

Bus Systems for Sustainable and efficient Public Transport

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The bus is not enough...

- Traditional city/transit bus operation

- Buses "running at random"
- ..at the pace of any traffic jam...
- Bus arrives "sometime"



- Public Transport by Bus Rapid Transit

- Buses operated in a dedicated system
- "Think rail – use bus"
- Toolbox of solutions to optimize operation
- No "one design fits all"



BRT – How it started



1964 Paris, France – Flow bus lane



1968 Liege, Belgium, conversion of tram lines to unidirectional busway



1974 Curitiba, Brazil – first 20 km

1971 Runcorn, UK 10 km bus track



BRT status 2010

- 120 cities with BRT systems and bus corridors
 - US 16, BR 16, CN 13, ID 11, UK 11, FR 10, CO 5, MX 5
- 30 000 buses
- 16 cities started operations in 2010 (13% growth)
- 31 new cities in planning stages



Metrobus – Mexico D.F.

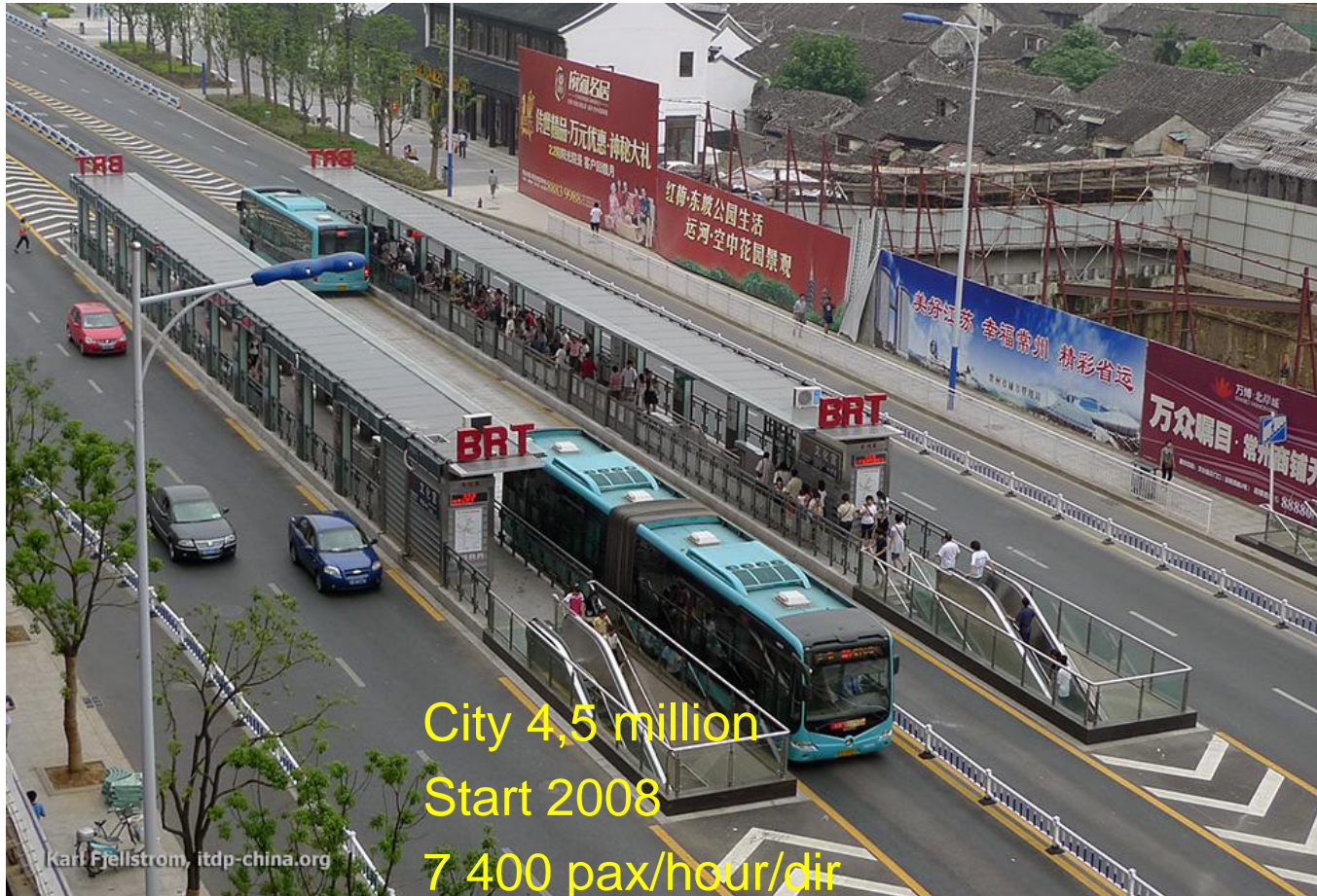


City 19,3 million
Start 2005
Line 1: 265 000
pax/day



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Changzhou BRT - China



City 4,5 million
Start 2008
7 400 pax/hour/dir

Karl Fjellstrom, itdp-china.org



Johannesburg – South Africa



City 3,6 million
Start 2009
34 000 pax/day



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Metrovia – Guayaquil/Ecuador



City 2,6 million
Start 2006
100 000 pax/day



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Busway – Brisbane/Australia



City 2,0 million
Start 2001
6 500 pax/hour/dir



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Crawley (Gatwick) UK

City 0,1 million
 Start 2003
 9 000 pax/day



BHNS / BHLS

Bus avec un Haut Niveau de Service / Bus with a High Level of Service



Bologna Civis (Italy)



Leeds Superbusway (UK)



Stockholm Bluebusses (Sweden)



Essen O'bahn (Germany)



*Quality Bus Corridors
Dublin (Ireland)*



Lorient Triskell (France)



Amsterdam Zuidtangent (Netherlands)

The European Bus System of the Future

EBSF - Consortium members

	ASSTRA, ATV Verona, CRF, D'Appolonia, Digigroup, FIT, Uni Roma TRE, Uni Roma UNO, Trambus Rome, ATM Milan				
	Actia, CERTU, Ineo, INRETS, Irisbus, Lyon, Nantes, RATP, UTP, Veolia				
	Bremerhaven Bus, Evobus, Fraunhofer, Helmut, Hübner, INIT, Neoman, PE Int. VDV				
	Chalmers, Gothenburg, Hogia, Pilotfish, Scania, Volvo				
	CEIT, Madrid, Politécnica Madrid, TEKIA				
	SRWT Namur, UITP		BKV Budapest, Vultron		KNV
	RATB Bucharest		Newcastle University		TIS.PT



47 stakeholders

Final report 2012

Book of best practises
"BHLS"

Planned bridge to EU
FP8 R&D agenda (2014)



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