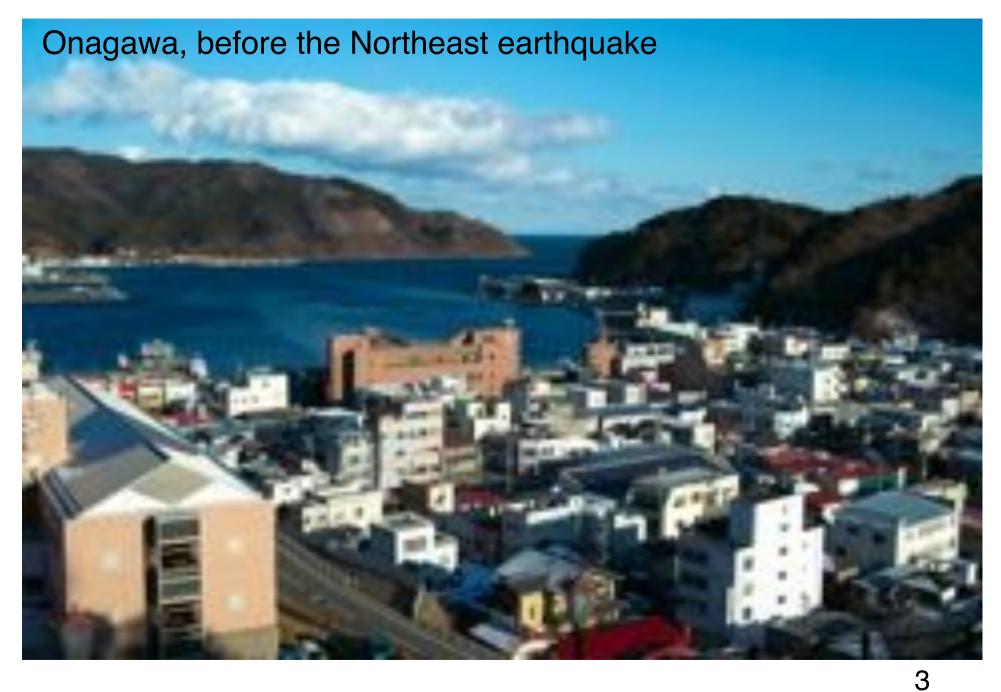
Preventing asbestos exposures in the Northeast Japan tsunami disaster areas

Naoki Toyama Tokyo Occupational Safety and Health Center (NGO) Tokyo, Japan

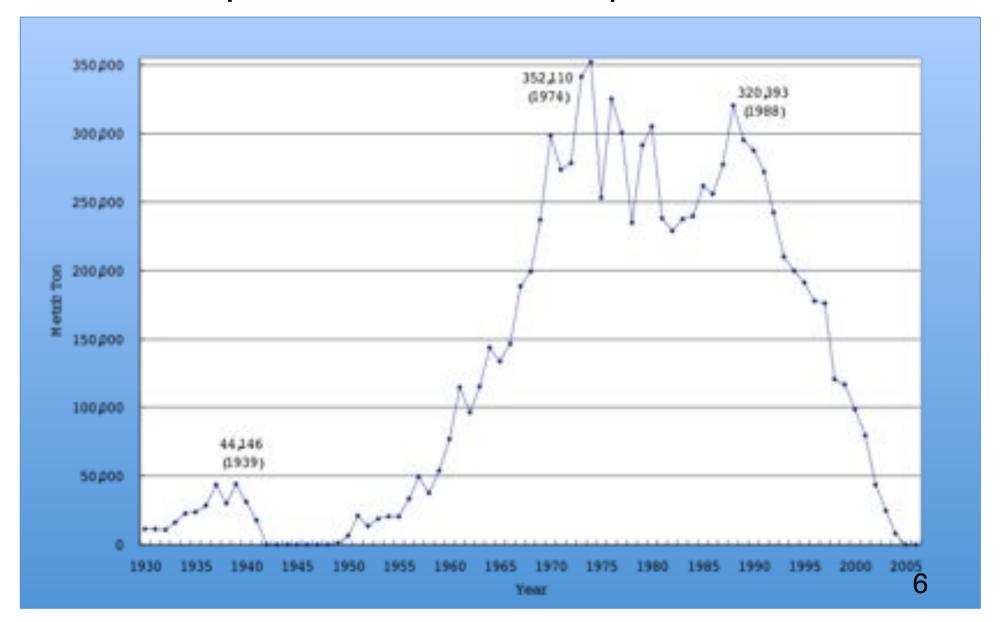




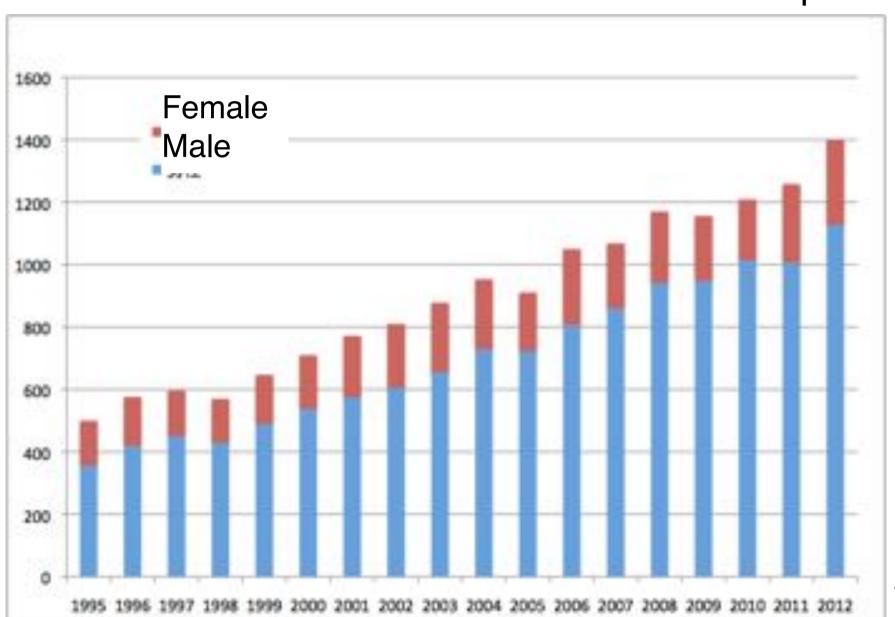




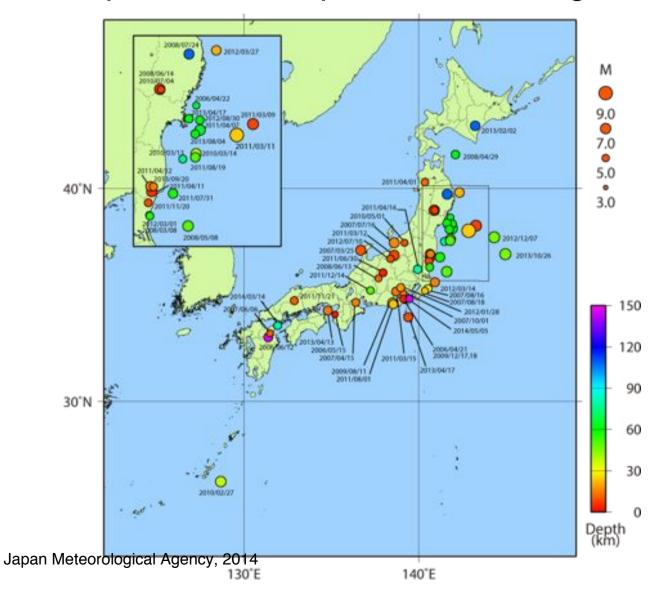
Trend of imported asbestos of Japan



Transition of the death toll of mesothelioma in Japan



Large earthquakes in 2006-2014 the earthquake with the personal suffering: 57 times.



1995 Kobe Earthquake
Poor asbestos control
Three mesothelioma victims (2013)
→1995 The Air Pollution Control Act revised

2005 Kubota Shock

Jun. Five mesothelioma victimes

Jun 2005





1995 Kobe Earthquake
Poor asbestos prevention
Three mesothelioma victims (workers)

2005 Kubota Shock Jun. Five mesothelioma victimes (residents)

Nov. 85 mesothelioma victimes

Mesothelioma Residents around KUBOTA Nov. 2011

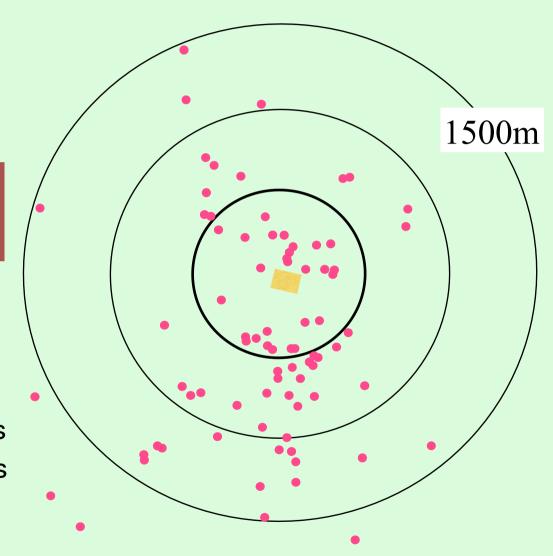
85 mesothelioma victimes

Living: 12.6 [1.5-18.5] years

Latency: 41.0[23-48] years

Die:58.2[26-87]age

Kurumatani (2005.11.23)



1995 Kobe Earthquake
Poor asbestos prevention
Three mesothelioma victims (workers)

2005 Kubota Shock

Jun. Five mesothelioma victimes (residents)

Nov. 85 mesothelioma victimes

266 mesothelioma and cancer victimes

REAL asbestos control was started

2005 the Ordinance on Prevention of Asbestos Hazards

2011 Northeast Earthquake

ISHINOMAKI Project

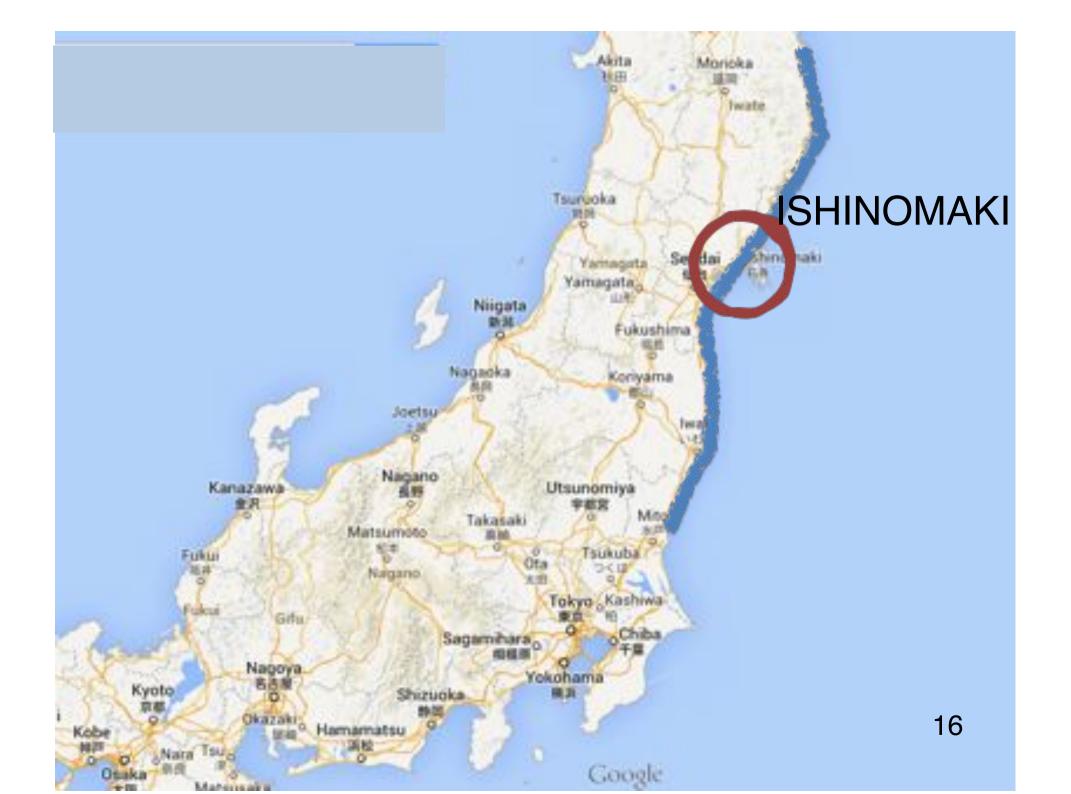


Volunteers from residents, NGOs, Students, Citizen groups and asbestos victims group.

Purpose

- comprehend conditions of asbestos containing materials (ACM) in the disaster struck regions and assess the results;
- 2) propose and implement countermeasures for preventing asbestos exposures.

In Ishinomaki-city







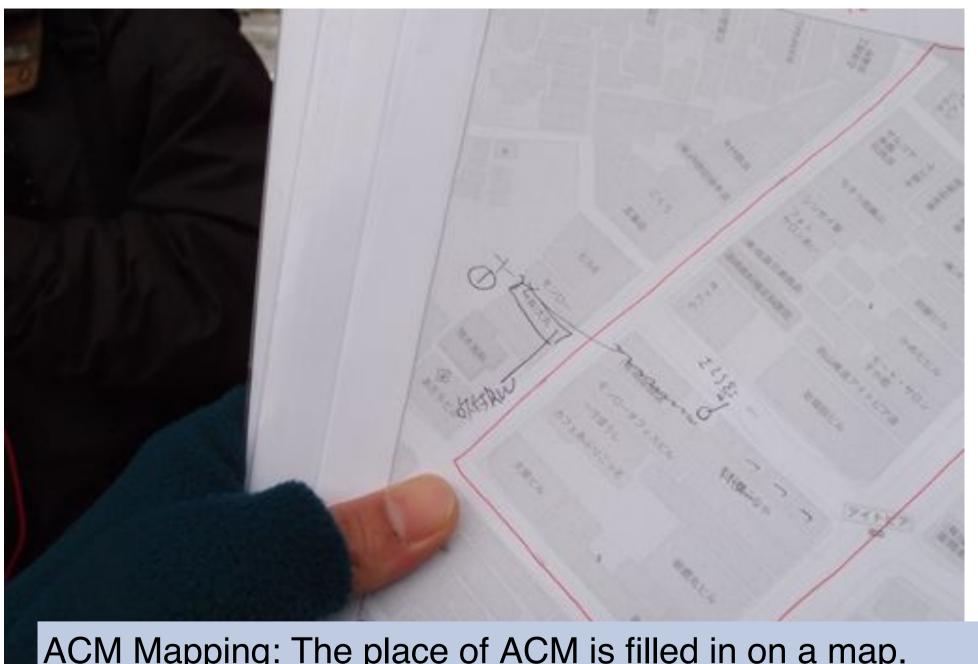
Methods

- 1) identifying asbestos containing materials by ACM mapping by voluntary action,
- 2) interview with workers, residents and public service officers, and
- 3) measurement of airborne asbestos concentrations.









ACM Mapping: The place of ACM is filled in on a map.

14 buildings have a spraying material

140 buildings have corrugated slate boards

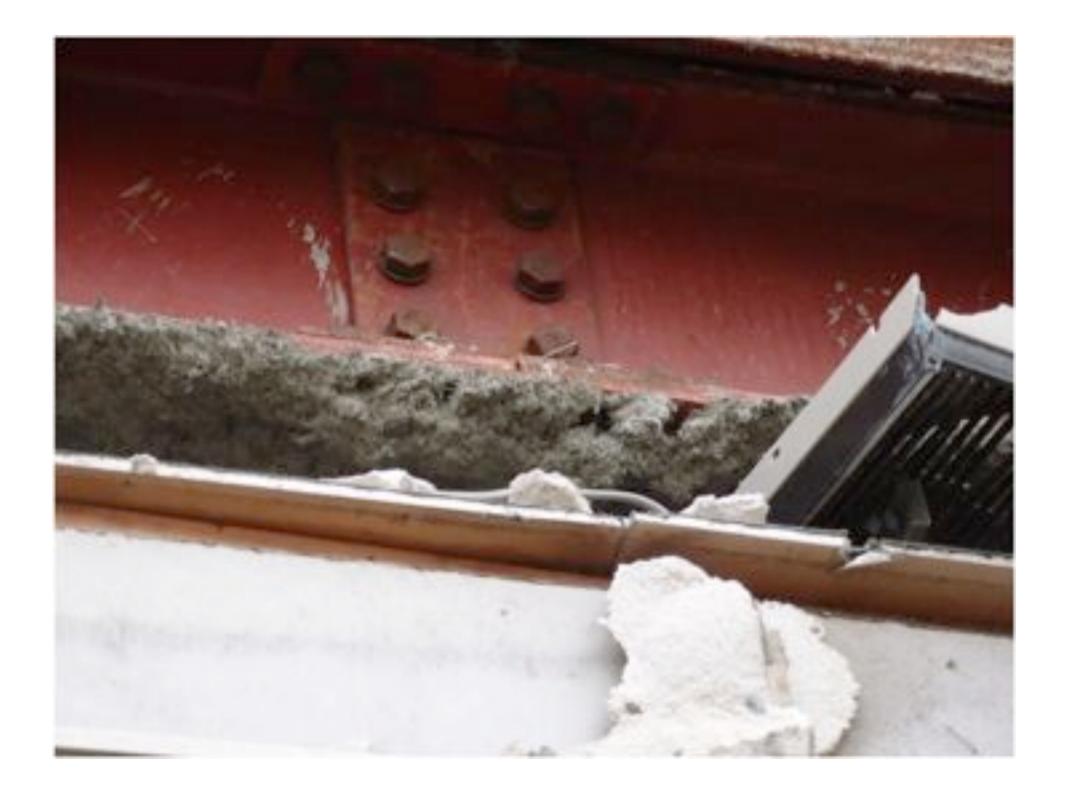






The results of mapping on Google map

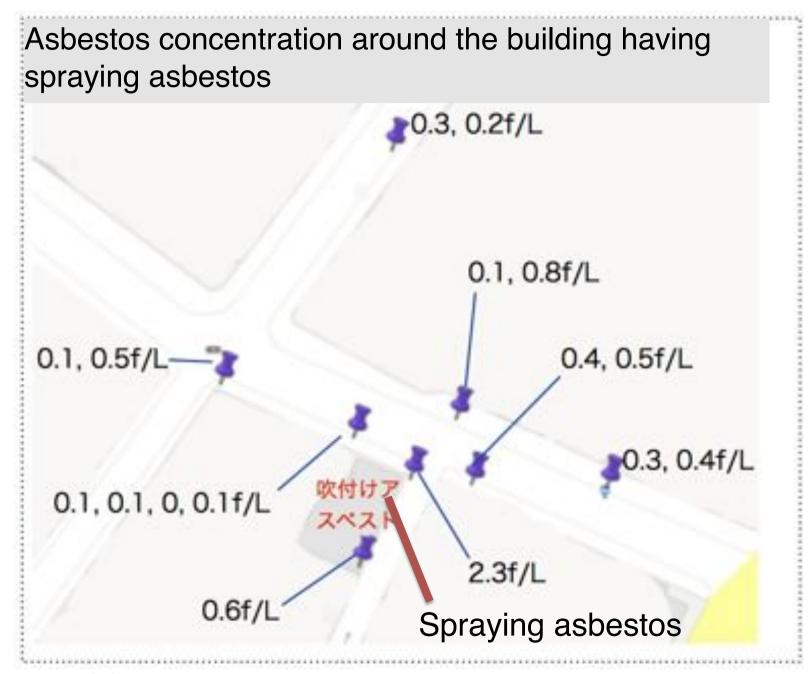








concentration



As risk communication

We have organized feedback meetings for the local people distributing leaflets and posters, provided training courses to learn means of identifying and treating ACM and the use of respirators.





May 20, 2012 Meeting in Ishinomaki 60 participants gathered

33

Jan 18, 2013 Meeting in disaster emergency makeshift house

10 participants gathered



Results

1) the features of asbestos risk in the disaster regions were disclosed and reflected in the revised regulations,



















Results

- 1) the features of asbestos risk in the disaster regions were disclosed and reflected in the revised regulations,
- training courses for workers working at construction demolition sites were provided in cooperation with a local government,



Results

2) training courses for workers

Local government of Ishinomaki, provided training courses of asbestos protection for workers and we support the training to send a trainers. 450 workers learned in the training courses.



Results

- 1) the features of asbestos risk in the disaster regions were disclosed and reflected in the revised regulations,
- 2) training courses for workers working at construction demolition sites were provided in cooperation with a local government, and
- 3) good practices of prevention of asbestos exposures were observed and expanded.











Conclusion

- Asbestos concentration in the general environment was low,
- Accidents and leaking asbestos on removal sites of spray-on asbestos were observed,

The results of airborne asbestos concentration investigations in asbestos removal sites by the Ministry of Health, Labour and Welfare

	Fisical Young	Nur 16.3° An sites An easrued	nber of sites which asbestos leaked
Asb	2011	22	4
	2012	38	4
	2013	20	5
	計	80	13
			ΕΛ

Conclusion

- Asbestos concentration in the general environment was low,
- Accidents and leaking asbestos on removal sites of spray-on asbestos were observed,
- 3) regulations for non-friable ACM was ignored on almost of construction demolition sites,
- 4) Asbestos mapping before disasters is necessary in Japan.