



TMG's Effort to Improve Traffic Condition

~For Smooth Transportation at 2020 Olympic Games~

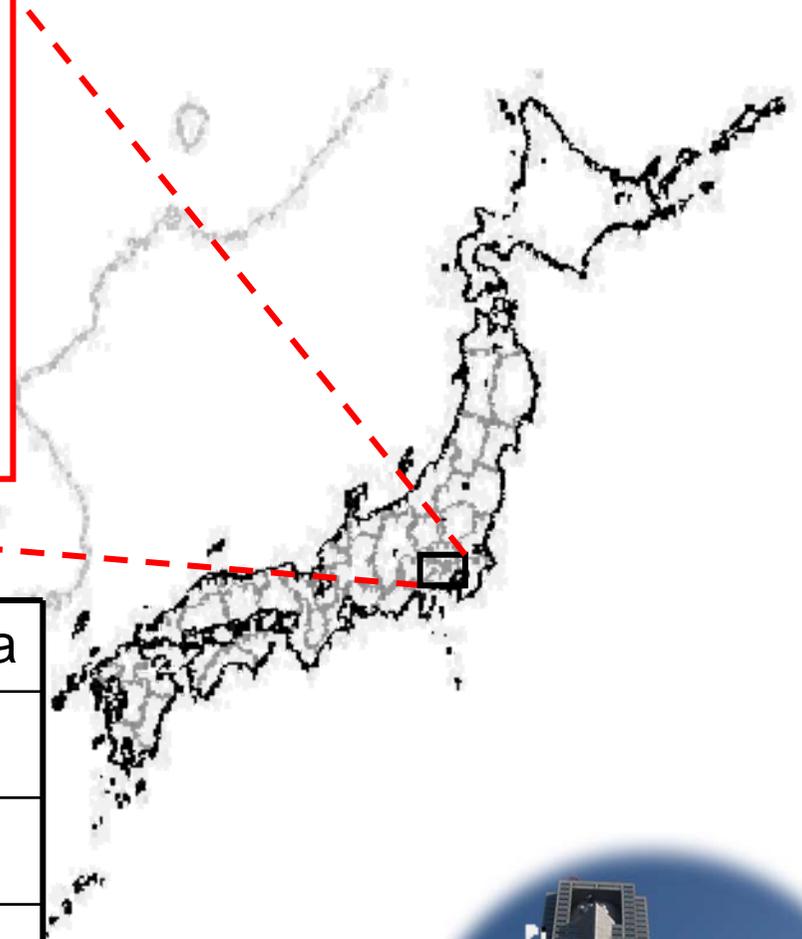
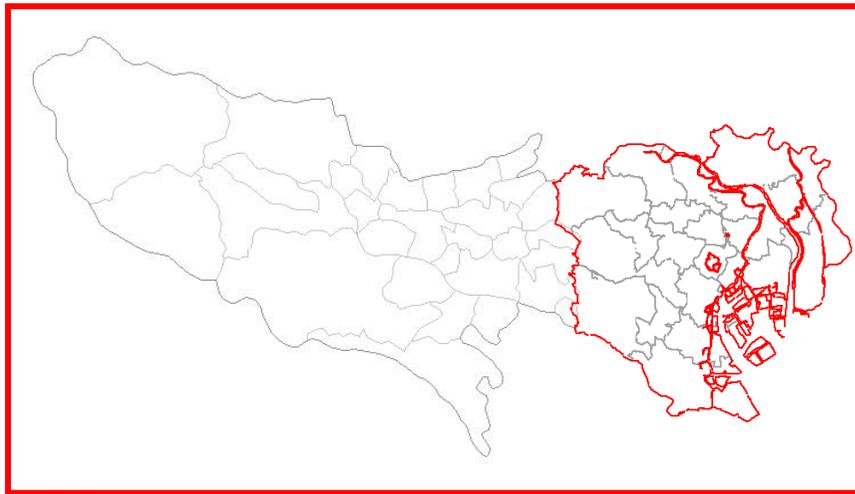


TOKYO
METROPOLITAN
GOVERNMENT

Office for Youth Affairs and Public Safety
Supervisor for Planning and Coordination Team
Ken Chibana



Introduction



	Tokyo	Wards Area
Area	2,189km ²	617km ²
Population	13million	9million
Day Population	16million	12million
GDP	85trillion	
TOP Companies	48 / 500	

* TMG Bureau of
General Affairs

* Fortune 500 Global,
2012



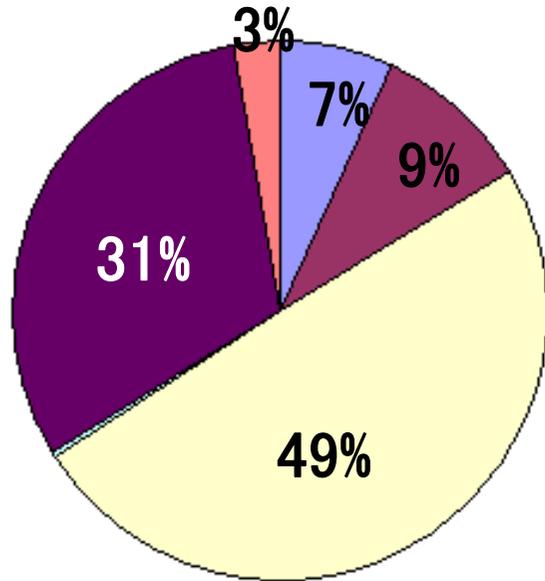
Outline

- 1. Transportation system in Tokyo**
- 2. Traffic Problems and TMG's Efforts**
- 3. Measures Using the ITS technologies**
- 4. Heading towards 2020 Olympic Games**
- 5. Conclusion**

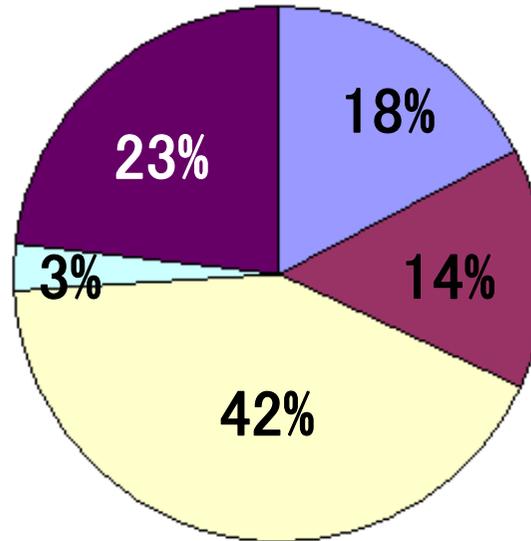


1. Transportation system in Tokyo

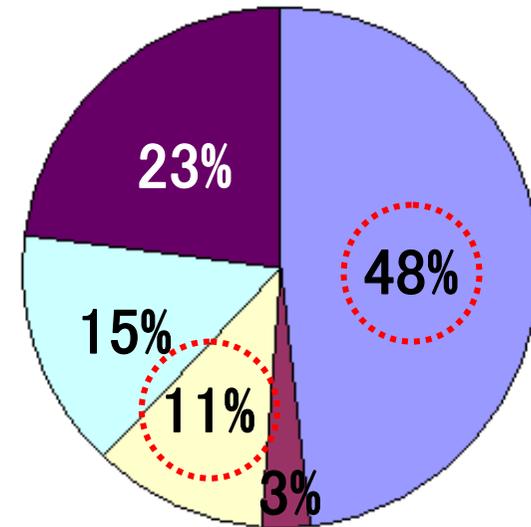
■ Share of Transportation Modes



[New York]



[London]



[Tokyo]



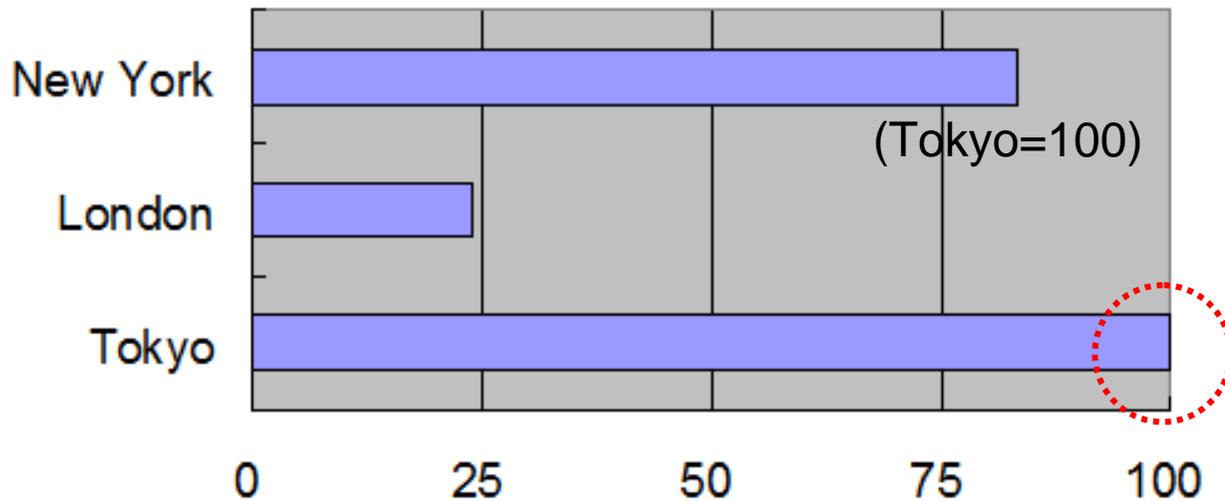
* New York State "National Household Travel Survey" 2009

* Mayor of London "Travel in London" 2010

* Japanese Ministry of Land, Infrastructure, Transport and Tourism "Person Trip Survey" 2010

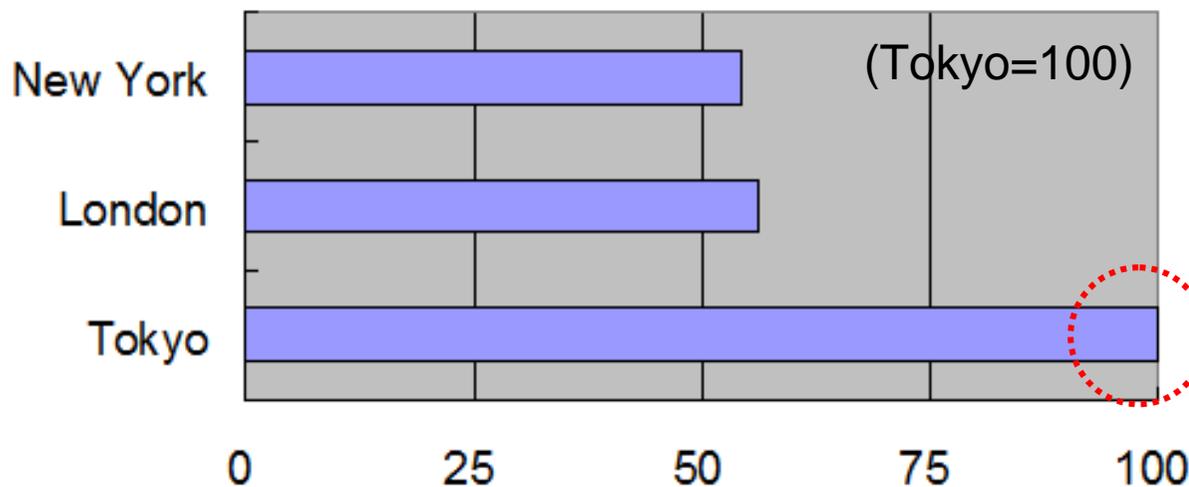


■ Concentration of Stations (Index)



- * Metropolitan Transportation Authority
- * Transport for London
- * Tokyo Metro, Toei Subway, JR East, etc

■ Fullness and Accuracy of Public Transportation (Index)



- * The Mori Memorial Foundation
"Global Power City Index" 2012



Public Transportation Network

《Train・Subway》

Length	1,052km
Station	760
Passenger	26million/day

Enriched network

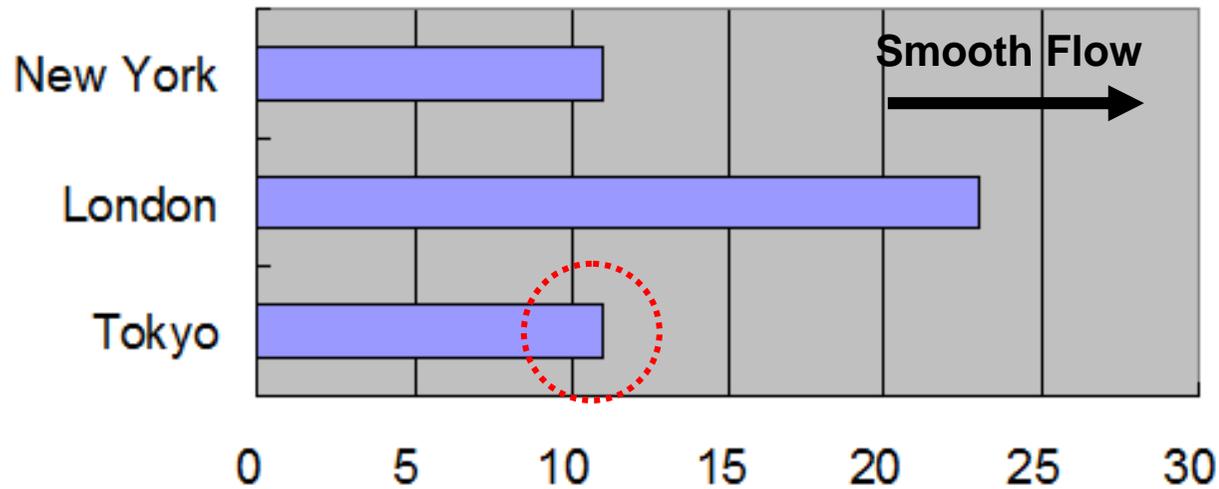
Length	7,023km
Route	2,545
Passenger	2million/day

《Bus》

* TMG Bureau of Transportation



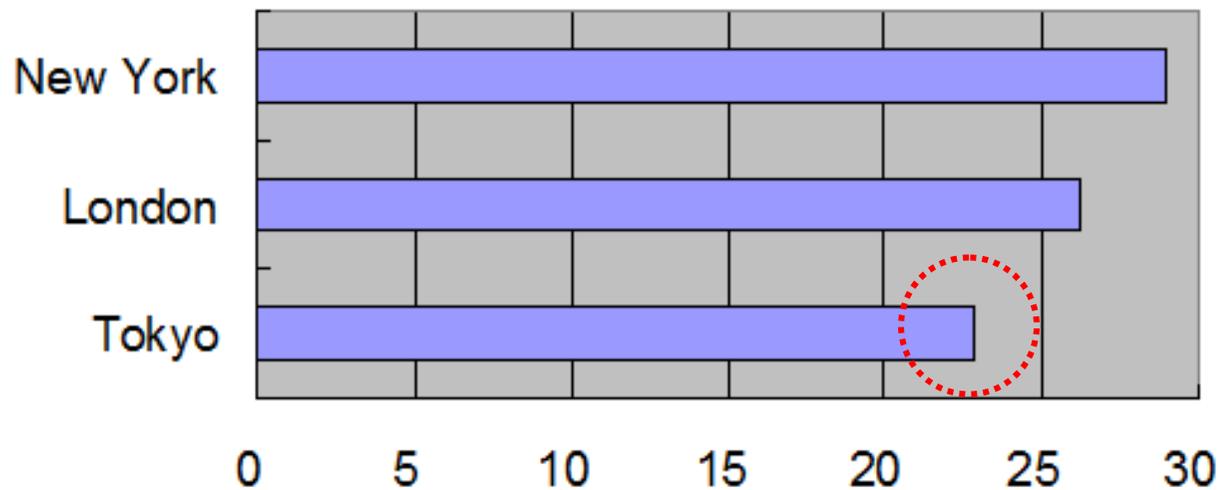
■ Congestion Rank



* PricewaterhouseCoopers
"Cities of Opportunity" 2012

※ ranking 27 cities in the world
depending on congestion level
(1place : most severe congestion)

■ Average Speed of Auto (7:00-19:00)



* Transport Policy in
Perspective 2008

* TMG Outcome Report of Road
Construction 2007

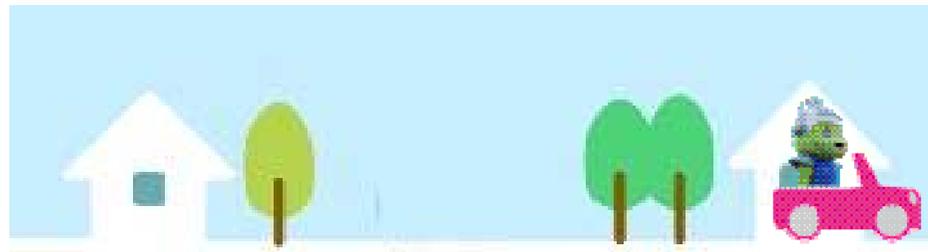


Low share of
automobile usage

But!

- Chronic congestion
- Low speed

Various TMG's efforts



《Fast!》



2. Traffic Problems and TMG's Efforts

- ① Through traffic、Undeveloped ring roads
- Maintenance rate of ring roads

London	Paris	Beijing	Seoul	Tokyo
100%	85%	100%	100%	59%

[London]
(2007)

[Paris]
(2009)

[Beijing]
(2009)

[Seoul]
(2007)

* Ministry of Land, Infrastructure, Transport and Tourism



Maintenance of 3 ring roads



* TMG Bureau of Urban Development

Tokyo Outer Loop Road

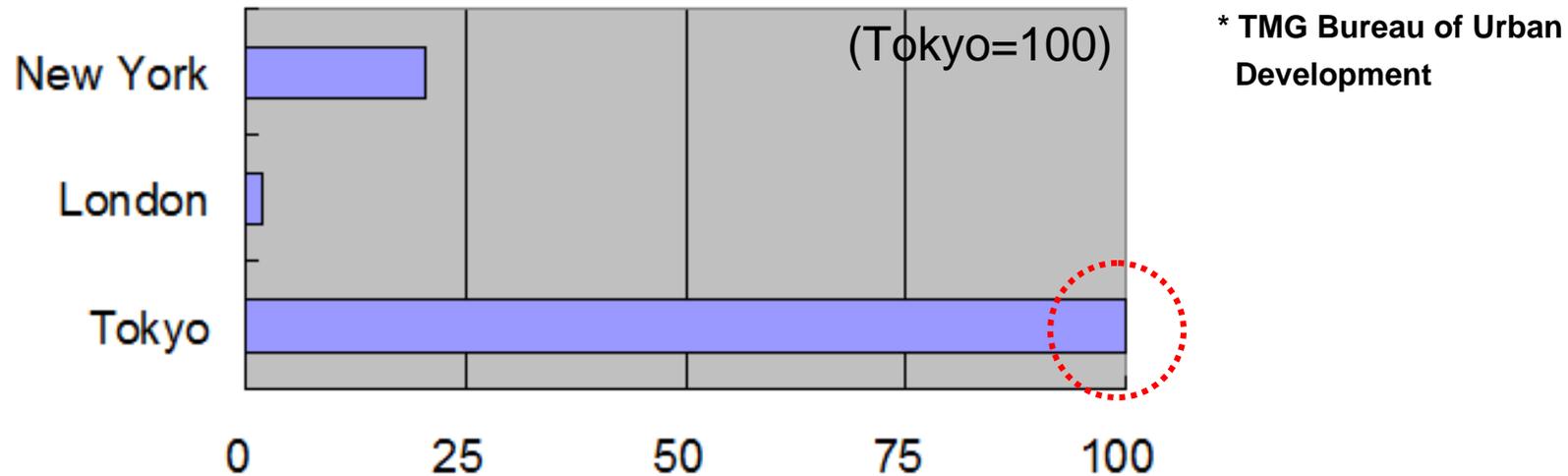
Tokyo Metropolitan Express
Central Circular Route

National Capital Region
Central Loop Road



② Transportation impeded by railroad crossings

■ Concentration of crossing (Index)



■ Number of crossings . . . about 1,130 (※1)

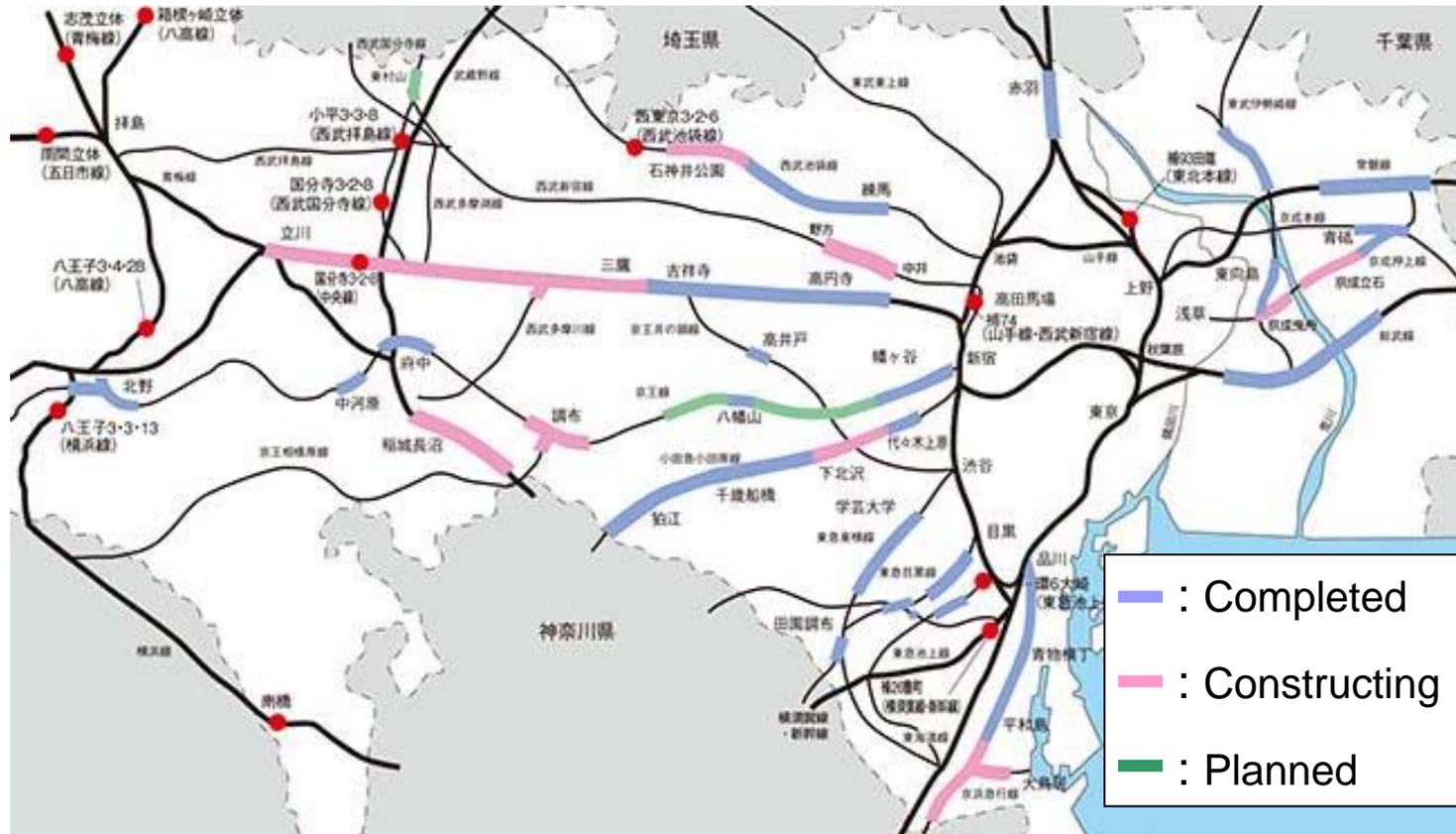
■ Number of “no open crossings” (※2) . . . about 260 (※1)

※1 2011.7

※2 crossings not open 40 minutes per hour at the peak time



Overpasses & underpasses



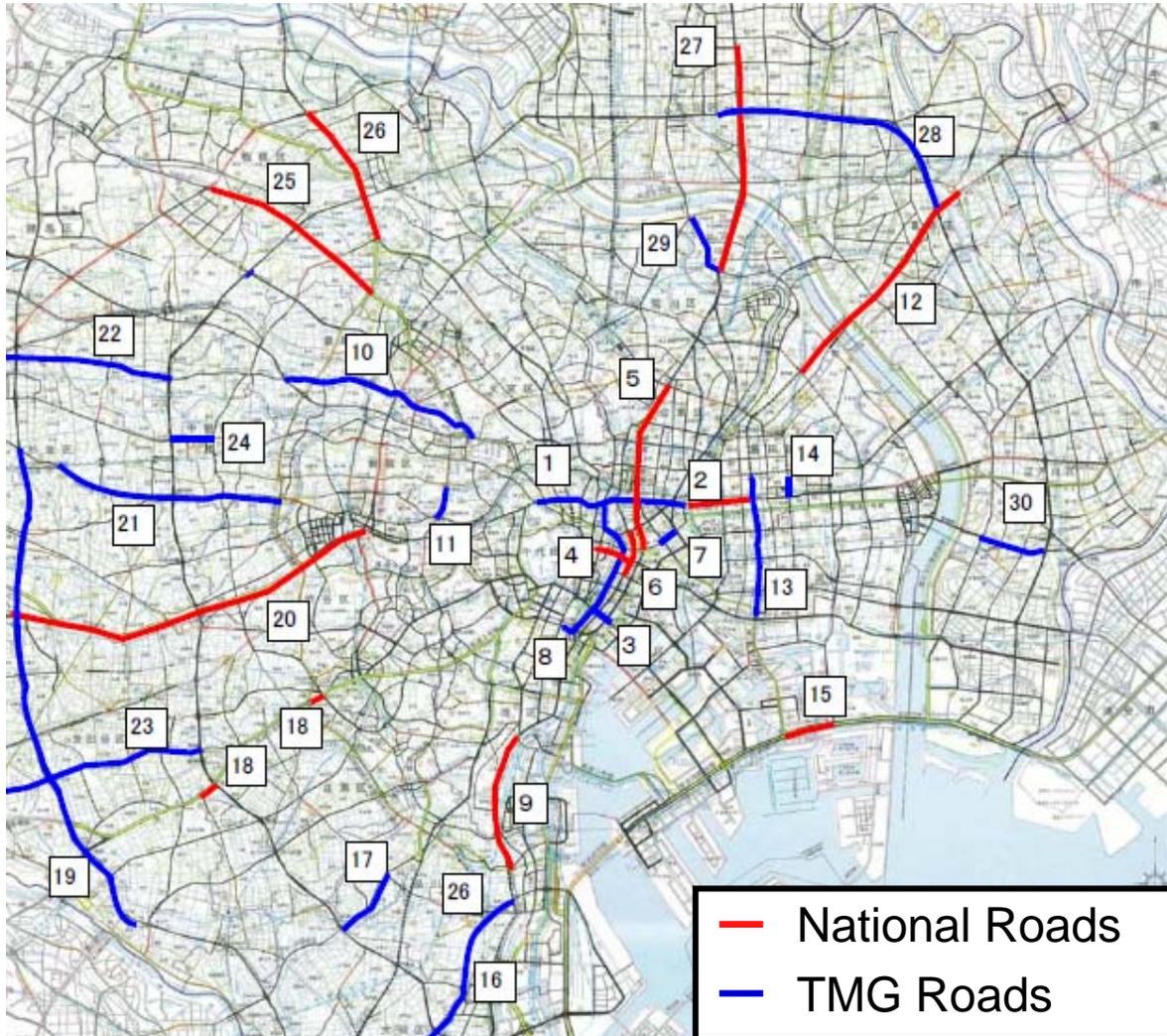
(2013.4)

* TMG Bureau of Construction



③ Chronic congestion

- 30 routes suffering from severe congestion



* TMG Office for Youth Affairs and Public Safety



■ “Hyper-smooth campaign” (some parts)

《Using ITS technologies》



“Hyper-susumu Kun”

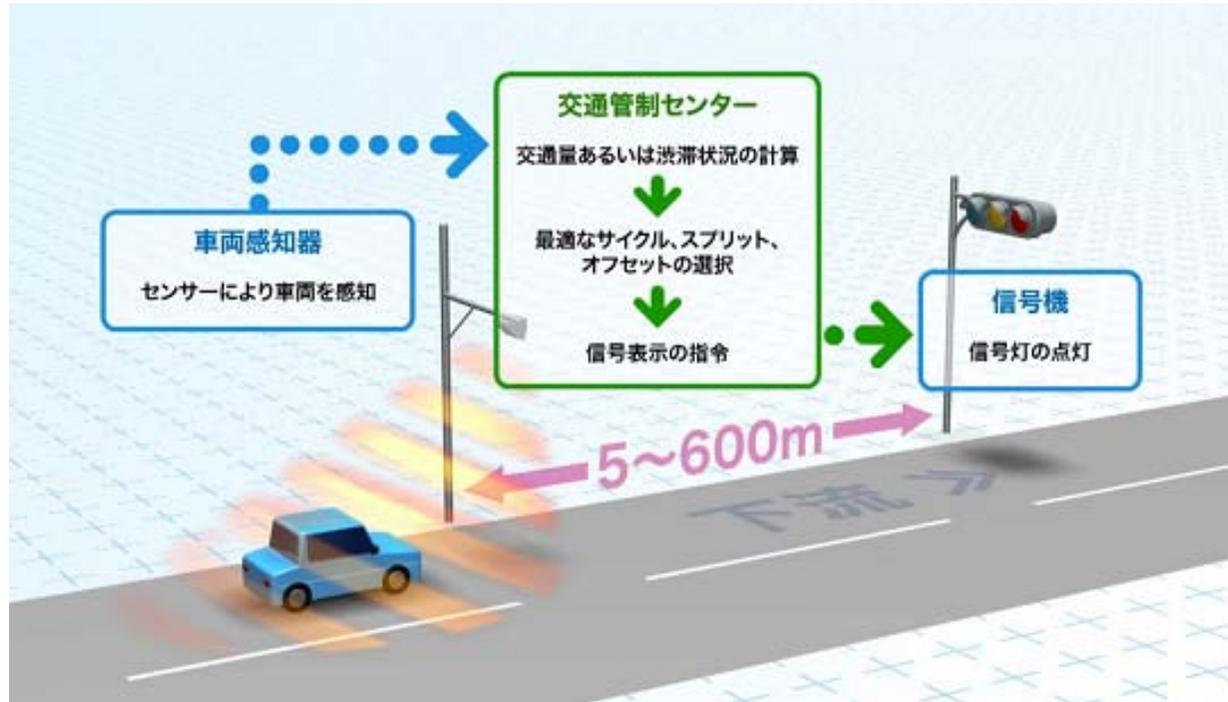
- Traffic-demand predicting signals
- Traffic information boards
- PTPS

12.3% reduction of peak travel time



3. Measures Using the ITS technologies

① Traffic-demand predicting signals

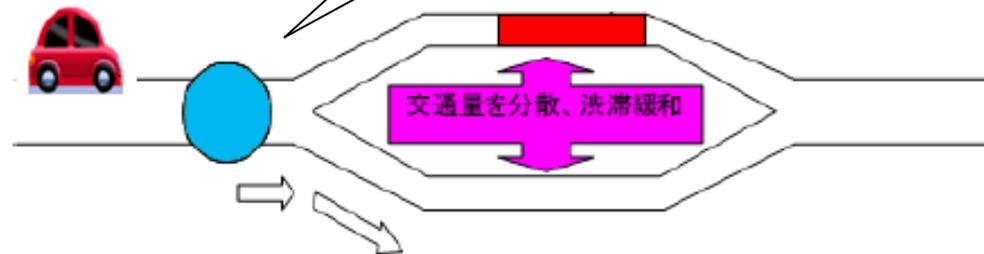


* TMG Office for Youth
Affairs and Public Safety

- System . . . predict traffic volume coming to intersection and control signals
- Characteristic . . . make prediction
- Effect . . . cope with sudden traffic change



② Traffic information boards

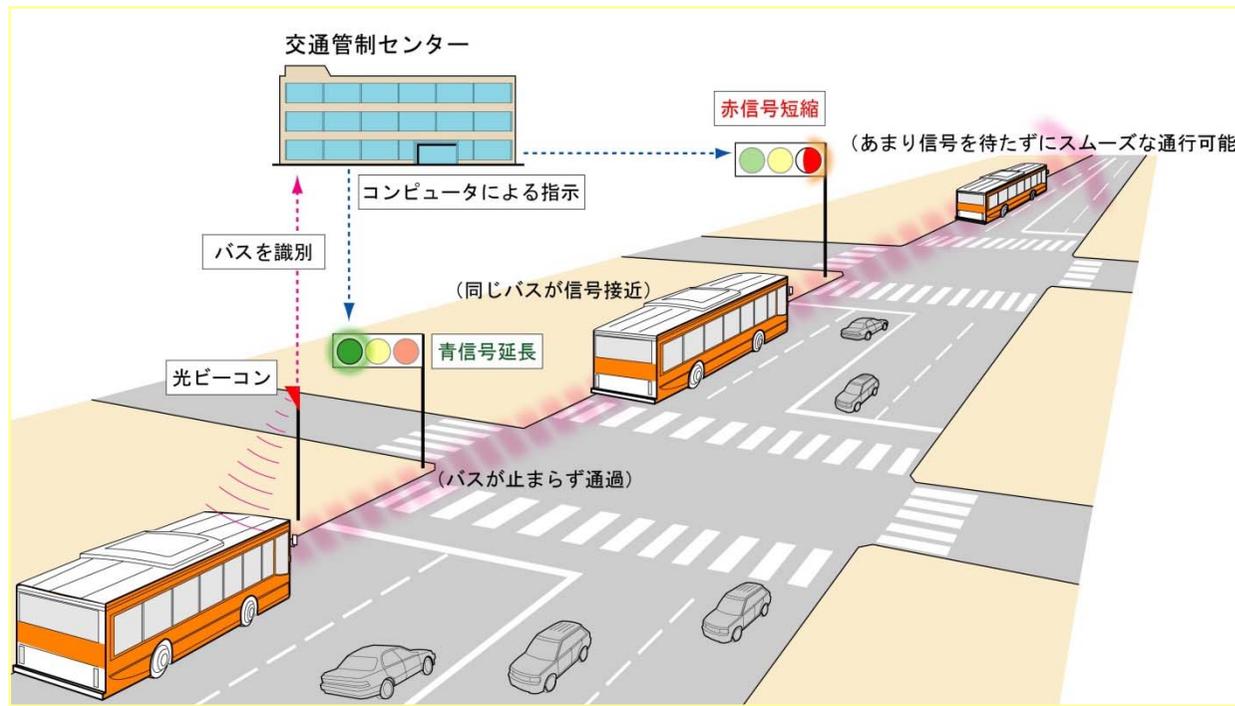


* TMG Office for Youth
Affairs and Public Safety

- System . . . provide traffic information like congestion spots and time required
- Characteristic . . . allow drivers to use other routes
- Effect . . . traffic volume spread



③ PTPS (Public Transportation Priority System)

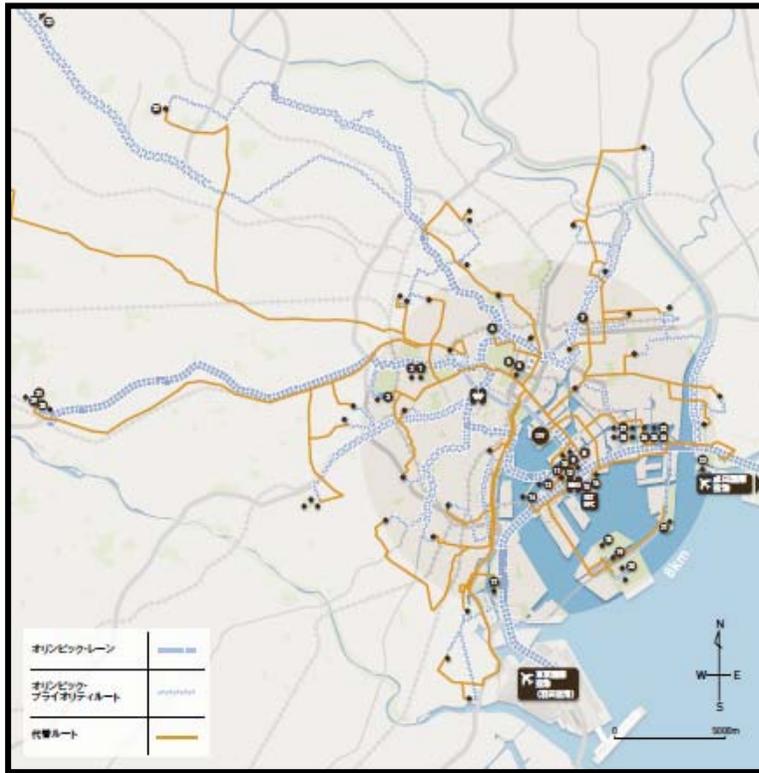


* TMG Bureau of Urban Development

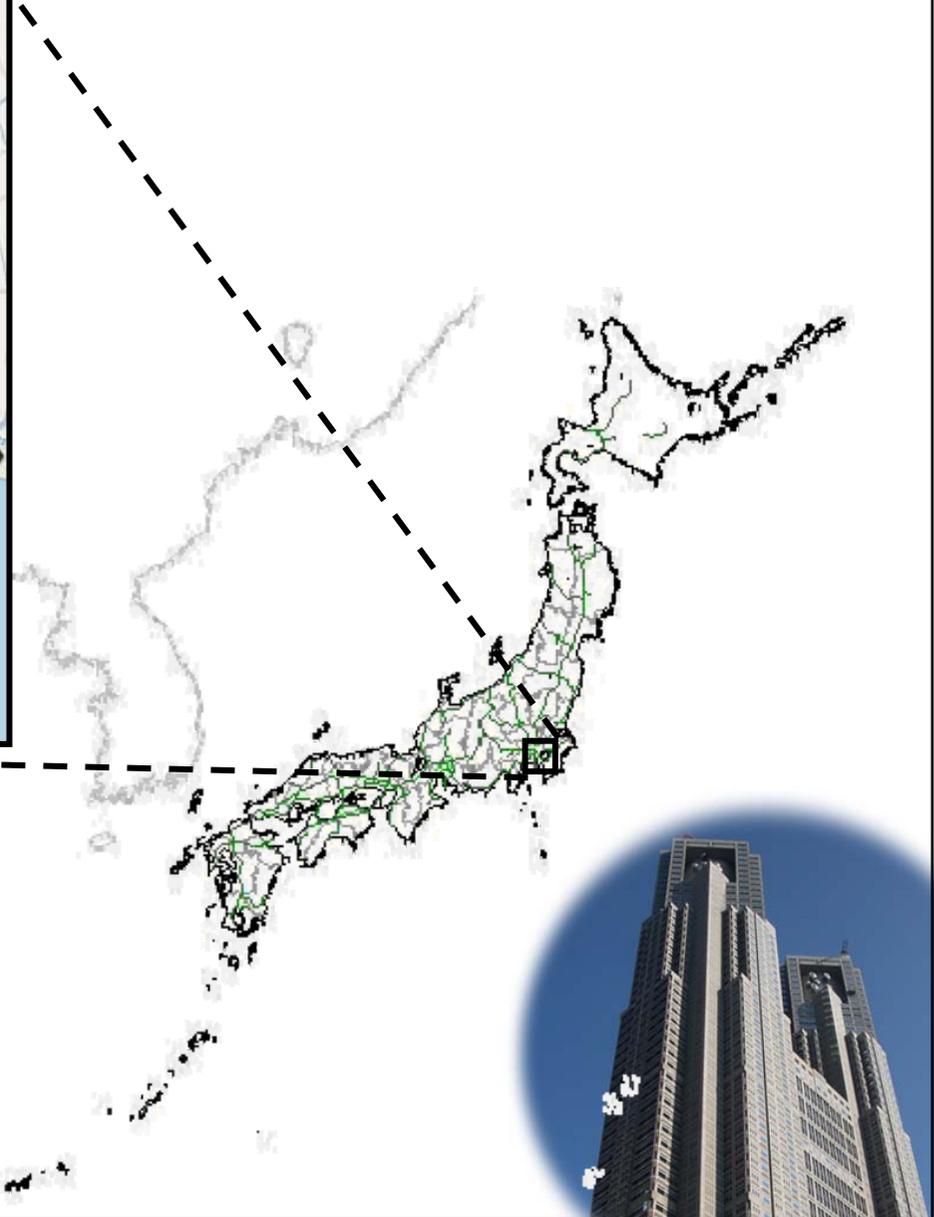
- System . . . When bus passes, shortening red signals and the extending green ones are directed
- Characteristic . . . on-time running
- Effect . . . improvement of usefulness & comfort



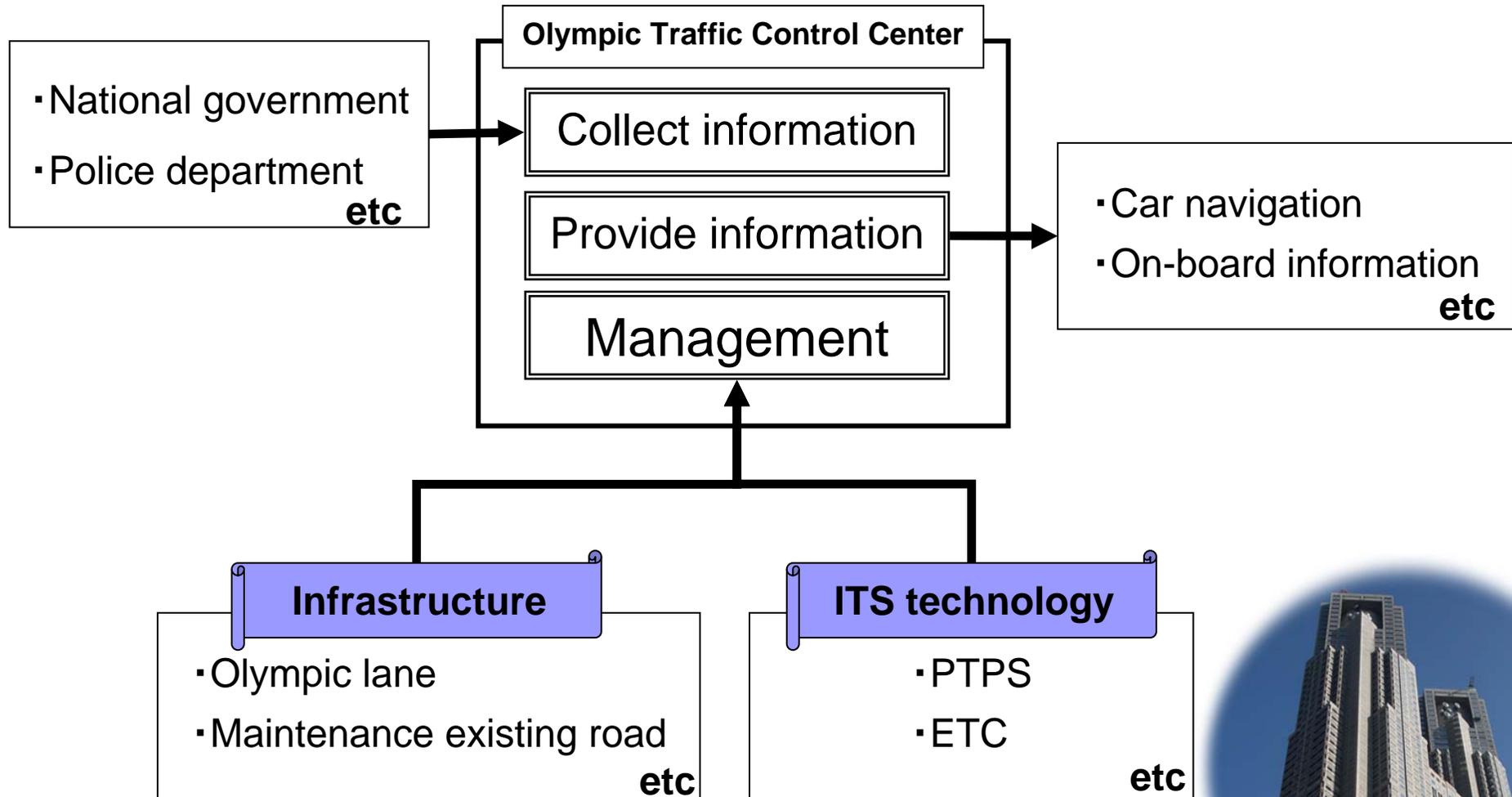
4. Heading towards 2020 Olympic Games



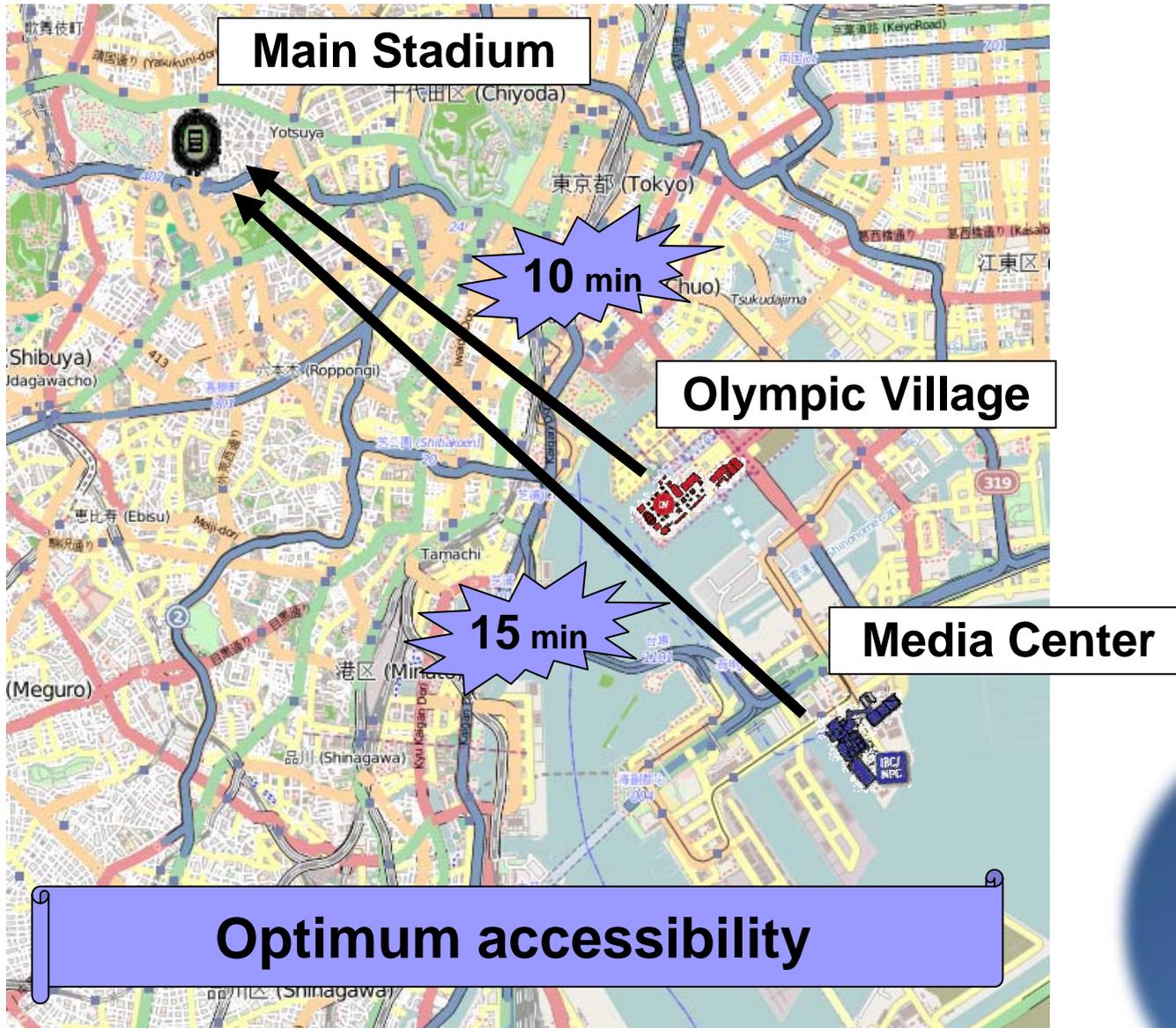
* TMG Bureau of Sports



① Management plan



② Transportation example

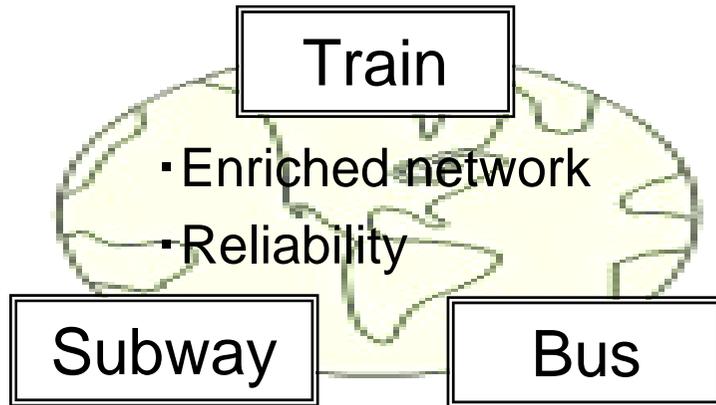


* TMG Bureau of Sports

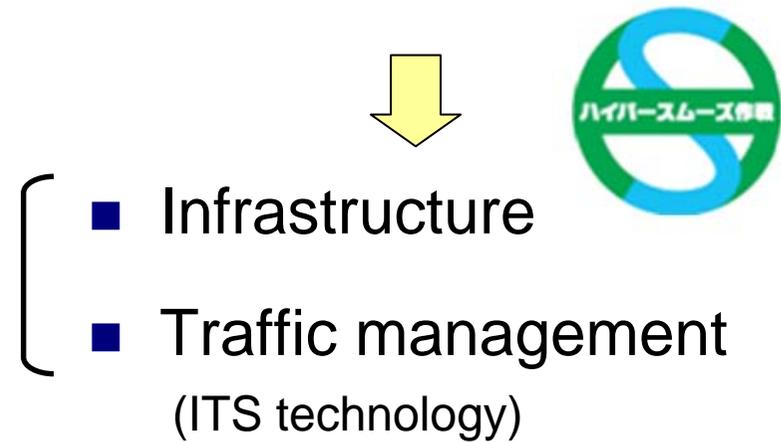


5. Conclusion

- Developed public transportation



- Traffic congestion



Safe and less stressing transportation

Smooth transportation at 2020 Olympic Games!



**Thank you for
your attention!**



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