

# Steps for Revitalization in Fukushima

◇ August 25th, 2020 edition ◇



The Great East Japan Earthquake and Nuclear Disaster Memorial Museum  
Opening target on 2020.9.20 (Futaba Town)



The Great East Japan Earthquake occurred on March 11, 2011 at 14:46. Centered off the Sanriku coast in North Eastern Japan, its magnitude was a record high of M9.0, measuring a 7 on the JMA seismic intensity scale. Heavy shaking resulted in a large tsunami that struck a wide area along the coast.

## Disaster status after the earthquake and tsunami

### ◆ Disaster status in Fukushima Prefecture [As of 2019.12.5]

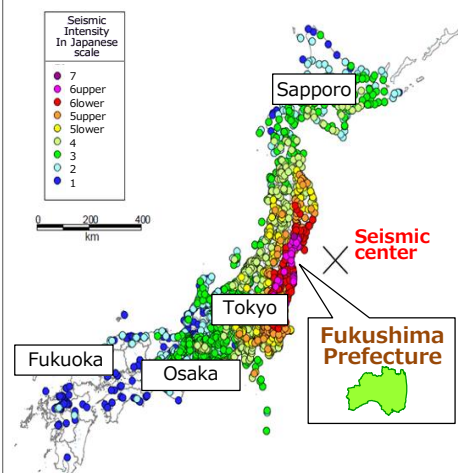
- Deaths: 4,138  
(This number includes 2,308 disaster-related deaths(\*))
- Missing: 1  
(\*Disaster-related deaths are not caused directly by the disaster, but occur afterwards due to indirect causes including stress and decline in health from living as evacuees.

### ◆ Cost of damage in Fukushima Prefecture [As of 2012.3.23]

- Reported cost of damage for public works facilities: About JPY 316.2 billion
- Reported amount of damage on agricultural, forestry and fishery facilities: About JPY 245.3 billion
- Reported amount of damage on educational facilities: About JPY 37.9 billion
- Total of reported amount of damage on public facilities: About JPY 629.4 billion

※Areas under the jurisdiction of the prefectural government: for the 30km radius surrounding the Fukushima Daiichi Nuclear Power Station (F1NPS), damage costs were estimated based on aerial photographs.  
 ※Areas under the jurisdiction of municipalities: Excludes approximate cost of damage for a part of Minamisoma City and 8 municipalities located in the Futaba area.  
 ※Data : Land Rehabilitation & Development Group, Fukushima Restoration & Revitalization Headquarters for Great East Japan Earthquake

Data: Japan Meteorological Agency (JMA)



**2:46 p.m. March 11, 2011: the Great East Japan Earthquake**  
 38.1 degrees north latitude, 142.5 degrees east longitude,  
 Appox.24 km deep (provisional value)  
 /M9 (provisional value)



Iwaki City: Levee



Soma City: Agricultural Facilities



Shirakawa City: Public Facilities

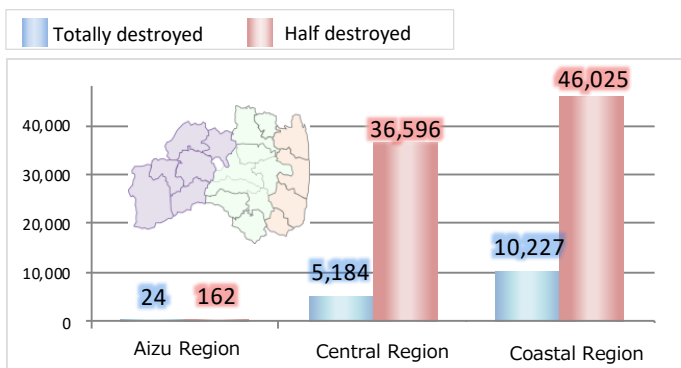


Kagamiishi Town: Educational Facilities

## Status of housing damage by region

### ◆ Damage status [As of 2020.7.6]

- Totally destroyed: 15,435 houses
- Half destroyed: 82,783 houses



Extensive damage caused by Tsunami (Iwaki City)



Status of housing damage (Ukedo district, Namie Town)

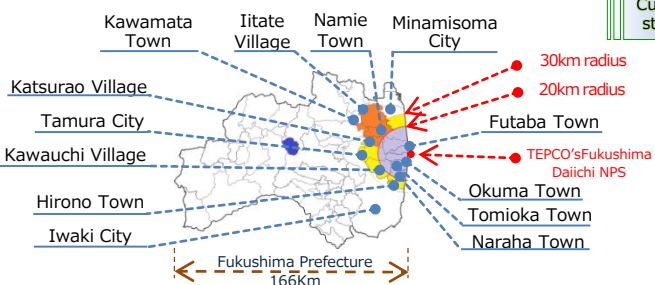


The number of evacuees peaked in May 2012 at 164,865 and has since decreased, but as of Jul 2020 roughly 37 thousand people are still under evacuation. Most of the evacuation orders issued to the evacuation-designated zones (excluding the Difficult-to-Return zones) have been lifted. Additionally, the Difficult-to-Return zones have been recognized in the Plans for Reconstruction and Revitalization for Special Zones. Accordingly, reconstruction and revitalization in the evacuation-designated zones are already showing steady progress with remediation and construction underway.

## Areas to which evacuation orders have been issued in the wake of nuclear power station (NPS) accident

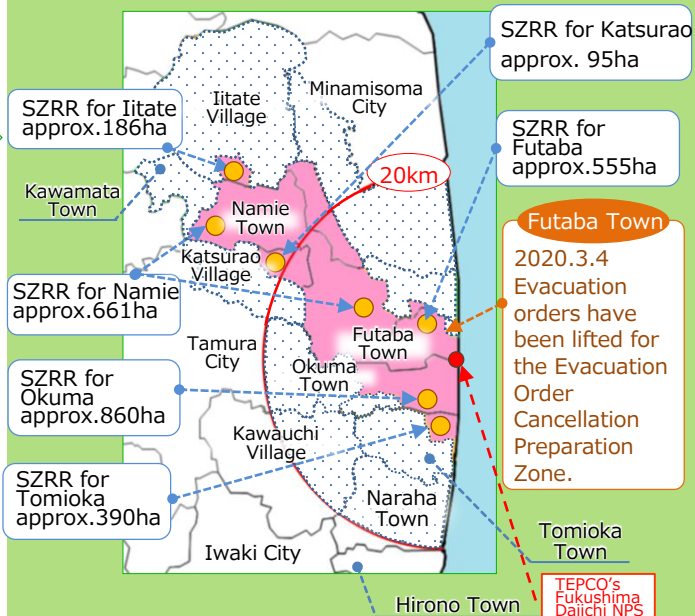
### ◆ 2011.4.22

- Evacuation-designated areas (Restricted areas)
- Deliberate evacuation areas
- Emergency evacuation preparation areas  
(The order was lifted on September 30, 2011)
- ※Part of Date City, Minamisoma City and Kawauchi Village are designated as specific spots recommended for evacuation.



### Evacuation-Designated Zones · Special Zones for Reconstruction and Revitalization (SZRR)

<Area>



### Approved plans for the Reconstruction and Revitalization of the Special Zone

■ Following the revision of the Act for Special Measures for the Reconstruction and Revitalization of Fukushima (May, 2017), the national government was able to designate special zones for reconstruction and revitalization (SZRR).

Plans by the following municipalities were recognized by the national government in the Plans for Reconstruction and Revitalization for Special Zones which stipulated SZRR.

- Futaba Town (Sep 2017), Okuma Town (Nov 2017)
- Namie Town (Dec 2017), Tomioka Town (Mar 2018)
- Iitate Village (Apr 2018), Katsurao Village (May 2018)

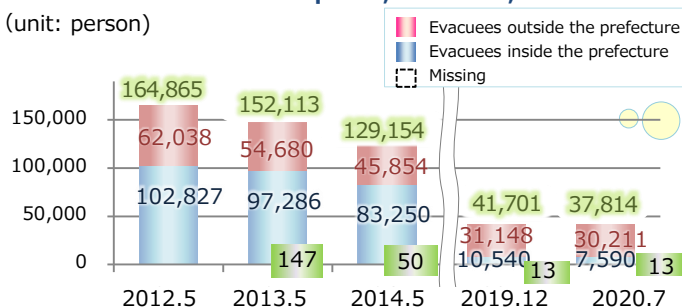
The revised act is to concentrate on carrying out decontamination and infrastructure development of the designated zones in order to create an environment which people can return to.

- Difficult-to-return zone
  - Annual integrated doses are over 50mSv.
  - Entry is prohibited with some exceptions.
  - Lodging is prohibited.
- Areas where evacuation orders have been lifted.
- Special Zones for Reconstruction and Revitalization

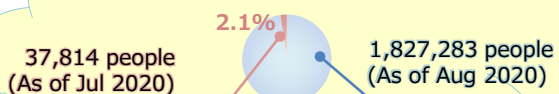
### ◆ Transition of evacuees:

#### Earthquake, Tsunami, NPS accident

(unit: person)



### Numbers of evacuees v.s. prefecture's entire population





The prefectural government is working to create an environment where evacuees can return home with peace of mind by establishing medical and caregiving services, as well as, housing and shopping facilities.

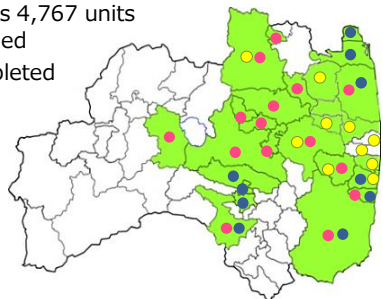
## Reconstruction of housing environment

### Construction of Revitalization Public Housing, etc.

The prefectural government is continuing to build Revitalization Public Housing in order to provide evacuees and those affected by the disaster with housing stability. In the wake of the nuclear power station accident, the prefectural government is taking the initiative for this project, and is planning to construct a total of 4,890 housing units.

### 【 Progress of business investment by municipality 】

- For nuclear disaster evacuees 4,767 units completed/4,890 units planned
- For returnees 564units completed /688 units completed
- For earthquake and tsunami affected people All 2,807 units completed



[As of 2020.6.30]

### ◆ Thorough support for evacuees

#### ■ Counselors

177 life support counsellors have been assigned to social welfare councils in 22 municipalities throughout the prefecture (as of 2019.6.1)

In addition to taking care of elderly and preventing isolation, they are also actively involved in working to help with relieving residents' health worries.



#### ■ Community Communications Coordinator

The prefectural government allocates Community Communications Coordinators to areas with revitalization public housing in order to build and support those communities. The Community Communications Coordinators support exchange activities between tenants of revitalization public housing and local residents by planning and carrying out exchange activities while establishing neighborhood associations and creating opportunities for community dialogue.

#### ■ Support base for elderly people

Since many of tenants in the temporary housing units are elderly, the prefectural government established a Support Base for Elderly People out of concern to prevent their isolation and support them by providing opportunities for them to consult with counselors about personal problems in daily life, communicate with others and take health care classes.



### Futaba Medical Center-affiliated Hospital was opened in April, 2018.

Futaba Medical Center-affiliated hospital operates as a secondary emergency medical facility in Futaba district accepting patients 24/7, 365 days a year (including on public holidays).

It also provides medical services required in communities including home-visit caregiving in order to support an environment where residents and people engaged in revitalization-related projects can live and work with peace of mind, from the aspect of medical services. In October, 2018, a multi-purpose medical helicopter started operation.

The operation allows us to transport patients between a medical institution in the coastal region and Fukushima Medical University which is capable of providing highly expertized treatment.



Futaba Medical Center-affiliated hospital, located in Tomioka Town Opens on April 23, 2018 A 24/7/365 emergency medical services provided

### Police activities to protect the safety of affected people

After the disaster, Fukushima Prefecture has received support from many police officers around Japan.

The police nicknamed "Ultra Police Force" have continued efforts to protect evacuees and ensure their safety, including patrols of the disaster affected areas, providing information for residents in the temporary housing units and disaster public housing, prevention of crimes in collaboration with the national government, municipalities and volunteers and measures against traffic accidents. With the partial lifting of evacuation orders in Okuma Town, a temporary Okuma police substation was opened and free transit along Route 35 was resumed to ensure development of the revitalization hub which is carried out in a safe and secure manner. The prefectural government is increasing security in the area including patrols to prevent crimes and accidents.



■ In order to steadily cope with rapid progress of ongoing revitalization efforts and changing circumstances surrounding the affected areas, the prefectural government continues to work closely with municipalities for the safety and security of its residents.

A ceremony held on dispatching patrol units following the opening of free transit along Route 35

## Development of shopping facilities

Miyakoji District, Tamura City



Domo store in Furumichi  
Apr. 2014 (Opened)

Hirono Town



Hirono Terrace (shopping mall)  
Mar. 2016 (Opened)

Kawamata Town



YO-TASHI  
Mar. 2016 (Opened)

Namie Town



Machi Nami Marche  
Oct. 2016 (Opened)

Tomioka Town



Sakura Mall Tomioka  
Mar. 2017 (Opened)

Kawauchi Village



Tonya no Sato  
Jul. 2017 (Opened)

Katsurao Village



Yamazaki Y-Shop Yamasa  
Jul. 2017 (Opened)

Iidate Village



Madei-Hall at the roadside rest house of Iidate village  
Aug. 2017 (Opened)

Naraha Town



KOKONARA Shopping Mall  
Aug. 2017 (Opened)

Odaka District, Minamisoma City



Odaka Store (supermarket)  
Jun. 2018 (Opened)

Okuma Town

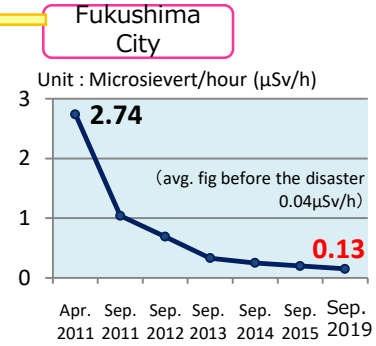
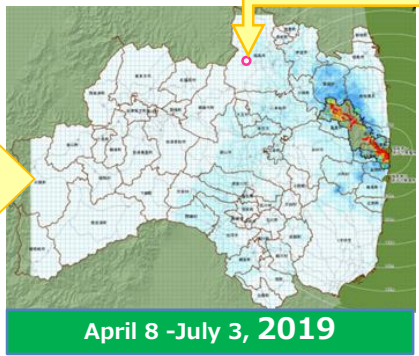
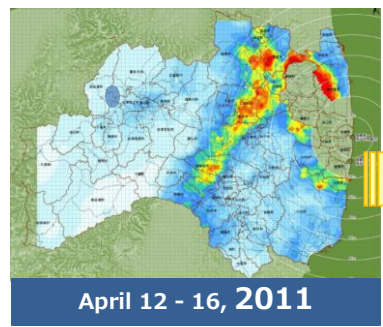
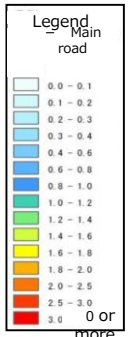


Yamazaki Y-Shop  
Jun. 2019 (Opened)

Air radiation levels in the prefecture have significantly decreased compared to April, 2011. Decontamination of prefectural land has been completed in all areas except for the Difficult-to-return zone.

## Transition of air radiation dose in Fukushima Prefecture

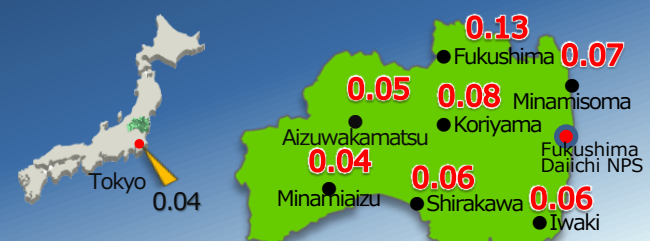
◆ Radiation dose level map covering the whole area of the prefecture based on the monitoring mesh survey of environmental radiation by Fukushima Prefecture.



Data: Fukushima Prefecture Disaster Prevention Headquarters (provisional value)

## ◆ Transition of measurements(2)

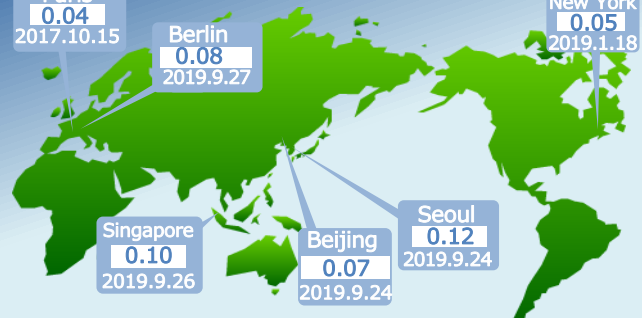
[Unit: μSv/h]



※Figures shown on Fukushima map are as of 2019.11.15 <http://fukushima-radioactivity.jp/>

## Comparison to major cities

[Unit: μSv/h]



Data: Japan National Tourism Organization

## Fukushima Prefectural Centre for Environmental Creation <CEC>

We have to quickly restore environment in Fukushima to create environment where citizens can live with peace of mind over the future. For that, we are conducting detailed environmental monitoring, research and information release as well as taking measures to help children learn about environment and radiation at the Information and Communication building, "Communita Fukushima."

### ■ Environmental Radiation Monitoring Centre (Minamisoma City)



### ■ Inawashiro Aquatic Environment Centre (Inawashiro Town)



### ■ Wildlife Symbiosis Centre (Otama Village)



### ■ Fukushima Prefectural Centre for Environmental Creation Main Facilities (Miharu Town)



### ■ IAEA cooperation



Fukushima Prefecture currently proceeding projects in cooperation with IAEA\* Projects include the review of decontamination technology used for rivers and lakes, and studying the movement of radioactive materials contained in wild animals. \*IAEA : International Atomic Energy Agency



On-site inspection by IAEA experts

### ■ IAEA proposed project

- Decontamination in Fukushima
- Support for utilization of radiation monitoring data for drawing of easily understandable maps ...

### ■ Our proposed projects

- Project to review the decontamination technology for rivers, lakes and ponds
- Behavioral survey of radionuclide in wild lives ...



## Disposal of waste

### ◆ Disaster waste disposal

[As of 2020.5.31]

■ The disposal of targeted 3.04 million tons of disaster waste handled by municipalities has been completed. In areas handled by the national government, 2.03 million tons of waste has been processed so far.



Dealing with disaster waste



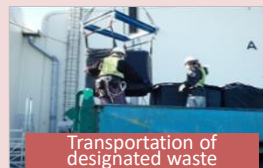
A temporary incinerator

### ◆ Disposal of designated waste

[As of 2020.6.30]

■ Designated waste is being disposed of at the nationally designated landfill facility in Tomioka Town. As of today, 130,000 bags have been disposed of by landfill.

The prefectural government inspects the sites and conducts environmental monitoring in order to ensure safety and security. These activities are based on the safety agreement between the national government, the prefectural government, Tomioka and Naraha Town. The results of the environmental monitoring are released on the internet.



Transportation of designated waste

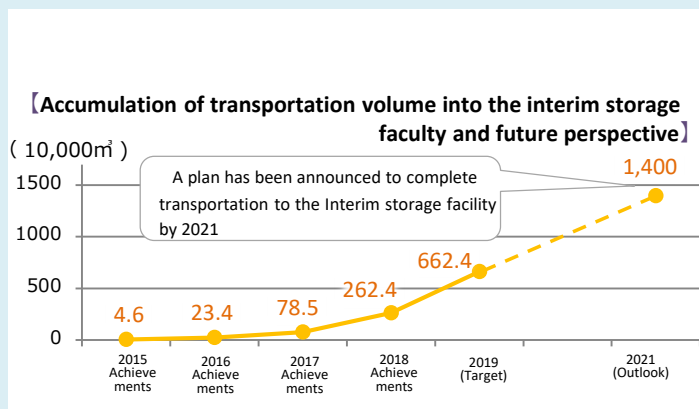


Landfill disposal facility

### ◆ Receiving of removed soil and development of facilities

■ For the transportation of removed soil into the interim storage facility, about the total of 7,810,000m<sup>3</sup> was transferred from March, 2015 when the transportation started to the end of June, 2020, and transportation for 26 municipalities out of intended 52 has been completed.

A plan has been announced to complete transporting most of the removed soil that is temporarily located within the prefecture into an interim storage facility by the end of FY 2021. The prefectural government inspects the sites and conducts environmental monitoring in order to ensure safety and security. These activities are based on the safety agreement between the national government, the prefectural government, Okuma and Futaba Town.



### Final disposal of removed soil and waste outside of Fukushima



■ Removed soil and waste were stored in the Interim Storage Facility for a certain period. The final disposal will occur outside of the Prefecture within 30 years since the commencement of the Interim Storage Facility (By March 2045).

## Decontamination

Decontamination of prefectural land has been completed in all areas except for the Difficult-to-return zone.

### ◆ Decrease in the number of Temporary Storage Sites

■ The contaminated soil, which was removed during the decontamination of prefectural land, was stored in Temporary Storage Sites. The number of these sites has been decreasing due to the progress in transporting the soil to the Interim Storage Facility.

■ The number of Temporary Storage Sites, etc.

[As of 2019.3.31]

Special Decontamination Areas: 156 sites

Intensive Contamination Survey Areas: 40,746 sites



Image of a Temporary Storage Site



Area the national government conducts decontamination (11 municipalities.)

Area where decontamination conducted has been lifted (8 municipalities)

Area each municipalities conducts decontamination (33 municipalities.)

Reconstruction work has begun for 98% of public works facilities, and 94% have already been completed. Currently the prefecture is focused on the tsunami affected area, and is aiming to complete reconstruction as soon as possible, while developing and strengthening roads and other infrastructure, and ensuring that recovery efforts proceed in a safe and secure manner.

## Progress by reconstruction work

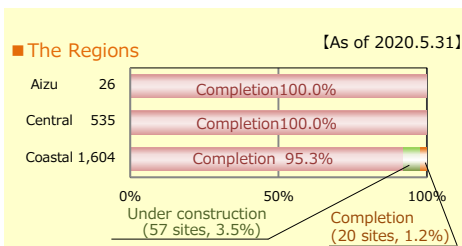
### ◆ Situation of reconstruction work

■ The prefecture is focusing on installing a road network to speed up the revitalization of zones where evacuation orders have been lifted or are to be lifted. The network includes 8 main routes covering the coastal region surrounded by express and national highways.

【※ 8 Main Routes】

### ◆ Progress by construction site

■ Reconstruction work has begun for 2,145 (99%) of 2,165 public works sites which had been assessed for restoration work. 2,088 (96%) sites have already been completed.

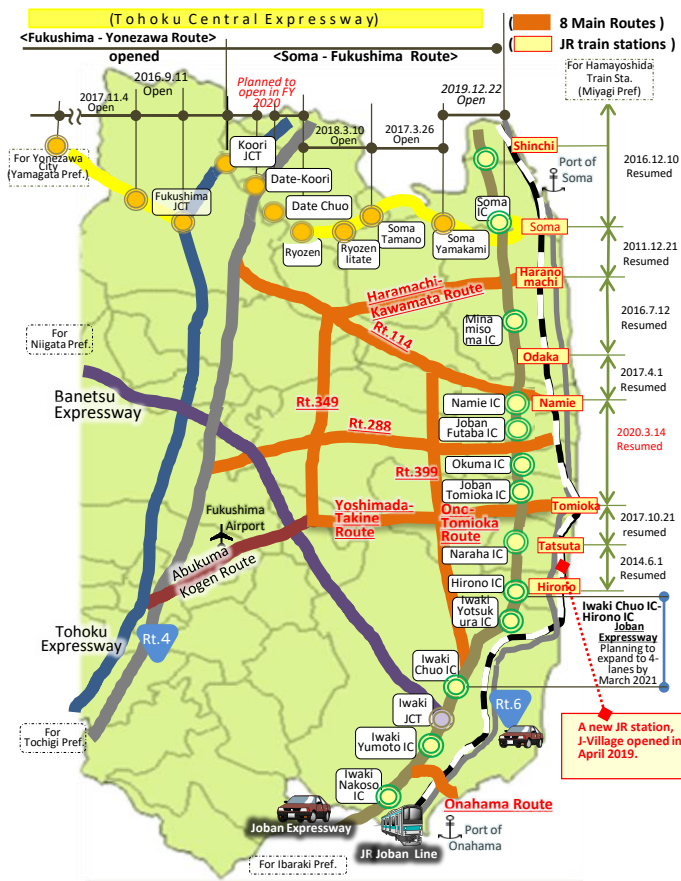


■ The Areas

Percentage of completion  
100% . . . Port and harbors, Sewage, Park, Public housing  
About 90% . . . River and sand erosion control, Road and bridge, Fishing port, Coast

### New roads for restoration are under construction

The prefecture is currently installing a road network in order to provide strong support for seriously damaged zones. The network is aimed to be completed by 2023, and will include 8 main routes covering the coastal region, in the areas surrounded by express and national highways.



### ◆ Progress inside the evacuation zones

■ Of the 379 sites assessed for restoration work in the evacuation order cancellation preparation zone and the restricted residence zone, work has begun for 359 sites (95%), and 305 sites (80%) have been already completed. Restoration work in the difficult-to-return zone is also underway in tandem with decontamination work handled by the central government.

#### Joban Expressway

<March 1, 2015 Completion>

◆ Iwaki Chuo IC- Hirono IC, aiming expand to 4 lanes by the end of FY2020.

◆ The NEXCO East Japan Co. announced that they are planning to install added lanes at 6 points between Hirono IC and Yamamoto IC to alleviate traffic congestion.



- Naraha Smart Inter Change (IC)
- Opened in Mar. 2019
- Okuma IC
- Opened in Mar. 2019
- Joban-Futaba IC
- Opened in Mar. 2020

#### JR Joban Line

Operation status as of 2020

- Namei-Odaka Station<Resumed in April 2017>
- Tatsuta-Tomioka Station<Resumed in Oct.2017>
- Tomioka-Namei Station<Resumed Mar. 2020>



#### Operation of wide area bus services in the evacuation zone

Operation starts in April, 2017

- 1: Iwaki-Tomioka
  - 2: Funehiki (Tamura City) -Katsurao
  - 3: Funehiki (Tamura City) -Kawauchi
- Operation starts in Oct., 2017
- 4: Kawauchi-Kamisimasa (Iwaki City)
  - 5: Minamisoma - Fukushima Univ. (via Fukushima Medical Univ.)

Operation starts in April, 2018

- 6: Tomioka -- Kawauchi
- These services have been done with cooperation of bus operators and municipalities in the areas.

The prefecture has implemented the 'Fukushima Health Management Survey' in order to protect the physical and mental health of citizens, and maintain and improve health in Fukushima into the future. The survey includes the estimation of citizens' radiation exposure and thyroid examinations.

## Fukushima Health Management Survey

### Basic Survey

Citizens residing in the prefecture as of March 11, 2011 (2,055,251 persons)

Self-administered questionnaires: 27.7%  
[568,331 respondents/2,055,251 subjects]

<Results of estimate on external exposure dose>

【All citizens surveyed】Ratio of dose from 0 to 2mSv accounts for 93.8% of all.

※Estimate of external exposure dose for the 4 months from the nuclear accident (March-July 2011)

### Thyroid Ultrasound Examination

Citizens aged 18 or younger at the time of the disaster (About 380,000 persons)

#### Primary Examination (April 2011 to March 2014)

Inspection to confirm the present situation of children who aged 18 or younger at the time of the disaster, about 300,000 were examined by March 2014.

#### Full-scale Examination (April 2014 - present)

The second inspection for the comparison with the primary inspection. The subjects will include infants born till April 1, 2012. The inspection will be conducted every 2 years with the subjects to the age of 20, and after 20 it will take place every 5 years.



### Primary Examination: Ultrasound Examination

Number of Examinations	Screening category	Implementation Period	Coverage
1st round	Primary Examination (Check on the situation of people's thyroids)	Oct. 2011-Mar. 2014	Citizens aged 18 or younger at the time of disaster (About 370,000 persons/Born on April.2,1992-April.1,2011)
2nd round	Full-scale Examination (Compare with Primary Examination)	April. 2014-Mar. 2016	Citizens born on April.2,1992-April.1,2012 (About 380,000 persons/The inspection will be conducted every 2 years with the subjects to the age of 20, and after 20 it will take place every 5 years.)
3rd round		May. 2016-Mar. 2018	
4th round		April. 2018-Mar. 2020	
5th round		April.2020	

### Secondary examination: Thorough thyroid ultrasound examination and blood testing

Fine-needle aspiration cytology is conducted as deemed necessary by the doctor. As of Jun. 30, 2019, 231 cases were diagnosed as malignant or suspected malignant in the secondary examination.



### Internal exposure examinations using whole body counters

#### <Results of Examination\*>

Committed effective dose (internal exposure dose radiated within the body throughout one's lifetime)

Results :	Below 1mSv	1mSv	2mSv	3mSv
number of examinees	344,790	14	10	2

- Figures were not high enough to affect the health of all those involved. (June 2011 - September 2019)
- The examination results have shown figures below 1mSv since March 2012.

### Free medical care for all citizens aged 18 or under



Fukushima has increased the age range for those eligible to received medical subsidies. This is part of an effort to support child-raising in the prefecture through creating an environment focused on child health, where it is easy to give birth to and raise children. As of October 2012, free medical care is provided to citizens aged 18 or younger.

### Development of a hub for cutting-edge radiological research and medical care & Fostering of human resources in medical fields

#### Fukushima Global Medical Science Center

In order to protect the health of citizens into the future, Fukushima has developed a hub for cutting-edge radiological research and medical care.

December 2016  
Opened



Fukushima Medical University  
(Fukushima City)  
URL: <https://www.fmu.ac.jp/univ/en/>

#### 8 Functions

- Radiation Medical Science Center for the Fukushima Health Management Survey
- Advanced clinical research center
- Advanced medical treatment section
- Education and personnel training section
- Medical Industry Translational Research Center
- Thyroid and Endocrinology Center
- Health Promotion Center
- Assuring medical services in Futaba district

#### School of Health Sciences (tentative name) Fukushima Medical University

The Prefectural Government will establish a new department at the Fukushima Medical University in order to foster and stably secure human resources for health and medical services who are in short supply in the prefecture.

The school is expected to open in April, 2021.

#### Outline

- Name of the school and departments (tentative name)
  - School of Health Sciences
    - Department of Physical Therapy
    - Department of Occupational Therapy
    - Department of Radiological Sciences
    - Department of Laboratory Sciences

Facility outline  
Location: Sakae-machi, Fukushima City  
Facility scale (total floor space): Approx. 18,300㎡  
Floor count: 9 (including 1 basement floor)  
Antiseismic style: Earthquake-resistant structure

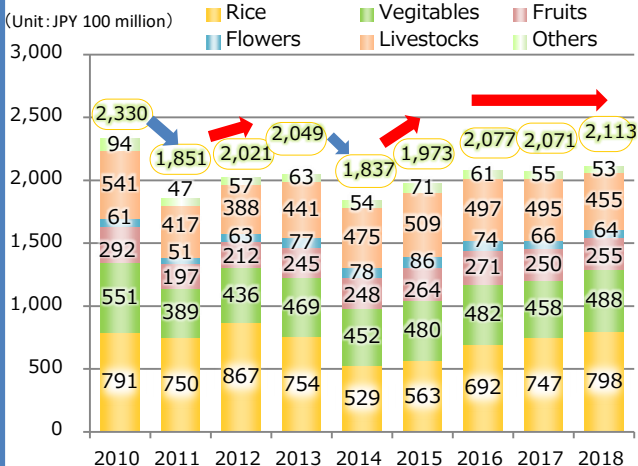




Production values for the agricultural, forestry, and fisheries industries have decreased since the disaster, March 2011. The prefecture is putting the utmost effort into a variety of activities to revitalize the agricultural, forestry, and fisheries industries, which will in turn contribute to helping rebuild the livelihoods of disaster-affected citizens. Activities include PR campaigns introducing qualities of Fukushima products along with the systems in place to ensure food security and safety.

## Transition in the amounts of agricultural products produced in the prefecture

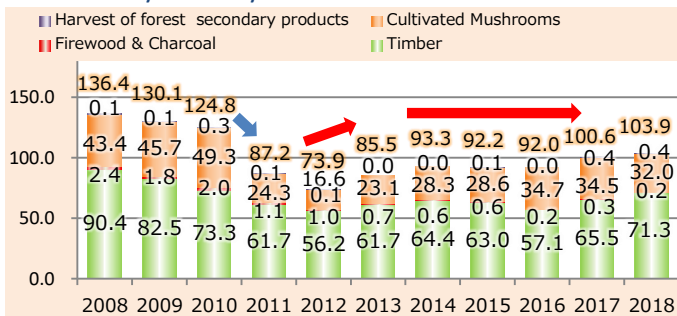
### ◆ Amount of agricultural produce



※In terms of rice, crop acreage and yield increased after 2012, but in 2014 and 2015, the nationwide rice price sharply dropped and the rice output also significantly dropped in the prefecture, as well.

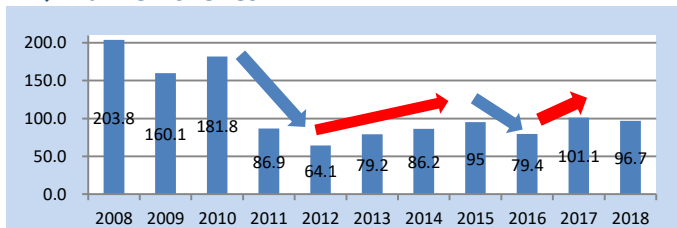
### ◆ Forestry Industry

(Unit: JPY 100 million)



### ◆ Marine Fisheries

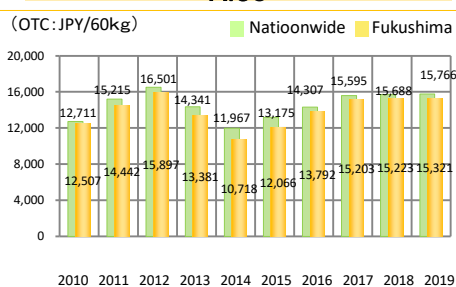
(Unit: JPY 100 million)



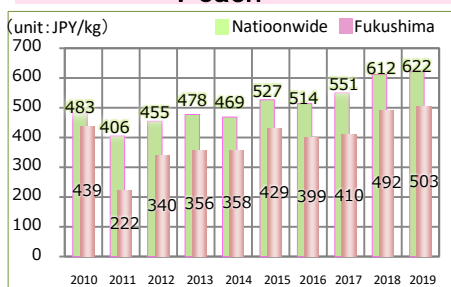
## Transition of the price of agricultural products representative of Fukushima

[Production Volume in the nation in 2010, Rice : 4<sup>th</sup> highest, Peach : 2<sup>nd</sup> highest, Beef cattle (Japanese Beef) : 10<sup>th</sup> highest (raised)]

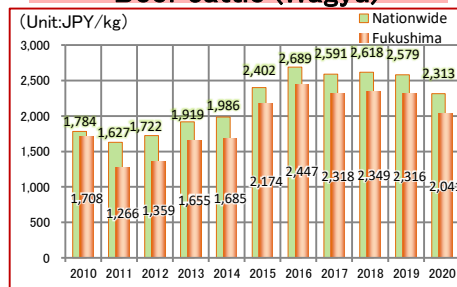
### Rice



### Peach



### Beef cattle (Wagyu)



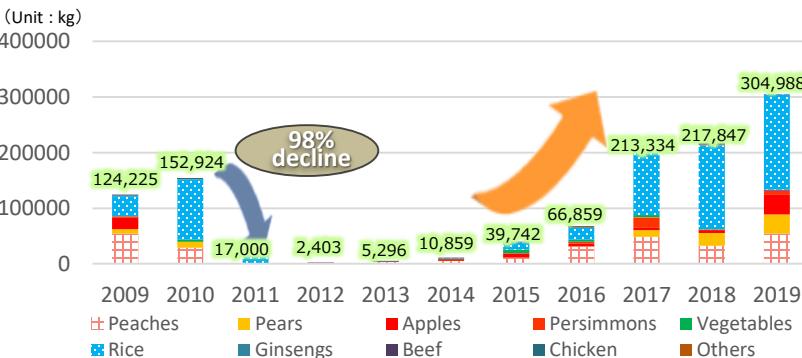
[Source] MAFF Projection of OTC trades of rice

[Source] Market statistics on website of Tokyo Central Market

## Changes in exports of agricultural and fisheries products from Fukushima

### ◆ Situation of agricultural product exports

Although the export volume drastically dropped immediately after the disaster, it has now recovered beyond pre-disaster levels and reached a record high for the third straight year. From now on, food safety and security will be ensured and through the promotional campaigns undertaken by the governor, the securing of export destinations and exports will continue to be supported.



## Sales promotion of Fukushima farm products

### ◆ Promotion of Fukushima through inbound tourism

- As part of our efforts to improve the perception of food from the prefecture and expand sales channels, the prefecture has been carrying out food promotion campaigns in Tokyo where many people visit from abroad. Visitors are encouraged to try food from Fukushima and send out their impressions to the world.
- This year, we are working with two fruit specialty restaurants, Shinjuku Takano which was established 135 years ago, and Futaba Fruits Parlor, a casual style fruit shop. Where through sweets fairs visitors can try out desserts and parfaits made using fruit from Fukushima. The campaigns have been successful in attracting many visitors including foreign tourists. Parfaits using lots of peaches from Fukushima and foreign visitors enjoying them.

Parfaits using lots of peaches from Fukushima and foreign visitors enjoying them.



In order to prevent distribution of food products containing radioactive substances exceeding the safety standard set by the government, farms have been decontaminated. Alongside this, the inspection system is being strengthened to ensure food safety. In particular every bag containing locally produced rice is required to undergo inspection before shipping.

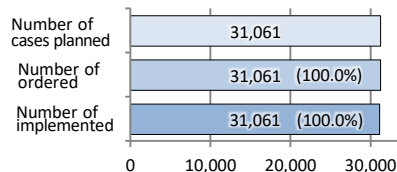
In order to ensure the safe distribution of marine products obtained through trial fishing operations, the prefecture offers guidance to fishery cooperatives in regards to inspection technology, and are working with producers and distributors to establish an efficient inspection system.

## Decontamination of farmland



### Situation of decontamination in farmland (Including rice field, farm, orchard and grazing ground)

Excluding \*the areas the national government conducts decontamination (See page .6) (As of 2018.3.31)



## Monitoring of Fukushima's agricultural, forestry and fishery products

Fukushima's primary products undergo monitoring inspection before being shipped. Any product that is found to exceed the safety standard is banned from being shipped based on the product type and produced area. Products being distributed are confirmed to be safe.

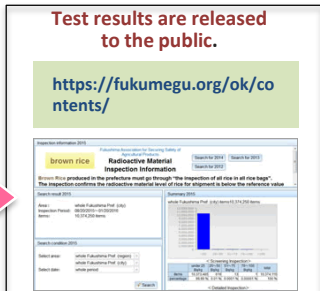
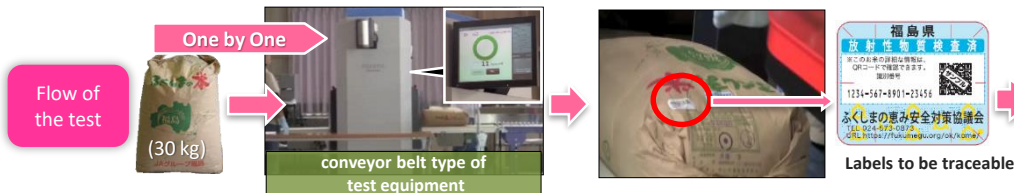
### ◆ Test results on all rice in all rice bags

(2019.8.26-2020.3.31)

Brown rice Year 2019 production	Total No. of samples	No. of samples exceeding safety standard limits	Proportion of samples exceeding safety standard limits
	Approx. 9.41 million	0	0.00%

Test results are released to the public.

<https://fukumegu.org/ok/contents/>



### ◆ Inspection results

(2019.4.1-2019.10.31)

Classification	Total No. of samples	No. of samples exceeding standard limits	Proportion of samples exceeding standard limits
Vegetables & Fruits	2,180	0	0.00%
Livestock products	4,102	0	0.00%
Cultivated edible plants & mushrooms	1,161	0	0.00%
Marine fishery products	5,439	0	0.00%
Fresh water farmed fish	66	0	0.00%
Wild edible plants & mushrooms	781	0	0.00%
Fresh water fishery products	1,129	4	0.35%

### Reference Safety standard limits for radioactive cesium ( Unit: Bq/kg)

Category	Japan	EU
General foods	100	1,250
Milk	50	1,000
Infant foods	50	400
Drinking water	10	1,000

Data: Consumer Affairs Agency (Govt. of Japan)

Inspection: Fukushima prefecture is carrying out these inspections based on national guidelines.  
\*Voluntary inspections by the fisheries cooperative association screened out a sample exceeding the standard limits (100Bq/kg)

### ◆ Trial Fishing conducted by the fishing industry



State of voluntary inspections by the fisheries cooperative association.

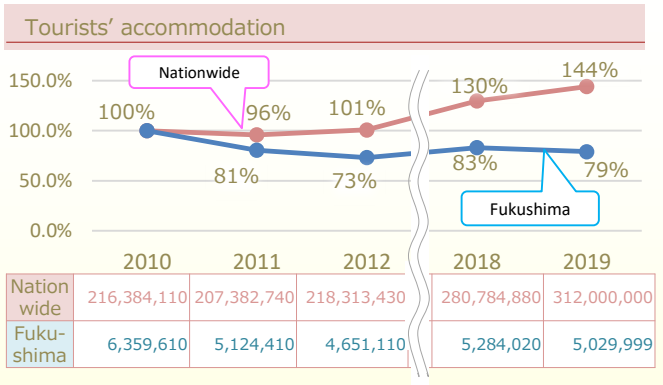
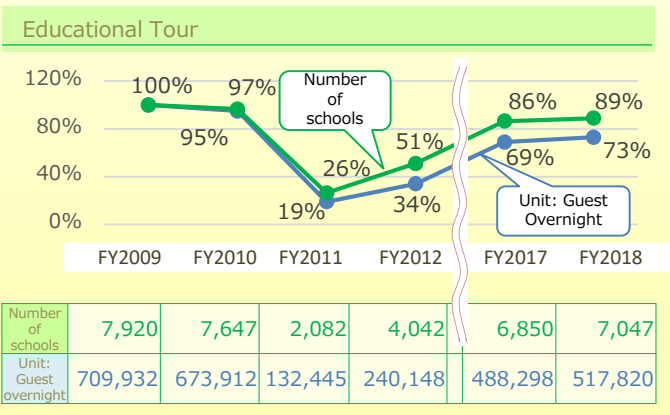
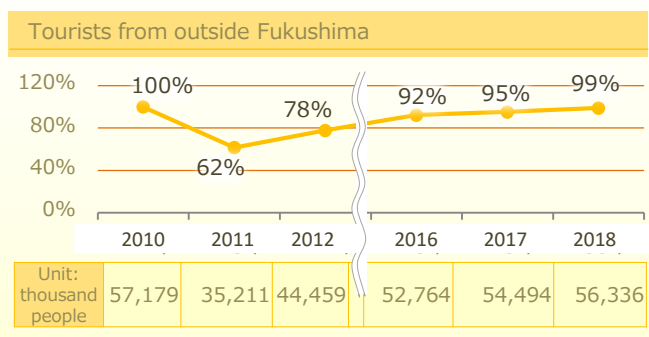
- Fishermen in Fukushima Prefecture were forced to place a ban on coastal and trawl fishing; however the safety of certain species of fish has been confirmed based on over 60 thousand items tested during monitoring inspections.
- Fishing cooperatives have been conducting inspections for radioactive substances in marine products obtained through trial fishing operations based on voluntary set standards of 50 Bq/kg, stricter than the government threshold of 100 Bq/kg to make sure no samples exceeding the limit will be distributed to the market.

Working towards the Tokyo Olympic and Paralympic Games which are positioned as to support reconstruction, all citizens are united to promote tourism through improvement of hospitality, development of region-centered receiving system and honing of tourism elements.

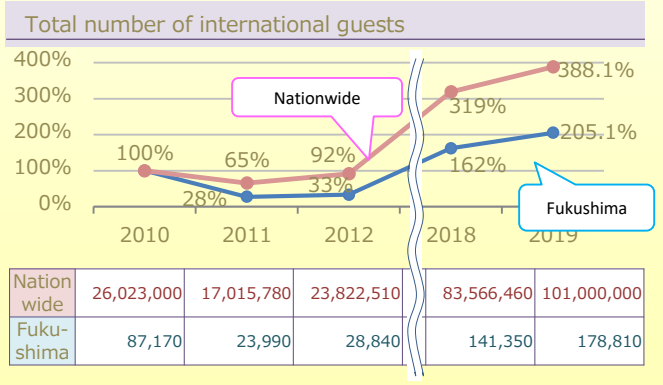
## Tourism promotion through event & other information

### ◆Changes of the number on tourism in the prefecture

[Data] Japan National Tourist Bureau statistics



\*Comparison of guest nights on year-to-year basis, After March 2011, compared to the same month in 2010



\*Number of international guests who stayed at facilities with 10 or more employees

## Tourism promotion through event & other information

### Prefecture and games to commence with a softball match in the prefecture



The Fukushima Azuma Baseball Stadium will host 6 softball games on 21 and 22 July, 2021 and 1 baseball game on 28 July.

Through this event, the Fukushima Prefectural Government will take the opportunity to show appreciation for the support received from Japan and around the world as well as show how Fukushima is progressing towards revitalization (in the wake of the disaster).



### Sake made in Fukushima/ Fukushima Prefecture received awards for 33 brands at the Annual Japan Sake Awards

Fukushima's sake has the top number of gold awards in Japan, breaking its own records. Although the selection of the gold awards was cancelled this year due to the COVID-19 pandemic, 33 brands from Fukushima earned awards which marks a record since the disaster and shows again the recognition in the high quality of Fukushima sake.

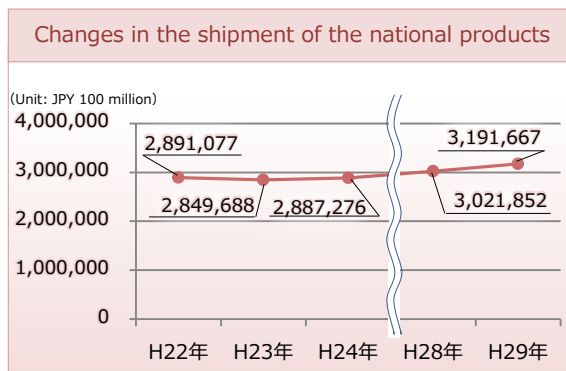
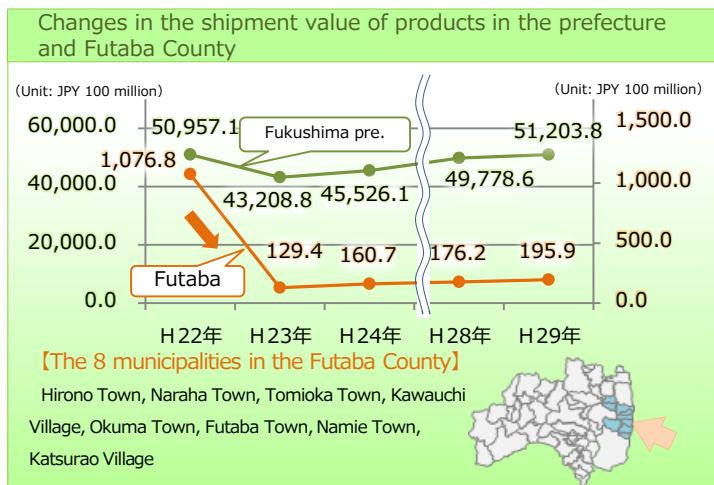




When seeing changes in shipment values of products, levels both nationwide and of Fukushima Prefecture recovered to exceed the pre-disaster levels. In order to continue development of local industries, we will continue to support the operation and resumption of small to medium-sized businesses which form the core of regional economies, as well as secure employment opportunities through the promotion of company investment into the prefecture.

### Changes in the shipment value of products (※)

• Shipment values in 2017 increased by 2.5% on the previous year, exceeding the benchmark set before the disaster (2010). However, Futaba County has remained at 20% of the pre-disaster shipment values since the disaster in 2011. We think it is necessary for us to further promote revitalization in the evacuation-ordered areas as well as the coastal region.



Source: METI 2019 Census of Manufacture by region, Preliminary Report of the 2019 Census of Manufacture, Report on the Results of the 2019 Census of Manufacture, Report on the Results of the 2019 Economic Census for Business Activity concerning the Manufacturing Industry

### ◆ Fukushima business investment subsidy for revitalization of industries

**Alotted to 551 entities (As of July 29, 2019)**  
**7,041 jobs created (projection)**

Producing raw material of medicines: 209 entities (As of July 25, 2019) → **2,542 jobs created (projection)**

Industries shown: Pulp-Paper Processing mfg., Processed paper mfg., Electronic appliance mfg., School satchel mfg., Electrical measuring instruments mfg., Solar generator appliances mfg., Textile, Chemical mfg., Automobile related parts mfg.

Districts and counts: Ken-poku (98), Soso (65), Ken-chu (142), Iwaki (98), Ken-nan (68), Minamiaizu (6), Aizu (74).

### ◆ Subsidy to business investment for employment creation in the tsunami and nuclear disaster-affected areas

We support companies that set up new factory or additional factory inside the prefecture. Those activate business and create jobs.

**209 entities** → **2,542 jobs created (projection)**  
(As of July 25, 2019)

### ◆ Subsidy for investment promotion for the support of self-help and return and the employment creation

In order to secure jobs for disaster-affected people and accelerate support for their independence and ability to return to the areas they evacuated from, we will support companies that are planning to newly or additionally build plants in the evacuation-ordered areas, and make efforts to create employment and cluster industries.

**85 entities** → **850 jobs created (projection)**  
(As of Oct 11, 2019)

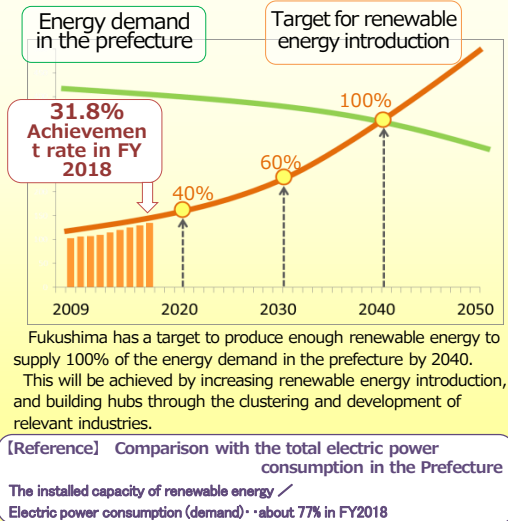
### ◆ Young people employment promotion within the prefecture

In order to eliminate labor shortages and promote employment for young people who seek jobs inside the prefecture, we hold joint job fairs in Fukushima as well as in Tokyo every year. We also provide job consultation services for people including disaster victims at 7 work-life support centers in the prefecture and hometown job information centers in both Tokyo and Fukushima.



For the revitalization and recovery of Fukushima, it is necessary not just to restore things to how they were before the disaster, but create new, leading enterprises. Revitalization of the prefecture is currently being propelled by the development of hubs for R&D and industrial creation in a wide variety of fields.

### Renewable energy promotion



### Strengthening cooperation with other countries

■ As part of the promotion of renewable energy and medical industry fields in the prefecture, we are promoting collaborations with overseas countries. When the governor visited Europe in Oct. 2019, he renewed a memorandum of understanding (MOU) with the State of North Rhine, Germany in both fields and signed an MOU with the State of Hamburg, Germany and Basque Country, Spain in the field of renewable energy.

By utilizing the network with these states, we will continue to support companies in Fukushima trying to expand sales channels abroad.

Oct. 2019 - Meeting with the Minister-President of the State of North Rhine Westphalia (NRW)



### Promotion of the clustering and recovery of the industrial sector

#### MEDICAL FAIR ASIA 2019

The largest exhibition of medical device products and related technology in Asia was held in Thailand, attracting around 12,000 medical workers, buyers, and manufacturers from over 70 countries around the world.

The prefectural government ran a booth in the trade show for the third straight year to support Fukushima-based companies aiming to develop sales channels into the rapidly growing Southeast Asian market.



[Sep 11-13, 2019]

#### Fukushima booth at "E-world energy & water 2020"



Feb 11-13, 2020  
The city of Essen, the State of NRW, Germany

The prefectural government ran a booth at "E-world energy & water 2020" which is one of the largest trade fairs for energy in Europe. It was the 7th time participating and six companies in the Prefecture exhibited at the booth. Business talks and exchanging of opinions actively took place as well as promoting renewable energy technologies and products.

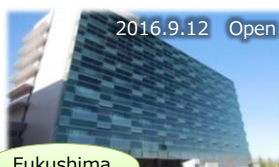
### Research & development hubs in Fukushima Prefecture

#### Fukushima Renewable Energy Institute, AIST(FREA)



National Institute for Advanced Industrial Science and Technology (AIST) developed R&D hub centers for renewable energy. Smart System Research Building started operation on April 1, 2016.

#### Medical-Industry Translational Research Center (Radiation Medical Science Center)



In order to serve as a bridge between the medical and industrial fields, the center acts as a hub to promote the creation of reagents, therapeutic, and diagnostic drugs used mainly for cancer treatment.

#### Fisheries and Marine Science Research Centre



In response to new research tasks following the nuclear disaster, this centre was built as a core facility for revitalization of the marine industry.

#### Renewable Energy-derived Hydrogen generation and usage project

Fukushima Prefecture is working on technical demonstrations of large scale hydrogen production, and a next generation hydrogen delivery and storage technology utilizing renewable energy at the plant in Tanashio district, Namie Town. This plant will start operation in 2020. Hydrogen produced by the plant is planned to be used at the 2020 Tokyo Olympics and Paralympics.

Namie

Scheduled to open in 2020



## The Fukushima Innovation Coast Framework

Efforts are being made to revitalize industries and create employment in the Coastal Region affected by the Great East Japan Earthquake and nuclear disaster. The project focuses on research and development related to decommissioning and robotic technologies, clustering energy related industries, revitalization of agriculture, forestry and fisheries industries that use cutting-edge technology and lastly, strengthening the fostering of human resources who will lead the future. The project is working to attain self-sustaining and continuous industry growth through the creation of new industries and jobs, which will lead the reconstruction and revitalization of the whole prefecture. This initiative was carried out in accordance with the amended Act on Special Measures for Fukushima Reconstruction and Revitalization (promulgated and came into force on 19 May, 2017), and further promoted as a national project.

## Working towards the realization of the Fukushima Innovation Coast Framework

◆ There are 3 core pillars based on a blueprint drawn up on Dec. 9, 2019 for the development of industry with the Innovation Coast Framework.

### 1. A region where people can take on any challenge

■ We aim to develop the coastal region to be a place where new challenges are taken up in various fields.

### 2. Local companies are major players

■ In order to encourage not only cutting-edge companies but various local companies to actively participate in the initiative, we will promote wide-area cooperation between local businesses and incoming companies to the region.

### 3. Fostering human resources who will play a major role in the initiative

■ We will foster innovators in the region and professionals who will support the industrial cluster.

## ◆ Hubs for research and main projects

### Decommissioning

Developing technology by gathering wisdom from Japan and around the world

■ Demonstration tests necessary for decommissioning, etc. are carried out at Naraha Center for Remote Control Technology Development

(Naraha Town)



■ Okuma Analysis and Research Center (Okuma Town)



■ Collaborative Laboratories for Advanced Decommissioning Science (CLADS)

(Tomioka Town)



### Agriculture, Forestry and Fisheries Industries

Revitalization of agriculture, forestry and fisheries industries utilizing ICT and robotic technologies

■ In a Japan first, initiatives are being implemented in areas of advanced agriculture, forestry and fisheries which are employed in the development and demonstration of ICT and robotic technologies.



■ Adding higher value to marine products in Fukushima, developing processing technology, working on countermeasures against radioactive materials (Fukushima Prefectural Fisheries and Marine Science Research Centre, Iwaki City)



### Robots and Drones

Clustering of industries with the Fukushima Robot Test Field as the core

■ R&D and demonstration tests of robots expected to be used in disaster response, distribution, infrastructure inspection and other purposes are performed at the Fukushima Robot Test Field (Minamisoma City and Namie Town)



■ Experiment using drones to transport blood products for transfusions was performed by Tokyo Metropolitan Bokutoh Hospital.



### Healthcare-related industries

Opening up markets for businesses by supporting technological development

■ Supporting the development of new medicine and diagnostic agents for diseases which focus on cancer

(Translational Research Center, Fukushima City)



■ Integrating support from the development through to the commercialization of medical devices (Fukushima Medical Device Development Support Centre, Koriyama City)



### Energy, the Environment and Recycling

Establishment of advanced renewable energy and recycling technologies

■ Fukushima Hydrogen Energy Research Field (FH2R) (Namie Town) is the world's largest facility for producing hydrogen derived from renewable energy. Hydrogen produced at FH2R is used in fuel cells installed in Prefectural

Azuma Sports Park and J-Village. Electricity is supplied to both of these facilities.



Fuel cells in Prefectural Azuma Sports Park



Fuel cells in J-Village

### Aerospace industries

Demonstrations of "flying cars" and attracting related companies

■ Development of flying cars by SkyDrive Inc., a company which has a research room in the Fukushima Robot Test Field



■ Full-size model of the asteroid explorer, Hayabusa 2, was exhibited at the Robot and Aerospace Festa Fukushima 2019. Companies in Fukushima greatly contributed in developing its parts. (November 2019, at BIG PALETTE FUKUSHIMA)





## ◆ The Fukushima Revitalization Plan (the 3rd edition)

■ In the Fukushima Revitalization Plan (the third version), major projects for restoration and revitalization of the prefecture are stated as ten priority projects which are being intensively implemented. In combination with comprehensive plans to take countermeasures against depopulation and ageing, the prefecture is working to progress revitalization and regional creation.

<http://www.pref.fukushima.lg.jp/site/portal-english/rev-plan-3.html>

Fukushima Prefectural Govt.  
Budget for Fiscal Year 2019  
(April 2019-March 2020)

**JPY14,418 billion**  
(equiv. USD 13.76 billion)

Incl. East Japan Earthquake  
and nuclear disaster portion:  
JPY 504.3 billion



<p><b>Revitalization evacuation area</b></p> <p><b>Acceleration project for evacuation area</b> <b>JPY 43.5 billion</b></p> <p>Building of towns based on the hub of revitalization, strengthening of wide-area infrastructure, promotion of wide-area cooperation, reconstruction of system for provision of medical care, recovery of industry and jobs, promotion of Innovation Coast Concept, fostering of human resource for the future</p>	<p><b>Living in peace and security</b></p> <p><b>Assistance for re-building livelihoods</b> <b>JPY 23.8 billion</b></p> <p>Assistance for evacuees, measures for returning of evacuees to their homes, rebuilding of livelihoods after returning. Fulfillment of a support system for evacuees</p>	<p><b>Work in your hometown</b></p> <p><b>Primary industry revival</b> <b>JPY 70 billion</b></p> <p>Measures to provide safety and peace of mind, recovery of agricultural, forestry and fisheries industries and response for reorganization of designated areas</p>
<p><b>Rebuild towns, connect people</b></p> <p><b>Project to counter harmful rumors and to preserve remembrance of the disaster</b> <b>JPY13.6 billion</b></p> <p>Recovery and opening up of market channel of our products, such as primary products; promotion to increase tourists and recovery of educational tours; Release of accurate information to the rest of Japan and the world; Promotion taking the opportunity of Tokyo Olympic and Paralympic Games</p>	<p><b>Environmental restoration</b> <b>JPY 99.4 billion</b></p> <p>Promotion of decontamination, securing of food safety, disposal of waste, Promotion of research at the Environmental Creation Center, Safety surveillance for decommissioning</p>	<p><b>SMEs revitalization</b> <b>JPY 87.5 billion</b></p> <p>Vitalization of SMEs in the prefecture, promotion of business investment</p>
<p><b>Town-building for revitalization and exchange network basis strengthening</b> <b>JPY 176.3 billion</b></p> <p>Promotion of town-building for tsunami-affected areas, development of traffic infrastructure, counter-measures for disaster reduction and prevention.</p>	<p><b>Protecting the physical and mental health of citizens</b> <b>JPY 21.4 billion</b></p> <p>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</p>	<p><b>New industry creation</b> <b>JPY 28.8 billion</b></p> <p>Promotion of renewable energy, clustering of medical and welfare devices, clustering of robotics industry</p>
	<p><b>Fostering the next generation project</b> <b>JPY 18.7 billion</b></p> <p>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</p>	<p><b>Countermeasures against depopulation and aging</b> <b>JPY 61.5 billion</b></p> <p>Building of a prefecture where people can comfortably live, work, give birth and raise children; elderly people can easily live and youths and women can actively join the social activities.</p>

## Topics I

### The governor visited Europe

Governor Uchibori met Thomas Bach, president of the International Olympic Committee in Lausanne, Switzerland on Oct. 10, 2019. He expressed his appreciation for the president's visit to Fukushima in November of last year and explained about preparations being made towards the baseball and softball games to be held at Azuma Baseball Stadium during the Olympic Games Tokyo 2020, the current status of revitalization as well as discussing other topics. Mr. Bach expressed his intention to publicize safety and security of Fukushima food as well as to visit Azuma Baseball Stadium in July next year.

The governor also visited the European Commission in Belgium to call for further easing of import regulations on food from Fukushima and held a 30 min seminar to explain the status of progress towards revitalization, the high quality of its food products and about Fukushima's tourist attractions.



### In-store promotion campaigns for Fukushima peaches in Bangkok, Thailand

On Aug 28, Vice Governor Ide promoted Fukushima peaches at Don Don Donki Thonglor, a PPIH Group's Don Quijote outlet which was opened in February in Bangkok, Thailand.

Peaches from Japan are a popular summer fruit at the store. The store shifted from peaches produced in other prefectures to Fukushima peaches to cater to the local preference for firm peaches. As a result, sales have improved with many customers constantly buying the fruit over the weekend.

Exports of peaches are expected to total 40 tons this year as sales continue until the end of September when the last batch of shipments for this season arrive by sea.

Exports of pears, grapes, apples and persimmons are scheduled there after.



World Economic Forum  
Annual Meeting of the  
New Champions



Governor Uchibori visited Dalian, China from June 30 to July 2 to attend WEF's Annual Meeting of the New Champions 2019 (Summer Davos). At the meeting, he had talks with Mr. Klaus Schwab, Executive Chairman of WEF, Mr. Borge Brende, President of WEF, Mr. Chen Qiufu, Governor of the hosting Liaoning Province and other world leaders, and deepened relationships with them.

He also took the opportunity to thank them for the warm support they have provided after the disaster and to ask to visit Fukushima in the near future. He spoke about the measures Fukushima Prefecture has been taking to challenge itself to create a bright future based on a society that doesn't depend on nuclear energy during the various discussions he attended including the discussion on Racing towards Electric Mobility.



Fukushima Prefecture outlines



Basic Data

- Capital: Fukushima City
- Population: 1,827,283 (Aug 2020)
- Area: \*13,783km<sup>2</sup>  
\*Evacuation designated zones: 337km<sup>2</sup> (Mar 2020)

Access

- Roughly 200km away from Tokyo
- JR Tohoku bullet train
  - Tokyo-Koriyama JR Station 80 min
  - Tokyo-Fukushima JR Station 90 min
- NEXCO Highways
  - Tohoku expressway
  - Joban expressway
  - Ban-Etsu expressway
- Fukushima Airport
  - Fukushima Airport <-> Itami (Osaka)
  - Fukushima Airport <-> New Chitose (Hokkaido)

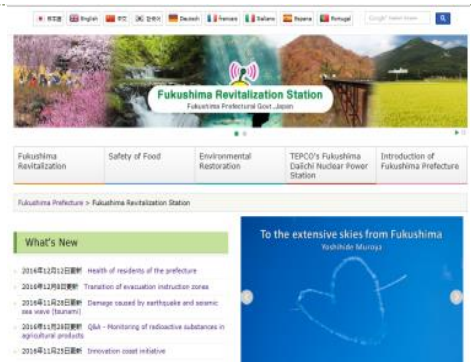


Fukushima Revitalization Station  
Portal site of revitalization progress



<http://www.pref.fukushima.lg.jp/site/portal-english/>

Steps for Revitalization in Fukushima the latest version is available on  
<http://www.pref.fukushima.lg.jp/site/portal/ayumik-1.html>



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