Block 4: Managing Urban Transport Infrastructures

2. Managing the urban transportation system

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Overview

This section will introduce the main features of urban transportation management. I will answer the following questions:

- What are the main performance dimensions of urban transportation systems?
- How are the different transport modes managed?
- Who is in charge of urban mobility?
The main performance dimensions

- The time people spend while moving from one place to another in cities is a central performance indicator (efficiency). This time is notably a function of:
  - Congestion
  - Intermodality (i.e., connections across transport modes)
- Another important indicator is energy consumption (transport represents approx. 30% of global energy consumption) and pollution (cities are responsible for approx. 25% of transport-related CO2 emissions)
- Along with transportation costs we need some broad figures about costs, investments, subsidies
- Performance of urban transportation systems (their efficiency) is a direct result of their management, so how is this done?
Transportation modes and their management

- Local Taxi licensing authority
  - Taxi company

- Local transport authority
  - Minibus company
  - Public and private bus companies

- Roads

- City road (planning) department

- Local tram operator
  - Tram tracks

- Agglomeration metro operator
  - Metro tracks

- National train operator
  - Train tracks
Who is in charge?

- **Private bike sharing company**
- **Private car sharing company**
- **Private car rental company**
- **Private taxi company**
- **Private minibus company**
- **Private bus company**
- **Private Metro operator**

**Bicycles**

- **Public bike provider**

**Cars**

- **Competition**
- **Tendering**
- **Monopoly**

**Buses**

- **Public bus company**
- **Public Tram company**
- **Public Metro company**
- **Public Train company**

**Tram**

**Metro**

**Train**

**Public Transport company**

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Conclusion

- In this session, we have seen how fragmented and uncoordinated the urban transportation system is
- Who can make urban transport more efficient?
- Who can speak for the mobility needs of the urban transport customer?
- In the next session, we will hear from an expert
- And in the session thereafter from a CEO of an urban bus operator