

## Triple Disaster Earthquake, tsunami and nuclear accident of March 11, 2011

### Disaster status after the earthquake and tsunami

<Disaster status in Fukushima Prefecture> As of 2017.7.31

◆ **Deaths : 3,985**

(This number includes 2,157 disaster-related deaths(※1))

◆ **Missing: 3** (※2)

(※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. (※2) For the 227 people missing, 224 have had death notifications issued, and are counted as deaths.



Yotsukura Bay struck by the tsunami (March 11, 2011, Iwaki City)

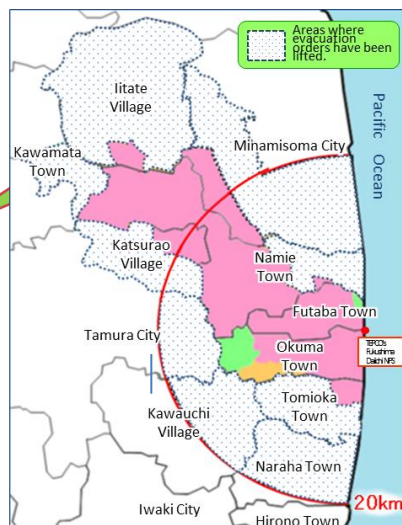
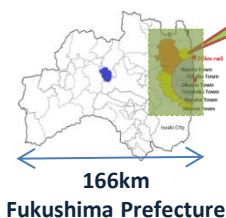


Police officers carry out search and rescue operations using heavy machinery (March 2011, Soma City)

### Evacuation Designated Zones

◆ The areas under evacuation orders have changed such as with the lifting of the orders

- Difficult-to-return zone
- Restricted residence zone
- Evacuation order cancellation preparation zone



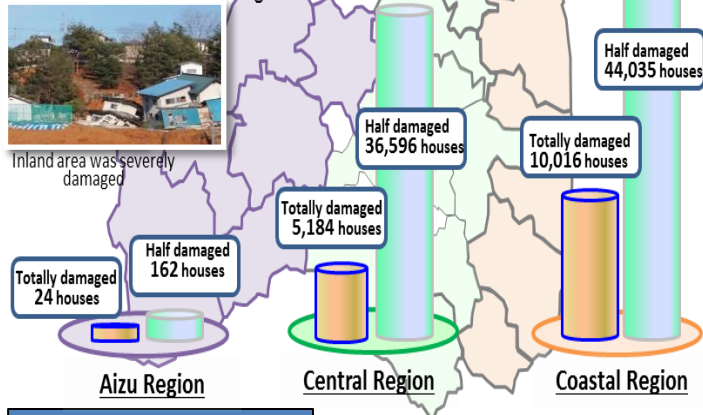
Current Evacuation Designated Zones : approx. 2.7% occupation of the entire area of Fukushima Prefecture

### Status of housing damage by region

<Damage status> As of 2017.7.31

◆ **Totally damaged: 15,224 housing facilities**

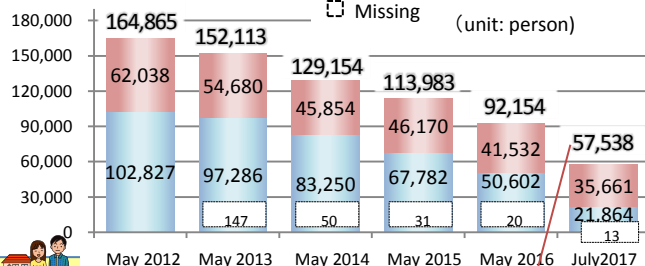
◆ **Half damaged: 80,793 housing facilities**



### Transition of evacuees

◆ Nearly 58 thousand people from Fukushima continue to live as evacuees (Earthquake, Tsunami, NPS accident)

- Evacuees outside the prefecture
- Evacuees inside the prefecture
- Missing



### Fukushima Prefecture's population

**1,884,646 people**  
(As of July 2017)

Numbers of evacuees are **about 3%** of the prefecture's entire population



### Current situation at TEPCO Fukushima Daiichi Nuclear Power Station

(As of December 2016, TEPCO's data)

#### Reactor No.1

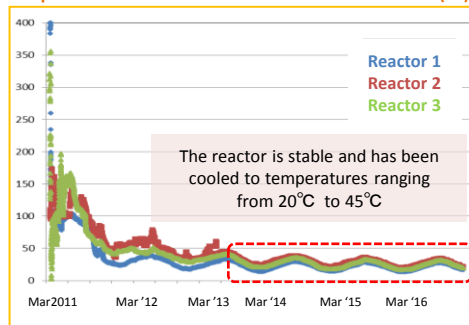


#### Reactor No.3



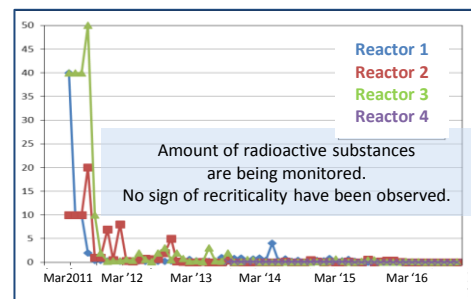
#### ◆ Reactor temperature

Temperature inside containment vessel air conditioners(°C)



#### ◆ Amount of radioactive substances

Amount of radio cesium per hour dispersed from the nuclear reactor buildings (1 mil. Bq)



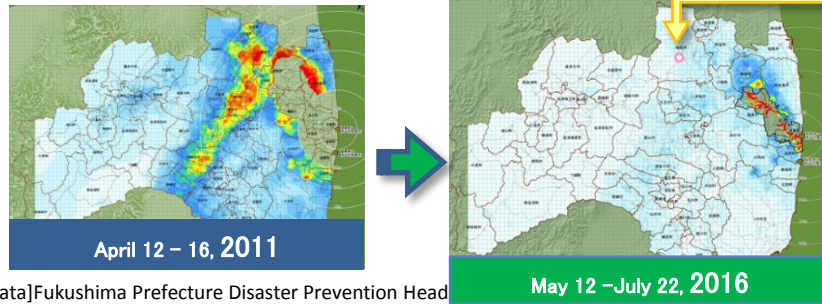
# Restoration of the prefecture

## The air radiation dose rates

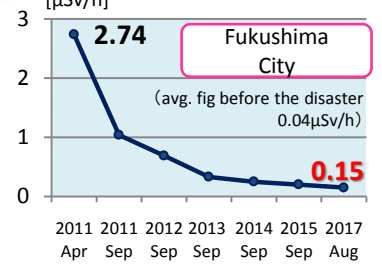
Significantly decreased since April, 2011

### Air radiation dose rate transition in Fukushima Prefecture

#### ◆ Radiation dose level map covering the whole area

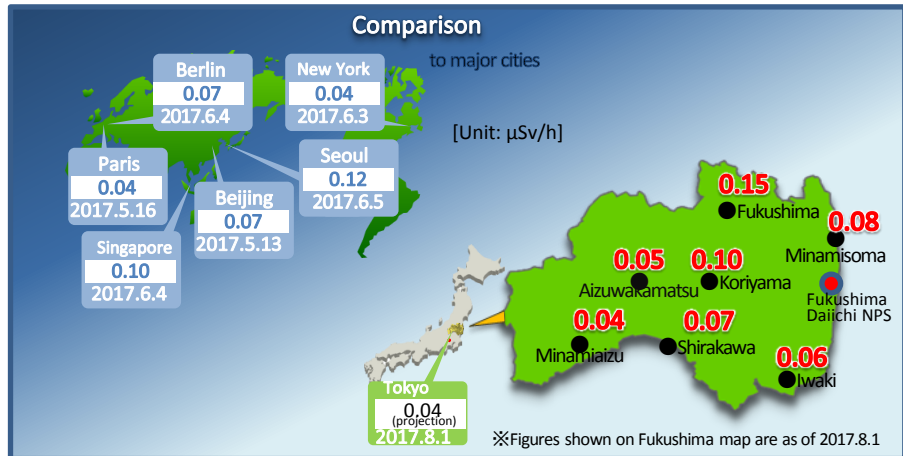


#### ◆ Transition of measurements [μSv/h]



[Data]Fukushima Prefecture Disaster Prevention Head

	[Unit: μSv/h]		
	Fukushima City	Aizu-wakamatsu City	Iwaki City
Pre-disaster	0.04	0.04~0.05	0.05~0.06
Apr2011	2.74	0.24	0.66
Sep2011	1.04	0.13	0.18
Sep2012	0.69	0.10	0.10
Sep2013	0.33	0.07	0.09
Sep2014	0.25	0.07	0.08
Aug 2017	0.15	0.05	0.06

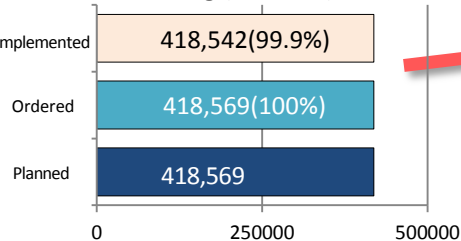


### Decontamination: Progress in 'Intensive Contamination Survey Area'

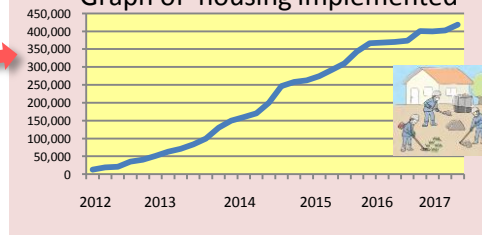
#### ◆ Steady progress has been made in the decontamination of housing and other areas.

(As of 2017.5.31)

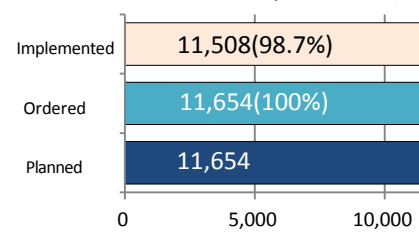
#### Housing (number)



#### Graph of housing implemented



#### Public Facility (number)

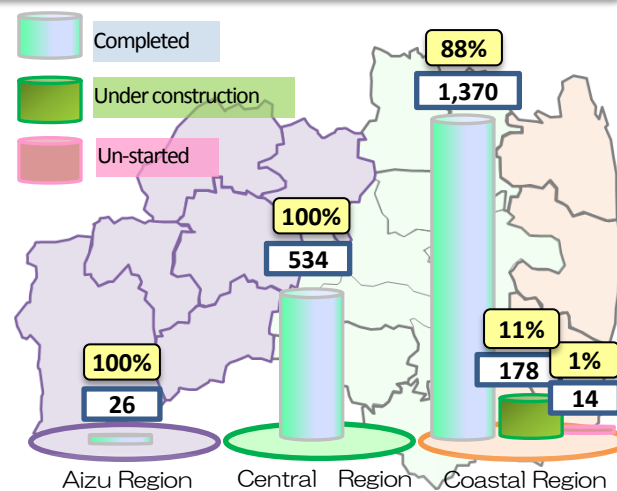


## Social Infrastructure

### ◆ Progress by construction site and by region

(As of June 30, 2017)

Construction site of public works facilities for restoration	Number of sites to be assessed (Intending for restoration work)	Number of sites for construction		Number of completion		Schedule of completion
		(%)	(%)	(%)	(%)	
<b>Total</b>	2,122	2,108	99%	1,930	91%	
River and sand erosion control	272	271	99%	248	91%	FY2019
Coast	157	156	99%	109	69%	FY2019
Road and bridge	798	795	99%	775	97%	FY2017
Port and harbors	331	331	100%	321	97%	FY2017
Fishing port	467	458	98%	380	81%	FY2017
Sewage	3	3	100%	3	100%	Completed
Park and urban facility	5	5	100%	5	100%	Completed
Public housing	89	89	100%	89	100%	Completed



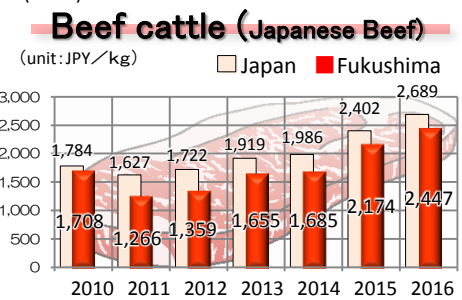
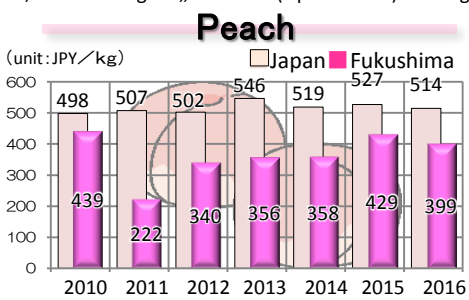
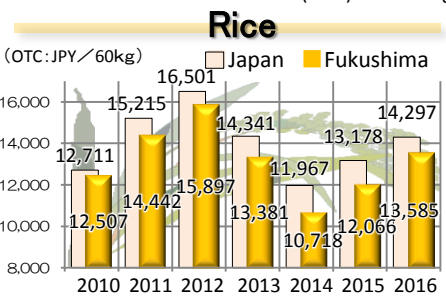


# Primary industry Fukushima products being distributed are confirmed to be safe

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

◆ Negative reputation impact is on.

- Production Volume in the nation (2010) Rice : 4th highest, Peach : 2nd highest,, Beef cattle (Japanese Beef) : 10th highest (raised)



[Source] MAFF Projection of OTC trades of Rice

[Source] Market statistics on website of Tokyo Central Market

## 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

### Brown rice 2016 production

Total No. of samples	No. of samples exceeding standard limits	Proportion of samples exceeding standard limits
Approx. 10.24 million	0	0.00%

<2016.8.24-2017.3.31>

### Labels to be traceable

### Test results are released to the public.

<https://fukume.go.jp/ok/contents/>

◆ Inspection\* results

<2016.4.01-2017.3.31>

Classification	Total No. of samples	No. of samples exceeding standard limits	Proportion of samples exceeding standard limits
Vegetables & Fruits	3,793	0	0.00%
Livestock products	4,384	0	0.00%
Cultivated edible plants & mushrooms	1,049	0	0.00%
Marine fishery products	8,766	0	0.00%
Inner water-cultivated fish	118	0	0.00%
Wild edible plants & mushrooms	783	2	0.26%
Inland water Fishery products	621	4	0.64%

### These inspection results are released to the public in English.

<http://www.new-fukushima.jp/monitoring/en/about.php://www.new-fukushima.jp/>

\* Fukushima prefecture is carrying out these inspections based on national guidelines.

◆ Trial Fishing Conducted by the Fishing Industry

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 40,000 trials tested during monitoring inspections. Since April, 2017, the scope of trial fishing has been extended to all species of fish and shellfish except fish species under shipment ban (11 species).



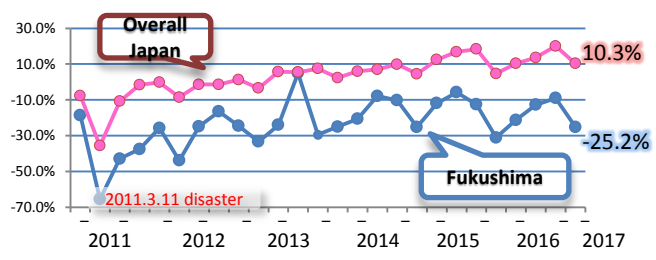
All fish produced from the trial fishing that is planned to be sold undergoes inspection for radiation. The Fishery Cooperative Association set voluntary standards stricter than that of the national government (50Bq/kg vs 100Bq/kg for catches to be sold through trial fishing, and conduct screening for radioactive substances.

## \*Japanese Safety Standard for radioactive cesium

Japan		U.S.	CODEX		
Standard Limits under Food Sanitation Act (Bq/kg)		CPG Sec. 560.750 Radionuclides in Imported Foods - Levels of Concern (Bq/kg)	CODEX STAN 193-1995 (Bq/kg)		
Drinking water	10	Food	1,200	Infant foods	1,000
Milk	50			Foods other than infant foods	1,000
Infant foods	50				
General foods	100				

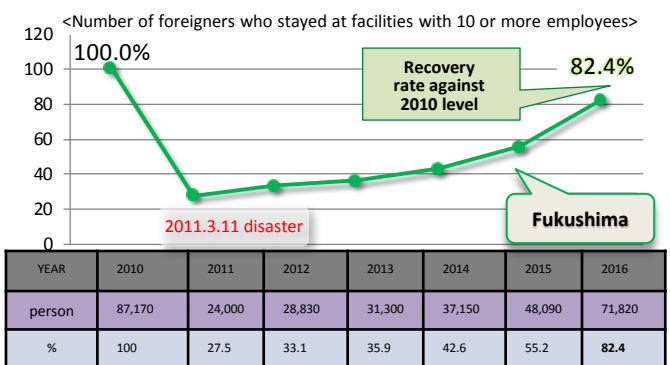
received be below a certain level and are not necessarily the boundaries between safety and danger.  
 ※CODEX: International organization established by Food and Agricultural Organization of the United Nations (FAO) and the World Health Organization (WHO) to develop international food standards. (Member countries: 187 countries and the EU (as of March 2016))  
 Data: Ministry of Health, Labour and Welfare (Japan)

◆ **Tourists' accommodation**  
Comparison of guest nights on year-to-year basis  
(After March, 2012, compared to the same month in 2010)



【Data】 Japan Tourism Agency The Survey of Tourist Accommodation  
Tourism Promotion Bureau, Fukushima Prefectural Government

◆ **Total number of guests from foreign countries to Fukushima**



**Annual Japan Sake Awards Top in Japan!**  
(5 years running)



**2020 Tokyo Olympic and Paralympic Games**  
**Fukushima to host baseball and softball matches!**

On March 17, 2017, Fukushima was chosen as a venue to host a part of baseball and softball matches at the 2020 Games will be an invaluable opportunity for Fukushima to draw attention from the world.



**Development of industry hubs** Revitalization of Fukushima is propelled by the development of hubs for R&D.

**Fukushima Medical Device Development Support Centre**  
Medical

The center will be established to provide comprehensive support for medical devices from development to commercialization. Support includes safety assessment using large animals, and machine operation training for medical personnel, which opened on 2016.11.07.

Place: Koriyama City (Site of the former Agricultural Test Center)

**Fukushima Renewable Energy Research & Development Center**  
Energy

In 2014, the National Institute of Advanced Science and Technology (AIST) opened a research and development center for renewable energy in Koriyama City. The center is currently installing a facility to test and evaluate large-scale power conditioning systems.

Place: Koriyama city  
Status: Open in April 2014

**Radiation Medical Science Centre**  
Medical

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.

Place: Fukushima City (Fukushima Medical University)

**Innovation Coast Framework**

With a purpose to recover industry and employment of the coastal region which were lost by the disaster and nuclear power accident, we will recreate new industry and employment through the project. This framework was legalized by the revision (promulgated and executed on May 19, 2017), and will be further promoted.

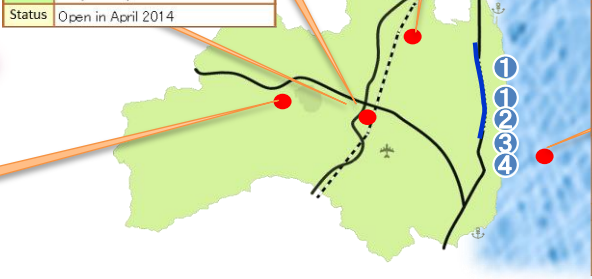
- Robot Test Field**  
To open partially in FY2019  
Minamisoma City, Namie town
- Okuma Analysis and Research Center**  
(Laboratory for analysis and research of radioactive substances)  
To understand properties of fuel debris and develop disposal technology  
Okuma town, Decommissioning, Iitate JAEA
- International Decommissioning Joint Research Center, International Joint Research Building**  
To open in April 2017  
Tomioka Town
- Naraha Remote Technology Development**  
Decommissioning  
The facility is equipped with a mock-up of a part of a nuclear reactor containment vessel, and serves as a hub of decommissioning research by TEPCO  
Naraha town

**Energy**  
Demonstrative and research project of Offshore Floating Wind farm technology  
Operations are in progress to verify the safety, reliability, and economic efficiency of floating offshore wind farm systems. The aim is to build a R&D hub, and cluster the wind power industry.  
Place: Offshore of Hirano and Naraha area  
Status: [1st stage] 2MW system operating since Nov 2013  
[2nd stage] 7MW system operating since Dec 2015  
[2nd stage] 5MW system to start in July 2016

**Aizu University Revitalization Support Centre**  
ICT

The prefecture is making efforts to help clustering and foster human resources for businesses that are using ICT to promote regional industry. The support center is part of plans to install an R&D hub that will lead to cutting-edge ICT research, and the creation of new ICT industries.

Place: Aizuwakamatsu City (Aizu University)



**Fukushima Prefecture**  
○ Capital : Fukushima City  
○ Population : 1,884,646 (July 2017)  
○ Area : \*13,783km<sup>2</sup>  
(\*Evacuation designated zones: 371km<sup>2</sup>)

**Fukushima Prefectural Government**  
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**Fukushima Revitalization Station**  
- Portal site of revitalization progress -  
<http://www.pref.fukushima.lg.jp/site/portal-english/>

2020年。Thank you World. 東京と東北で会いましょう。