results of survey for findings on thyroid glands over three prefectures other than Fukushima Prefecture

Regions surveyed >
Hirosaki City, Aomori Prefecture,
Kofu City, Yamanashi Prefecture,
Nagasaki City, Nagasaki
Prefecture

<Persons surveyed>
Aged 3 to 18: 4,365 examinees
<Results of survey>

[A1]1,853examinees(42.5%)
[A2]2,468examinees(56.5%)

(B) 44examinees(1.0%) (C) 0examinees(0.0%)



Judgment B

Judgment C

Internal exposure inspections using whole body counters

(Source**)** Data released to press by the Ministry of the Environment

【Results of inspection】	[Results of inspection] Committed effective dose (internal exposure dose radiated within the body throughout one's lifetime)				
Below 1mSv	1mSv 2mSv 3mSv				
156,832 examinees	14 examinees	10 examinees	2 examinees		

*The inspection puts priority on children below 18 years old and pregnant women.

Cumulative number of examinees (June 2011 to September 2013) 156,858 examinees

No charge for medical fee for citizens aged 18 or younger

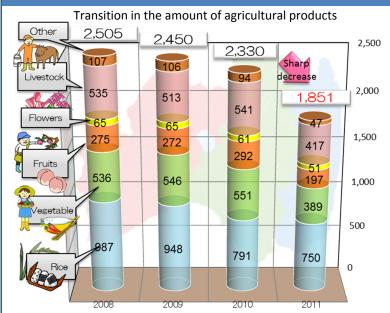
Medical fees for citizens aged 18 or younger have become free of charge since October, 2012 after extending the eligible age for medical subsidy. It is a project to support child-raising by creating an environment that protects children's health where one can give birth and raise children with peace of mind.

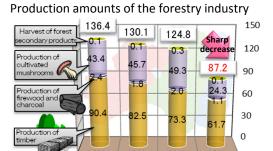
OSituation of the agricultural, forestry and fishery industries

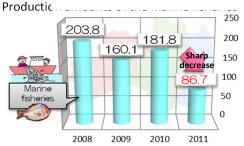


Production volume of the agricultural, forestry and fishery industries was declined when compared to conditions before the disaster. In order to help reconstruct disaster-affected citizens' livelihoods, we will make the utmost efforts to proceed with measures for the rehabilitation of the agricultural, forestry and fishery industries as well as promote measures for the dissemination of their attractions as well as the safety and security of agricultural, forestry and fishery products.

Transit in the amount of agricultural products produced in the prefecture (unit: 100 mil.)



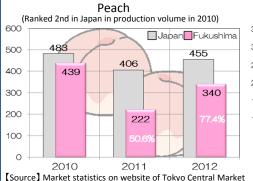


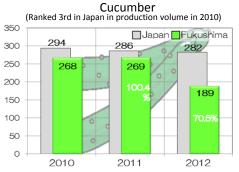


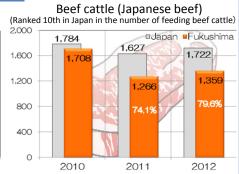
[Source] Prepared based on Statistics of Agricultural Income Produced, Forestry Income Produced and Fisheries Income Produced by the Ministry of Agriculture, Forestry and Fisheries

Transition of price for agricultural products produced in Fukushima Prefecture

(OO% shown in the graph refers to value compared to 2010)







Public relations for products that the primary industries produced in the prefecture

We are conducting PR activities to promote the attractions, safety and security of primary industries' products in order to eliminate harmful rumors.



We release information about attractions of Fukushima's rich nature, agricultural, forestry and fisheries products and also safety management in Fukushima under the catch phrase "Delicious foods are ready for you in Fukushima!" through various media and seminars.

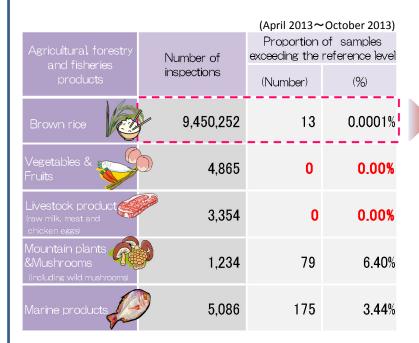
Measures for food safety and security

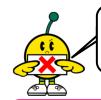


The Fukushima Prefectural Government has enhanced inspection system to confirm safety of foods in order to prevent distribution of foods exceeding the reference level for radiological substances.

We have equipped simplified analyzers for radiological substances to analyze vegetables self-consumed in all municipalities in the prefecture as well as focused on risk communication related to radioactivity and food products.

Monitoring situation of agricultural, forestry and fisheries products in the prefecture





We do not allow distribution of foods exceeding the reference level!

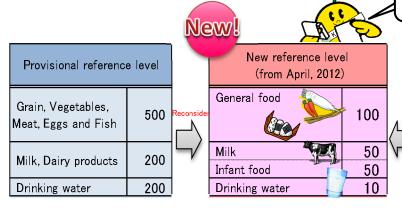
Inspection on all rice in all rice bags

Under the supervision of the prefectural government, the inspection is conducted on all rice produced in the prefecture.



Any rice bag that passed the inspection with brown rice has a seal on it for confirmation.

[Reference] New reference level for radiocesium contained in food



We are managing safety of food with very strict reference level in comparison with the world standard.

(Unit:Bq/kg)

l	International index				
	US	E U	CAC Codex Alimentarius Commission		
>	All foods	1,250	1,000		
	1,200	1,000			
l		400	1,000		
ļ		1,000			

XCodex Alimentarius Commission:

CAC is an intergovernmental organization which was established by FAO and WHO in 1963 that aims to protect consumers' health and secure fair trading of food through formulating international food standards. Japan has been a member of the CAC since 1966.

Recovery of the tourism industry



Actually, the number of tourists has not recovered to the same levels as before the disaster, but rehabilitation of tourism industry steadily continues from the popular historical drama, "Yae's Cherry Blossoms". We will continue to boost inbound tourists through methods such as the Destination Campaign which will be held jointly with JR in the spring of 2015.

Transition of the number of guests in facilities focusing on tourists' accommodation (guest night) ◆Comparison of guest nights on year-to-year basis (After March, 2012, compared to the same month in 2010) 10.0% 1.4% Fukushima Japan 0.0% -10.0% Tourism toll road was opened for free (from July, 2011) -20.0% -26.5% ıkushima Yae-tai started -30.0% stage performances. (August, 2012) -40.0% -50.0% Aquamarine Fukushima resumed (July, 2011) -60.0% -70.0%

* "Facilities focusing on tourists' accommodation" refer to facilities that reached over 50% of all guests were tourists sightseeing.

[Source] Japan Tourism Agency The Survey of Tourist Accommodation

lune

Mar-12

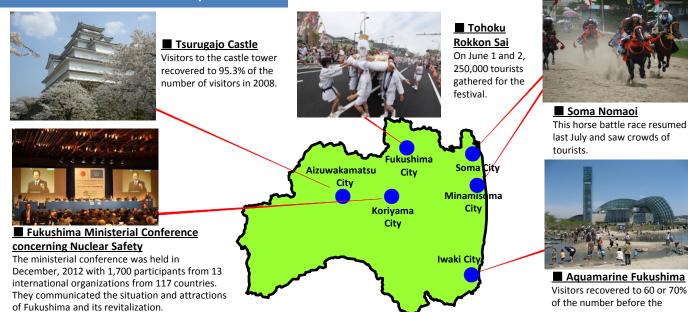
Dec

"Yae" effect accelerated recovery of tourism

lun

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Feb-11



Beautest for lifting of travel have to Fulrishing Businstine

disaster.

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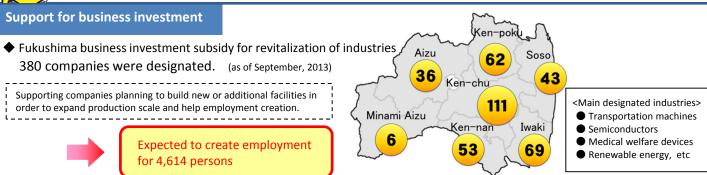
With cooperation by 6 JR groups and nationwide travel agencies, this largest tourism campaign of the largest scale in Japan will be intensively held to facilitate PR and sales throughout Japan.

In March, 2012, Taiwan lifted a travel ban for the whole area of the prefecture, in July South Korea and Hong Kong eased travel ban, but China is still issuing a travel ban for the prefecture.

Promotion of industries and employment creation



Constructions of additional industrial facilities are sharply increasing in the prefecture. We will further walk towards recovery of the industries along with employment creation through support such as investment subsidy.



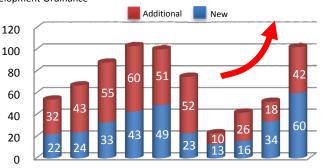
< Sharp increase of new and additional construction of facilities in the prefecture >
Situation of new and additional construction for plants (sites over 1,000 m² in area) in Fukushima Prefecture

**Number of reported establishments based upon the Fukushima Industrial Development Ordinance

(Unit:Cases)

			(Offit.Cases)
	Jan. to Dec. ,2011	Jan. to Dec. ,2012	Change on year-to-year basis
Additional	18	42	+24
New	34	60	+26
Total	52	102	+50

[Source] Researched by the Commerce, Industry and Labour Department, Fukushima Prefectural Government



2003 2004 2005 2006 2007 2008 2009 2010 2011 2012

< Major case examples of new and additional construction of facilities >



Development of hubs for research & development and industrial creation



For the revitalization and recovery of Fukushima Prefecture, we are in need of advanced measures that just surpass restoring the prefecture to the state it was before the disaster.

Industry and renewable energy

①Aizu University Revitalization Support Center



This center will create a new ICT industry by using advanced ICT research, as well as gather leading companies who work towards regional industrial promotion by utilizing ICT, and also help raise a new workforce.

To be in service in 2015

Place

Aizu Wakamatsu City (Aizu University)

②Fukushima Renewable Energy Research& Development Center

The National Institute of Advanced

Science and Technology (AIST) will

To be in service in 2014

Place

establish a research and development center for renewable energy.

Koriyama City (Koriyama West No.2 Industrial Park)

③Fukushima Development and Safety Assessment of Medical Devices Center (provisional)

The center will be established to provide overall support for the development and commercialization of medical devices, such as safety assessment using large animals and implementation of the training of medical personnel for machine operation.

Aiming to start within 2016

Place |

Koriyama City (Site of the former Agricultural Test Center)

Demonstrative and research project of offshore floating wind farm technology



The safety of a offshore floating wind farm technology system, reliability, and economical efficiency are verified. We aim to form hubs for R&D and test activities and build a wind power industry cluster.

Started to provide electric power in November, 2013

Place Offshore o

Offshore of Hirono Town,Naraha Town

Environment and medical services

⑤Fukushima Prefectural Center for Environmental Creation (provisional) Miharu



We are developing a research center to help quickly restore the radio-contaminated environment and create an environment where citizens can live with peace of mind over the future. The facility in Miharu Town performs functions including monitoring, R&D, information collection and transmission, education, training and exchange.

To be in service in 2015 to 2016

Place

Miharu Town (Tamura West Industrial Park)

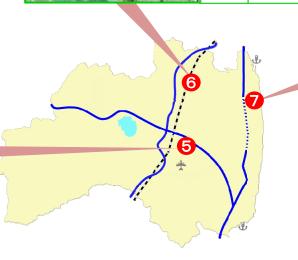
® Radiation Medical Science Center

We are developing a cutting edge radiology R&D center in order to protect the health of citizens over the future.

Aiming to start partially providing services at the end of 2015.

Place

Fukushima City (Fukushima Medical University)



⑦Fukushima Prefectural Center for Environmental Creation (provisional) < Minami Soma >

We are developing a research center to quickly restore the radio-contaminated environment and create an environment where citizens can live with peace of mind over the future. The facility in Minami Soma City performs functions including monitoring and security surveillance.

To be in service in 2015

Place

Minami Soma City (Kaibama New Sports Square)

Situation of restoration and development of social infrastructure



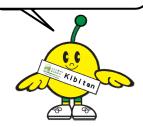
efforts.

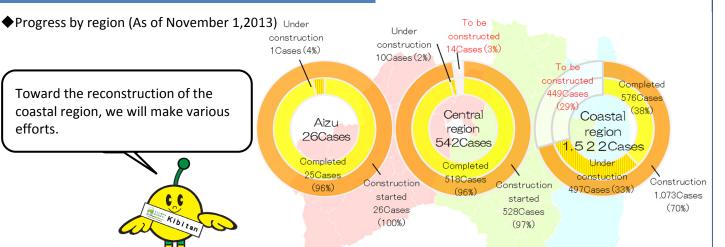
We will make efforts to secure safety and security by completing restoration construction as early as possible mainly in tsunami-affected areas. (XPlease see detailed information in the back index for your reference.)

Restoration of public works facilities from disaster damage

Toward the reconstruction of the

coastal region, we will make various

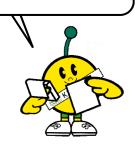




◆ Progress by construction site (As of November 1,2013)

Number of s Construction site of public works facilities assesses		Number of sites for construction		Number of completion	
for restoration from the disaster	intended for restoration work)		Rate of construction (%)		Rate of completion (%)
Total	2,090	1,627	78%	1,119	54%
River and sand erosion control	277	210	76%	138	50%
Coast	152	76	50%	21	14% ••••••
Road snd bridge	752	650	86%	605	80%
Port and harbors	335	276	82%	191	57%
Fishing port	477	318	67%	71	15% •••••••
Sewage	3	3	100.0%	3	100.0%
Park and urban facility	5	5	100.0%	5	100.0%
Public housing	89	89	100.0%	85	96%

Restoration construction took place on 80% of affected public works facilities, and half of them have been completed.



Situation of restoration for facilities of agricultural, forestry and fishery industries

Agricultural and other facilities	Progress rate	Situation of restoration and revitalization/Damage status	
Farmland	24.7%	Area of farmland available for resumption of agricultural management	1,350ha
(Ratio of area available for resumption of agricultural management)	(October,2013)	Area of farmland affected by tsunami following the Great East Japan Earthquake (Including old Restricted Area)	5,460ha
Agricultural management bodies	58.7%	Management body that resumed agricultural management	10,100Management body
(Resumption status of management) Xincluding partially resumed bodies	(April,2013)	Management body affected by the Great East Japan Earthquake	17,200Management body
Fishery management bodies (Resumption	4.6%	Management bodies the resumed fishery	30Management body
status of management)	(April,2013)	Management body affected by the Great East Japan Earthquake	740Management body
Restoration construction of farmland	81.2%	District for which construction get started	2,287District
and agricultural facilities	(October,2013)	District for which assessment is completed	2,790District

Restoration status of medical, welfare and educational facilities

	Item Pro		Situation of restoration & revitalization /Damage status	Situation in restricted area
	Hospitals(resumption status of suspended hospitals)	0.0%	Resumed hospital:0 facilities Suspen hospital:7 facilities	•3 hospitals in the areas where it is expected that residents face difficulties in returning for a long time •3 hospitals in the areas in the which evacuation orders are ready to be lifted •1 hospital in areas where residents are not permitted to live
Medical/ Welfare facilities	Social welfare facilities (elderly facilities and care facilities)	68.6%	Resumed facilites:24(including 9 facilities that resumed in temporary facilities)/ Facilities suspended after the disaster:35	Facilities from municipalities located in the evacuation designated areas that resumed operation in other areas •4 facilities in the area where it is expected that residents will face difficulties in returning for a long time •3 facilities in the area to which evacuation orders are ready to be lifted •2 facilities in which people are not permitted to live
	Child welfare facilities (resumption status of authorized nursery school)	56.0%	Resumed facilites:14(including 5 facilities that resumed in other facilities)/ Facilities suspended after the disaster:25	Facilities in municipalities located in the evacuation designated areas and resumed operation in other areas 1 facilities in the areas where it is expectd that residents will face difficulties in returning for a long time 1 facilities in the area to which evacuation orders are ready to be lifted 2 facilities in which people are not permitted to live
Schools	Restoration status of prefectual schools	93.8%	Completed schools:909 cases / Disaster-affected facilities:969 cases(94 schools) (as of November 18,2013)	8 prefectural schools that resumed operation as satellite schools

Restoration status of social infrastructure





Disaster situation at Shirakawahatori road(top) before and after restoration(right)





Disaster situation at Soma port(top) before and after restoration(right)





Disaster situation at Iwakiishikawa saibachi road(top) before and after restoration(right)







The Fukushima Declaration

We have received immeasurable support from people around the nation and the world.

This heartfelt support has greatly helped, inspired, and encouraged the people of Fukushima.

I would like to express my sincere appreciation once again to all our friends.

Thanks to this support and the efforts of the people of Fukushima, we are finally starting to see the first signs of reconstruction in our prefecture too.

I want to see all of us work together and raise these small sprouts into strong plants with our own hands. Once these sprouts have grown into large trees, I would like to see children gather under them with smiles of delight on their faces.

That is the kind of vibrant Fukushima I would like to create.

- 1. We will create once again a beautiful Fukushima.
- 2. We will build a dynamic and vibrant Fukushima.
- 3. We will show the world and pass down to future generations Fukushima's reconstruction process.



Concept contained in the slogan "Future From Fukushima"

Let each one of us start to step forward toward the revitalization!

And, let new movements start from Fukushima!

Fukushima is fully determined to recover from the great disaster and the nuclear disaster no matter how hard it is.

The process of revitalizing Fukushima will show that it is possible to create a brand new society.

We want to make new waves from Fukushima.

The slogan, "Future From Fukushima" will carry our strong will toward a brighter and more promising future.



Symbol character for revitalization in Fukushima "Future From Fukushima Kibitan" Contact: Revitalization & Comprehensive Planning Division
Planning & Coordination Department, Fukushima Prefectural Government
2-16 Sugitsuma-cho, Fukushima City Tel: -24- 521-1111 (pilot number)
For further details, please see the official website.

Fukushima Prefecture Steps for Revitalization Search



FUKUSHIMA