# Recent Urban Development in Tokyo

Sayaka Fujii

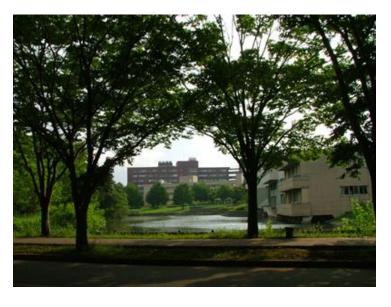
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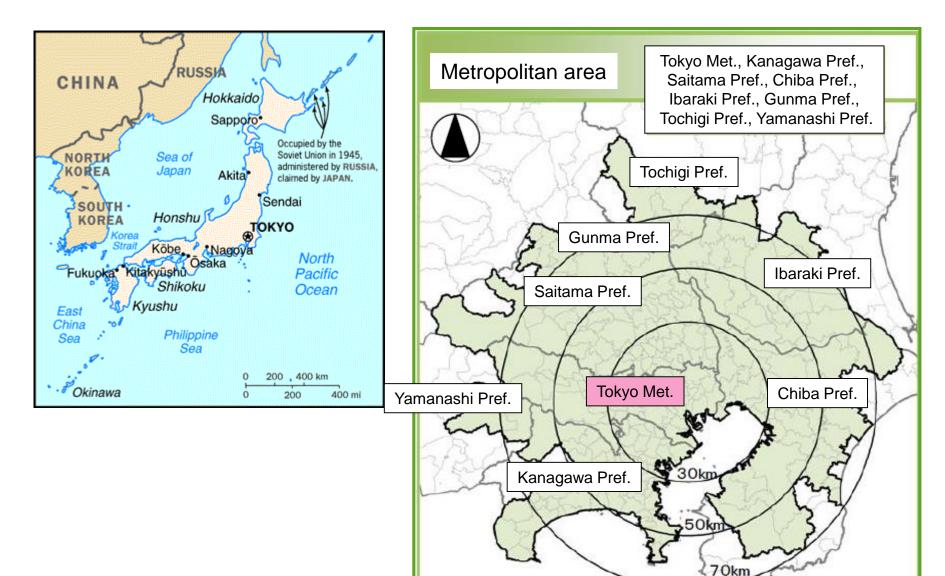
#### Urban Structure of Tokyo

- Location and Metropolitan area
- Urban Zones in Tokyo

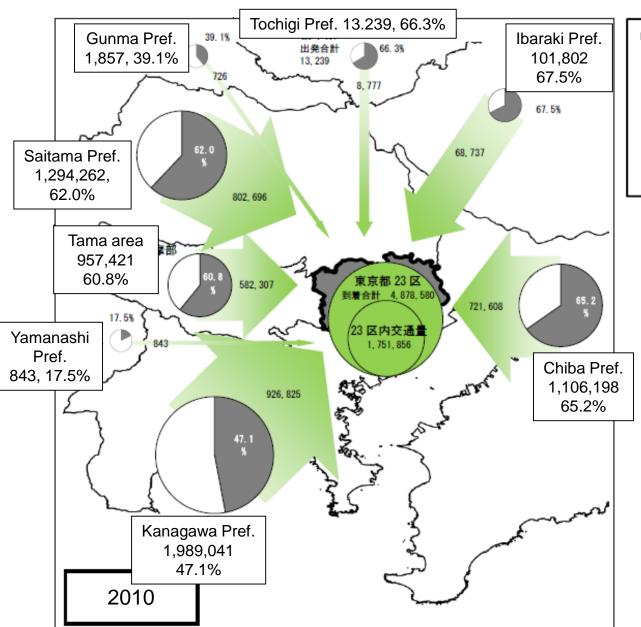
#### Urban Issues of Tokyo

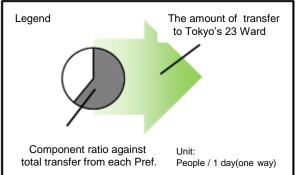
- Aging and Shrinking population
- Disaster Prevention
- International Competition & Olympic Game 2020
- Energy and Environment

#### **Location of Tokyo**



# **Urban Structure of Tokyo**



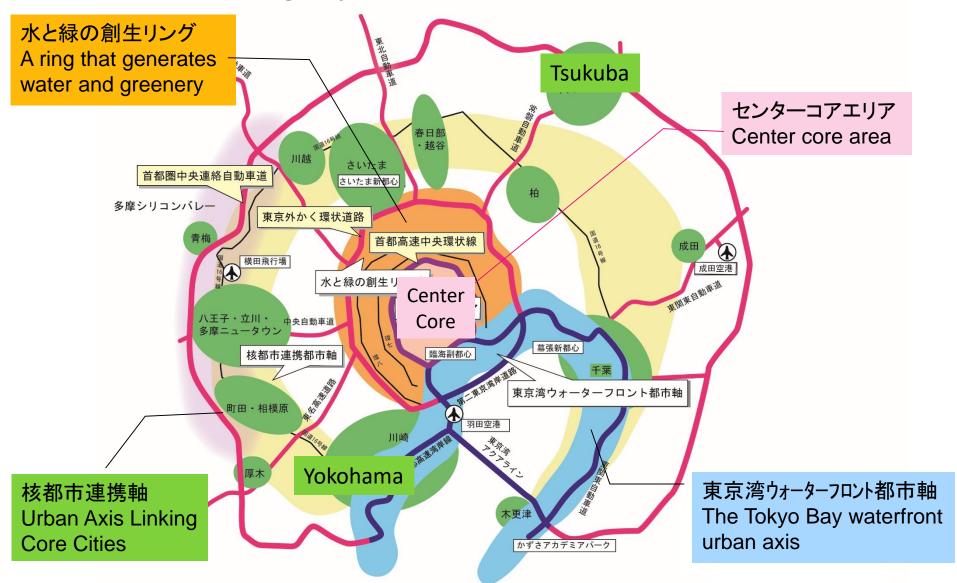


Total Trips to Tokyo 23 ward area: 4,879,580 / day

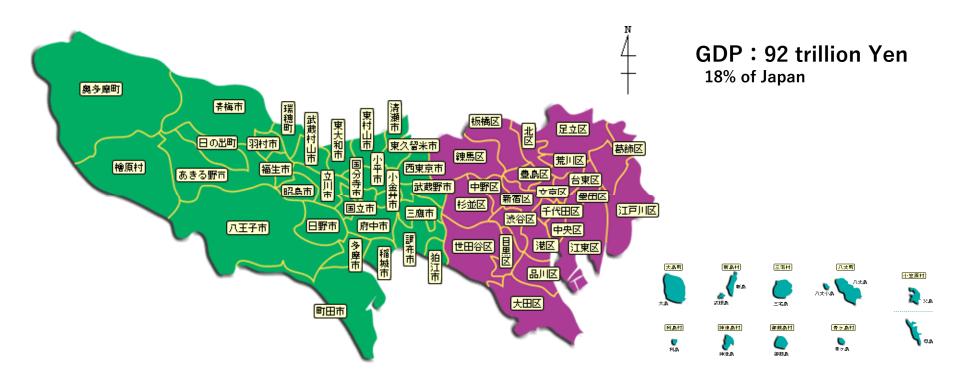
Inside 23 ward area: 1,751,856 / day

# **Urban Structure of Tokyo**

"Circular Megalopolis Structure" 環状メガロポリス構造

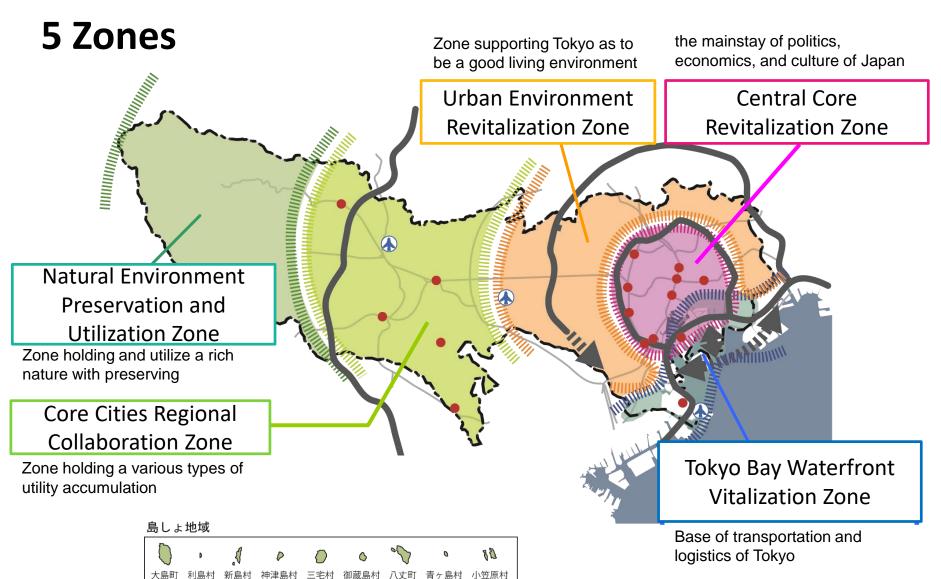


#### Administrative Areas of Tokyo Met.



	Area (km²)	Population	Density (persons/km²)
23 Special wards	617	8,950,000	14,498
26 cities, 3 towns and 1 village in Tama area	1,160	4,190,000	3,608
2 towns and 7villages in islands	401	27,815	69
Total	2,178 0.6% of Japan	13,160,000 10% of Japan	6,042

Date: 1/Oct/2012



#### Central Core Revitalization Zone

Ostrengthening of functions of international business center



- Oimplementation of environmentally-friendly urban development
- Ocreation of the urban spaces surrounded by forests and waterfront
- Ocreation of the urban spaces with its history and culture
- Oimplementation of urban residence for enjoyment of urban life

#### Tokyo Bay Waterfront Vitalization Zone

Oenhancement A Window on the World as an international city Tokyo



- Ointeraction among Asia and world countries
- Oimplementation of environmentally symbiotic urban development
- Odeveloping accessible water front areas as "Waterfront Capital"

# Urban Environment Revitalization Zone

- Odevelopment of Compact City
- Opromoting greenery to coincide with urban development
- Oformation of verdant and affluent landscape
- Odevelopment of affluent residential environment
- Oimprovement of the safety and residential environment

# Core Cities Regional Collaboration Zone

- Obuilding to leading spot to develop Tama as a Vibrant city
- Opromotion of Establishment of New Industrial Facilities
- Oconservation and utilization of Green space and Farmland
- Odevelopment of High quality and deliberate residential area

# Natural Environment Preservation & Utilization Zone

Oestablishing recreational zones with rich nature across Tokyo

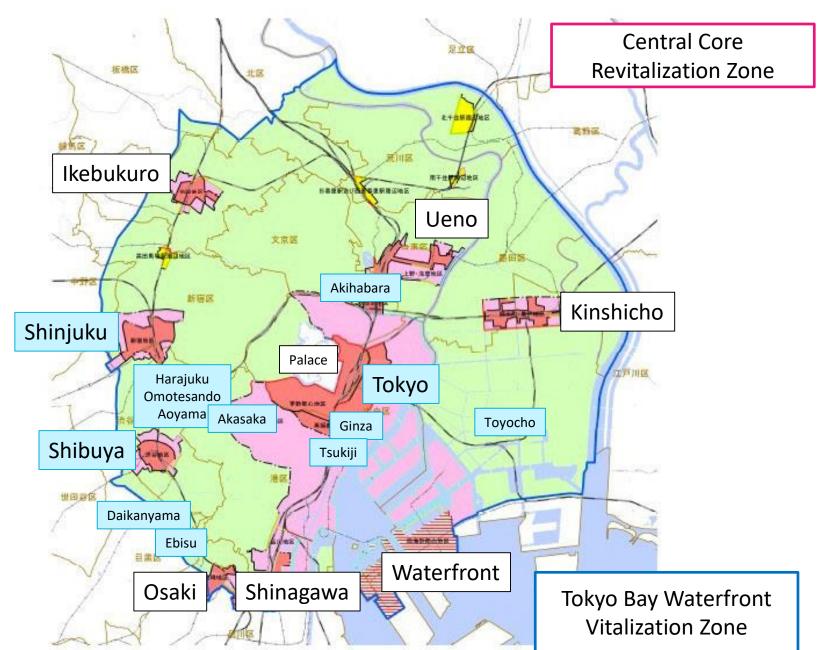


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Orevival of the beautiful forest with softwood and hardwood

(Ogasawara islands (World Heritage by UNESCO))

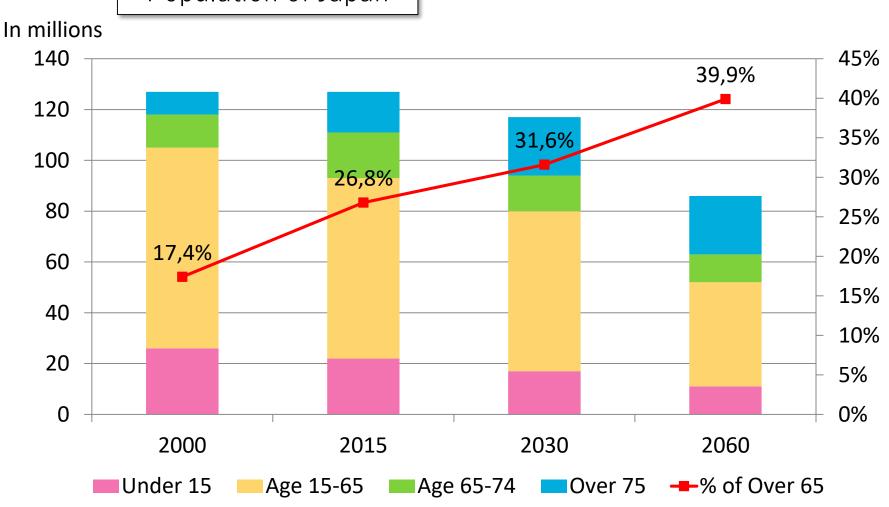
# **Urban Structure of Tokyo**



#### **Urban Issues in Tokyo**

- Aging and Shrinking population
- Disaster Prevention
- International Competition & Olympic Game 2020
- Energy and Environment

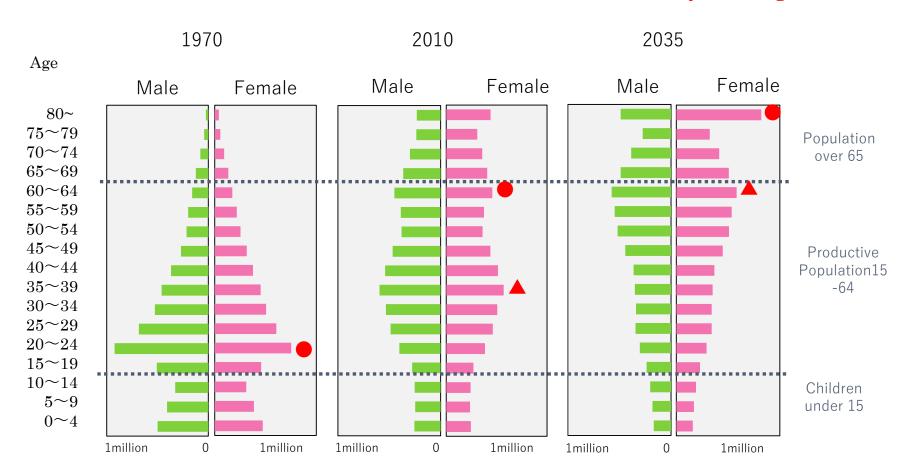
Population of Japan



Population of Tokyo

• Baby-boom generation

▲:Children of Baby-boom generation

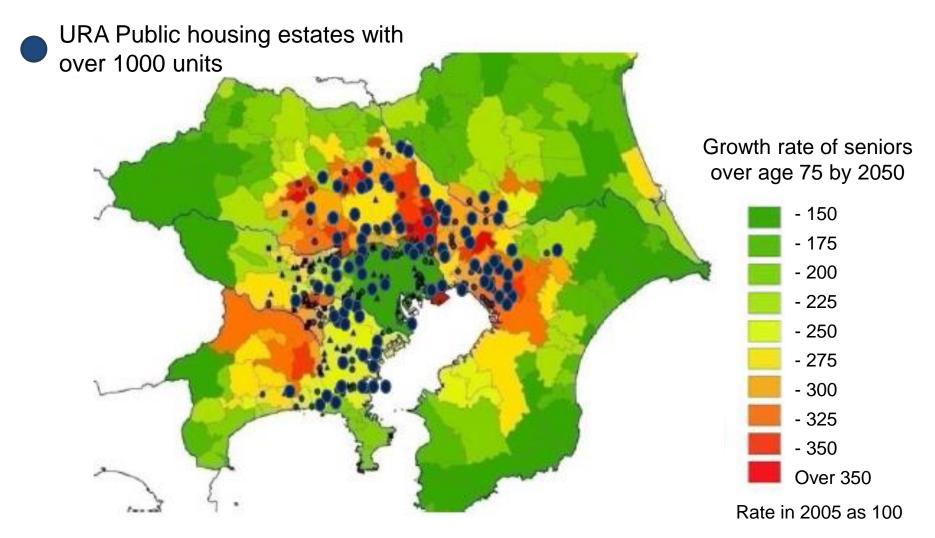


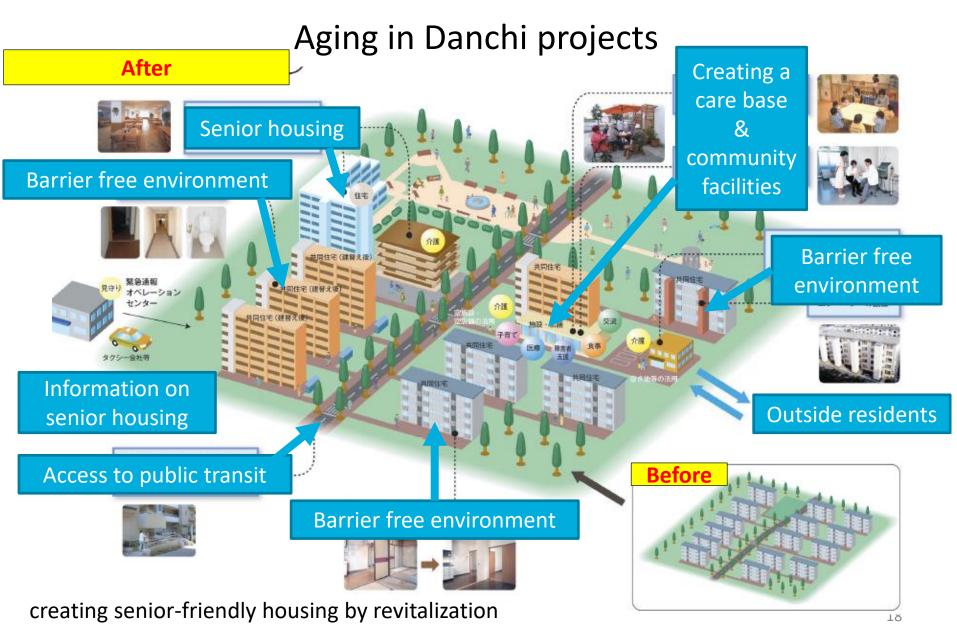
Population Estimation of Tokyo



- 総人口は、今後しばらくは増加を続けるものの、2020年の1,336万人をピークに減少に 転じ、2060年には1,036万人となる。(2010年に比べ約2割減少)
- 高齢者人口は、2040年には404万となる。(2010年に比べ139万人の増加)
- 2060年には生産年齢人口1.4人で1人の高齢者を支える。(2010年には3.3人で1人)16

Aging in large URA public housing estates in Tokyo M. A.





#### **Urban Issues in Tokyo**

- Aging and Shrinking population
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#### **Disaster Prevention**

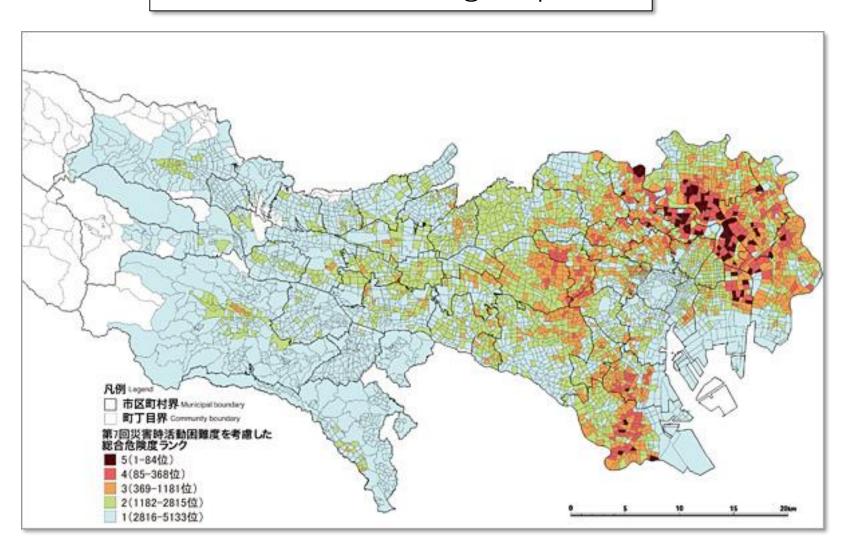
Earthquake center over M5.0 between 1994 and 2003



出典:内閣府HPに加筆

#### **Disaster Prevention**

#### Hazard Ranking Map



#### **Disaster Prevention**

#### Redevelopment in the wooden congested housing area

#### **Before**





Redevelopment project



After

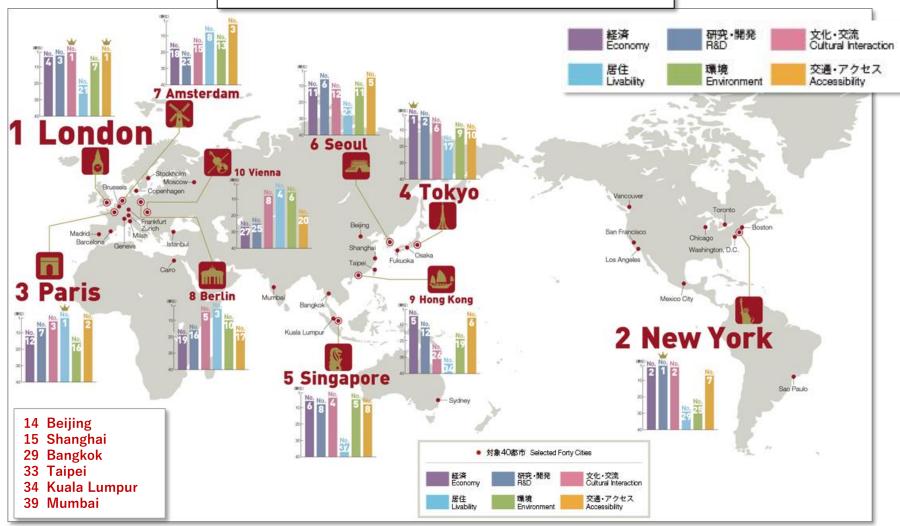


#### **Urban Issues in Tokyo**

- Aging and Shrinking population
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#### **International Competition**

Top 10 Cities by function 2014



# **Olympic Game 2020**

#### 2 Olympics in Tokyo



Postwar development for Tokyo to be a modernized city

Urban transportation developments, such as the super express railway, monorail and highways, were accelerated by the Olympic Rapid economic growth society



Mature urban environment Revitalizing Tokyo and making a new model city for new ara

#### **Olympic Game 2020**

#### 2 Olympics in Tokyo

 Tokyo became a world megalopolis after the rapid growth and urban development after 1964 Olympic









 Tokyo focuses on keywords: Harmony with nature, Environment friendly, History and Culture, Livability etc









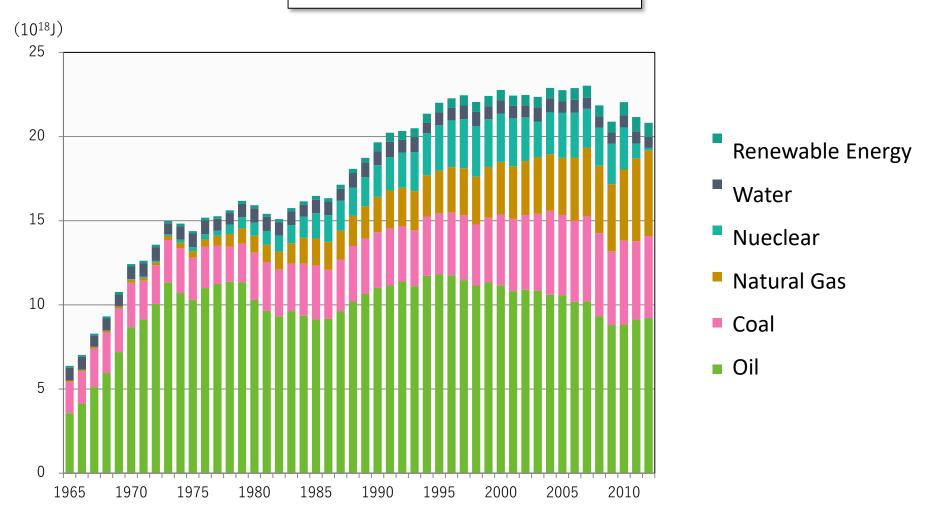
# **Olympic Game 2020**



#### **Urban Issues in Tokyo**

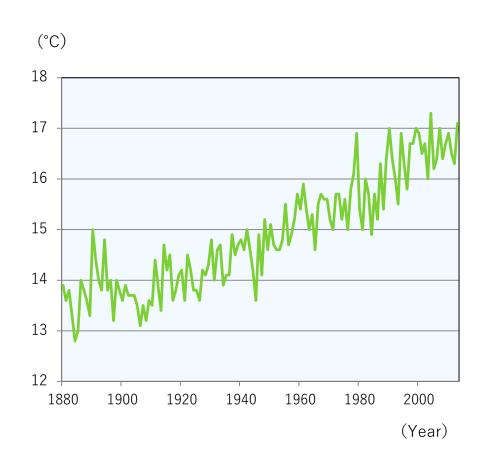
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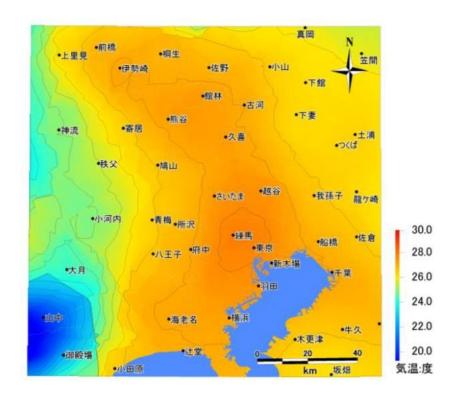
**Energy Source of Japan** 

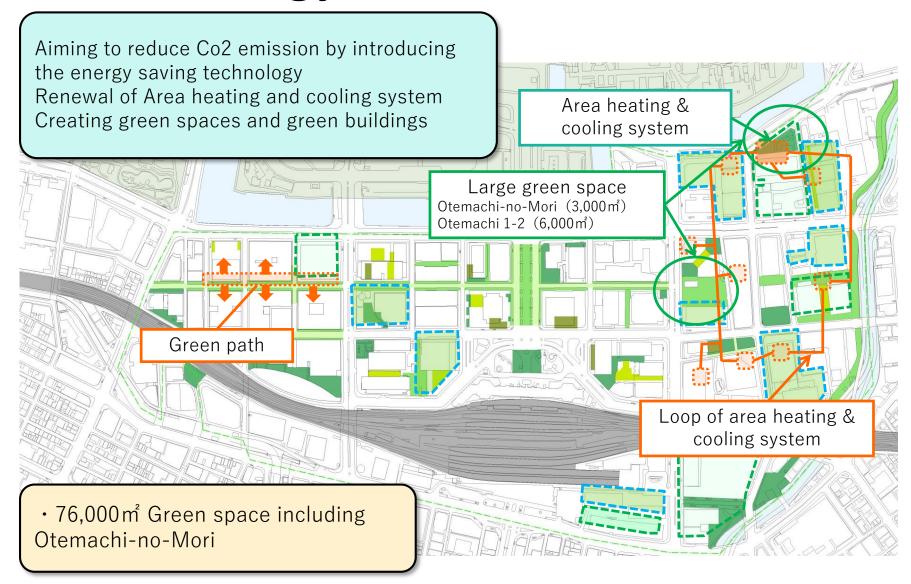


Average Temperature of Tokyo

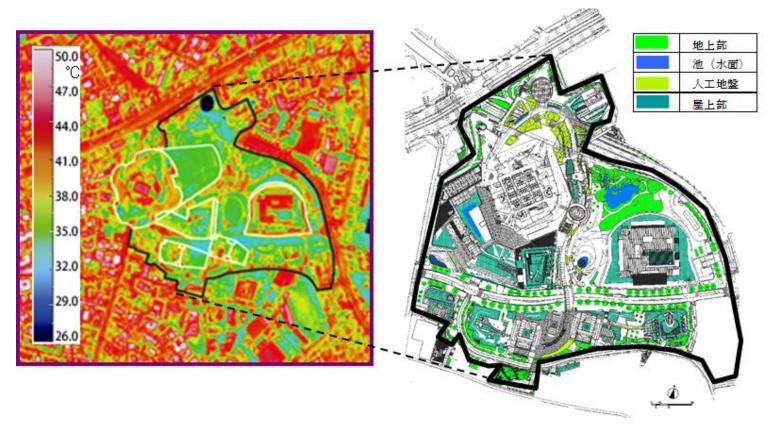
Average Temperature in August In Tokyo Metropolitan area (Average between 2006 and 2010)







Incentive system for constructing green buildings and developments: Developers can build bigger buildings if they create certain amount of green space



: 3ha of green space (25% of site area)

Temperature decreased by creating 3 ha green space in the redevelopment project Average temperature in summer is cooler by 2-3°C than surrounding area

- Advantages of Aging in Danchi projects
  - 1. High concentration of elderly residents
    - It is efficient and effective to build a care base

- 2. Redevelopment enables to provide affordable lands for care bases and cover costs of revitalization
- 3. Benefits of URA public housing resources
  - Green spaces and close-knit communities attract new residents

Revitalization projects						
To create care bases for						
the elderly in 100 estates						
by 2020						
	00000					
40 000	40 000					
40 000	20 000					
80 000	20 000					
570 000						
10 000	10 000					
30 000	20 000					
	To create can the elderly in by 2020  40 000 40 000 80 000 570 000 10 000					