

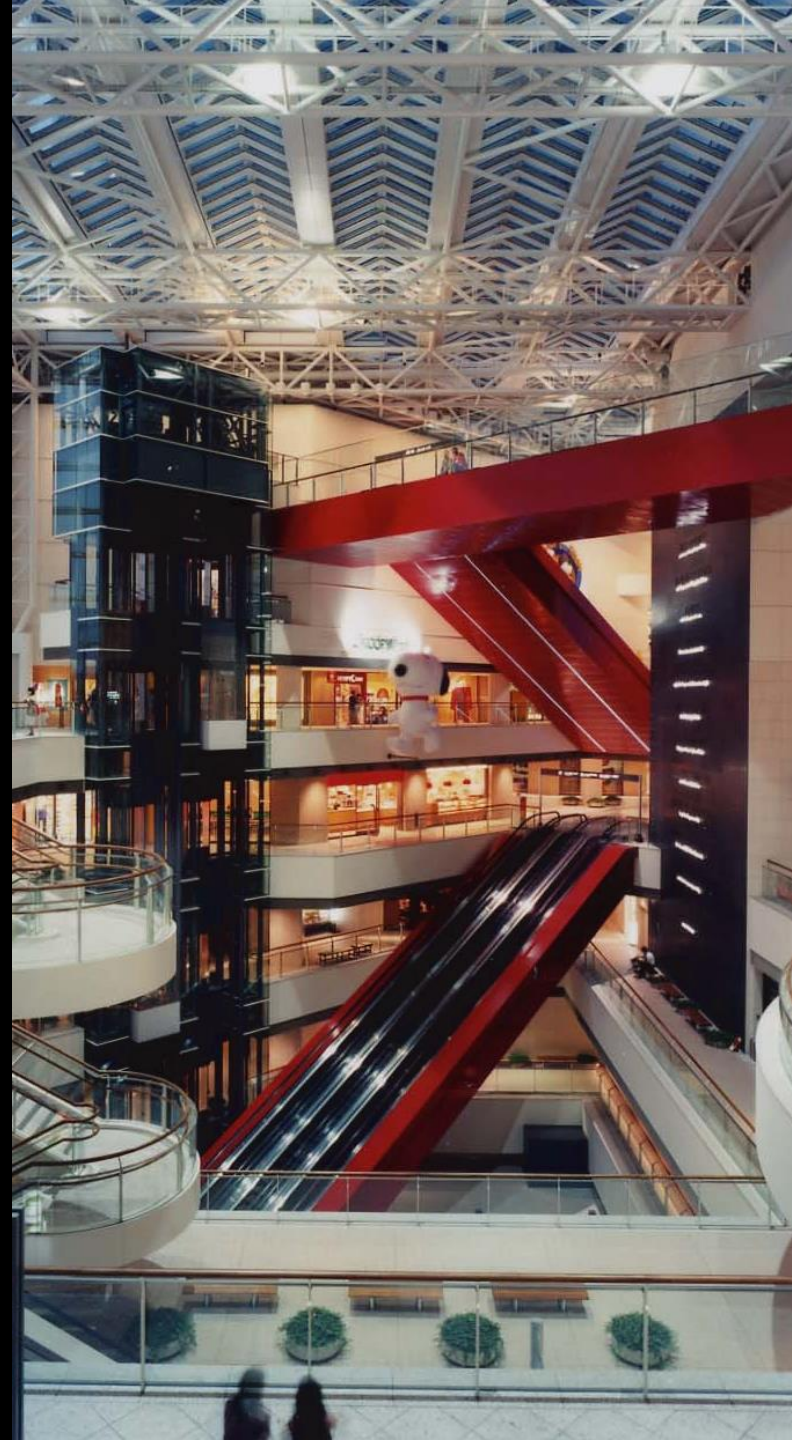
TOD Project Practices in Japan

Oct 15, 2014

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1. What is **T**ransit **O**riented **D**evelopment ?

1. What is Transit Oriented Development ?

Public Transit

- Railway
- Bus & Taxi
- Bike
- Walking



TOD



- City
- Building
- Infrastructure
- Station

Urban Development

1. What is Transit Oriented Development ?

Public Transit

- Railway
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Integrated by

- Pedestrian Network
- Advanced ICT
- Governance



TOD



- City
- Building
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Urban Development

1. What is Transit Oriented Development ?

Public Transit

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Integrated by

- Pedestrian Network
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TOD

- achieving
- Environmental
 - Financial
 - Social

Sustainability



- City
- Building
- Infrastructure
- Station

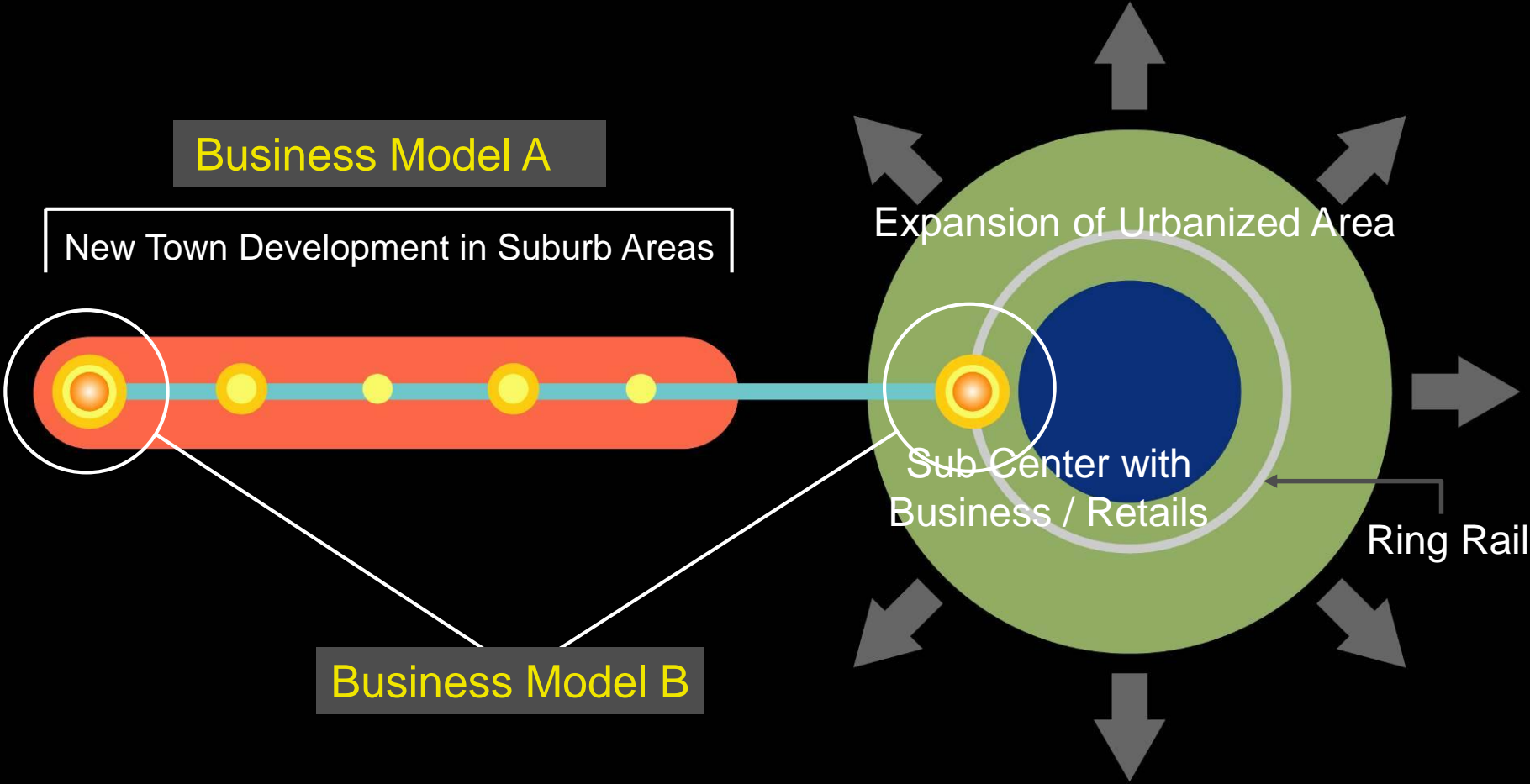
Urban Development



2. Rail Transit in JAPAN and its Development

2. Rail Transit in Japan and its development

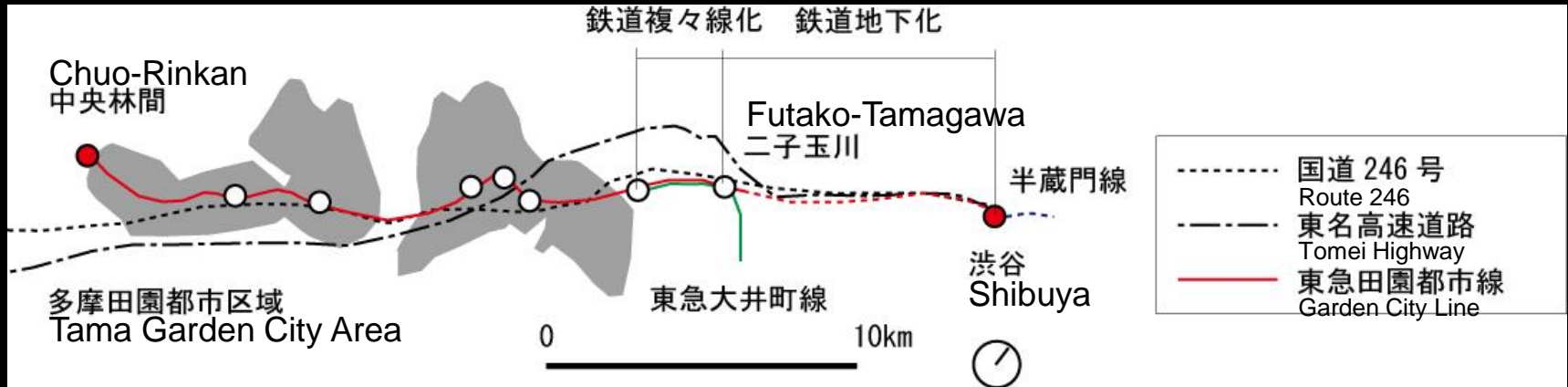
<Growth Model of Tokyo Metropolitan Area by Railways>



2. Rail Transit in Japan and its development

<Suburban Development Model by Private Railway Company>

Garden City Line & Tama Garden City case



[Total development area] about 5,000ha

[Number of population] about 500,000 residents [Population density] 100 residents per ha

1968

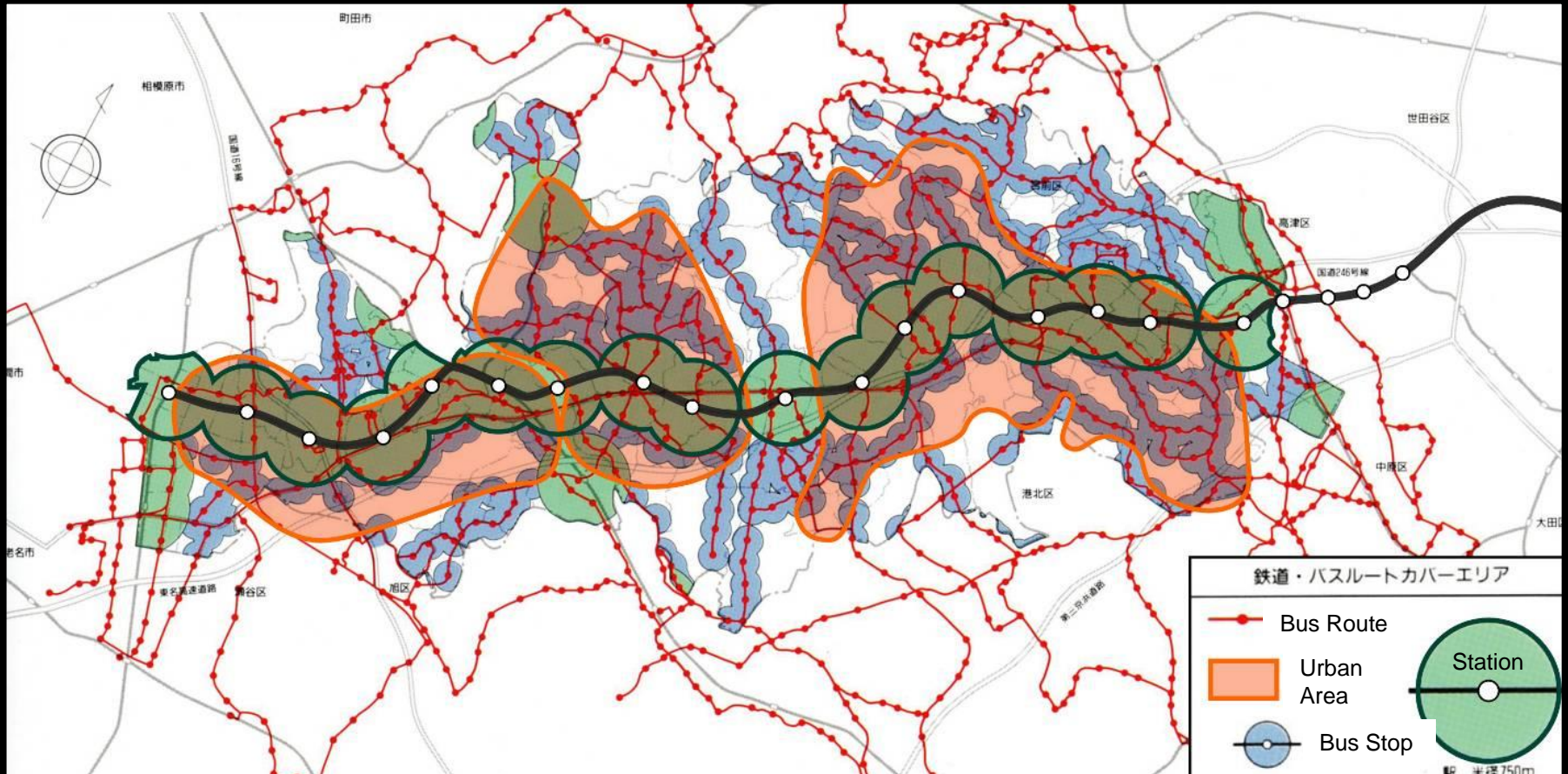


1974



2. Rail Transit in Japan and its development

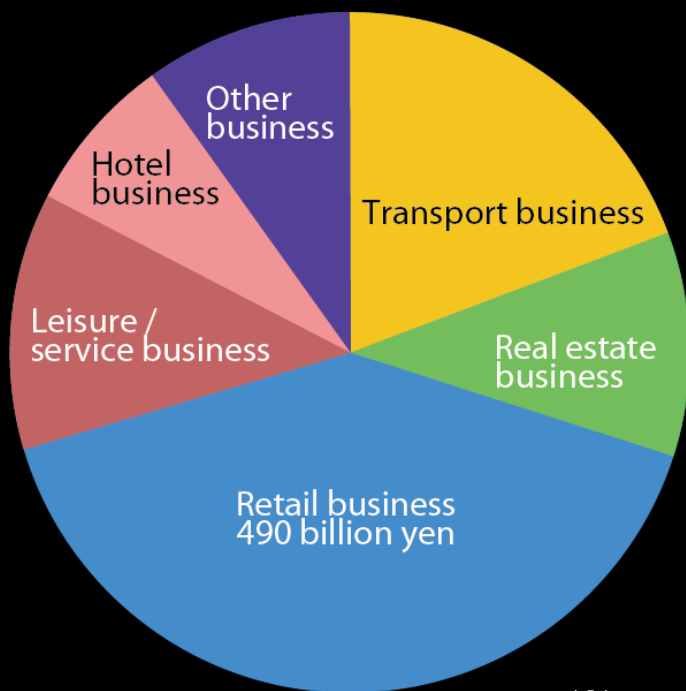
<Railway / Bus Networks and Development Areas>



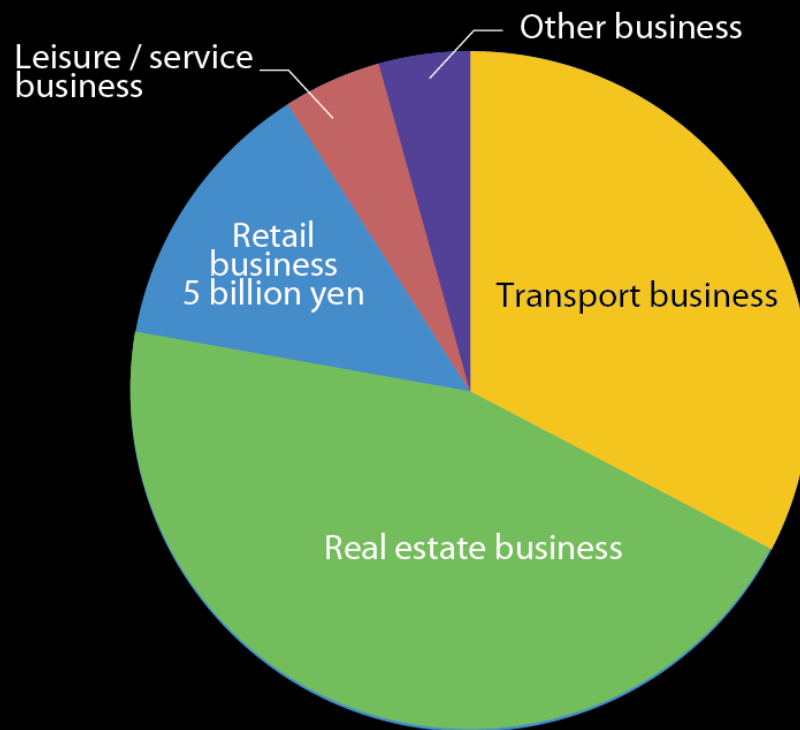
2. Rail Transit in Japan and its development

<Revenue Source of Private Railway Sector>

Operation income ratio according to business (consolidated)



Operation profit ratio according to business



※Tokyu Corporation 2013

3. Station Redevelopment Practices

(planned/designed by NIKKEN SEKKEI)

3. Station Redevelopment Practices

SEAMLESS CONNECTION

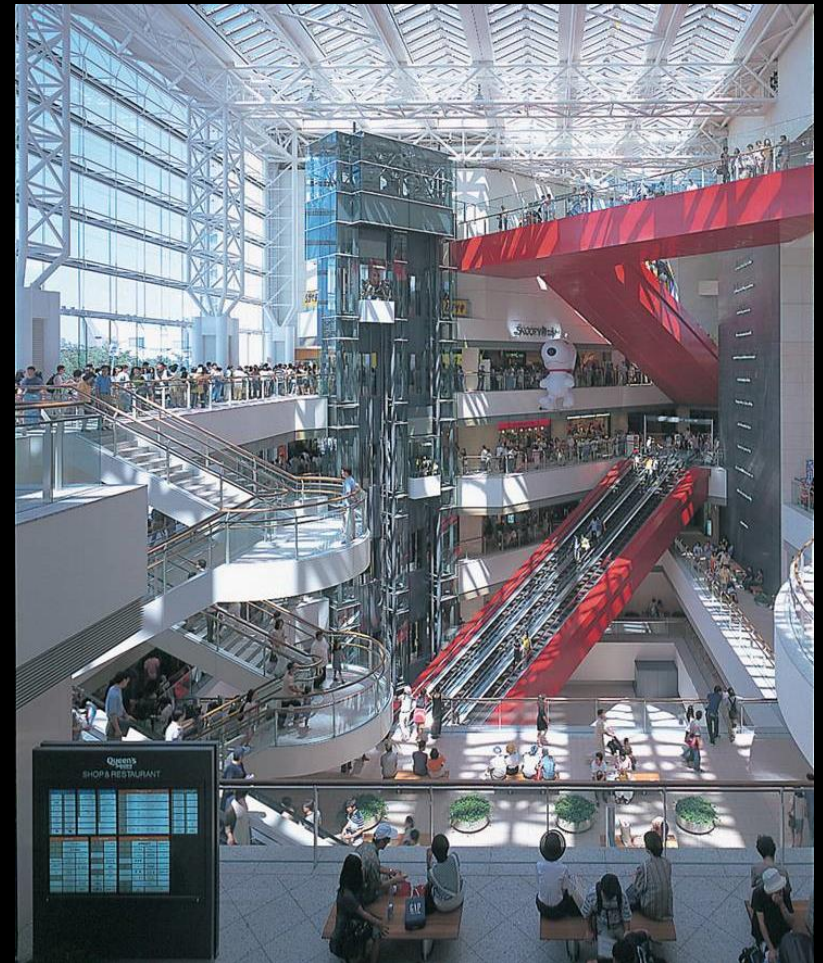
IZUMI GARDEN (1 Metro)



3. Station Redevelopment Practices

EMBRACING STATION

YOKOHAMA QUEENS SQUARE (1 Metro)



3. Station Redevelopment Practices

MULTI-LAYERING

FUKUOKA SOLARIA TENJIN TERMINAL

(1 Rail + 1 Bus Terminal)



RESTRUCTURING NETWORK

SHIBUYA STATION District Redevelopment (3 Metro + 4 Rail + 2 Bus Terminal)



3. Station Redevelopment Practices



OSAKA GRAND FRONT
(Multi-Rail)

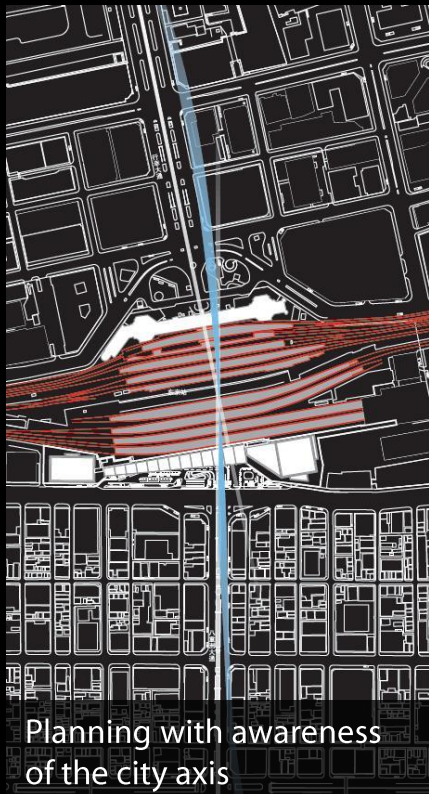
**HIGH DENSITY &
MIXED USE**



3. Station Redevelopment Practices

CREATING ICON

TOKYO STATION CITY (HSR + Multi-Rail + 1 Metro)



4. Implications for Global Cities

<Planning and Design Principles from Japanese TOD>

1. Concentrating Density at Station Areas to Achieve Sustainability
2. Enhancing Connectivity with Surrounding Districts through TOD
3. Introducing Diversity of Activities with Additional Cultural Functions
4. Realizing Integration of Transit and Development in Small Urban Space
5. Creating City Identity with Symbolic Design

4. Implications for Global Cities

◆ Issues in TOD Project Practices

- Multi-track Planning/Development Procedure are needed
- Public/Private realm would be highly integrated
- Various stakeholders need to be coordinated
- Allocation of initial/operational cost needs to be properly coordinated.
- Demarcation in operation and management needs to be properly coordinated.

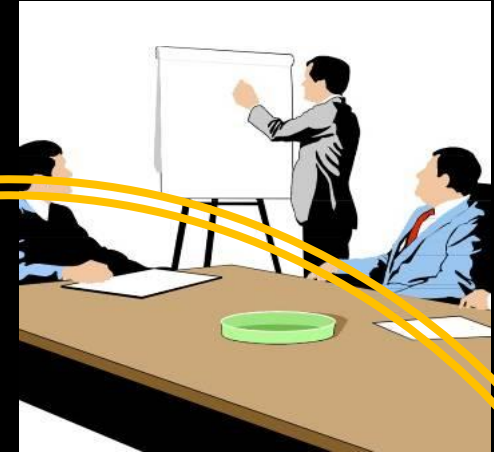
4. Implications for Global Cities

PLANNING & DESIGN

- Total Urban Design focused on Walkable Cities
- Design with Comprehensive Traffic Planning
- Focus on Underground Planning
- Iconic Architectural Design



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- Planning & Design Management across Parallel Studies
- Coordination across Multi-Stakeholders
- Management for Implementation Schedule

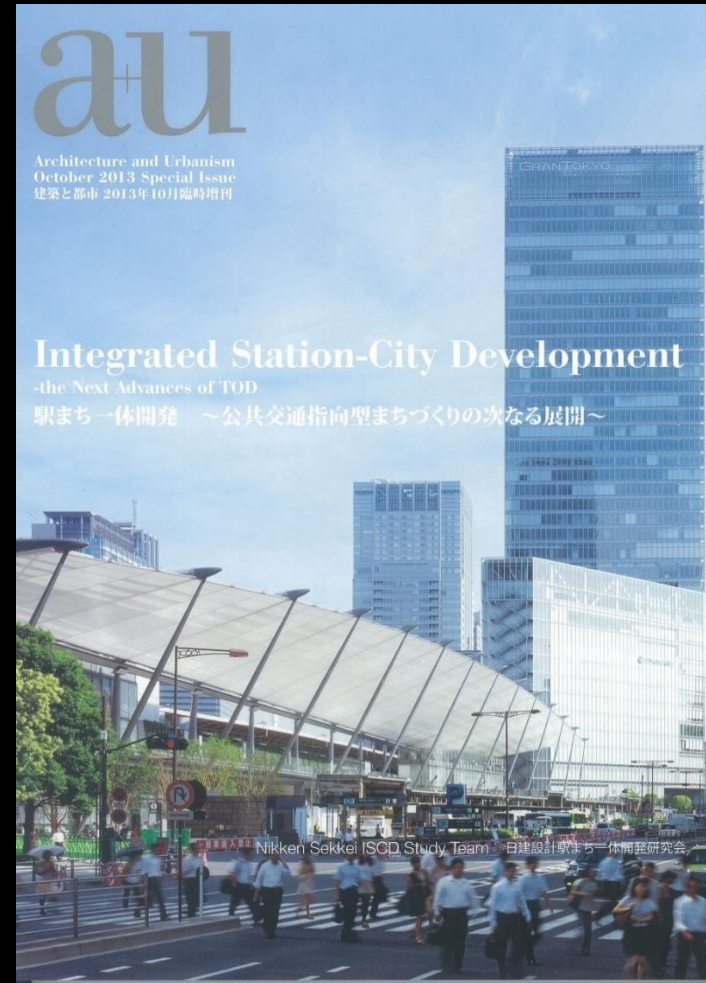
PROJECT MANAGEMENT

4. Implications for Global Cities

Recent Issues on 'Integrated Station-City Development in Japan'

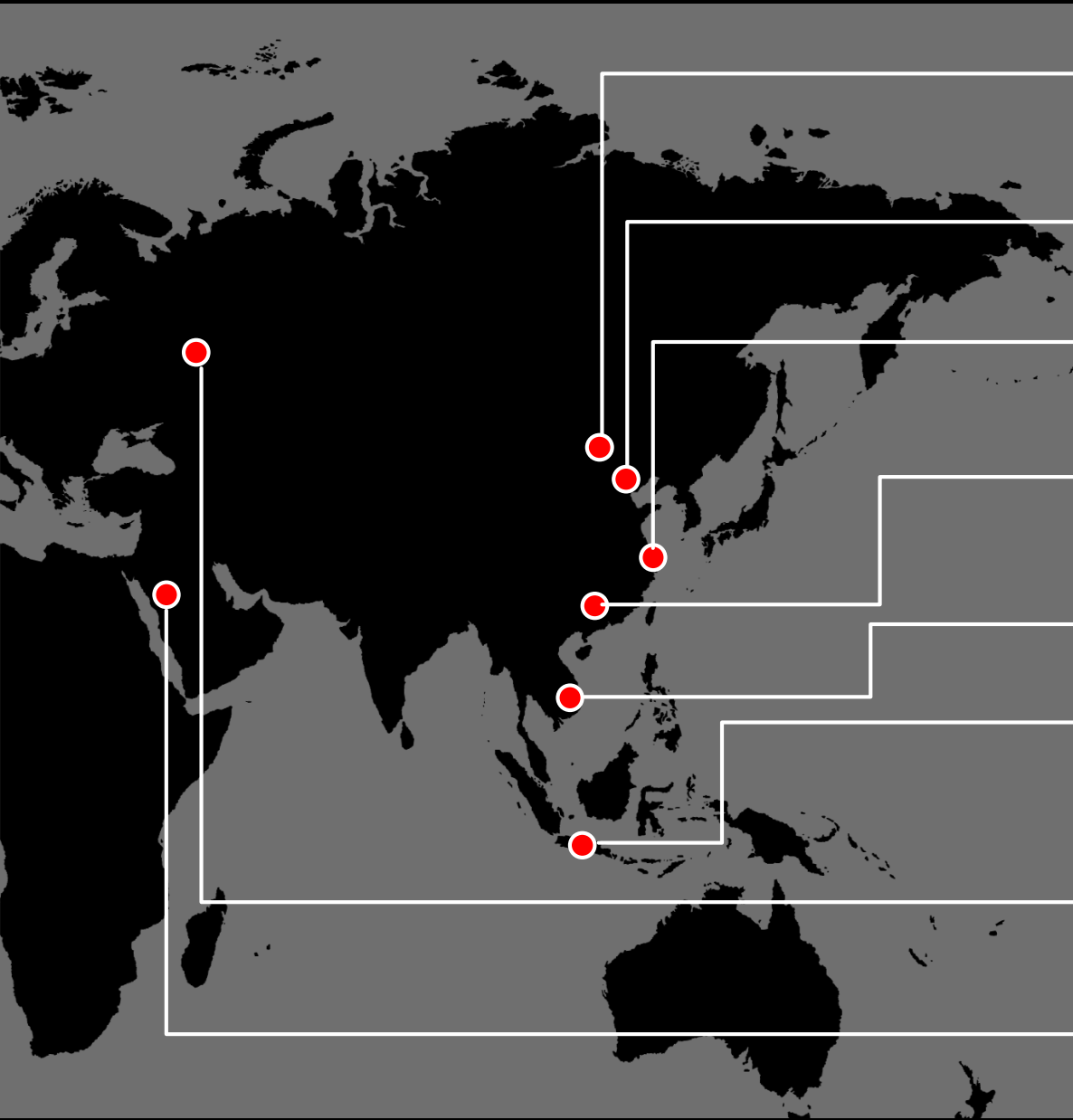


Chinese Version



Japanese / English Version

4. Implications for Global Cities



Beijing Liu Li Qiao Station
CHINA

Tianjin Binhai Station Project
CHINA

Shanghai South Bund Project
CHINA

Guangzhou North Station
CHINA

Ben Tainh Station Master Plan
VIETNAM

DUKUH ATAS Station Area
INDONESIA

Moscow Botanic Garden
RUSSIA

Medinah Pilgrim City
SAUDI ARABIA

Thank you.

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