Transit-oriented development

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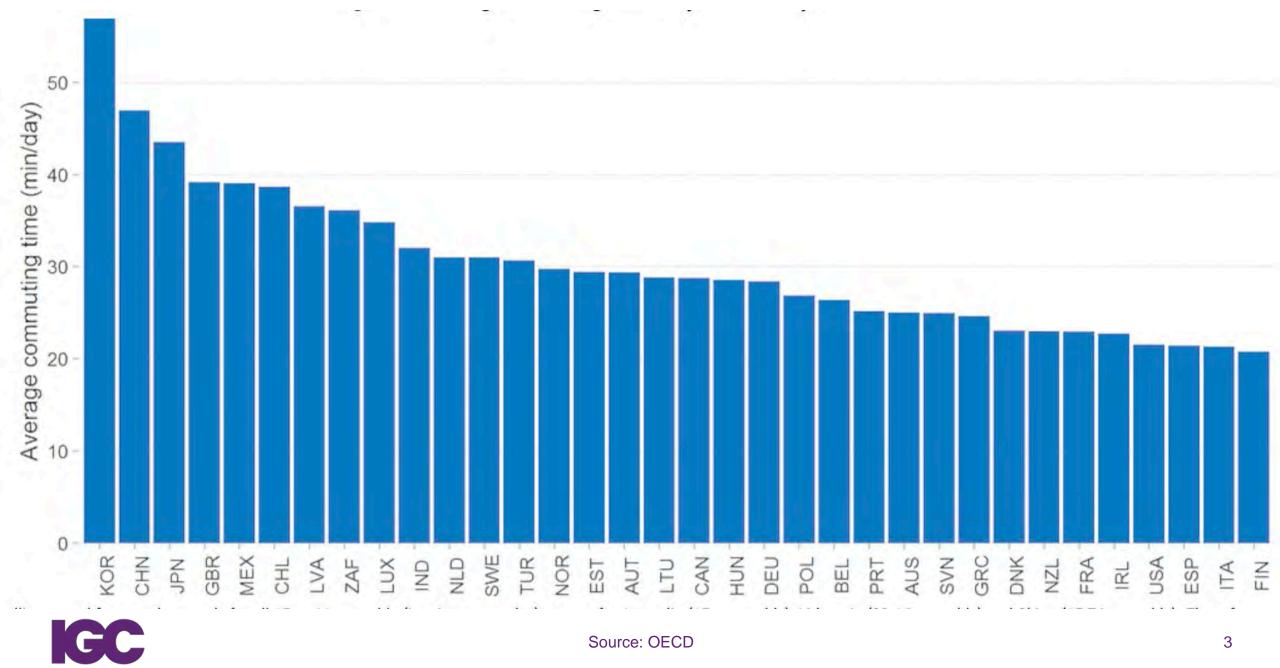




Why transit-oriented development?

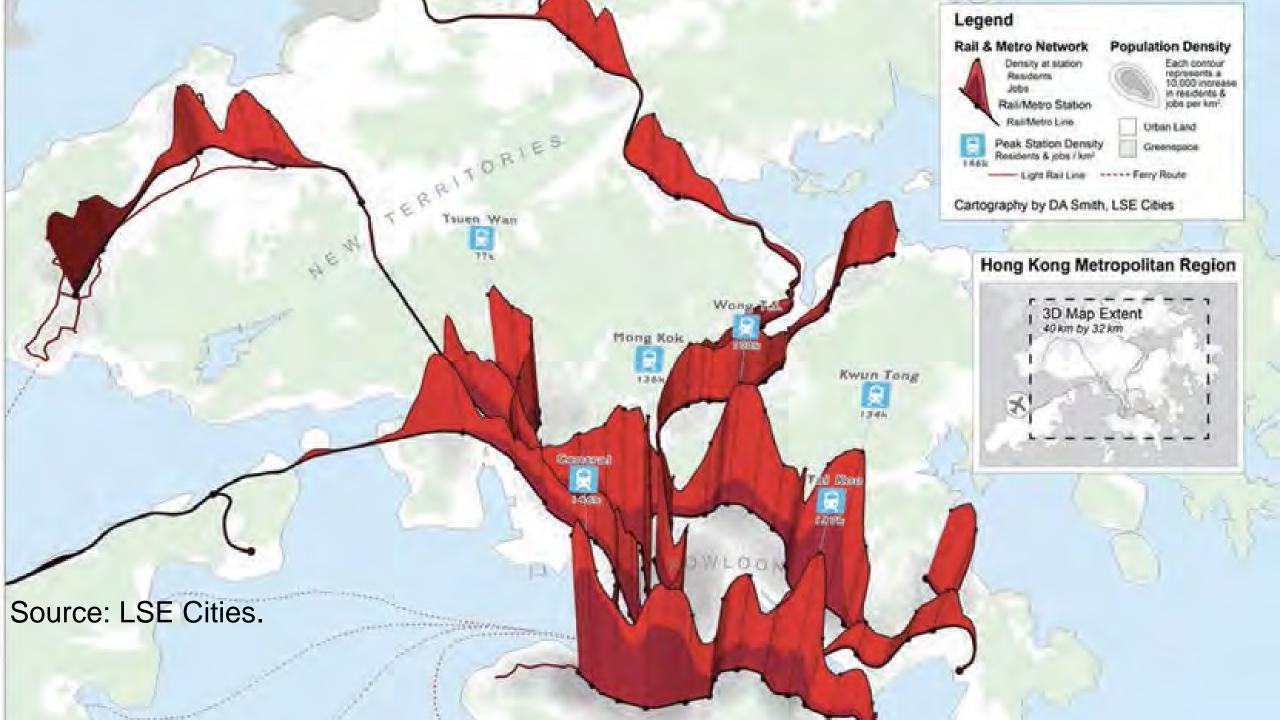
- Reduce the number of trips people need to take, or avoid them overall → reduction in congestion
- + impact on economic productivity levels due to concentration of economic activity due to transit accessibility.
- Makes public transport more effective, as people are incentivised to use it
- Positive environmental impacts → also through reduction in pollution.
- ToD can be used to unlock revenue for transport investments, such as through levying fees for density allowances near the transport link, land-value capture, etc.
- Can be used as a tool for urban renewal and urban growth.



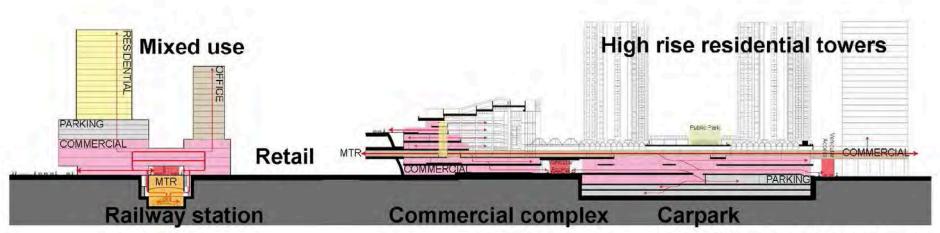




Source: OECD



- 75 percent of people and 84 percent of jobs in Hong Kong live less than 1 kilometer from a mass transit station.
- 90% of the people use public transport and the city spends only 5% of GDP on motorized travel – compared to upwards of 12% in Houston.
- The rail plus property business model is used to captured land-value prices to subsidise public transit system. This system declares the 500 meter catchment area to the main station, as a TOD zone.



Source: Sylvie Nguyen

Taikoo Shing Station Section

Integrated urban planning



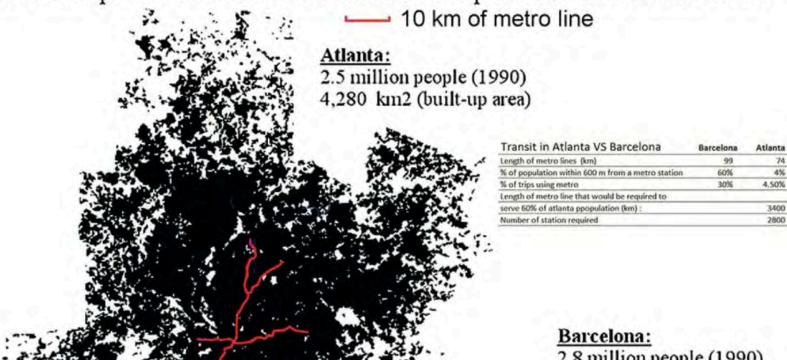


5 principals of land-use planning

- The need to facilitate residential and commercial density → without density, the city sprawls with negative economic and environmental impact.
- 2) Keeps adequate space for transport links and other public spaces.
- Coordinating positive and negative 'spillover' effects → such as through anchor private investment expectations.
- 4) Connects land use planning to strategic planning → designing spatial plans that provide long term certainty to investors, and allowing for sufficient flexibility.
- 5) It is proactive → takes a long-term approach.



The Built-up Area of Atlanta and Barcelona Represented at the Same Scale



2.8 million people (1990) 162 km2 (built-up area)



Despite the same populations, Atlanta occupies a built-up land area 26 times larger than that of Barcelona.

Image by Alain Bertaud.







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