

**After the great earthquake and tsunami in eastern Japan, the NPP(Fukushima-Daiichi) was severely damaged and a significant amount of radioactive material was released to the environment. (*Industrial Crisis and Environmental Damage*)**

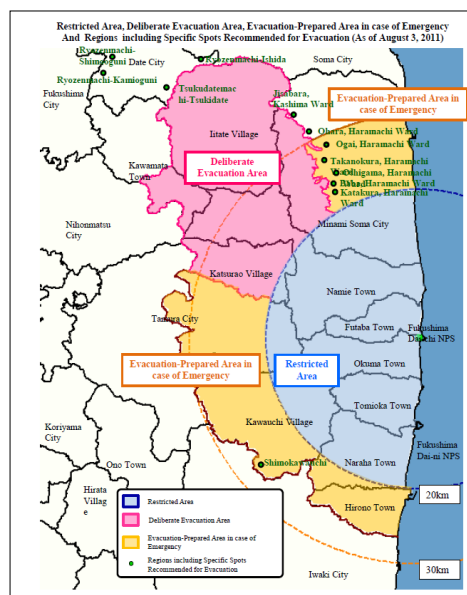
**In order to limit and reduce the exposures, countermeasures including [evacuation](#) from surrounding area, [sheltering](#), [restrictions on consumption](#) of water and certain food products were taken by the government.**

**With regard to the workers, operational staff and emergency response personnel were exposed to certain levels of radiation in managing the emergency situation.**

**Since there has been much concern about the levels of exposure and effects both on general public and workers, we are prepared to collect and offer further information to the world.**

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## Evacuation Status of Residents in Fukushima



**Number of evacuees from designated evacuation areas:**

- **Restricted Area:**  
about 77,000
- **Deliberate Evacuation Area:**  
about 10,000
- **Evacuation-Prepared Area:**  
about 26,000

**Total: about 113,000**

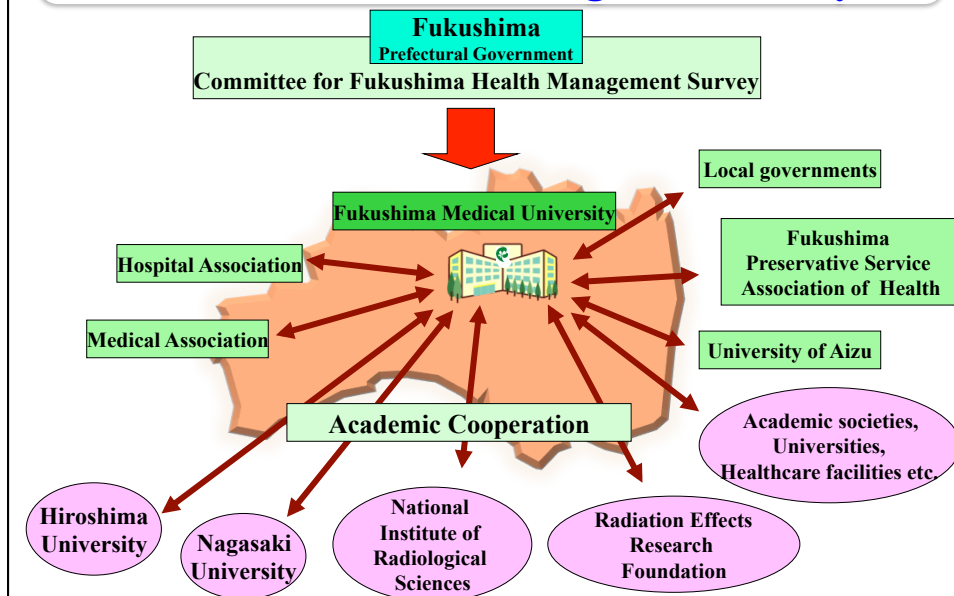
**(Source: Cabinet Office, Feb 2012)**

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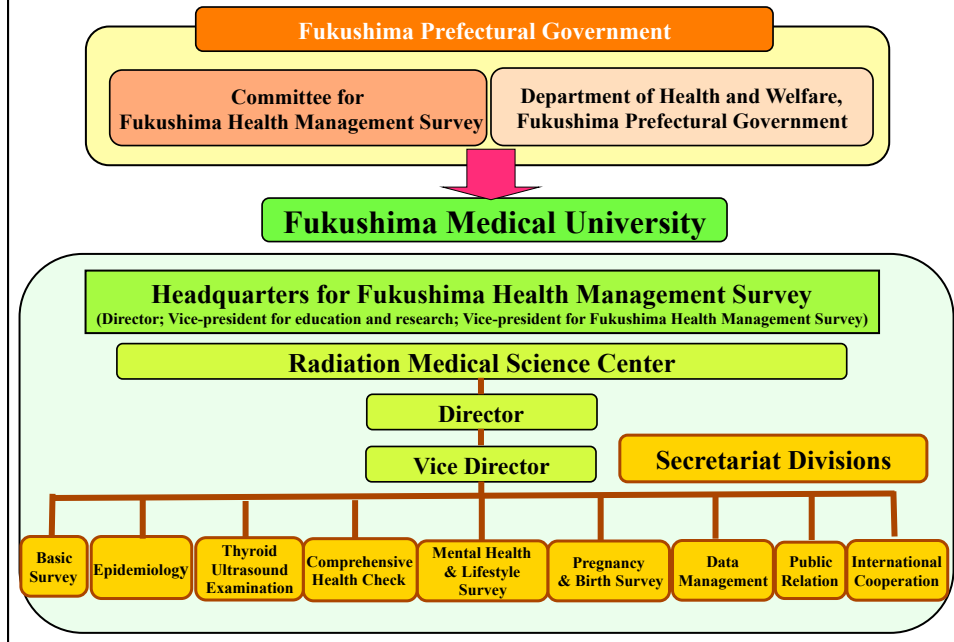
## Three targets of our work

Object	Situation	Contents
Plant workers	High risk in radiation exposure & contamination, accident	Radiation Emergency Medicine
Emergency responder	High risk in radiation exposure & contamination	Consultation clinic for mental, physical, radiation
Residents	Chronic low dose exposure, stress/ fear,	education/ communication/ information

## Collaborative Organizations for Fukushima Health Management Survey



## Organization for Fukushima Health Management Survey



## Fukushima Health Management Survey May 2011

### Objectives:

- To monitor long-term health condition of resident in Fukushima and to promote their health
- To investigate whether a long-term low-dose radiation exposure has an effect on their health

### Contents:

1. Basic survey (subjects: 2 million all resident in Fukushima)
2. Detailed survey
  - Thyroid examination by ultrasonography (360,000; 0-18 y/o)
  - Comprehensive medical checkups (210,000 ; Evacuees)
  - Mental health and lifestyle survey (210,000 ; Evacuees)
  - Survey on pregnant women and nursing mothers (16,000)

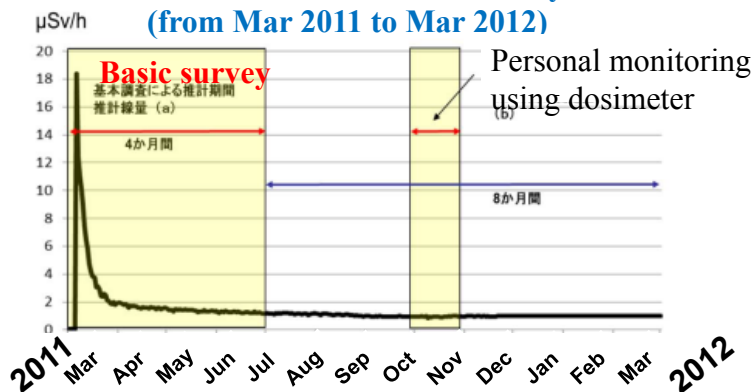
## Cumulative external dose at early phase

- Estimated External Dose from 11 Mar to 11 July 2011

Annual estimation dose = (a)first 4 M + (b)remained 8 M

**Basic survey**

Air dose rate in Fukushima city  
(from Mar 2011 to Mar 2012)



### Basic Survey

Estimation of individual radiation dose as baseline data for the long-term health

Fukushima Health Management Survey

Survey Questionnaire (Record of movements)

**Study period:** 11 March 2011 – 11 July 2011 (four months)

**Target population:**

-Residents of Fukushima officially registered between 11 March and 11 July 2011

-Residents of other prefectures who stayed, worked or studied in Fukushima between 11 March and 11 July 2011 (upon request)

-Visitors to Fukushima between 11 and 25 March 2011 (upon request)

**Target area:**

Preceding Survey: Yamakiya; Namie; and Iitate (29,000 people)

Full-scale Survey: Rest of Fukushima

	Whereabouts	Time												Place / Facility
		0	3	6	9	12	15	18	21	24				
March 11 (Fri)	Indoors													① Home
	Moving													② Place of employment
	Outdoors													③ Evacuation center (District community center) (C)
March 12 (Sat)	Indoors													④ District community center car park
	Moving													⑤ Car
	Outdoors													⑥ Evacuation center (oo City gymnasium) (C)
March 13 (Sun)	Indoors													⑦ Temporarily returned home (Caring for pets, etc.)
	Moving													
	Outdoors													
March 14 (Mon)	Indoors													⑧ Place of employment oo Company, Ltd. 60, oeho, oo City
	Moving													
	Outdoors													
March 15 (Tue)	Indoors													⑨ City, oo Prefecture
	Moving													
	Outdoors													

Individual external exposure was estimated using the for external exposure dose assessment developed by the National Institute of Radiological Sciences.