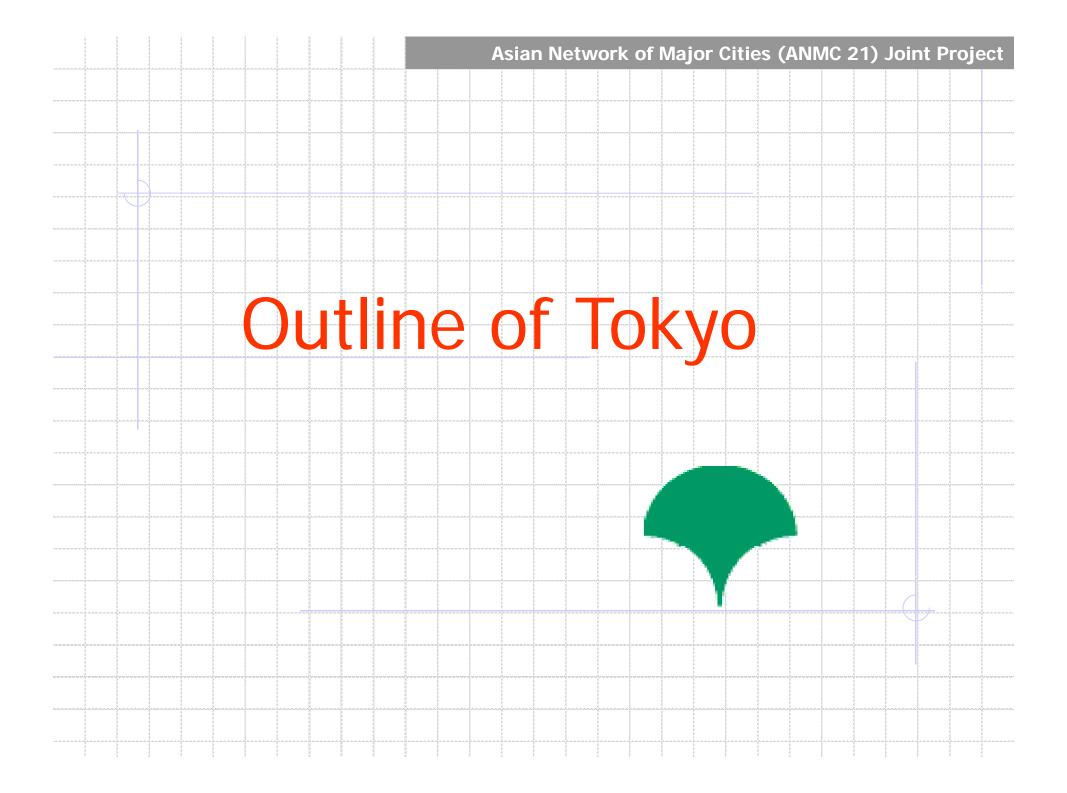
Support with the Formulation of a Comprehensive Plan for Public Transport

Part I

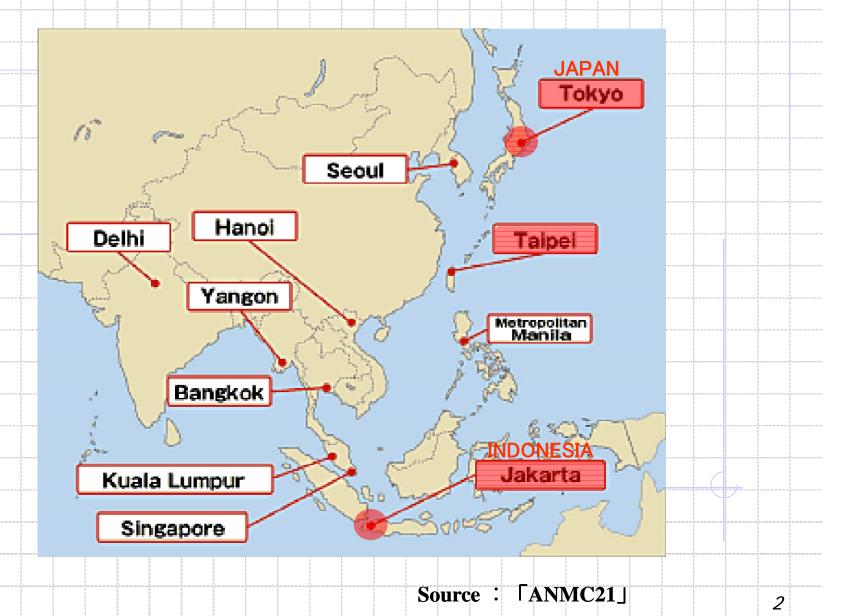
Basic concept of public transport planning in Tokyo

July 6, 2010

Bureau of Urban development Tokyo Metropolitan Government



JAPAN in Far East Asia



Comparison of Taiwan/Taipei, Indonesia/Jakarta and Japan/Tokyo

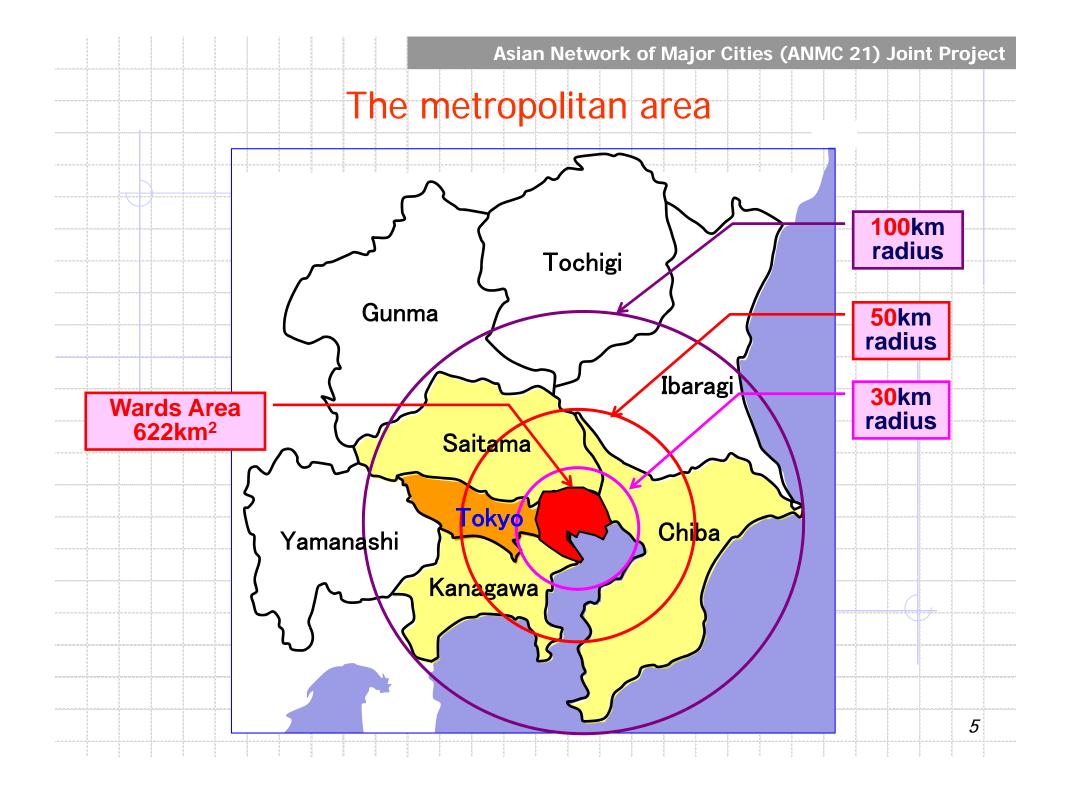
Country	Taiwan	Indonesia	Japan	
Land area (km²)	36,008 1,811,570		377,930*1	
Population (×10 ³)	23,016	228,248	127,771*1	
Density (人/km2)	639	126	338	
Railway (km)	1,694	7,985	27,343*2	
City	Taipei	Jakarta	Tokyo	
Land area (km²)	272	662	2,187*3	
Population ($\times 10^3$)	2,607	9,140	12,790*3	
Density (人/km2)	9,685	13,807	5,847*3	
Railway (km)	91	150	1,178*3	

*1 : Ministry of Internal Affairs and Communications

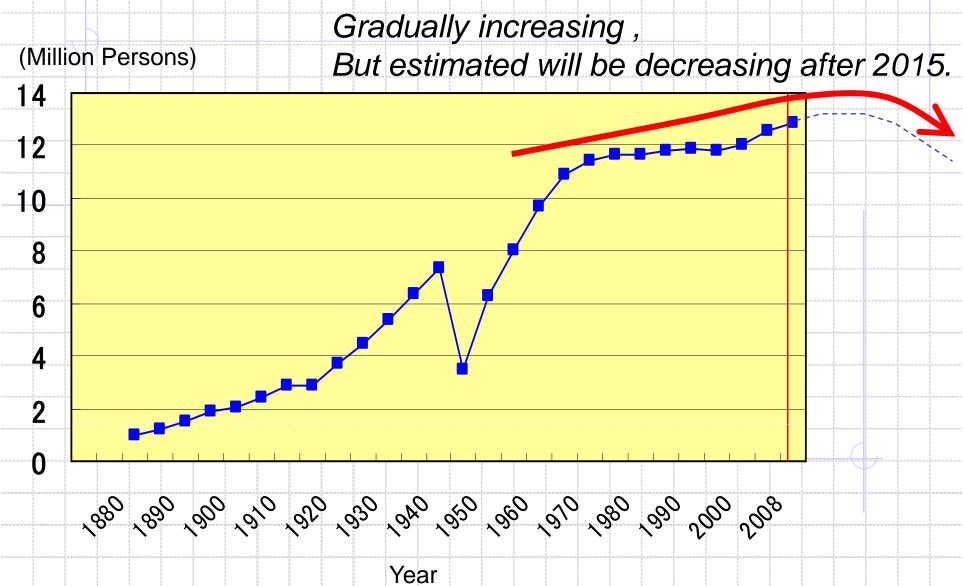
| Statistical Handbook of Japan 2009 | |

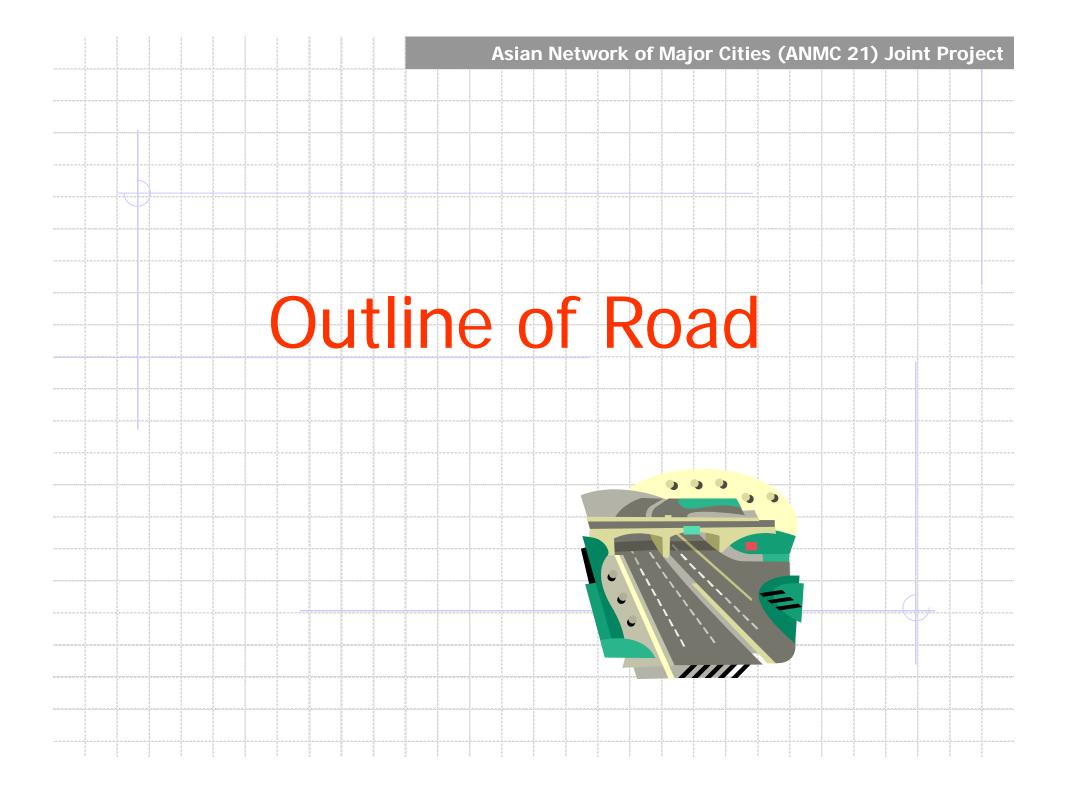
*2 : Ministry of Land, Infrastructure, Transport and Tourism(2009)

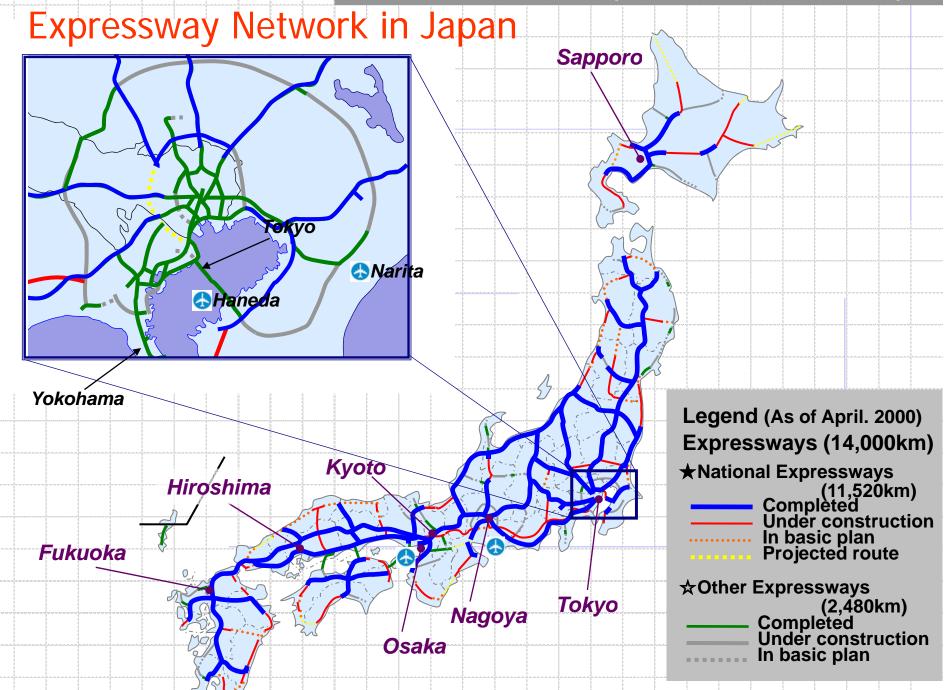
*3: Tokyo Metropolitan Government(2009)



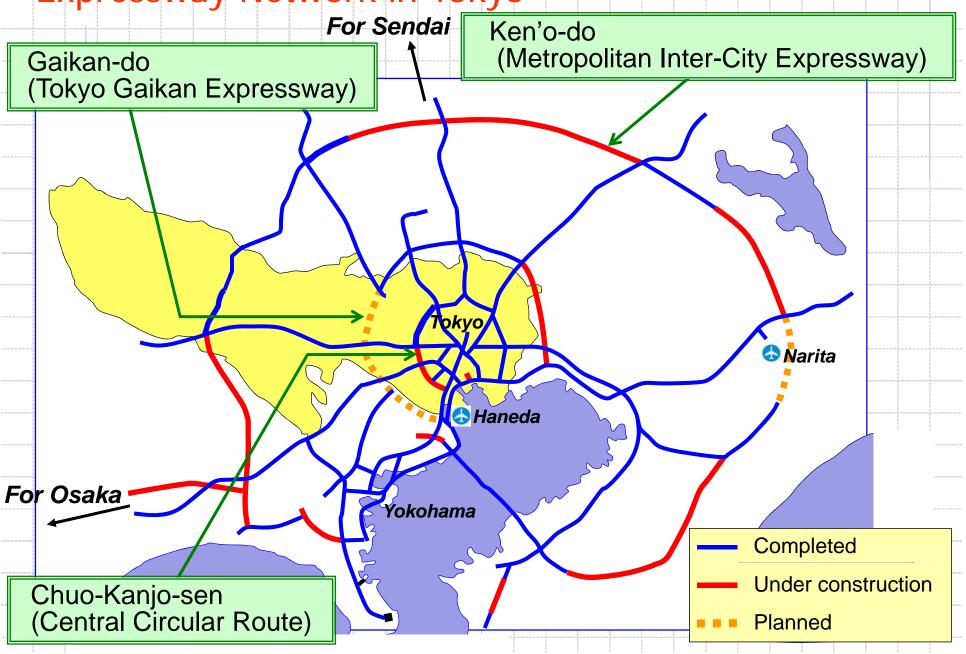




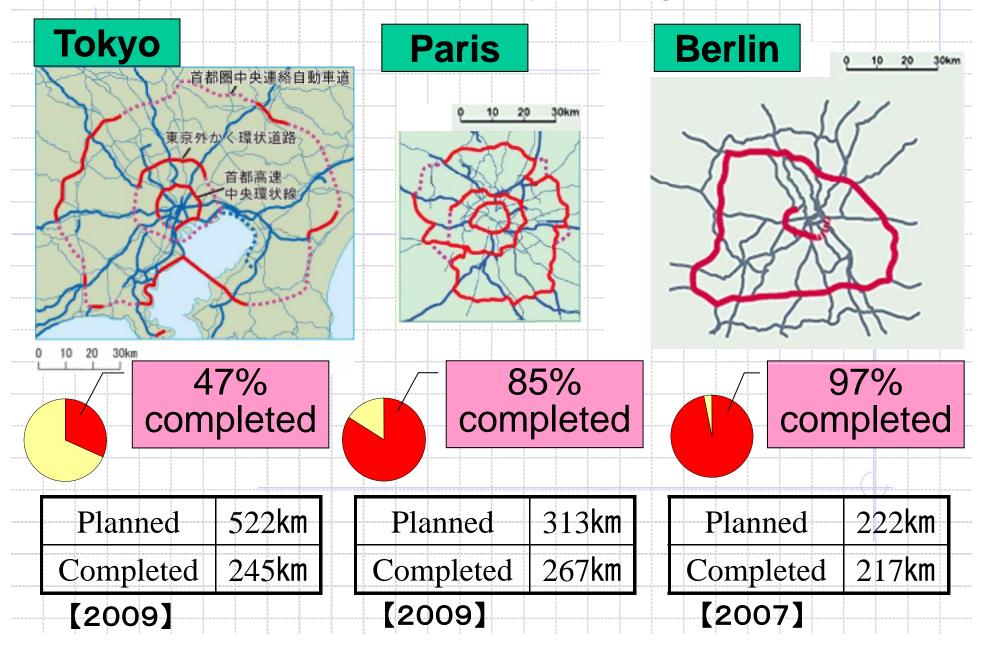


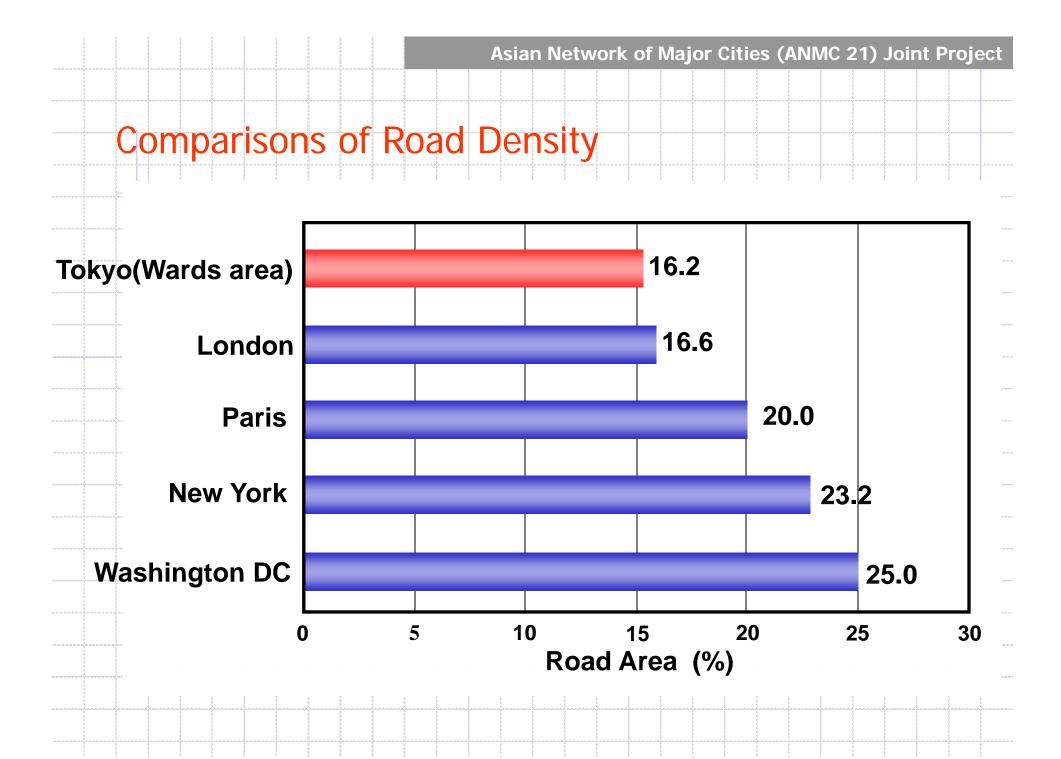


Expressway Network in Tokyo



Completion Ratio of Loop Expressway Network





Current State and Target of Average Trip Speed

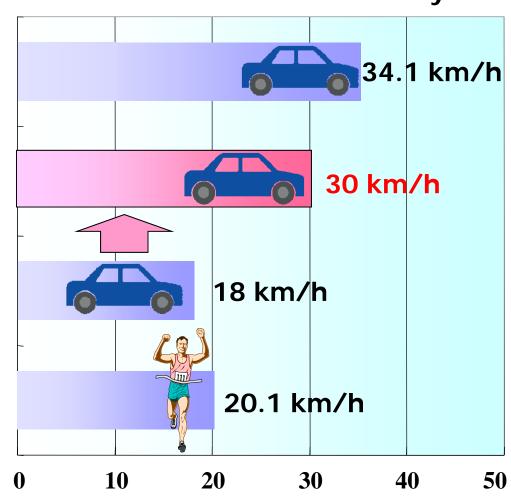
A Road Traffic General Survey of 1995

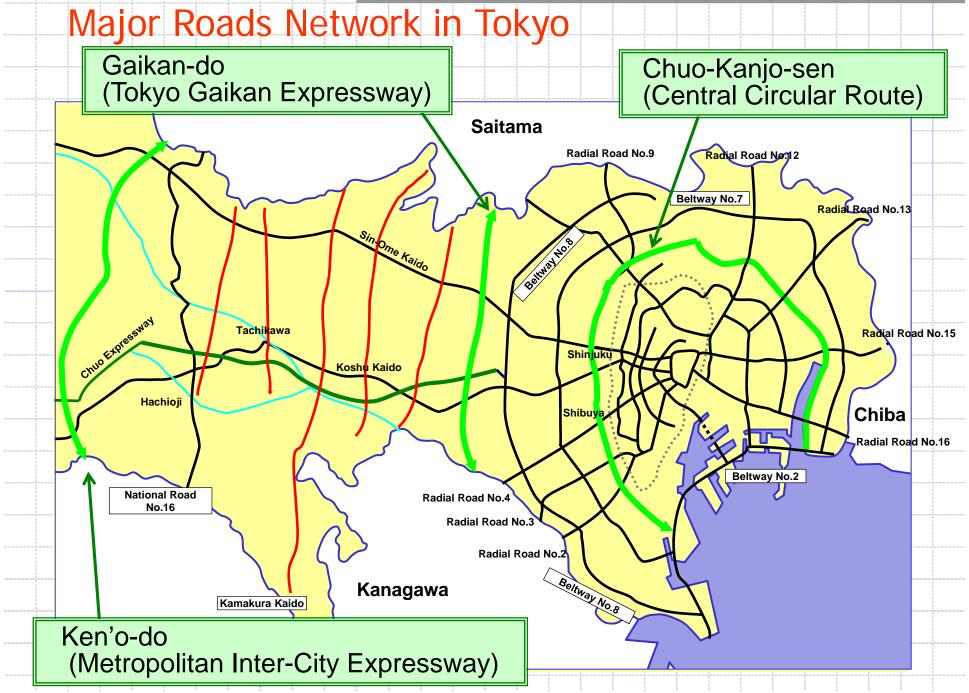
Average in Japan

Target for 2025

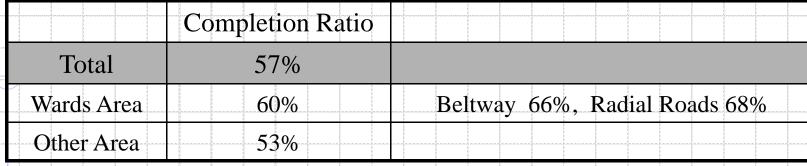
The Present Situation (Tokyo Wards Area)

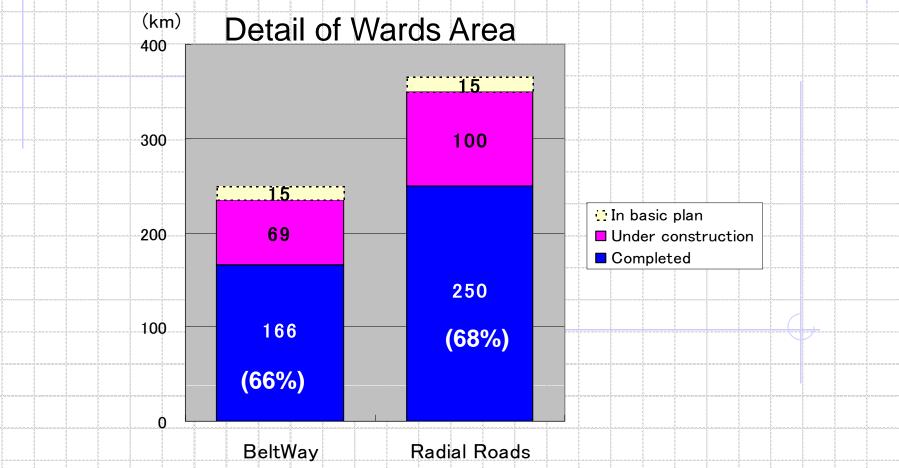
Marathon Runner (World Record)

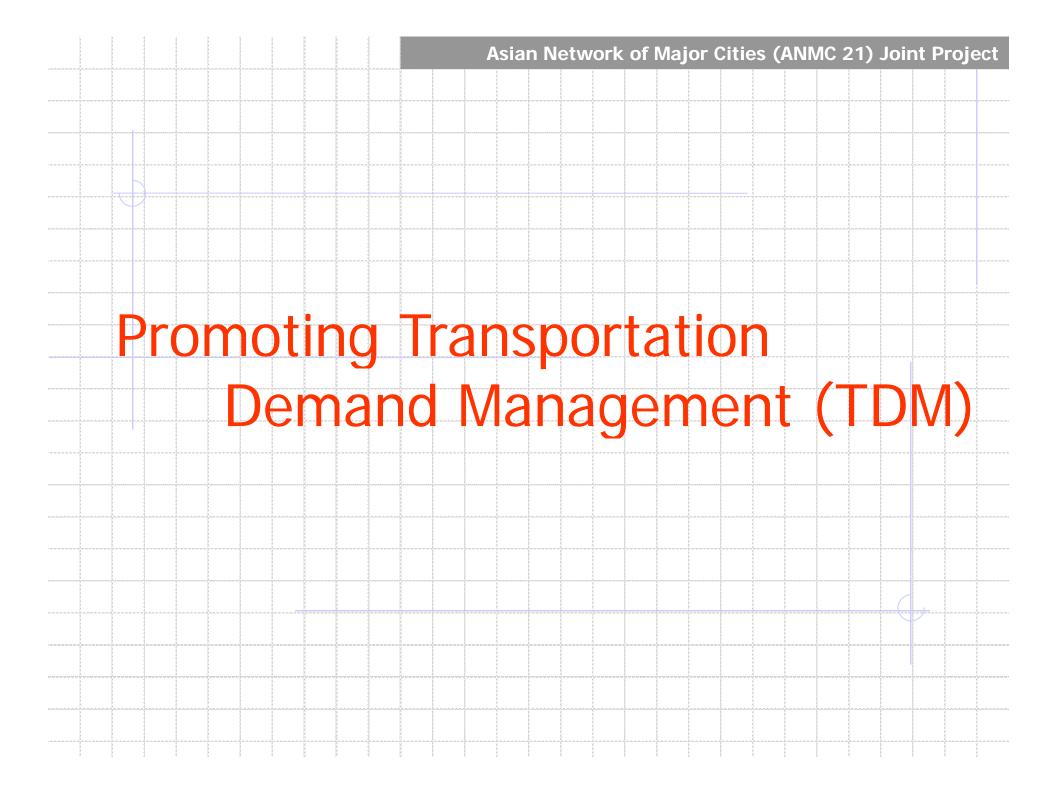






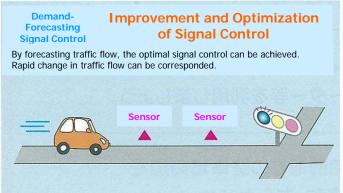


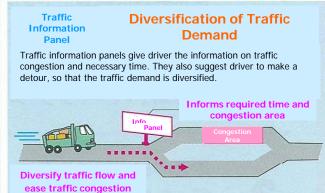




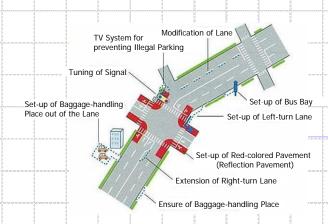
Transportation Friendly to People and the Environment Promotion of Transportation Demand Management (TDM) Measures

Utilized ITS Technology





Improved Road Facilities



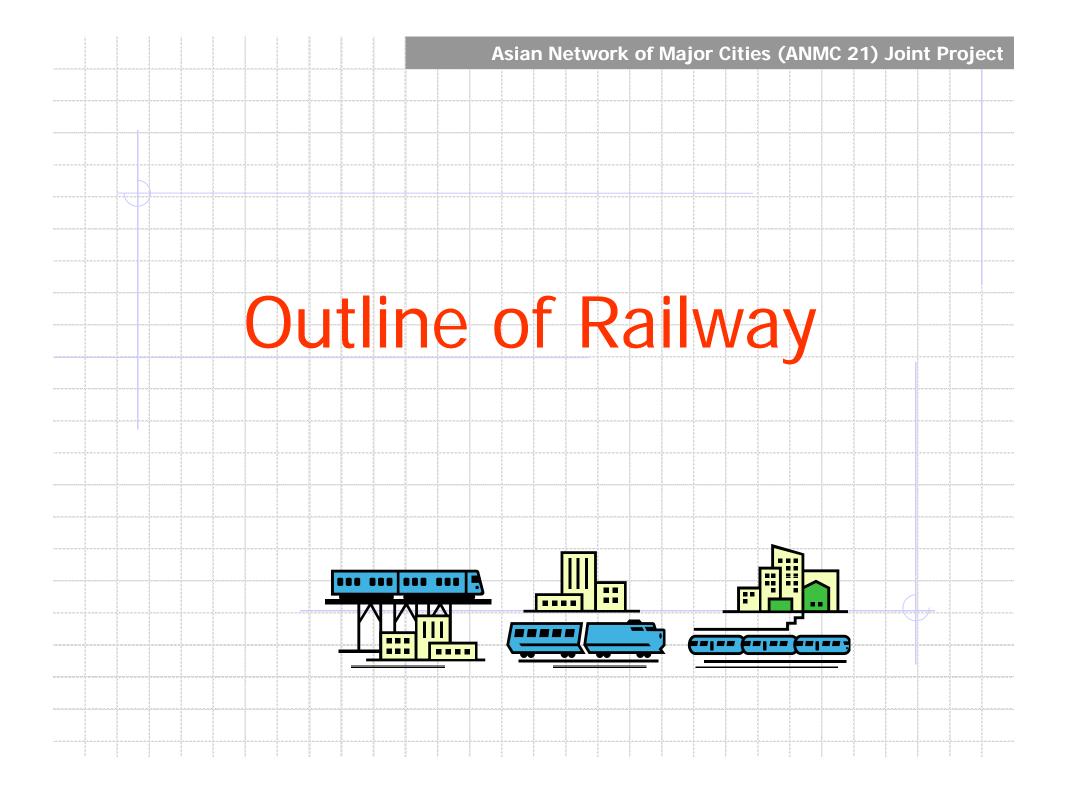
Measures for a baggage



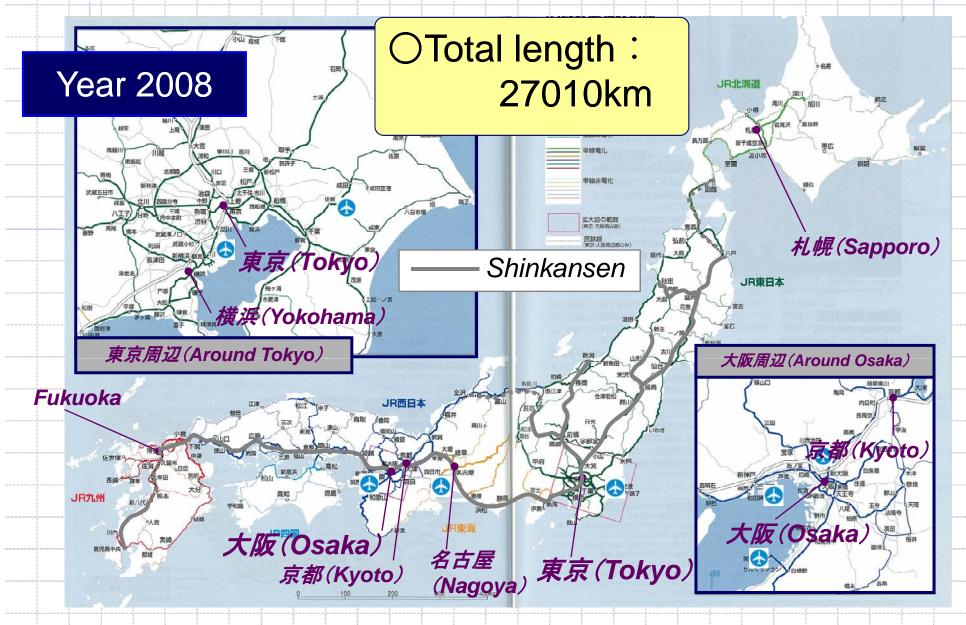
Measures for Taxis waiting for customers

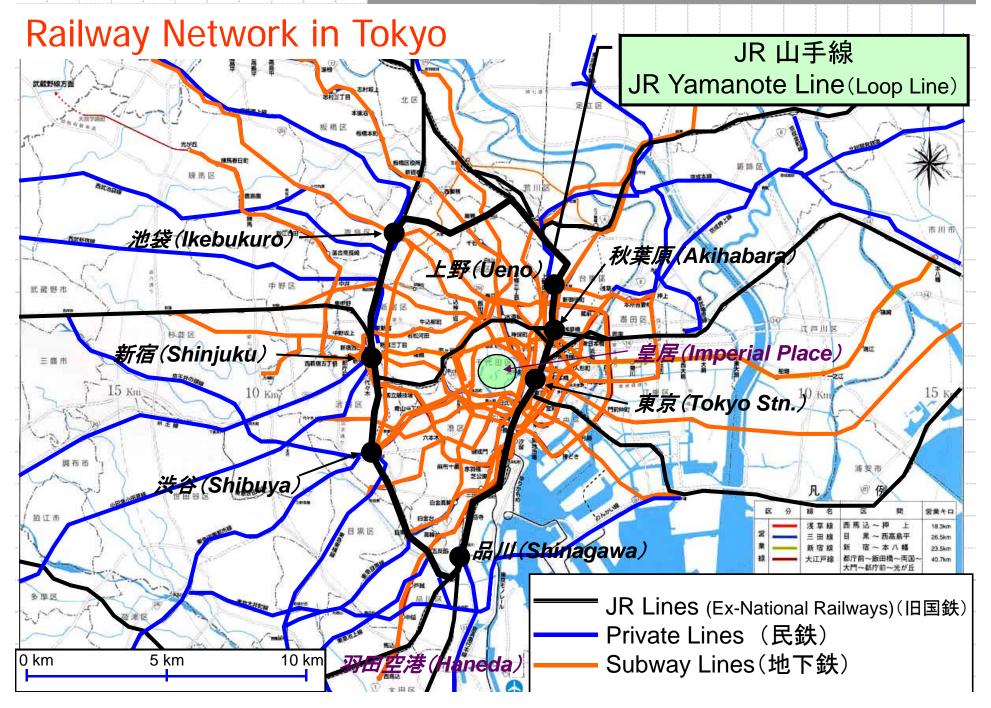


Baggage Handling Permitted 質物



Railway Network in Japan



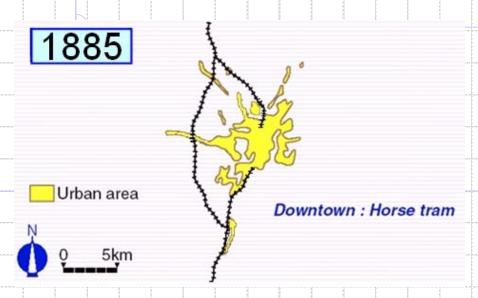


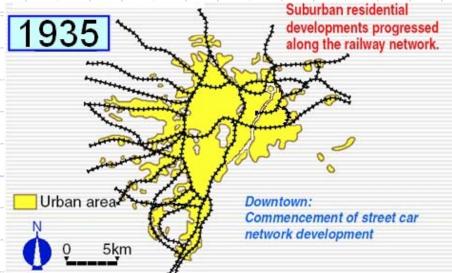
Characteristic of Railway in Tokyo

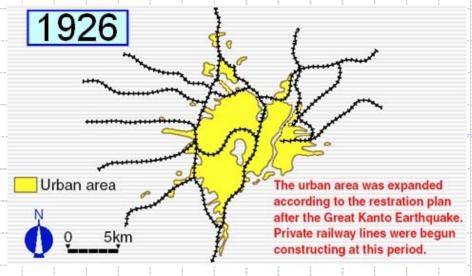
- Railway network in Tokyo carries 24 million passengers dail
- Peak-hour railroad operation interval: 1 to 2 min.
- Annual average delay per train: 0.7 min.

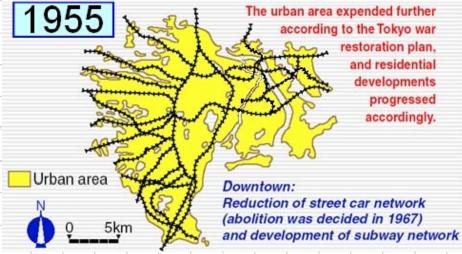


Development History of Railway Network to Expand the Metropolitan Area







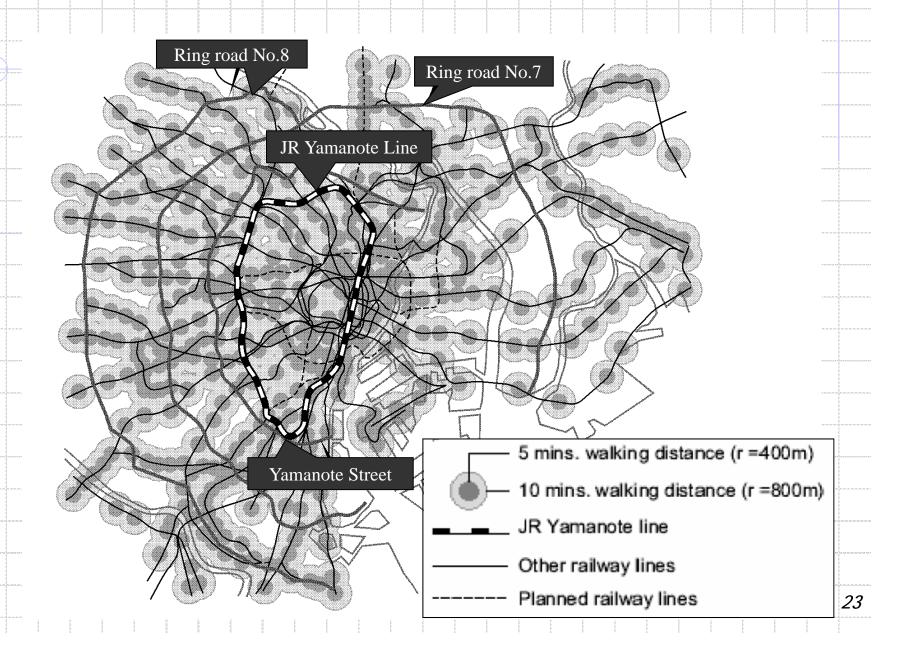


Railway Network in Tokyo

(Nov, 2009)

	Length	Number of Stations	
JR Lines (Ex-National Railways)	419km	141	
Private Railways (7 major companies)	354km	292	
Subways (2 major companies)	300km	234	
Monorail, New Transit and Others	76km	100	
Total	1,178km	767	

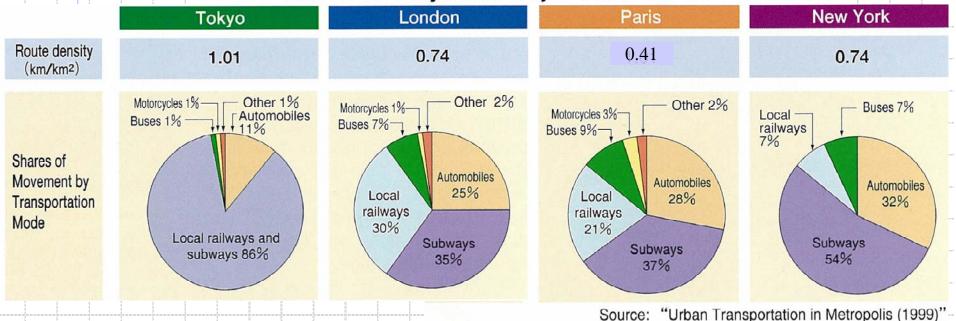
Zones accessible in 5 minutes, in 10 minutes walk from station



The Current Conditions of Urban Transportation in Tokyo

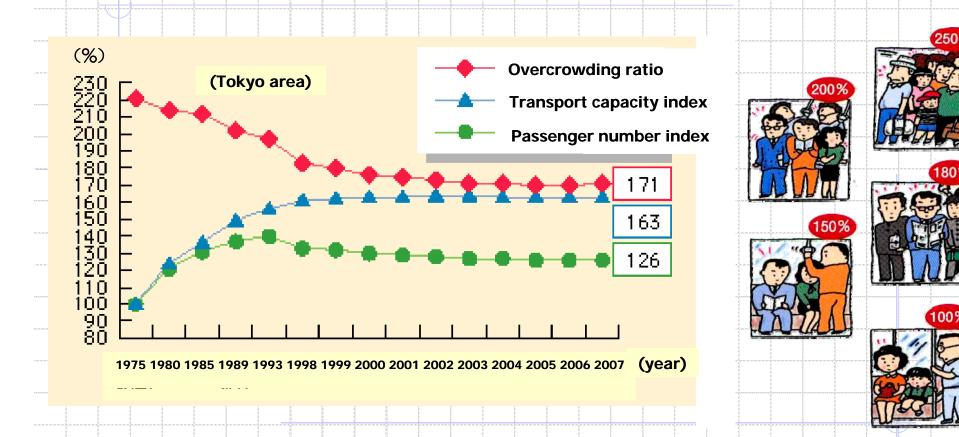
World-Leading Railway Line Development

Comparisons of Route Density and Transportation Modes in Tokyo and Major Overseas Cities

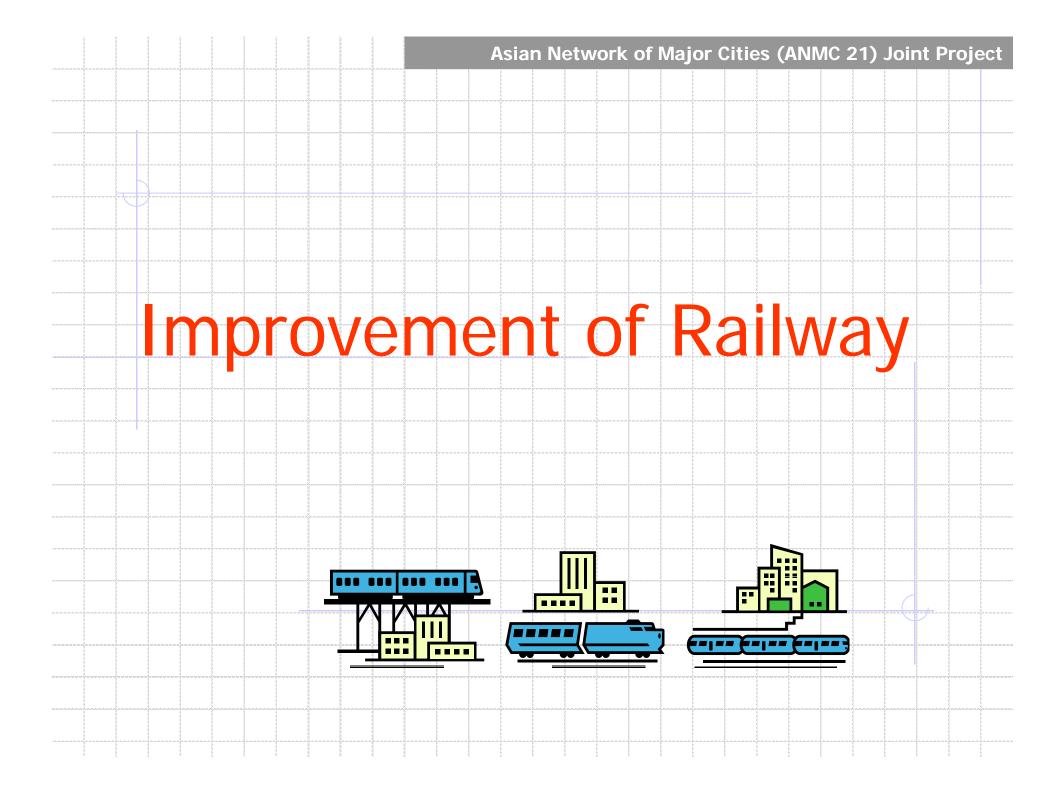


The Current Conditions of Urban Transportation in Tokyo

Railway Crowding



Source: \[\text{WHITE PAPER ON MLIT IN JAPAN (2008)} \]



Policy Report of the Council for Transport

A basic plan

concerning the development of transport links on the rapid-transit railway in Tokyo metropolitan area

History

policy report of the council for transport revised almost every 10 to 15 years recently.

1956 Policy Report of the Council for Urban Transport No.1

1962 Policy Report of the Council for Urban Transport No.6

1968 Policy Report of the Council for Urban Transport No.10

1972 Policy Report of the Council for Urban Transport No.15

1985 Policy Report of the Council for Transport No.7

2000 Policy Report of the Council for Transport No.18

Policy Report No.18 of the Council for Transport

(Issued in January, 2000)

- **◆Target year** ⇒ 2015
- **♦Basic Aspects**
 - 1) Decrease average ratio of train congestion future target 150% at peak time
 - 2) Improve express service
 - 3) Ease access to airport and Shinkansen
 - 4) Make traffic service barrier-free and seamless

Planned Route of Policy Report No.18

Planned Route A1

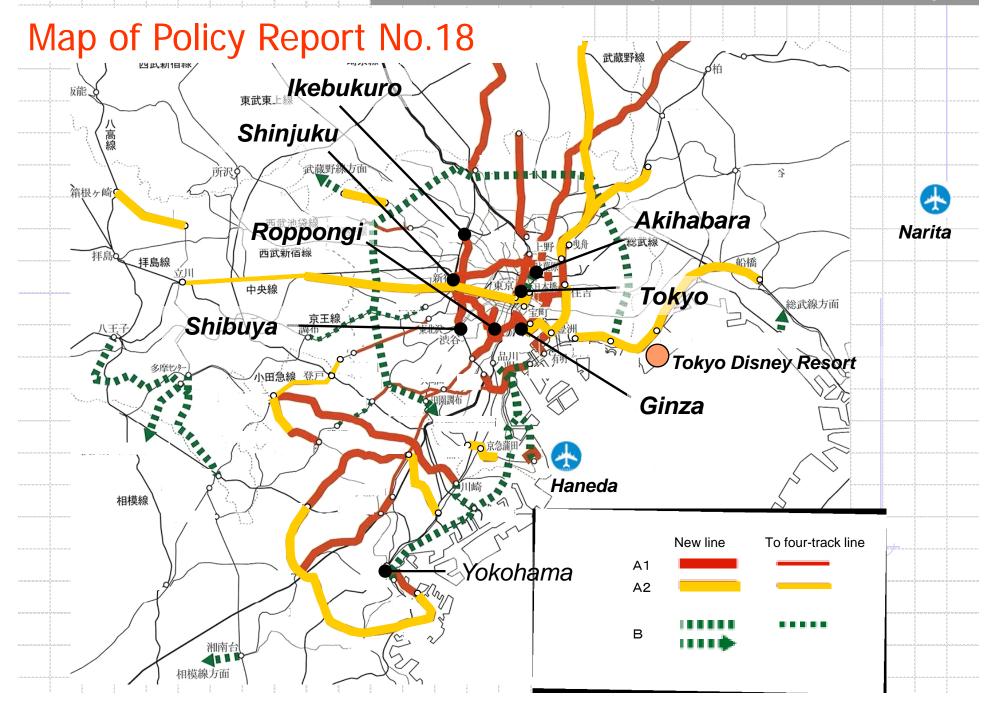
Route that should be opened by 2015

Planned Route A2

Route that should start building by 2015

Planned Route B

Route that construction should be examined in the future



Oedo Line (Subway Line No. 12) Route A1



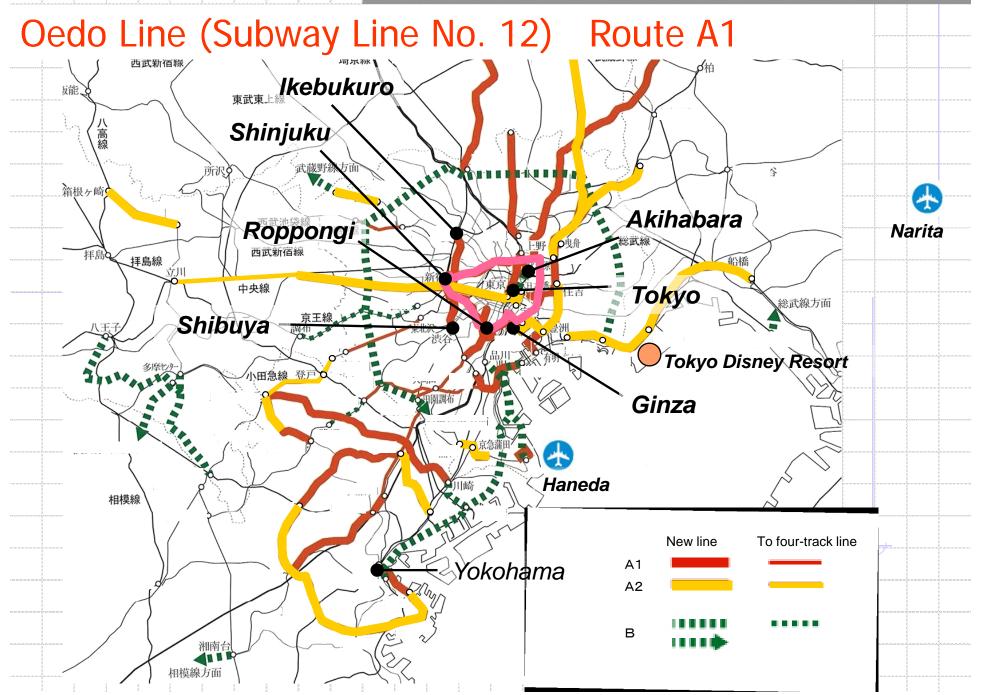


Development costs: 1,400 billion yen (34 bil.yen/km)

Total length: 41 km Number of stations: 38

Number of passengers : 782,000/day (2007)

Opened: Dec. 2000



Fukutoshin Line (Subway Line No. 13) Route A1



Operation:
One-man driving
by ATO system

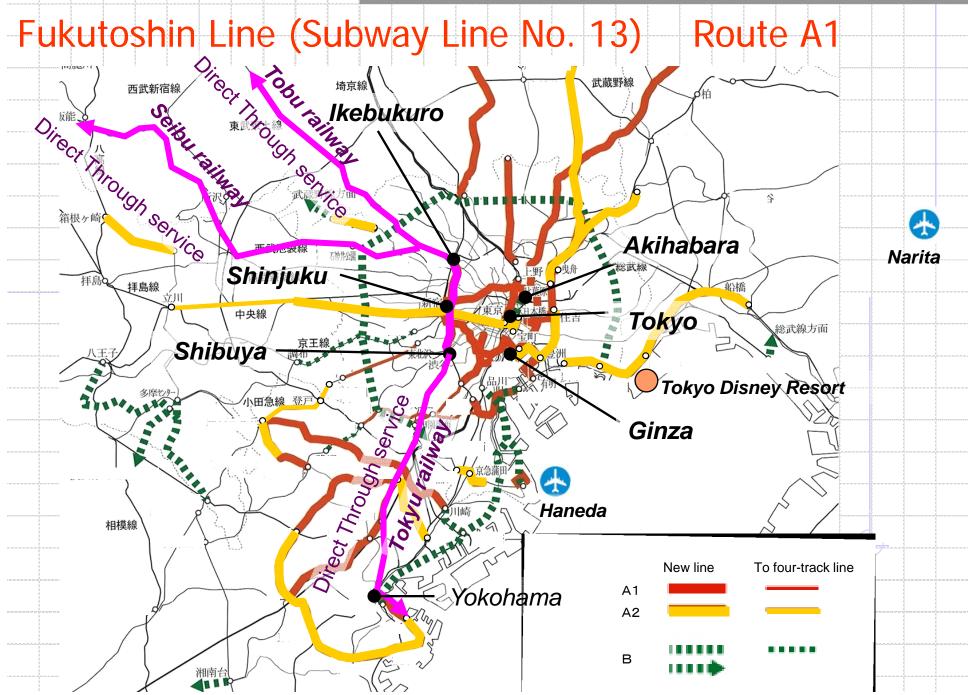
Development costs: 250 billion yen (28 bil.yen/km)

Total length: 8.9km (Ikebukuro-Shibuya)

Number of stations: 9 (New open)

Number of passengers 259,000/day (2008)

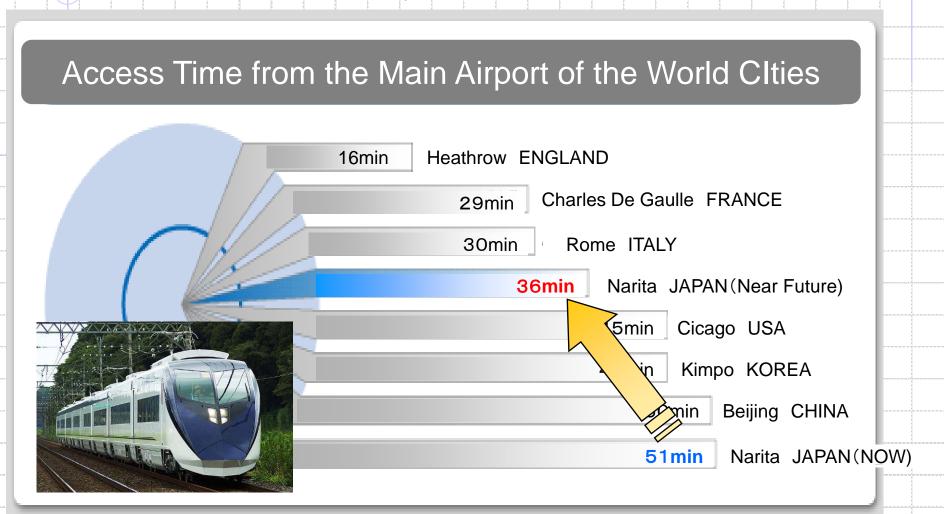
Opened: Jun. 2008



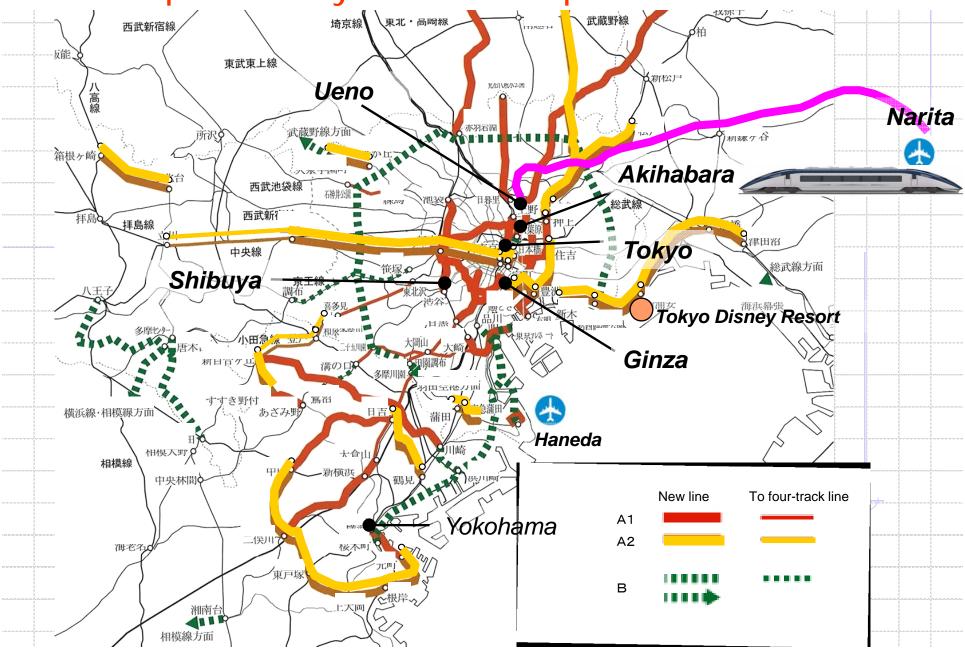
Narita Rapid Railway to Narita Airport Route A1

In fiscal 2010, Narita rapid railway will be opened.

Connect the center of Tokyo with Narita Airport in 36 minutes



Narita Rapid Railway to Narita Airport Route A1



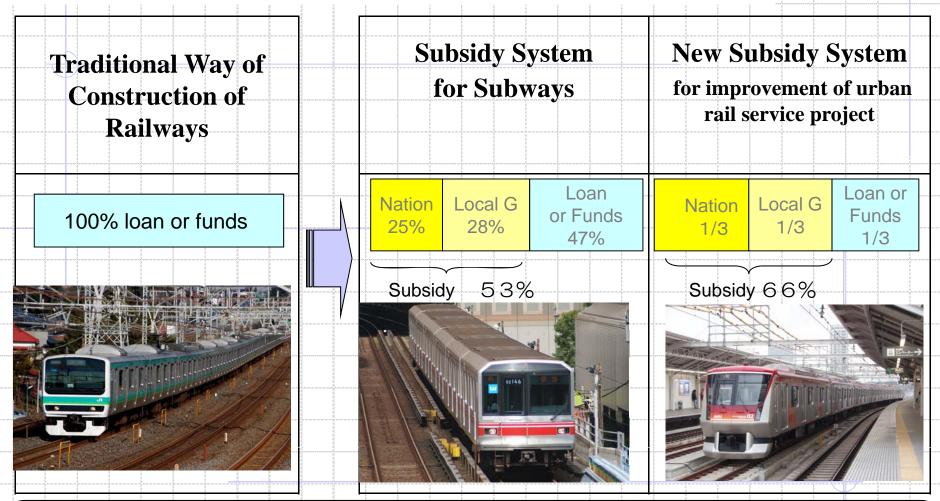
Current State of A1, A2 and B Routes

- All A1 Routes have already opened or been under construction
- ■but, Any A2 and B Routes are not even begun to start construction

Problems

- 1 Finding the entity who will raise his hand
- 2 Securing the funds for huge project expense
- 3 Improving of profit margin

Subsidy System for Railway Development



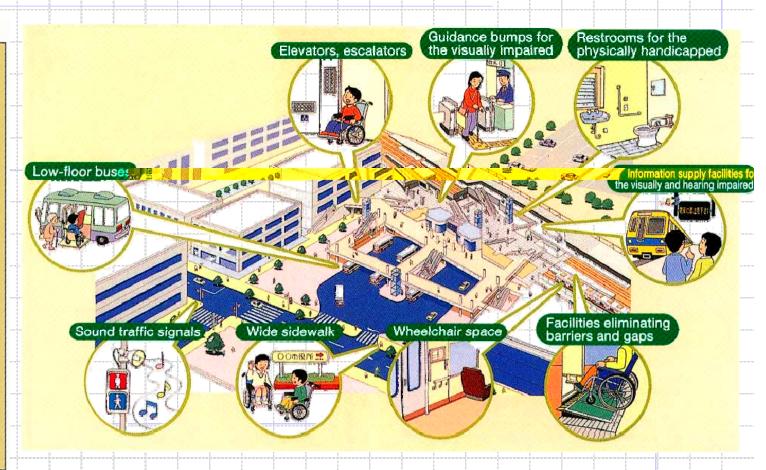
- ■In Japan, private railways had been constructing their new lines by their own finance.
- However, in Metropolitan area, to conquer those problems and promote construction of necessary lines, various subsidy systems are established.



Transportation Friendly to People and the Environment

Promoting Barrier-Free Facilities

Under the Accessible and Usable Transportation Law, upon new construction of stations and other passenger facilities, newly introducing buses or other types of vehicles or in other circumstances, compliance with barrier-free standards is required. Likewise, under the guidance of individual municipalities schemes are incorporated to achieve barrier-free facilities in stations, nearby roads, traffic signals and other infrastructure. This leads to advances in barrier-free status in stations, nearby roads and other amenities.

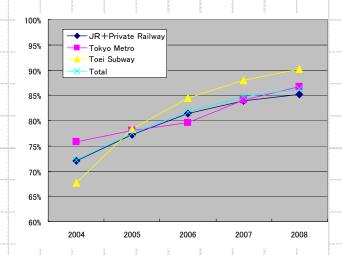


Source: "On Land, Infrastructure and Transportation 2001 White Paper"

The Current Conditions of Urban Transportation in Tokyo

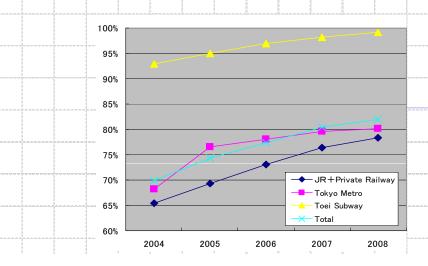
"Barrier-Free" Improvements

The setting situation of elevators and escalators in the Tokyo railway stations

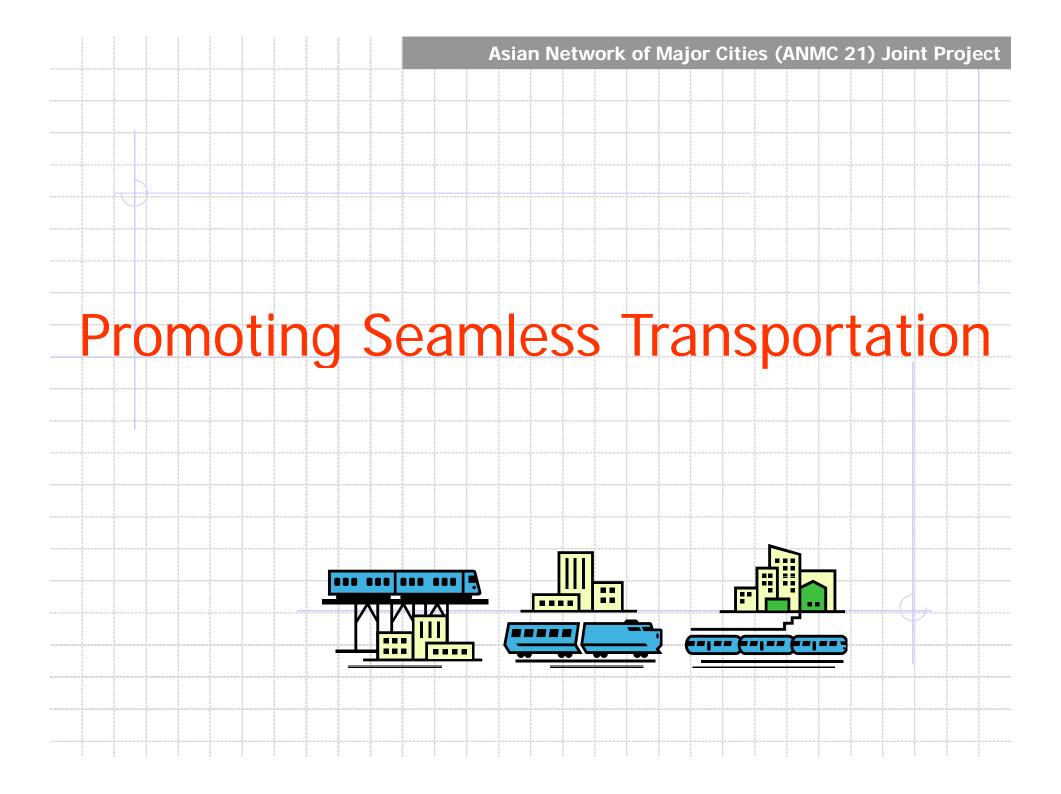


EV·ES	2004	2005	2006	2007	2008
JR+ Private Railway	72.0%	77.1%	81.4%	83. 9%	85. 1%
Tokyo Metro	75. 8%	78.0%	79. 5%	84. 1%	86.8%
Toei Subway	67. 7%	78. 3%	84. 5%	88. 0%	90. 1%
Total	72. 1%	77. 5%	81.6%	84. 7%	86. 3%

The setting situation of barrier-free restrooms in the Tokyo railway stations



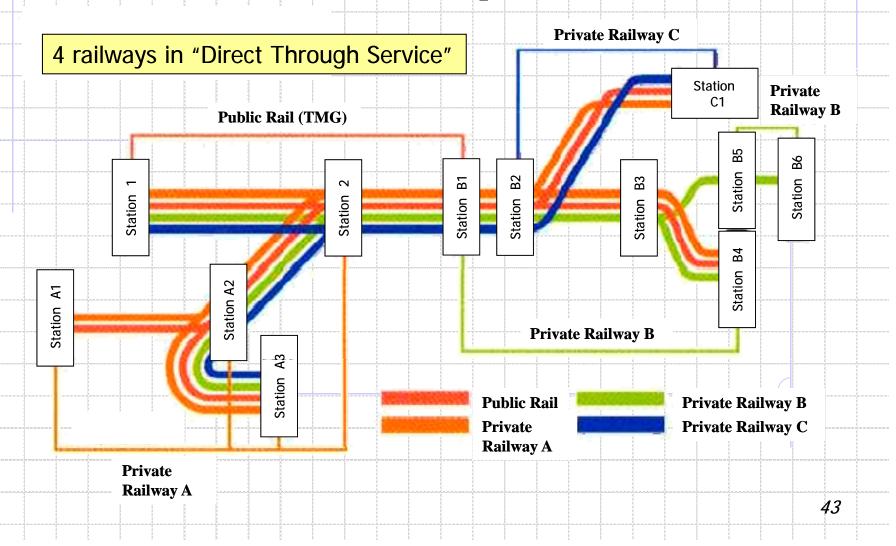
	Stations with barrier-free restrooms	2004	2005	2006	2007	2008	
***	JR+ Private Railway	65. 4%	69. 4%	73. 1%	76. 5%	78. 4%	
00000	Tokyo Metro	68. 2%	76. 5%	78.0%	79.5%	80.1%	1 3C
vvv	Toei Subway	92. 9%	94. 9%	97. 0%	98. 2%	99. 1%	K K K K K K K K K K K K K K K K K K K
	Total	69. 8%	74. 3%	77. 4%	80.4%	81.9%	4



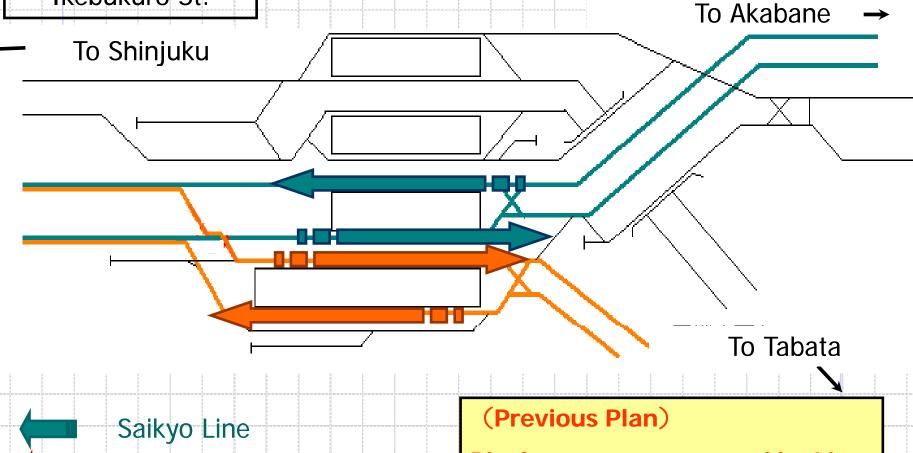
Transportation Friendly to People and the Environment

Promoting Seamless Transportation

-Structure of "through routes"-



Transportation Friendly to People and the Environment **Promoting Seamless Transportation** Improved Transport Convenience Ikebukuro St. To Akabane



Shounan-Shinjuku Line

Platforms were arranged by Line

Transportation Friendly to People and the Environment **Promoting Seamless Transportation** Improved Transport Convenience -Ikebukuro St. To Akabane To Shinjuku To Tabata (Improved Plan) Saikyo Line Platforms were arranged by Shounan-Shinjuku Line **Direction of Trains** 45

