

Drivers of Innovation Case in Tokyo, Japan (a 5 mins talk)

Roundtable, Urban Logistics Hubs

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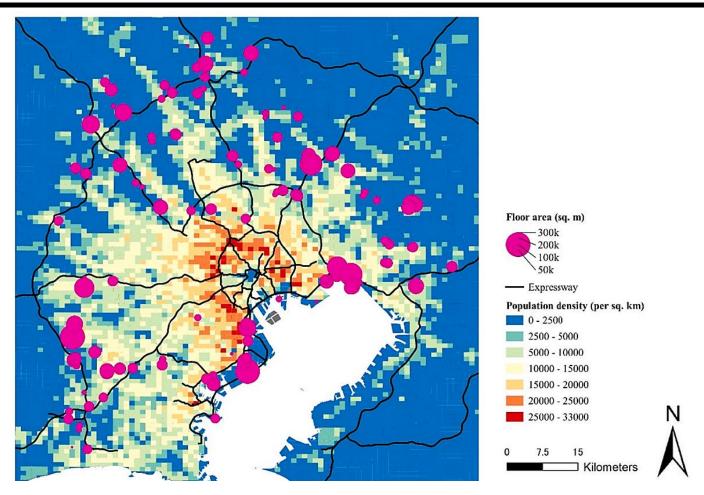
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Key logistics issues

- The fast rise in logistics land use demand
- Logistics sprawl but not necessarily inefficient
- Rapid increase in parcel delivery demand
 - 46% increase in a decade
- Shortage of drivers and delivery workers

... common issues observed across the world

Multi-story, multi-tenant facilities



MMF facilities developed during 2011-2021 (13 mil. m²)

Source: H. Buldeo Rai et al. (2022)



Multi-story, multi-tenant facilities

- Very high occupancy
- Around one third by EC vendors

















SØSILA









Challenges and opportunities

- Land supply for logistics
 - Use of traditional port areas & industrial zones
 - Development of ring roads

... still short

- Local interests vs. the metro-wide facility development need
- Potential conflicts with other activities

Delivery stations (DSs)

- Zoning regulation : not strict
- Strict parking law enforcement
- CBD: Dense small-scale DSs + non-auto delivery modes

Non major DSPs : Limited information

 Potentially requires more DSs to cater to increase in deliveries











Innovations – examples

- Renovations of old logistics facilities
 - "Act of Advancement of Integration and Streamlining of Distribution Businesses" (2005)
 - "Internationally Competitive Distribution Business Base Development Project" (2013)
- Developments of areas along new expressway sections
 - "Garden City Industrial Zone Basic Policy" by Saitama prefecture (2006)
- Large-scale data collection
 - Tokyo Metropolitan Freight Survey (2023) and policy recommendations
- Legal, infrastructure, technological development for AV and robots