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# **Reinforcing International Competitiveness of Cities**

# Moritaka Sato, Division Manager Urban Renewal Promotion Division, City Bureau, Ministry of Land, Infrastructure, Transport and Tourism



Ministry of Land, Infrastructure, Transport and Tourism

# **Present Condition of Japan's Cities**



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# Japan's topography



O International companies, etc. recognize Japan (Tokyo) as being located in the Far East, in a place that is <u>inferior</u> in terms of location to <u>Singapore</u>, which has excellent <u>access to ASEAN countries</u>, etc. and <u>Hong</u> <u>Kong</u>, which has excellent access to <u>China</u>, etc.



# Japan's urban composition





## **Risk of Disaster in Japan's Cities**





No. of fatalities: Approx. 140,000 (90% caused by fire) Complete or partial destruction: Approx. 250,000 houses Town area destroyed by fire: Approx. 3,500ha (approx. 44%)



Scene after disaster (Kyobashi, Tokyo)

#### Great Hanshin Earthquake (1995)

No. of fatalities: Approx. 6,400
(80% caused by collapsing structures)
Complete or partial destruction: Approx. 210,000 houses
Town area destroyed by fire: Approx. 7,500 houses
Road blockages caused by building collapse



Scene after disaster (Kobe City)

#### Great East Japan Earthquake Disaster (2011)

No. of fatalities: Approx. 19,000 (90% caused by tsunami)
Complete or partial destruction: Approx. 400,000 houses
No. of persons with difficulty returning home: Approximately 5.15 million (Tokyo area)
Wide-ranging liquefaction/landslide collapse damage



Scene after disaster (Kesennuma City)



### **Requirements for offices in Tokyo**



For city center business location areas supporting Japan's international competitiveness, energy selfreliance/multiplexing, etc. are challenges for the resolution of vulnerabilities.

OSince the Great East Japan Earthquake Disaster, companies planning on BCP have greatly increased and companies' disaster response awareness has been increasing. OWhen continuing business in time of disaster, infrastructure such as electric power becomes bottlenecked.



January 10, 2013 Extract from materials published by Mori Building Corporation

Oln terms of building functions to be focused on when selecting office buildings, more than 80% of companies mentioned "Ability to have power supply in time of power outage".





Source: Factual investigation of business continuation in specific fields (2013, Cabinet Office)

Companies with the intention of taking out new office leases mentioned buildings with high-grade equipment and excellent earthquake resistance, etc.

Common responses in Tokyo office needs survey:

- ·Want to move to building with excellent earthquake resistance
- •Want to move to building with high-grade equipment
- ·Want to move to building with excellent disaster prevention system/backup system
- ·Want to move to building with excellent security

Policy towards Reinforcing International Competitiveness of Cities



Ministry of Land, Infrastructure, Transport and Tourism



#### Targeted form of large cities

(1)A town where it is easy to do business globally (2)A town where it is easy for aged persons to live and for children to be born (3)A beautiful town overflowing with water and greenery, and rich with history and culture (4)A safe town with peace of mind

3 basic policies	
<ul> <li>3 basic policies</li> <li>1. Acceleration of favorable circulation of urban regeneration</li> <li>Deepening urban regeneration system (Enhancing international competitiveness)</li> </ul>	<ul> <li>2. Formation of large city "compact + network" Promotion of new public transported-oriented urban development</li> <li>Urban development alongside railway lines by government and people together         <ul> <li>Environmental maintenance to deal with low birth rate/ageing society             (Making doctors' surgeries closer to housing, etc.)</li> <li>Conservation/regeneration of water and greenery/farming             (Conservation/regeneration of water and greenery,             conservation/application of urban agricultural land, etc.)</li> </ul> </li> </ul>
of cities) <ul> <li>Implementation of cutting-edge disaster</li> <li>prevention/reduction functions</li> <li>(City ensuring business continuation and</li> </ul>	
Efficient distribution environment     maintenance     (Repeated maintenance of distribution     locations/optimization of device distribution)	

### 3. Construction of disaster-resilient large cities (disaster prevention/reduction)

·Wide area disaster prevention/reduction initiatives ·Improvement of dense urban areas ·Improving safety of underground shopping centers, etc.

In relation to the above, the following viewpoints are important: "Make use of and expand cities' individual accumulation", "Ensure greater diversity/sustainability with cooperation/mutual complementation"

## ⇒ In large city policy, emphasis is given to enhancing cities' international competitiveness improving their disaster prevention performance







Focusing on the 2020 Tokyo Olympics, Japan's large cities, like cities such as New York and London, are promoting private urban development projects on both hard and soft sides while flexibly maintaining and applying existing urban infrastructure in order to improve international business environment and disaster prevention performance, etc. so as to propel the economy of the whole country as locations for economic activities that go beyond national borders.

In particular, the business center locations of large cities accumulate world-standard business functions/residential functions by promoting infrastructure maintenance, calling in international investment and personnel, and enhancing international competitiveness.



Formation of international business locations/world-standard residential spaces

Taking into account the effects on the social economy of large-scale disasters in regions where urban functions are accumulated, based on the large-scale chaos when up to approximately 5.15 million people in the Tokyo area had difficulty returning home, etc. in the Great East Japan Earthquake Disaster, there is support for both hard and soft integrated, systematic countermeasures through cooperation between government and people in order to ensure the safety of people staying in urban regeneration urgent maintenance regions, main stations and areas around central stations, and continue urban functions.

Urban regeneration urgent maintenance regions + main stations + areas around <u>central stations</u>

Conference for urban regeneration urgent maintenance regions/people with difficult returning home countermeasures

# O Formation of urban regeneration safety guarantee plan/area disaster prevention plan

- Maintenance and management of evacuation routes, evacuation facilities, emergency reserves storehouses, etc.
- · Contents of work to be carried out in time of disaster (evacuation guidance,
- information collection/provision, provision of stored supplies, etc.)
- · Contents of training carried out in normal times, etc.

Both soft and hard countermeasures based on plans

#### Soft countermeasures

Establishment of disaster drills, information transmission rules and emergency reserve rules, and formation of rules relating to evacuation methods and securing evacuation facilities, etc.





#### Hard countermeasures

Maintenance of disaster prevention emergency reserve storehouses, emergency communication/information provision facilities, emergency power generators, etc.









### **City Future Gallery (temporary name) concept**

Establishing centralized opportunities to enable people to personally experience the development of Tokyo as a global city, changes in urban development, and future plans, etc. will lead to initiatives for inbound demand, such as transmitting the appeal of Japan's cities, calling out to foreign companies and advanced foreign personnel, and attracting foreign tourists, etc., as well as outbound promotion such as overseas expansion of urban development and promoting export of infrastructure systems, etc.

#### Tokyo locations (hub functions)

Facilities transmitting in an impressive, easy-to-understand way that origins, future vision and advanced infrastructure technology, etc. of Japan's cities City model & projection mapping Simulated experience equipment

argets: Investors, overseas businesspersons/



⇒Data of places, etc. related to images on-screen is plotted by projection mapping onto a city model

⇒ Personal experience of history of Tokyo, etc. (processes and changes from past to present to future, etc.) by wearing a VR (Virtual Reality) headset

Cutting-edge technology systems



⇒Exhibiting and providing personal experience of cutting-edge equipment such as robot guides and new forms of mobility, etc.

### **MIPIM 2018**

Exhibiting at one of the world's largest real estate trade fairs, organized by Reed Midem (\*2) and held every March in Cannes, France. Approximately 24,200 people participated in MIPIM 2017 (Cannes), held in March 2017. In 2018, it will be held from March 13 (Tue.) to 16 (Fri.).





Transmitting information of urban foundation technology

Production of portal site (in Japanese and English) to serve as receptacle for company-crossing information transmission through cooperation between government and people as an initiative aimed at 2020 for city sales and overseas expansion of urban foundation technology (transport, city development, etc.)

<u>http://www.uit.gr.jp/info-porta</u>...

