

# Disaster Prevention & Risk Management in Fukuoka City



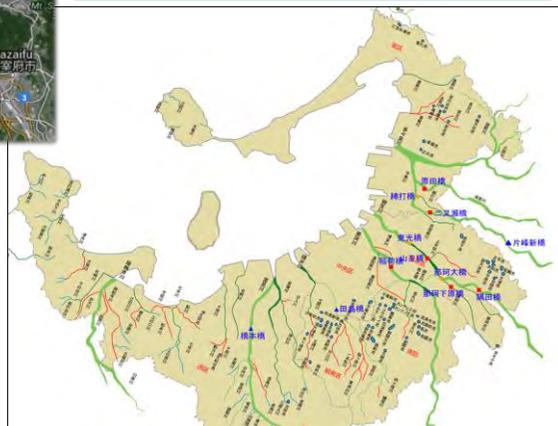
16 Nov. 2015



## 1 Geography of Fukuoka City



- Area 341.70km<sup>2</sup>
- Width 27.6km, Length 31.9km
- Population 1.5 million
- Average Temperature 17.5°C
- Rainfall/Year 1,610mm  
(Average of the last 10 years)



## 2 Major Disasters in Fukuoka City

### Flood in and around Hakata Subway Station (29 Jun. 1999)



In front of the station



In the station  
Damage



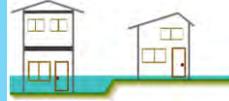
East side of the station

1 dead, 1 injured

1,019

2,154

81

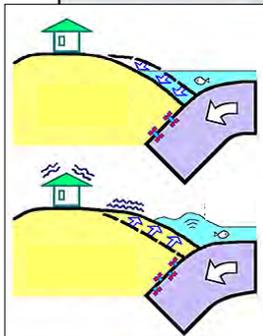
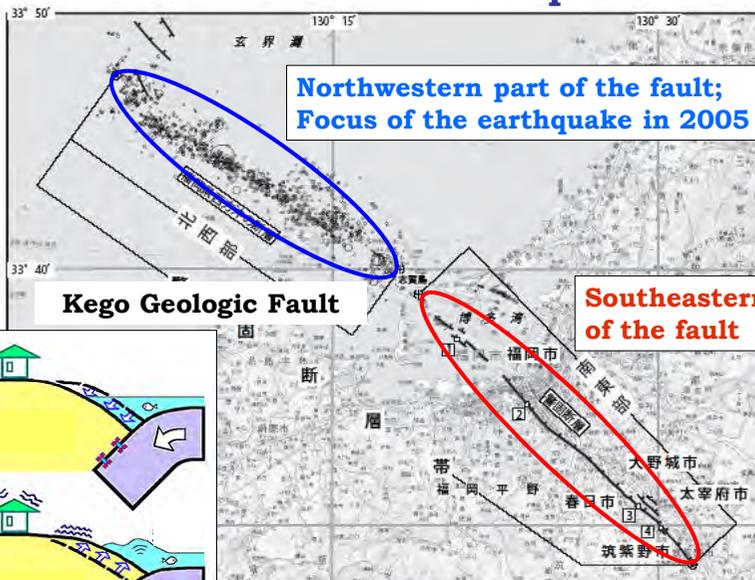


above / below  
the floorboards



underground  
facilities

## 2005 Fukuoka Earthquake



### Damage in 2 islands



#### Damage

**10 serious wounds, 9 slight wounds**

**107 houses completely destroyed**  
**47 houses partially destroyed**  
**61 houses had some damage**

### 2 Our effort from lessons learnt

#### Water Stop Board around Hakata Subway Station





### Disaster Response Support System

**Shelter**

**Flood!!**

**Person needs help**

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### Rainwater Adjusting System

**Rainwater Adjusting Pond ;**  
**13,000m<sup>3</sup>**  
(Normally used as baseball ground)

**Underground Reservoir ;**  
**15,000m<sup>3</sup>**

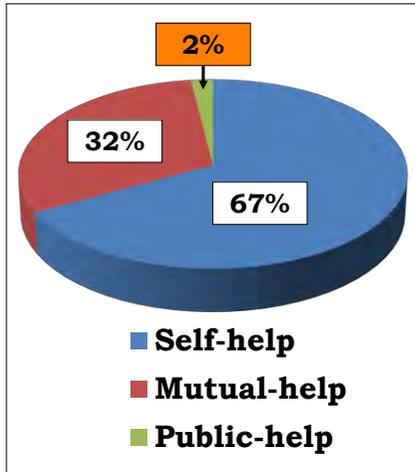
**Pumping Plant**

**Huge pipe**



## Bringing up safety leaders

After the big earthquake around Osaka in 1995,  
164,000 people were shut in broken houses.



### Community groups



### Safety leaders



## Disaster prevention posture

