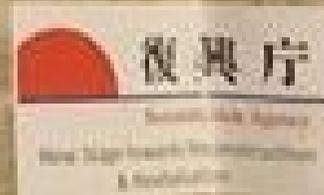


Eliminating Negative Reputation Impact

~ Reconstruction from Nuclear Disaster &
the History of Safety and Revitalization of Fukushima ~

March, 2019



Status of the Areas under Evacuation Order in Fukushima

- Dimension of areas under evacuation order is about 2.7% of the whole prefecture.
- People in 97.3% of the prefecture can live a normal life.



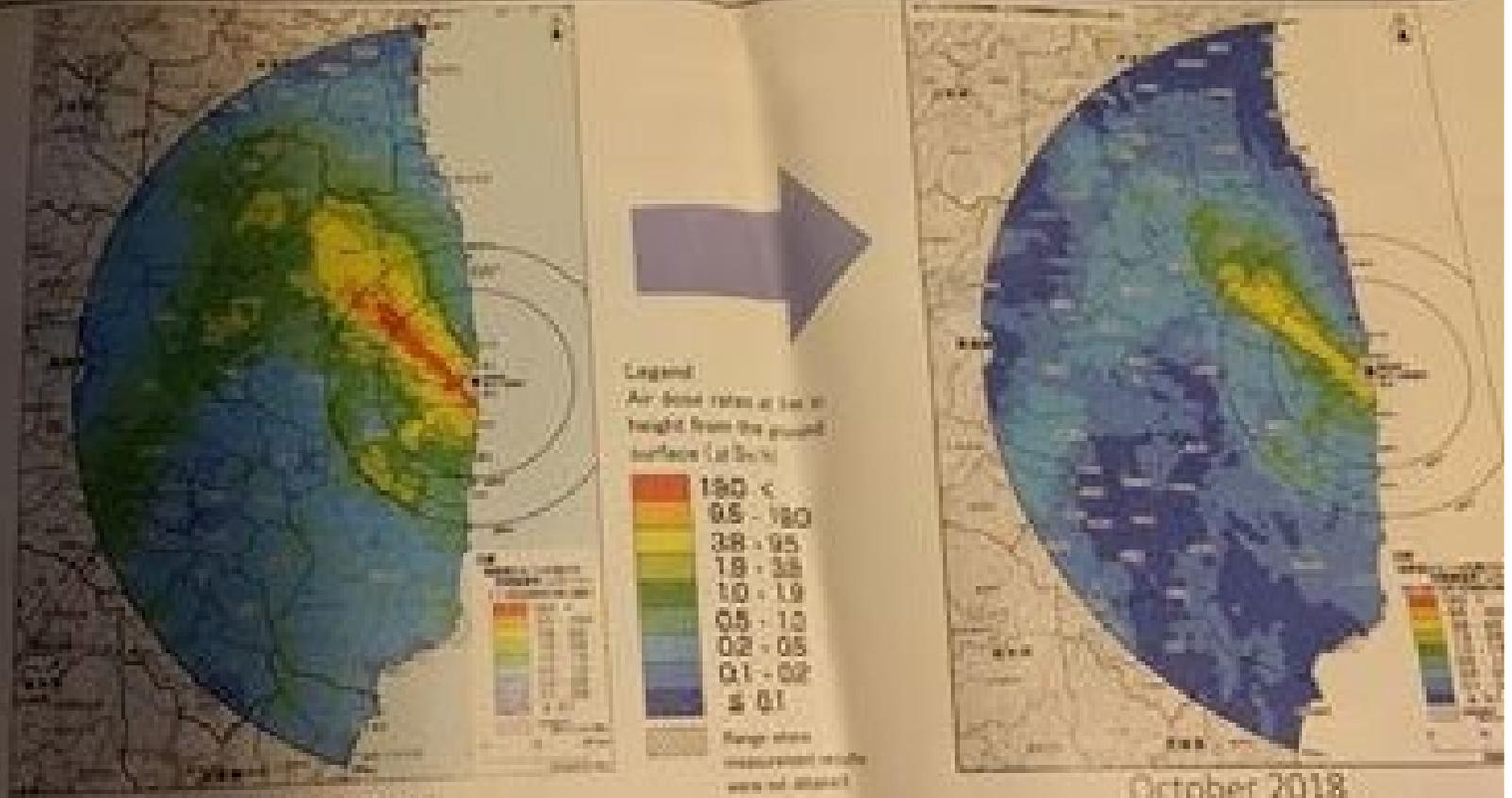
Approx. 166km

Approx. 133km

TEPCO Fukushima Daiichi Nuclear Power Station

Changes in Air Dose Rate

① The average air dose rate at 1m in height from the ground surface at a distance within 80km from TEPCO Fukushima Daiichi Nuclear Power Station decreased by about 77%* compared to levels in November 2011.



November 2011

October 2018

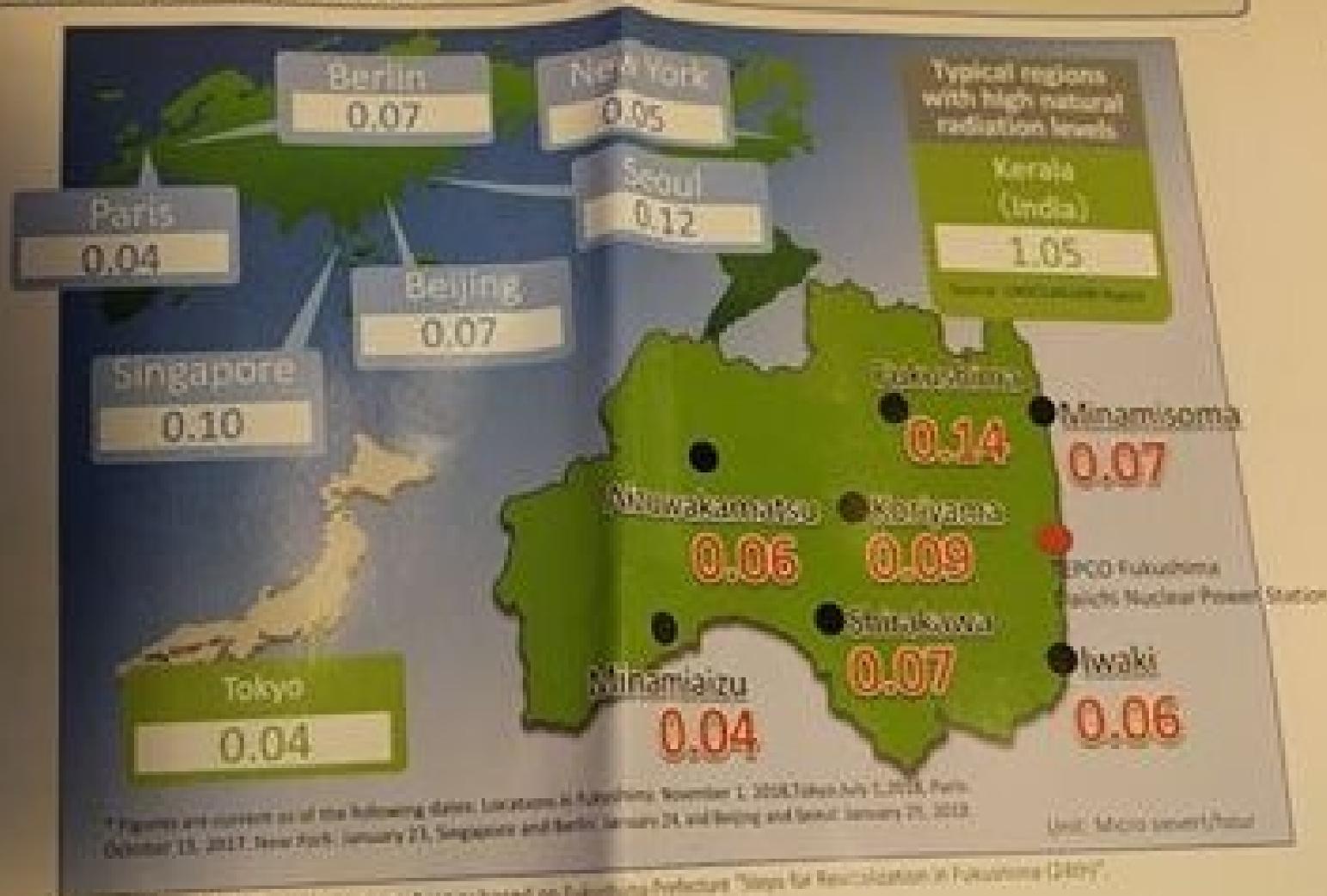
*The target area is divided into 250-m grid meshes and the value is calculated from the ratio of the measurement results in the central point of each grid mesh. The rate of reduction may differ when other comparative methods are used.

Source: Nuclear Regulation Authority, "Measurements of Radiation Monitoring by Aircraft in Fukushima Prefecture and Ibaraki Prefecture"

Most recent data into radioactivity for air

Current State of Air Dose Rates within Fukushima

○ The air dose rate of major cities in Fukushima Prefecture is about the same level as other major cities overseas.



Safety of Food in Fukushima Prefecture

- Announcement of results of thorough monitoring of agriculture, forestry, and fishery products prior to shipment.
- Very few foods have exceeded the standard limit (100 Bq/kg).
- No rice has exceeded the standard limit since the 2015 harvest.
- Necessary measures are in place to ensure that foods are not distributed in the market if found to have exceeded the standard limit.

◆ Testing of all rice produced (August 21, 2018 to October 24, 2018)

Product	Total No. Samples	No. of samples exceeding standard limit	Percentage of samples exceeding standard limit
Brown rice (harvested 2018)	All bags of rice produced	0	0.00%

◆ State of monitoring by Fukushima Prefecture of agricultural, forestry and fishery products (April 1, 2018 to October 9, 2018)

Category	Total No. Samples	No. of samples exceeding standard limit	Percentage of samples exceeding standard limit
Vegetables & Fruits	2,051	0	0.00%
Livestock products	2,531	0	0.00%
Cultivated edible plants & Mushrooms	699	0	0.00%
Marine Fishery products	3,422	0	0.00%
Inner water-cultivated fish	34	0	0.00%
Wild edible plants & Mushrooms	683	1	0.15%
Others	724	3	0.41%

IAEA* recognized the efforts of Japan in monitoring food products to ensure food safety.
 (Based on IAEA's response to the report submitted by Japan in June 2018)

Based on information available to date, the Joint FAO/IAEA Division understands that the measures to monitor and respond to issues regarding the radionuclide contamination of food are appropriate, and that the food supply chain is controlled effectively by the relevant authorities.

* IAEA - International Atomic Energy Agency
 Source: Created by the Reconstruction Agency
 Based on Fukushima Prefecture "Status for Revitalization in Fukushima (2018)"

Standards for Radioactive Contamination of Food

Japan has the world's strictest level of standards for managing radioactive contamination of food. Foods exceeding the standards are not allowed to be distributed.

	Japan Food Sanitation Act	Codex (CAC) ¹ CODEX STAN 193-1995	EU Council Regulation (Euratom) 2014/52	USA Guidance Levels for Radionuclides in Domestic and Imported Foods (DPST-18-14)
Derived intervention levels (DIL) for radioactive cesium (unit: Bq/kg) ^{2,3}	Drinking water 10 Milk 50 Infant foods 50 General foods 100	Infant foods 1,000 Other foods 1,000	Liquid food (Drinking water) 1,000 Dairy products/milk 1,000 Infant food 400 Other food 1,250 except minor food	Food 1,200
Upper limit for radiation dosage from food per year ⁴	1mSv	1mSv	1mSv	5mSv
Assumption on the proportion of food supply that is contaminated with radiation per year ⁵	50%	10%	10%	30%

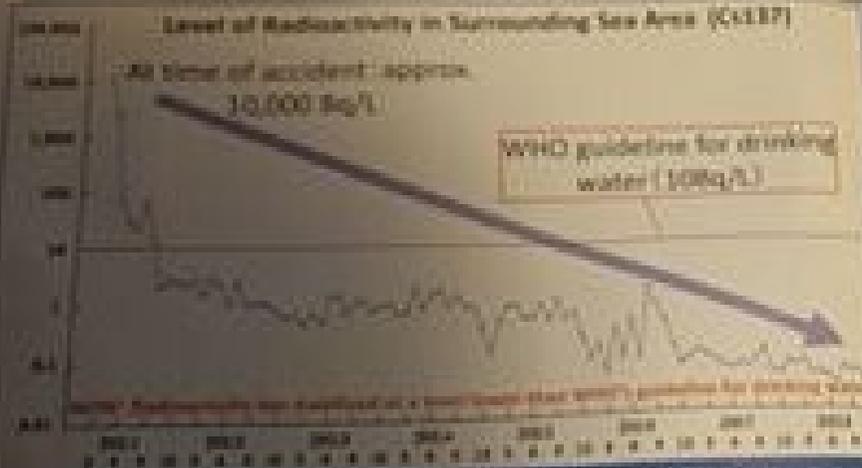
- The DILs shown are the upper limits allowed for food to be distributed in the supply chain. They are set for emergency purposes and are not standards for determining whether food is safe or not for consumption. As different countries assume different proportions of their food supply is contaminated with radiation during consumption, these numbers by themselves are not comparable.
- While the Codex Alimentarius Commission (CAC) has adopted a higher DIL of 100 Bq/kg for infant foods with upper limit for radiation dosage from food, Japan used the assumption that a higher ratio of foodstuff could be contaminated with radiation, resulting in the lower value for DIL.
- The CAC was jointly set up by the Food and Agricultural Organization of the United Nations (FAO) and the World Health Organization (WHO) in 1963. The CAC examines the Codex Alimentarius, a set of international standards for food, to protect consumer health and to promote fair international food trade. As of August 2018, member states of CAC include 188 nations and the EU.

Current State of the TEPCO Fukushima Daiichi Nuclear Power Plant (NPS)

- With several measures in place, the impact on the surrounding environment has been greatly reduced. Improvements have also been made to the working conditions, e.g. Workers can work wearing general protective gear.
- The current conditions of the power plant is stable and the likelihood of a breakdown or accident is kept at the lowest possible level. Measures are in place to handle such incidents if they ever occur.

Reducing the Impact on Surrounding Environment

Improvements in Radioactivity in the Surrounding Sea Area



Measures such as the sea area improvement work (sea grasses) are in place to prevent "leakage" of contaminated water. TEPCO comments that these measures contribute to the reduction of the leakage to the public and the environment.

Radiation Dose Rate Control

- Monitoring points set up at the boundaries of the site record radiation levels constantly.
- The additional effective dose from the whole facility on the site is maintained to be less than the regulatory limit, 1mSv/year (measured at the site boundary).

Improvements in Working Conditions

Measures can be assessed in general work clothes

- With decontamination etc., workers can work wearing general work clothes instead of protective gear at **96%** of the working site.
- The site currently receives many visitors and the need for protective gear has been greatly reduced.



Provision of Warm Food Onsite



- Since Aug 2015, workers are able to enjoy warm food at the large scale resting area onsite.

*Videos and photos are from TEPCO

For more details, search for

MEP Fukushima Daiichi

Search

