

Support with the Formulation of  
a Comprehensive Plan for Public Transport

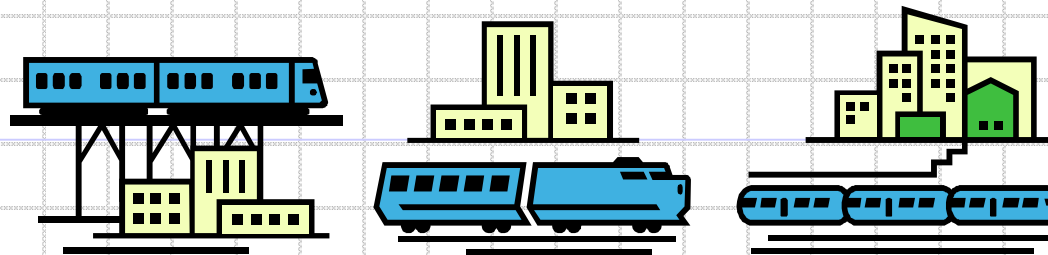
東京都の中量輸送都市交通システムについて

*July 14, 2011*

Bureau of Urban development  
Tokyo Metropolitan Government

# Case with Tokyo (pref)

- ① Yurikamome Line
- ② Tama Intercity monorail Line
- ③ Nippori-Toneri Liner



# New Transit and Monorail in Tokyo(Pref) Area.

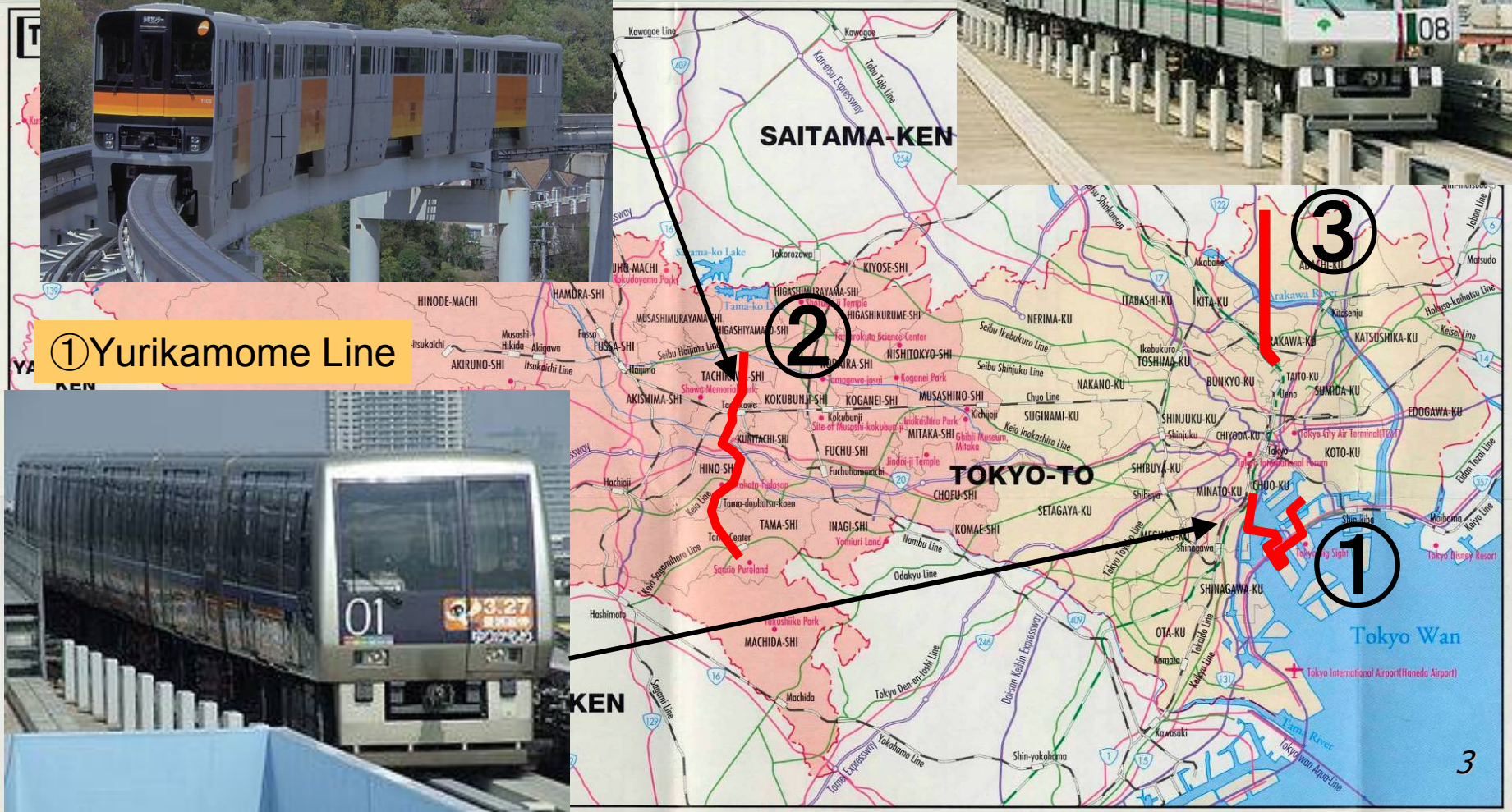
② Tama Intercity monorail Line



① Yurikamome Line



③ Nippori-Toneri Liner



# Yurikamome

## 【Objectives】

- To form a transit network in Tokyo's waterfront area
- To promote development of areas along the line

## 【Outline of route】

- Shimbashi ⇔ Toyosu, 14.7km, 16 stations
- No. of passengers:  
Approx. 100,000 per day (in 2010)



Rinkai Fukutoshin



# Development Rinkai Fukutoshin (Waterfront Area)

Before



After



# Development Rinkai Fukutoshin (Waterfront Area)



# Development Waterfront Area



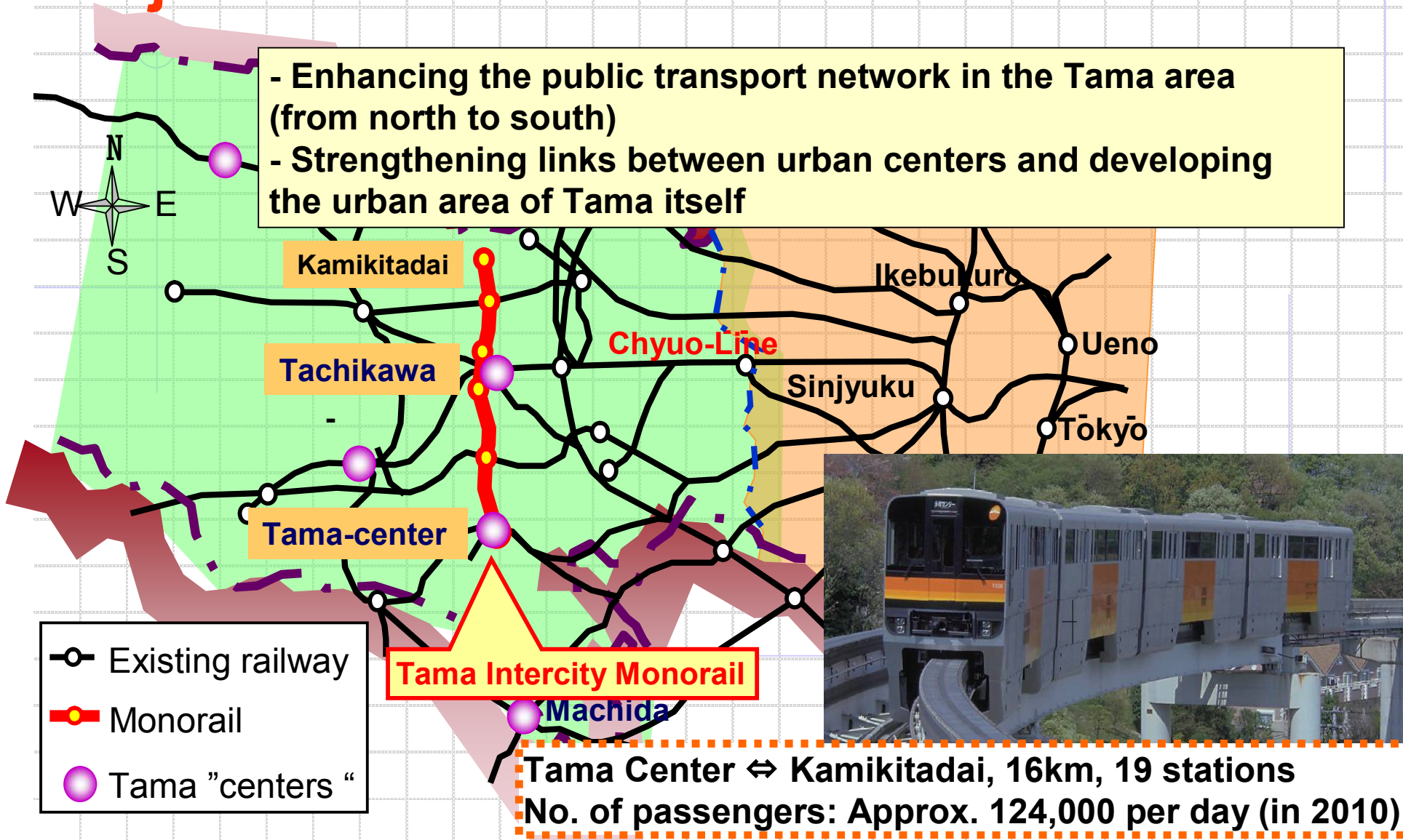
# Development Rinkai Fukutoshin (Waterfront Area)





# Outline of Tama Intercity Monorail Objectives and Plans

- Enhancing the public transport network in the Tama area (from north to south)
- Strengthening links between urban centers and developing the urban area of Tama itself



# Situation along Tama Intercity Monorail

**Vacant land of former USAF Tachikawa Air Base**  
Area: approx. 466 ha

**Land readjustment project**  
Area: approx. 173.6 ha

**Tama Zoological Park**  
Site area: approx. 52.3 ha

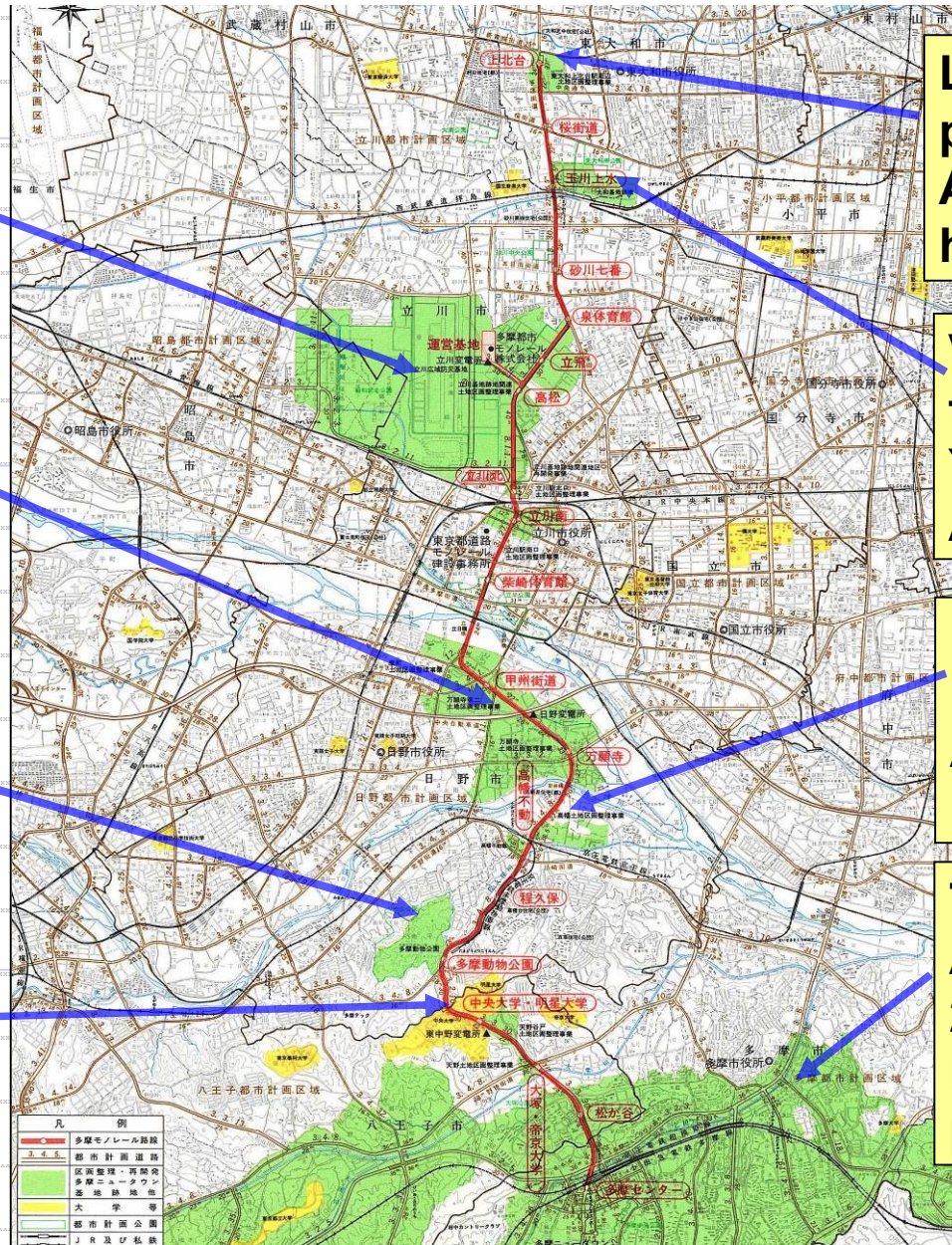
**Chuo University**  
Site area: approx. 51.8 ha

**Land readjustment project**  
Area: approx. 19.7 ha

**Vacant land of former USAF Yamato Air Base**  
Area: approx. 34 ha

**Land readjustment project**  
Area: approx. 16.8 ha

**Tama New Town**  
Area: approx. 2,892.1 ha  
Planned population: 340,000



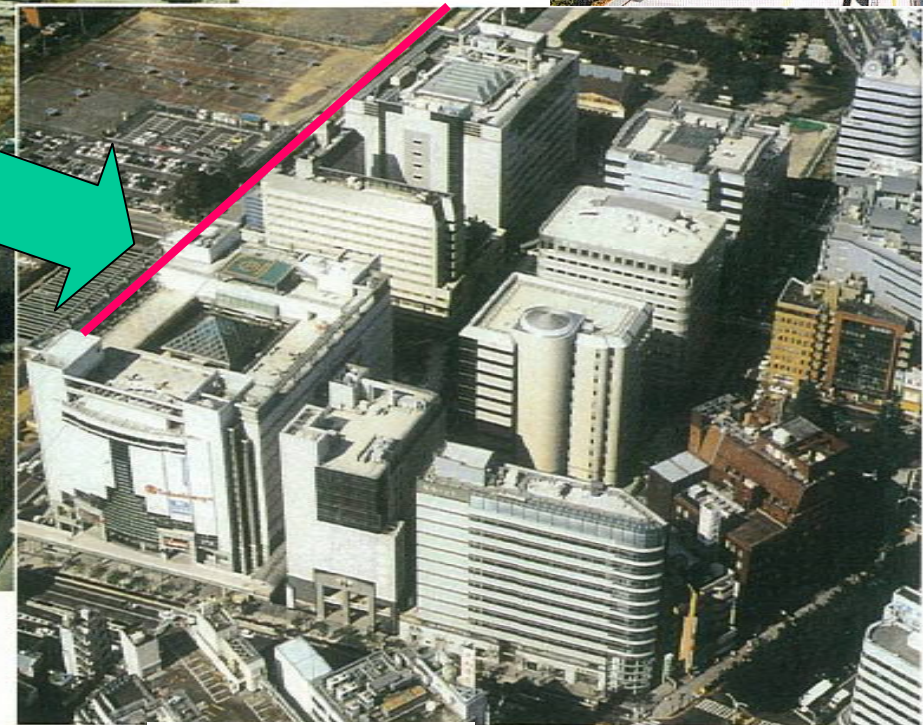
# Development Tachikawa St



Tama Intercity Monorail Line



Before

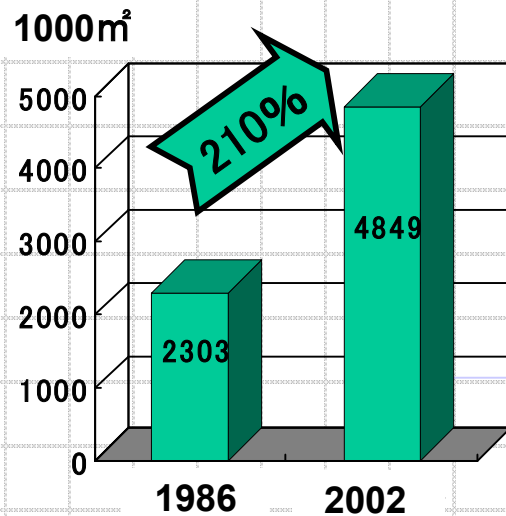


After

# Results of Tama Toshin Monorail Construction

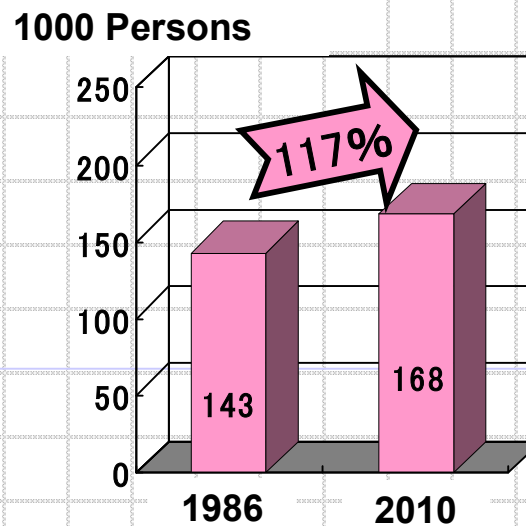
**Intensive use of land**

Change in total floor area of apartments  
(Total in 6 cities along line)



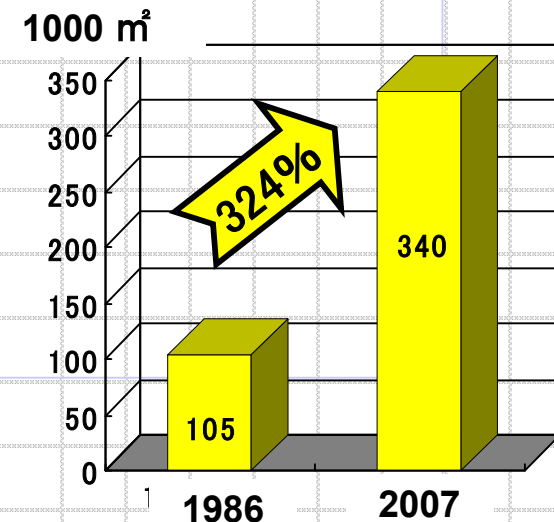
**Night-time population along line**

Night-time population along line  
Change in night-time population along line



**Revitalization of commerce**

Change in sales floor area of large-scale retailers around Tachikawa Station



# Nippori-Toneri Liner

## 【Objectives】

To eliminate inconvenience in transport-disadvantaged area in the north-eastern Wards area  
To promote development of areas along the line

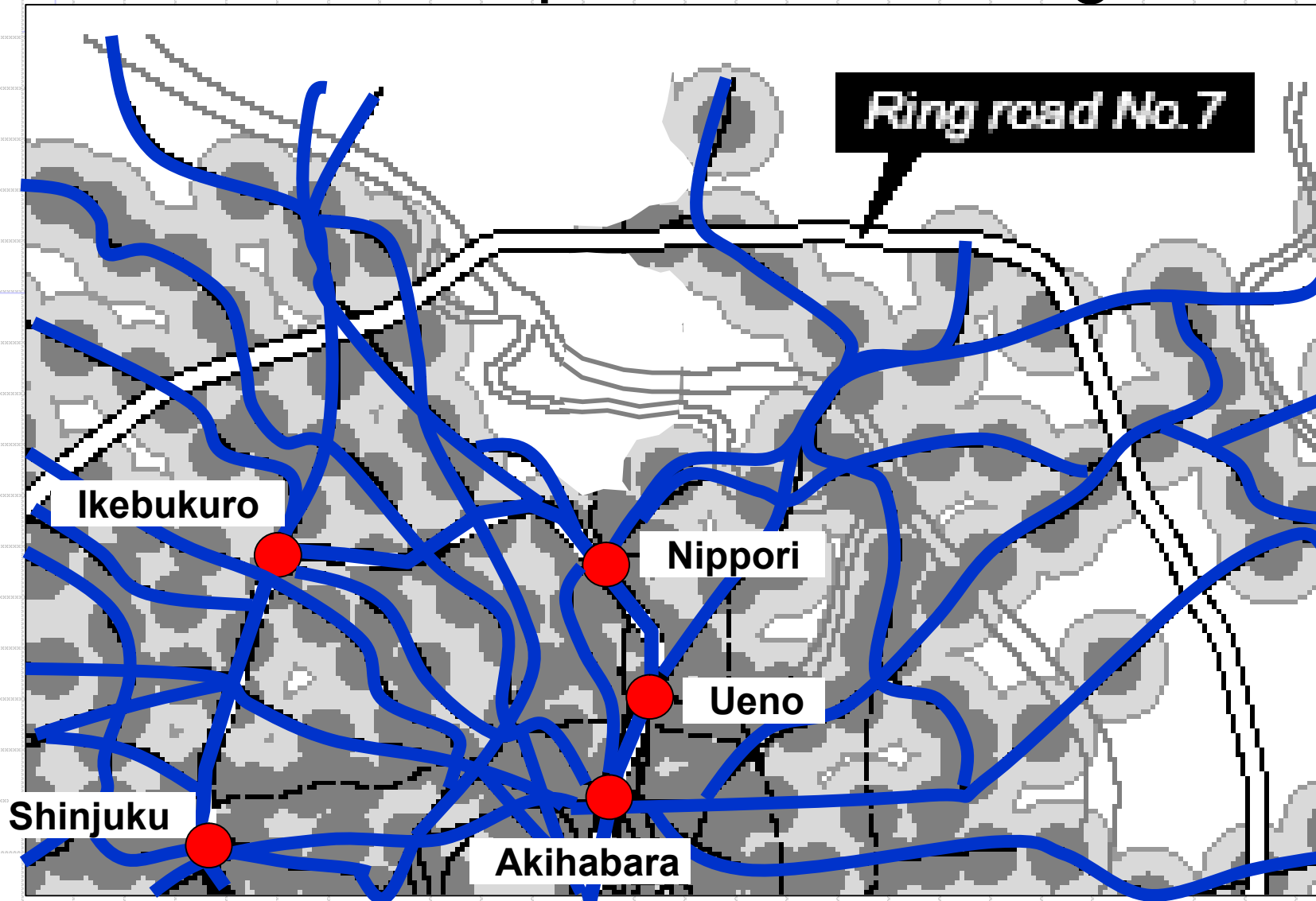
## 【Outline of route】

Nippori <-> Minumadaishinsui Park Station, 9.7km, 13 stations

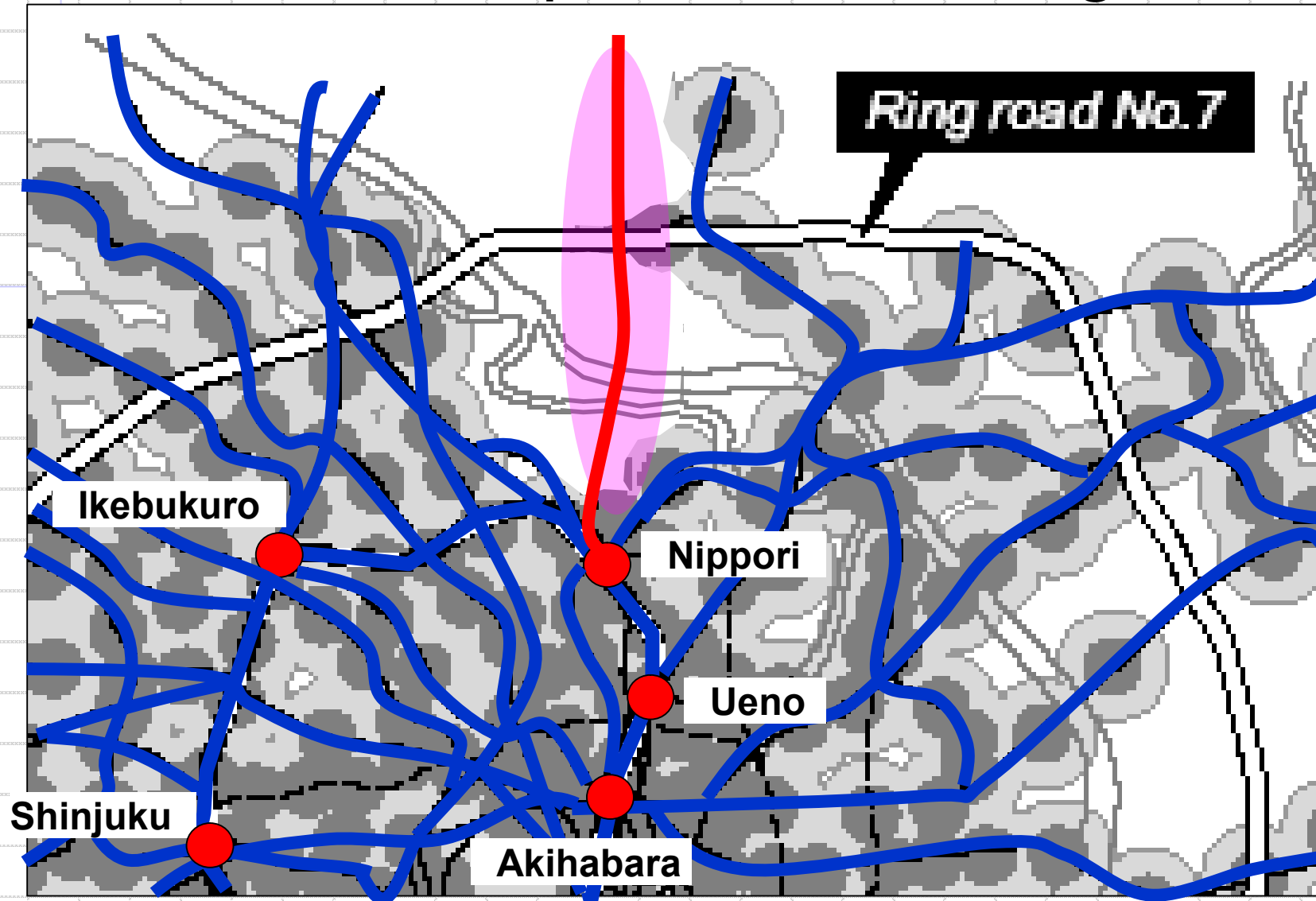
No. of passengers: Approx. 59,000 per day (in 2010)



# Elimination of Inconvenience in Transport Disadvantaged Area



# Elimination of Inconvenience in Transport Disadvantaged Area

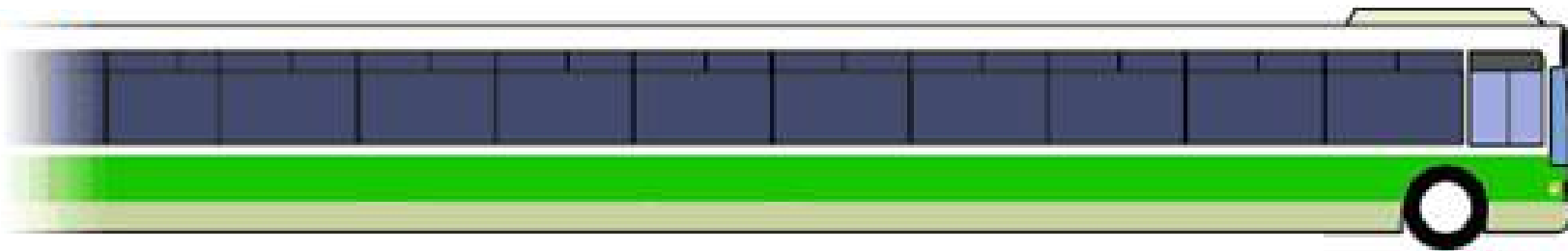


# Effect of Development

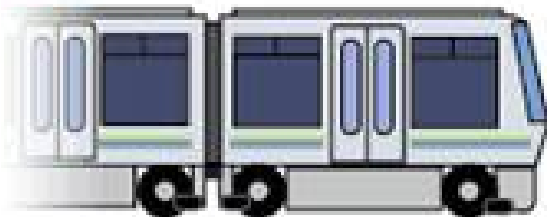
## Time shortening

Before

Toneri District <-> Nippori Station required travel time



After



Approx. 60 minutes  
(during rush-hour)

Approx. 20 minutes

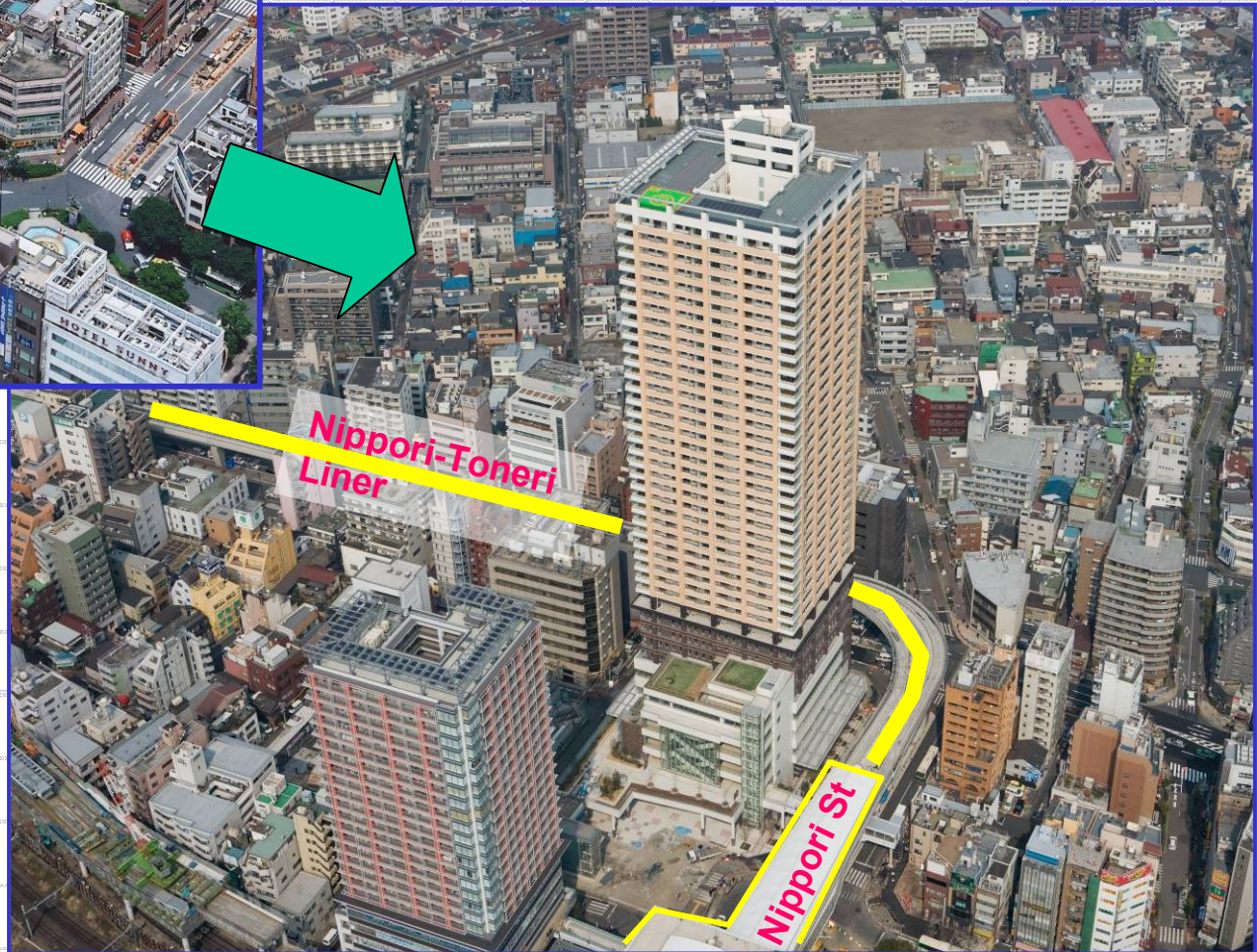


# Development Nippori St



Before

After





# The Effort to Improve Public Transportation Service in the future

## ○Improvement of the latency and convenience by Urban Railway Development

- Report No.18 from Council for Transport Policy Promotion Development of Railways which have not yet been attempted
- Countermeasure against Diversifying Methods of Urban Railway Development  
( enhanced use of Act on Enhancement of Convenience of Urban Railways, etc. )



## ○Maintenance of Public Transportation

### appropriate to Area Characteristic

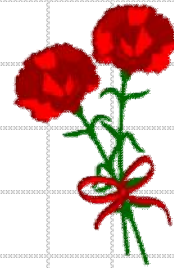
- Introduction of Public Transportation like LRT, BRT, etc. for Compact City

## ○Urban Development focusing on station – being more conveniently and user-friendly

- Promotion of Barrier-free  
Improvement of Traffic Convenience  
Enhancement of Life Support Service Facility



**Don't give up,  
Tohoku!**



# Great East Japan Earthquake

○ Date: 14:46, 11 March 2011

○ epicenter: Sanriku-Oki  
(Sanriku off-shore)

latitude 37.49 North

longitude 143.3 East

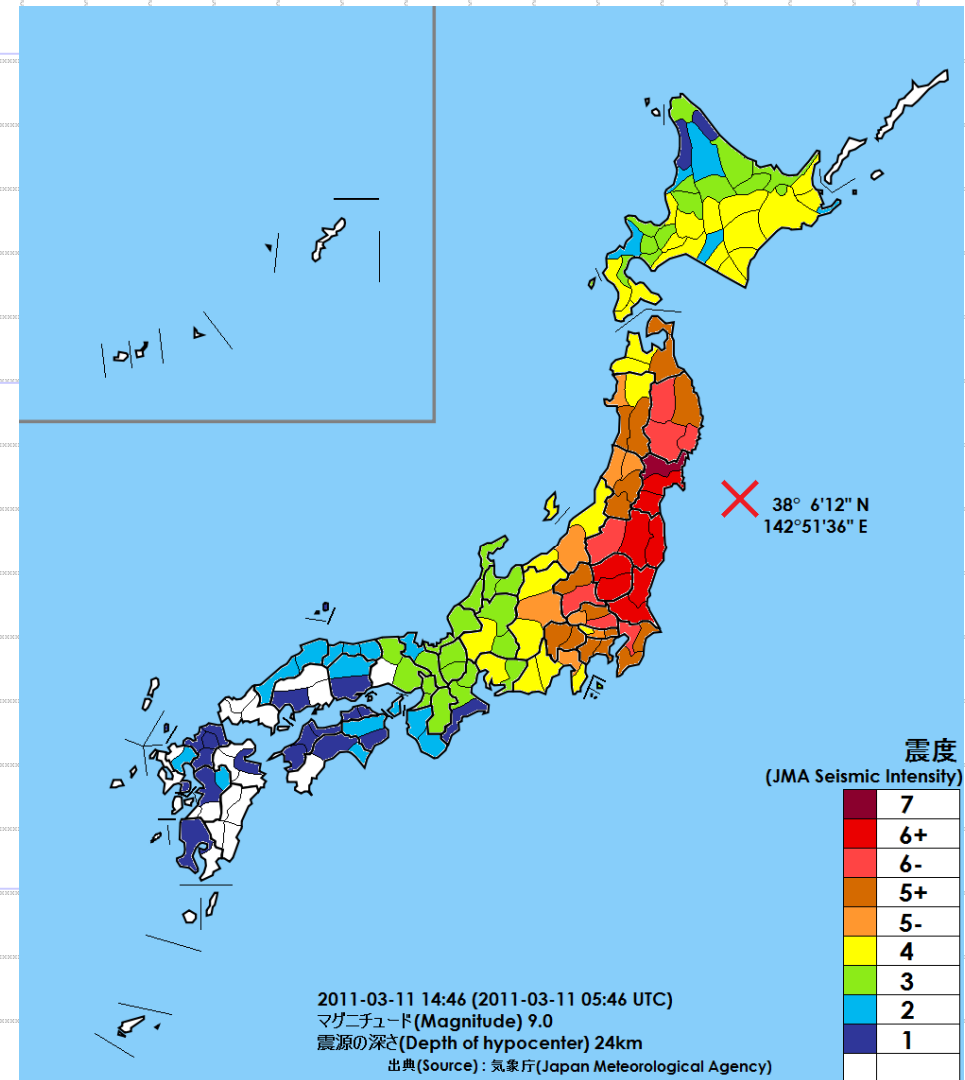
focal depth 24 km

○ Magnitude : 9.0

The fourth biggest earthquake  
in the World since 1900

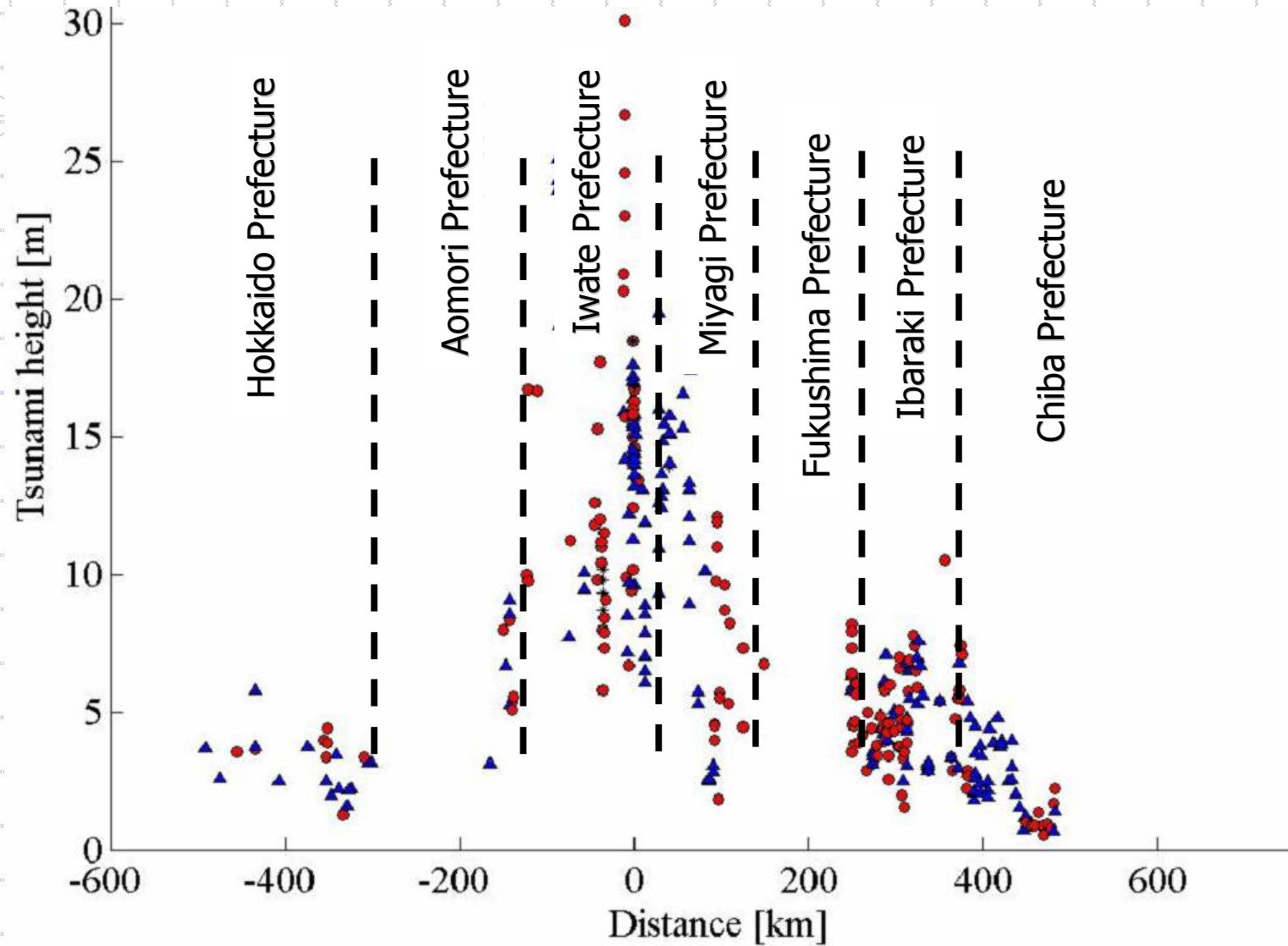
The biggest earthquake in Japan

○ Maximum intensity: intensity 7  
Kurihara City in Miyagi Prefecture



出典: ウィキペディア

# ○ The characteristics of Tsunami



出典: 土木学会東日本大震災特別委員会総合調査団  
 佐藤慎司「津波の特性と津波による被害」より  
[http://committees.jsce.or.jp/report/system/files/2\\_1\\_0.pdf](http://committees.jsce.or.jp/report/system/files/2_1_0.pdf)

# ○ Building Damage Situation



Rikuzen Takada City (20 May 2011) 撮影:都職員

15,529 deaths,  
7,098 people missing  
fully-destroyed house : 106,833 棟  
partially -destroyed house: 110,786 棟  
some -destroyed house: 417,011 棟



7月4日現在 警察庁緊急災害警備本部まとめ

# ○ Damage of Railways

< in Case of Tohoku Shinkan-sen >

Damages due to main shock of the earthquake on 11 March 2011

- about 540 poles were bend or broken or cracked
- about 470 overhead wires were broken
- about 100 Viaduct columns are broken
- about 20 point of Railways were displacement / broken

※ There was no damage on viaduct and bridge columns with earthquake strengthening.



出典: 東日本大震災 コンクリート委員会・構造工学委員会  
合同調査団一次調査報告(速報版)  
平成23年4月8日 日本大学工学部 岩城一郎  
[http://committees.jsce.or.jp/report/system/files/3\\_1\\_1\\_0.pdf](http://committees.jsce.or.jp/report/system/files/3_1_1_0.pdf)





# ○ Subsidies to Promote Earthquake Strengthening into Rail Stations

## 1. Outline

To get ready for possible Large-Scale Earthquakes against, Earthquake Strengthening of Main stations with double track etc, will be conducted immediately.

## 2. Object

Railway company (Except for East Japan Railway Co. • Central Japan Railway Co. West Japan Railway Co.)

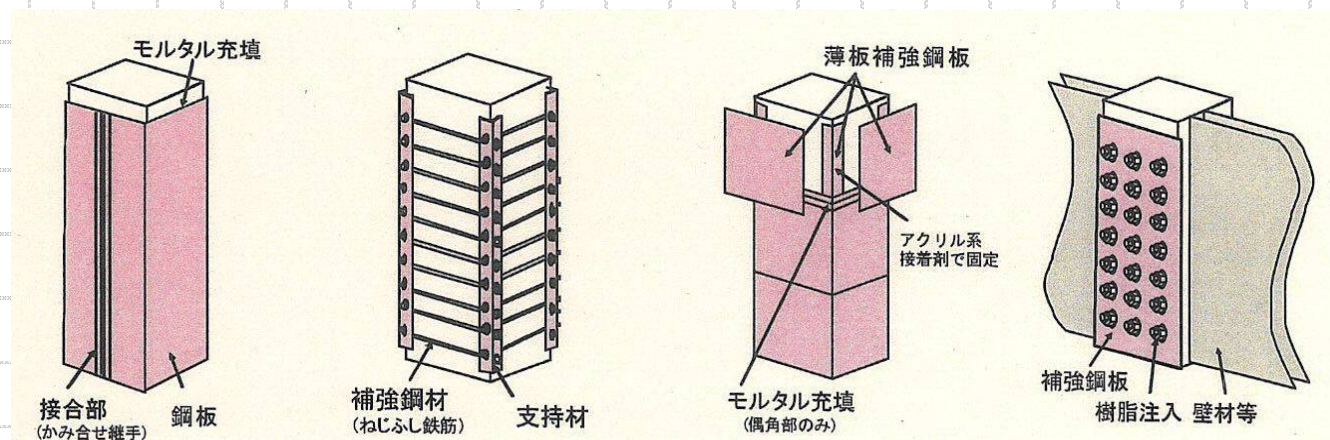
## 3. Rate of Subsidy

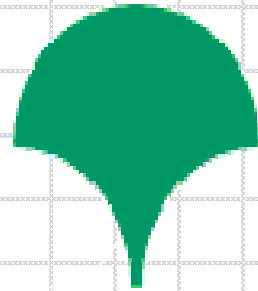
the state : 1 / 3、 local government : 1 / 3

## 4. Deserving Station for Subsidies

High - level station and there are over 10 thousand passengers and it's possible to run back and forth there./ Otherwise the station with double track.

## 5. Earthquake Strengthening Method





# Tokyo Metropolitan Government

Thank you very much!