



Economic Comission for Europe Business Advisory Board on PPP's

Global overview for Urban Rail Transit and the urgency for PPP Standard Development

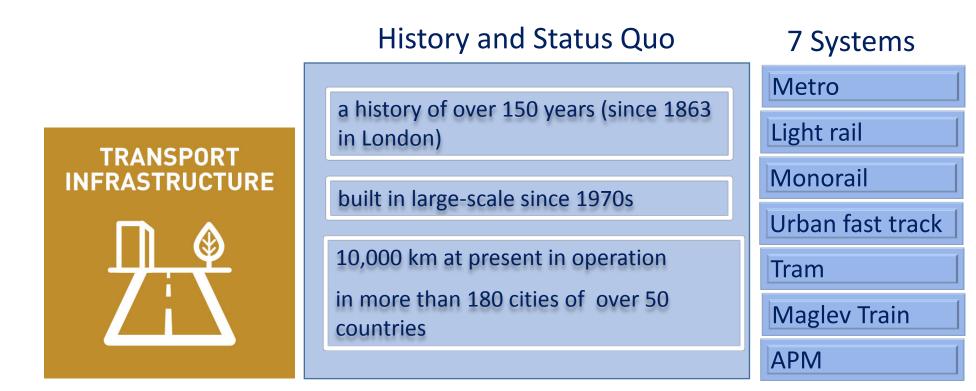
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Development of Urban Rail Transit







Development of Urban Rail Transit

- The prior way of public transportation in large and medium-sized cities
- A high percentage of the gross city passenger volume in metropolis:
- Tokyo: 88%
- London: 71%
- Paris: 70%
- Moscow: 55%
- Beijing: 86.6%
- Shanghai: 89.1%





Development of Urban Rail Transit

- The innovation and application of new technologies on urban rail transit
 - RAMS (Reliability、 Availability、 Maintainability and Safety)
 - Big data
 - BIM (Building Information Modeling)
- 7 national engineering innovation labs in China
 - rail transit system test
 - automobile system integration
 - communication and operation control of trains
 - technologies on transit system security assurance
 - transit system security and maintenance assurance
 - technologies on green and safe construction
 - technologies on digital construction and assessment.





PPP: a very important model for urban rail transit projects

- Huge investments and influences + high quality of construction and operation
 - the investment and operation by public sectors
 - involvement of private sectors

Very complex factors should be taken into consideration

- the exploitation of urban land
- urban transportation network planning
- business mode structure design
- the requirement of energy conservation
- environment protection





Why to establish a UNECE PPP standard on urban rail transit sector?

- To exert very different influences on urban regions and industry.
- To promote the private sectors to involve more effectively in urban rail transit sector.
- To develop People-first Public-Private Partnerships and to implement UN SDGs.
- To provide policy framework and PPP model principles applied in urban rail transit sector in line with the requirement of the international organizations and governments.
 - national urban public transport authorities
 - PPP policymakers of different countries
 - the World Bank
 - the Asia Development Bank
- To standardize the operation of urban rail transit PPP projects.

• To stimulate the innovation of urban rail transit project implementation.





The Standard will make effective contribution to the SDGs

- China is becoming the largest PPP market for urban rail transit.
- Sufficient case resources of the PPP international standard from China.
 - Beijing Metro Line 4
 - Hohhot Metro Line 1
 - Fuzhou Metro Line 2
 - Hangzhou Metro Line 1
 - Shenzhen Metro Line 4
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• The summary of the best PPP practices of rail transit in the world.

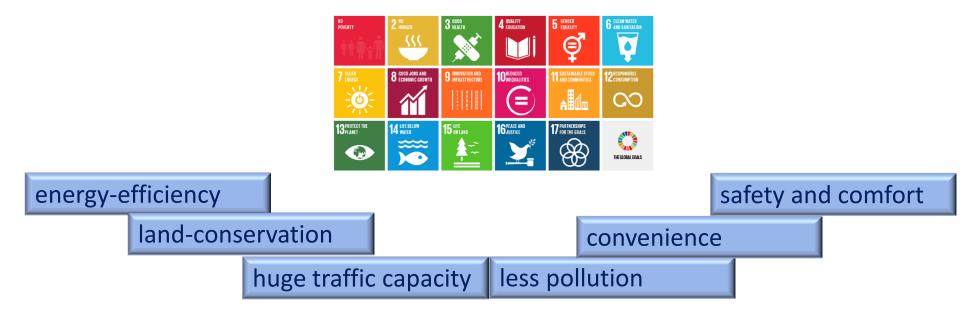




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Urban Rail Transit:

green and environmental-friendly transport mode a







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Welcome the Global Top Experts Join us in Urban **Rail Transit PPP Standard Development Project Team**

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