



"The adverse impacts of growth in motorization"

- in economic, environmental and social terms - are ruining the quality of life in our cities and our global climate.



Unattractive public transport systems

- Insufficient physical integration of various public transport modes and between public transport, walking, cycling and private car
- No integrated and transparent time schedules
- Signage, customer information on timetables, connecting services and fares not appropriate

→ discouraging the use of public transport







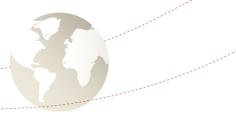
Unattractive public transport systems



- Insufficient cooperation between public transport operators
- Each change of mode normally requires the purchase of another ticket
- No uniform service level standards among modes and operators









The reality in most cities:

Public transport is underdeveloped, not attractive enough for customers (often 2-4 tickets are required to get to work per direction)

There often exist stand alone systems (Bangkok, Manila, Kuala Lumpur....) without proper physical, time table- and fare-integration

Fares are collected at vehicles (causing slower services)

Urban transport responsibilities are often fragmented between various ministries, provincial and municipal level

Looking forward:

Public transport integration is the challenge during coming years to considerably increase attractiveness of PT!



Redefining Public Transport, Why?



CO₂ emissions from passenger transport vs. modal split: mode share can be influenced by policies and infrastructure

J 1	% of public transport, walking and cycling	CO2 emissions (kg per capita per year)
Houston	5%	5690 kg
Montreal	26%	1930 kg
Madrid	49%	1050 kg
London	50%	1050 kg
Paris	54%	950 kg
Berlin	61%	774 kg
Tokyo	68%	818 kg
Hongkong	89%	378 kg

Source: UITP



What do citizens want?

- ✓ Convenience
- ✓ Easy Access
- ✓ Comfort
- ✓ Frequent Service
- ✓ Rapid journey
- ✓ Safety & Security
- ✓ Customer Service
- ✓ Affordability
- ✓ Have a network



Public Transport should be designed around the customer and not around a technology

Integrated transfer stations





Station Design





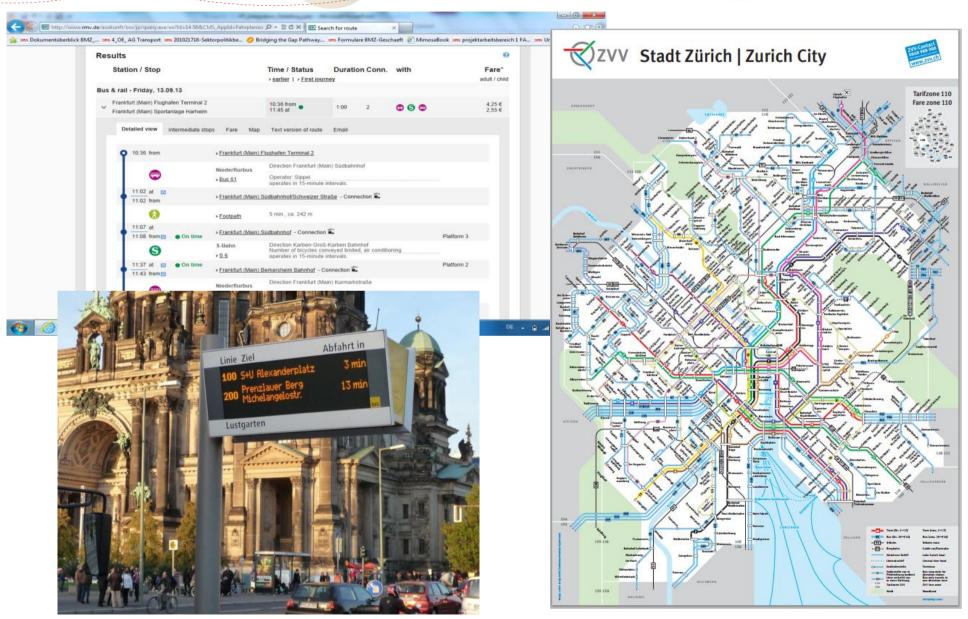


- Passenger friendly designs?
 - Clear signage, disabled friendly
 - Better interchanges
 - Public amenities



Integrated Information & Timetable planning





Corporate Design







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Integrated Fares & Ticketing







One timetable

One fare

One ticket

→ Includes all public transport modes with different operators





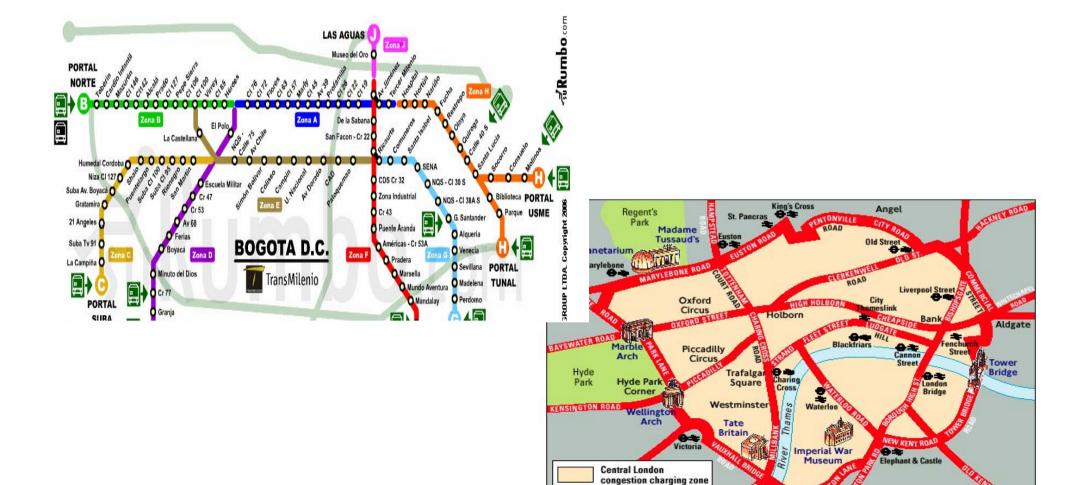




Network coverage



Can I reach the CBD, shopping district, my home?



Public Transport priority





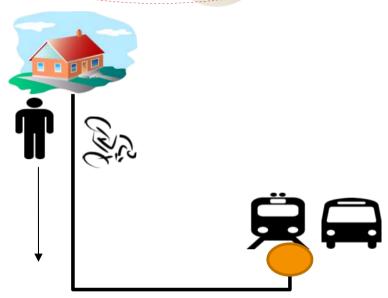
Is PT prioritized over other modes?





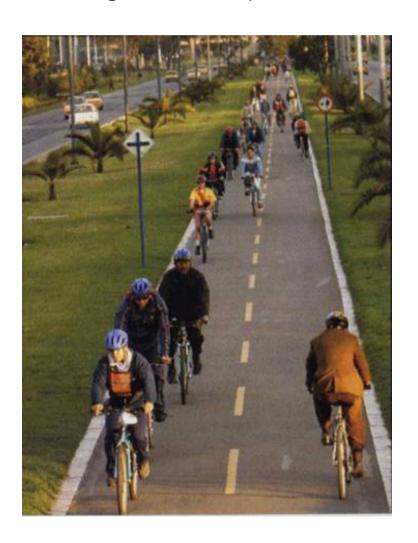
Accessibility- Options





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- How to reach the PT station?
 - Walk, bike or drive
 - How good is the path?



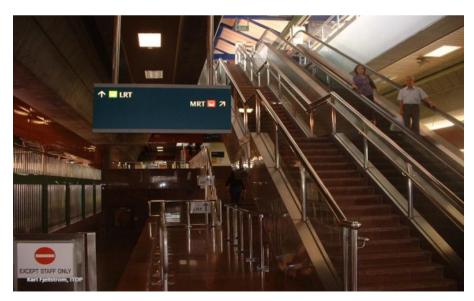
Modal Integration





Can an individual take his/her bicycle? Is it easy to walk? Should he/she can drive to the station?







Unified service quality standards: The Oslo Metro Customer Charter



- 1.We leave on schedule.
- 2.We will not leave early.
- 3. You will be informed of an approaching stop.
- 4. You will always know where we are going.
- 5.Information will be available before you board.
- 6.Information will be available on board.
- 7.We will answer your questions.

- 8. You will be informed when things go wrong.
- 9. Carriers will be clean, making your journey pleasant.
- 10. We will reply when you write to us.
- 11.We will listen to you.
- 12. We pay if you arrive late.





Transit Alliances as organiser of integrated public transport



History of public transport integration in Germany



Germany before 1970

- > every transport company had its own tariff for local public transport
- > no transparency in tariffs and no integrated coordination of schedules
- > Tickets of different transport companies were not accepted by the others

Phase 1

• Tariff associations (public transport companies accepting each others tickets leading to associated tariffs)

Development since 1970

Phase 2

 Transport operator associations (coordination and increase of transport planning and marketing, coordinated timetables for public transport)

Phase 3

 Transit Alliances (contracts on tariffs, distribution of fare income and shared timetables)

Today:

Transit Alliances all over Germany (Austria, Switzerland, Netherlands, ...)

^{*} Adapted from TraffiQ

Transit Alliances in Germany







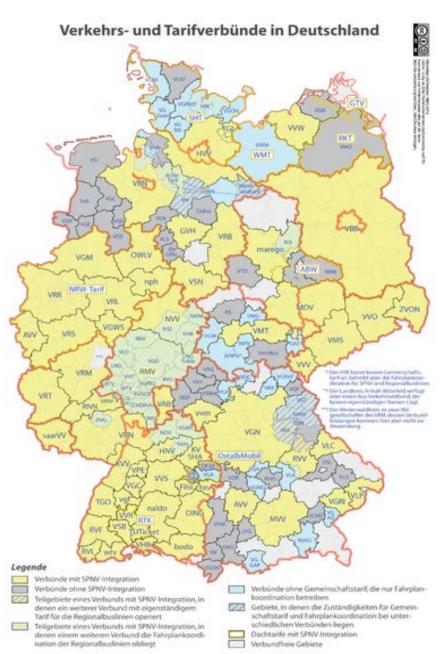






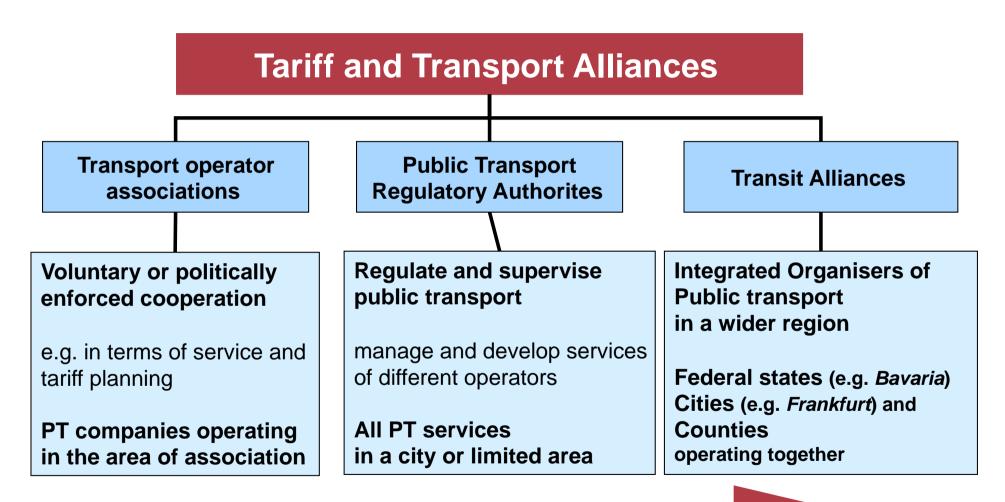


Source: Wikipedia



Public Transport Integration - Cooperation is the key!





increasing complexity: several companies, tariffs, cities, counties, states etc. to integrate

^{*} PuT means public transport

Regional Transit Alliance (Verkehrsverbund)



- Network of integrated urban & regional transport services
- Based within a defined transport area
- Up to now mostly in Germany, Austria and Switzerland, and some other European countries
- Umbrella alliance' covering different local & regional carriers

One timetable

One fare

One ticket





Advantages of Transit Alliances



... for the customer

- Free choice of public transport mode (e.g. bus, tram, regional rail)
- Comprehensible strategy "one fare - one ticket"
- Coordinated timetables (best connections)
- Minimum standards for service quality
- One face to the customer

... for the **operator**

- Synergy effects for marketing, customer information etc.
- Unification of distribution (e.g. ticketing)
- Simple fare system for all public transport systems
- Consistent market presence
- Demand on PT increased considerably since creation of the transit alliances, e.g. in Munich and Hamburg 3 to 4 fold.

Experience of German associations over nearly 40 years (since 1965)

→ This led to increasing demand and increasing fare income

Transit Alliances



From the perspective of local authorities

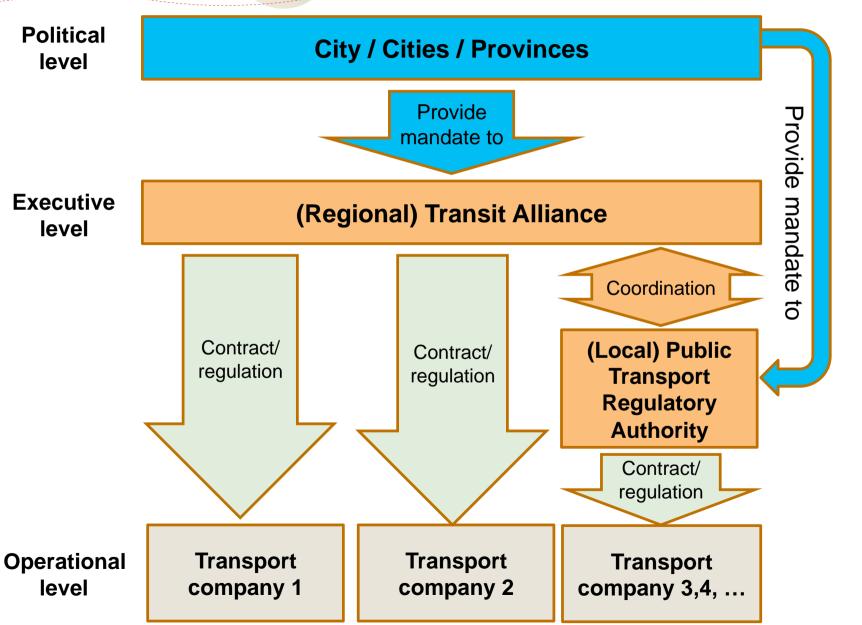
- Limiting the expenditure of public funds
- Tool for spatial planning and urban development
- Political motivated objectives
- Regulatory, social or environmental goals
- locational factor or image for foreign companies or visitors





3-level organisation of local and regional public transport



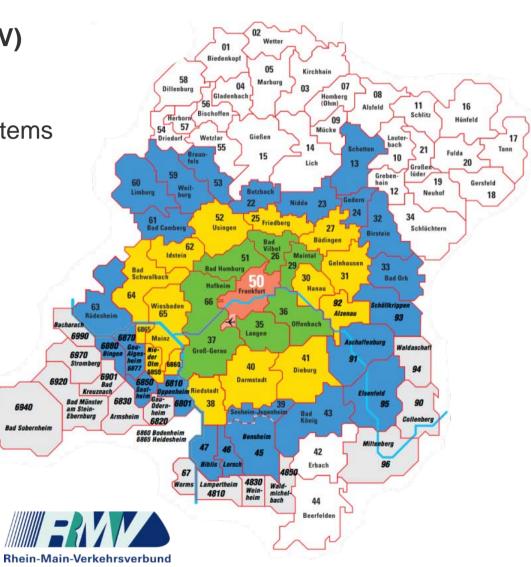


Example: Frankfurt



Rhine-Main Transport Alliance (RMV)

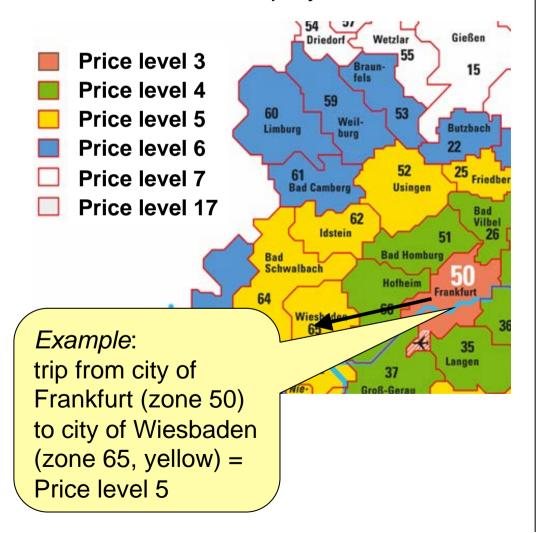
- Started in 1995
- Integration of 112 different fare systems
- Managing 153 transport operators
- Board includes
 - 15 rural districts
 - 4 large cities (e.g. Frankfurt)
 - 7 medium-sized towns
 - Provincial government (Hessen)
- Tendering rail services
- Joint marketing
- Integrated timetable/interchange



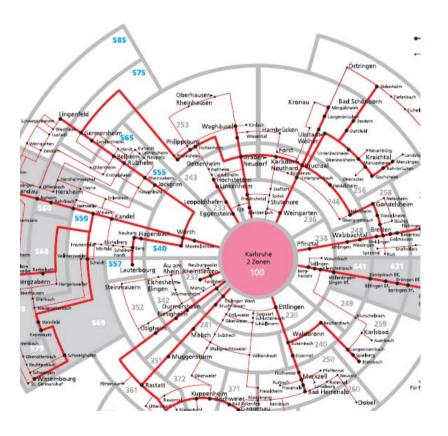
Zone Presentation (Examples)



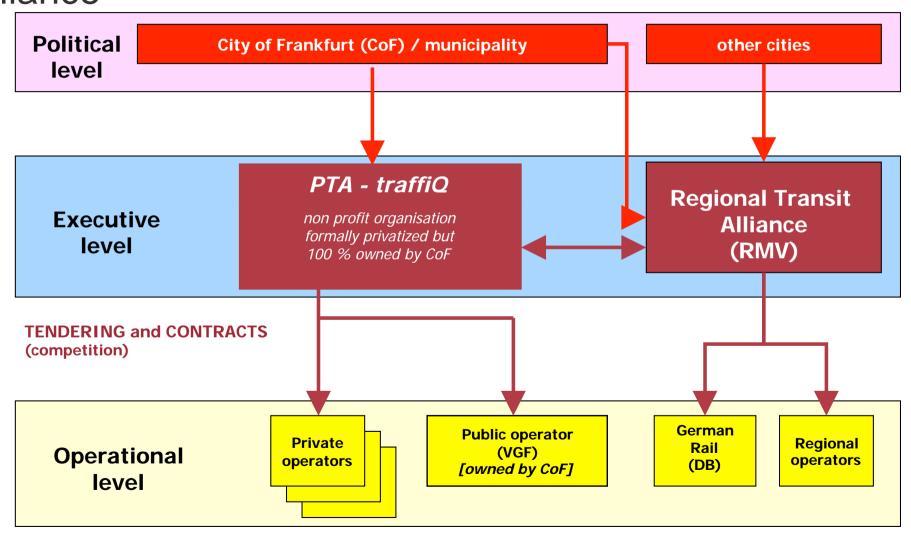
Area zone in the polytechnic area



Ring zones in the monocentric area



3-level-organisation of public transport — giz Tusternationale Zusammenarbeit (GIZ) GmbH the Frankfurt example within Rhine-Main Transit Alliance



^{*} PTA = Public Transport Regulatory Authority

Main duties of a Transit Alliance (1)



- Comprehensive marketing and communication across modes and operators
- ✓ Determining, establishing and adjusting the common fare
- ✓ Common tickets and conditions of carriage
- ✓ Distributing the fare revenues generated by common fare
- Creating framework rules for common coorporate design, sales and distribution

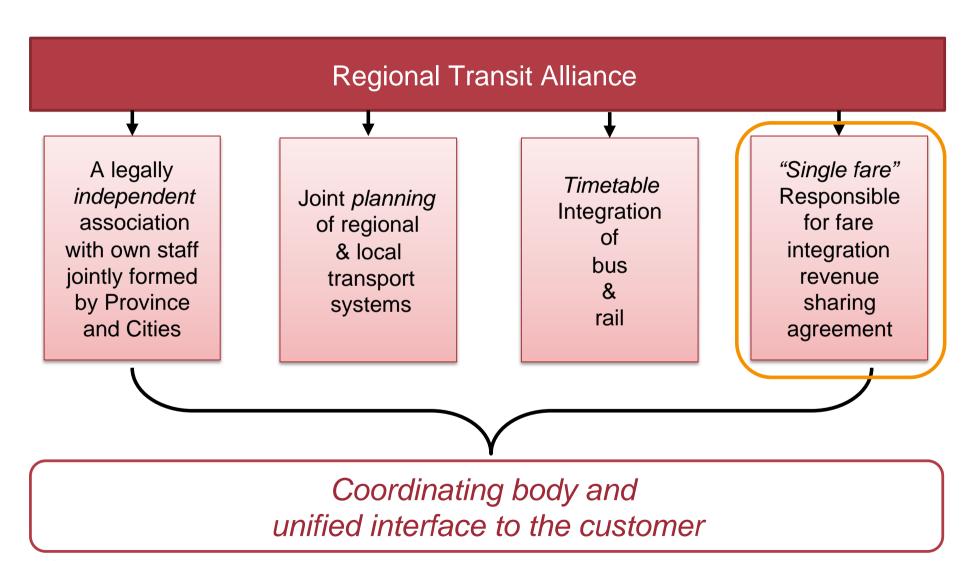
Main duties of a Transit Alliance (2)



- ✓ Coordinating of aligning & publishing timetables
- ✓ Providing passenger information about the alliance offer
- ✓ Measuring the operational efficiency and quality of service
- ✓ Preventing 'fare dodgers' ...

Features of Transit Alliances





*RSA = revenue sharing agreement

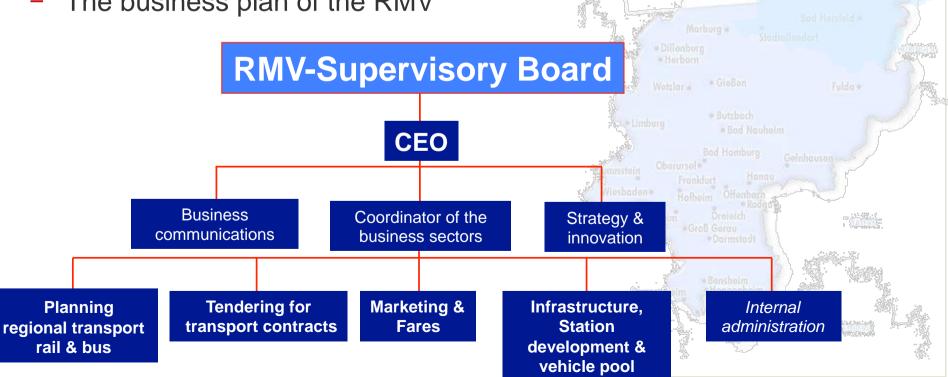
Regional Transit Alliance (RMV) - Organisation and Tasks



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 The members in the RMV resolve - in the Supervisory Board - issues such as:

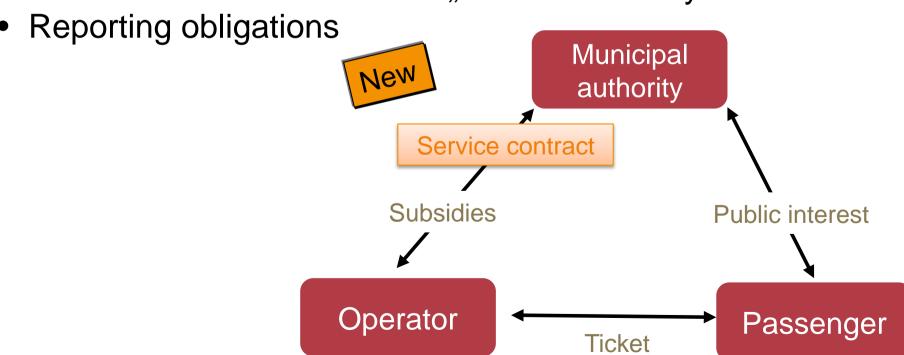
Fares
Regional performance oriented services
The business plan of the RMV



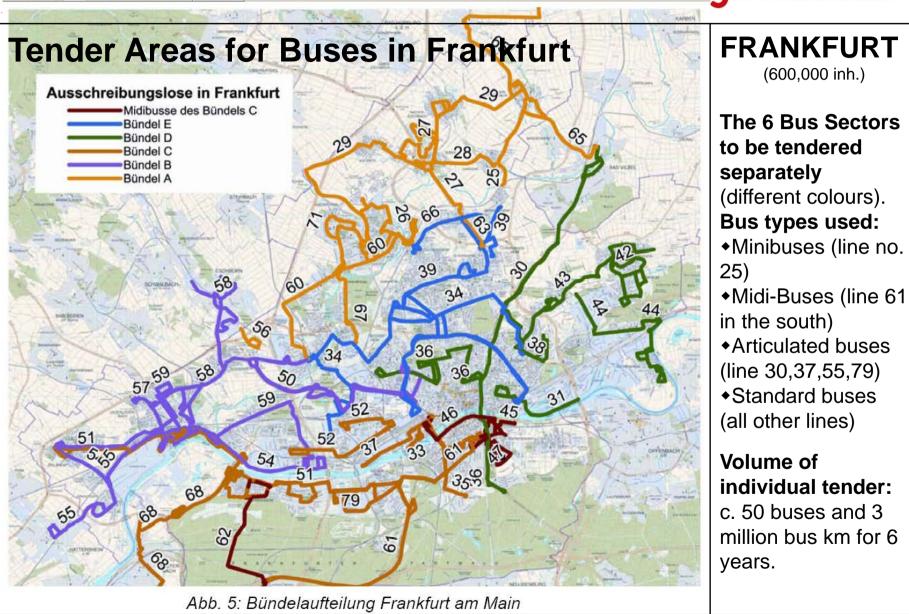
Service contracts for increased quality Z Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Fundamental Content of Public Transport service contracts

- Duration of services, scope of services (including operating schedule, time schedules, routes)
- Compliance with all laws, standards and requirements
- Quality Requirements
- Gratifications and Penalities "Bonus-Malus System"







Source: TraffiQ, 2013

Cost savings and quality gains through tendering of bus operations



Example – Bus services in Frankfurt/Main

Responsible entity - Public Transport Regulatory Authority of the city of Frankfurt (traffiQ)

- Service contracts for 5 lots of bus lines
- Annually 2-3 Mio. VKT per lot
- Bundling of profitable and less profitable lines
- Private and municipal operators
- Still one unified "brand"
- Increase in cost efficiency, per vkm costs reduced by aprox 25 %
- Increased service quality

Source: TraffiQ, 2013

Regional Public Transport Plans



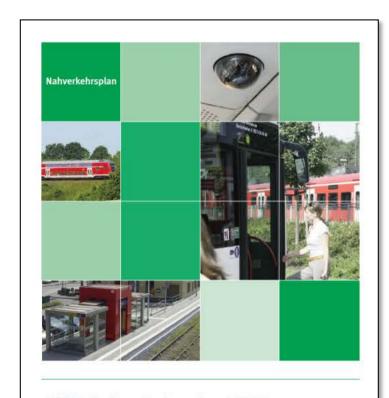
1. Frameworks Conditions

2. Rail Based Public Transport

- Developments of Services
- Future Development of Services (Short- term, Long-term Measures)
- Infrastructure (Stations, Network)

3. Intermodal Mobility

- Passenger Information
- Accessibility
- Interconnectivity with public transport, with Individual transport
- 4. Safety and Customer Management
- 5. Tariff and Marketing
- 6. Financing



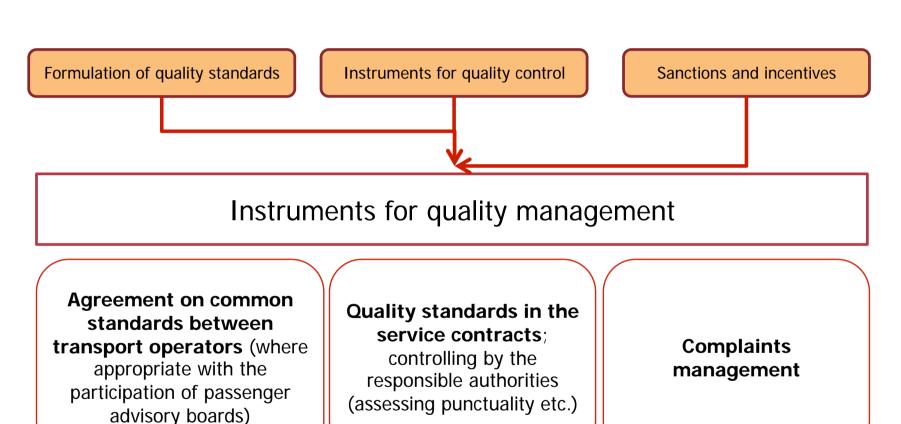
VRR-Nahverkehrsplan 2009

Example
Rhein-Ruhr area
8 mil inhabitants





Customer-oriented Quality Management



Good image of public transport resulting from communication with customers





The example of Copenhagen - Customer satisfaction as a basis for a bonus-malus scheme

- Clean exterior, condition of bus
- Cleanliness inside the bus
- Condition of interior furnishings of bus
- Temperature
- Air conditioning
- Limiting noise and vibration
- Adherence to schedules, punctuality
- Style of driving
- Driver's conduct towards passengers
- General appearance and behaviour of driver





Summary and steps forward







- ✓ Develop the PT system strictly around customer requirements
- ✓ Integrate on all levels, be it physical, time table, tariffs...step by step integration
- ✓ Good integration with NMT
- ✓ Integrated regional urban transport planning bodies
- ✓ Regional Public Transit Authority, providing required regulatory functions
- ✓ One face to the customer, integrated marketing and sales
- Setting service and quality standards, integrated quality management system

3 Leverage Points to Move Ahead



- Combination of national provincial local sustainable funding mechanisms
 - Profit adequate public funding, mobilise additional funding through economic instruments like energy taxes (oil), land-value taxes etc.
 - Increase quality and efficiency of public transport services through tendering and integrated planning
 - Strengthen fare base with tailor-cut fare offers for different user groups
 - **Comprehensive mobility planning**
 - Develop comprehensive mobility plans (e.g. local public transport plan)
 - Provide capacity building and performance monitoring
 - **Coordinate responsibilities**
 - Great potential of transit alliances for regionally integrated transport services
 - Unify responsibilities under alliance enterprises or put authorities





GIZ Sourcebook on Sustainable Urban Transport



- addresses the key areas of sustainable transport policy framework for developing cities
 - consists of over 30 modules and training packages
 - intended for policy-makers and their advisors

GIZ Transport Publications



- Technical documents, case studies
- training material
- Factsheets
- Handbooks / Manuals

SUTP Website www.sutp.org







Transport Alliances - Promoting Cooperation and Integration to offer a more attractive and efficient Public Transport

www.sutp.org

Transport Alliances

Promoting Cooperation and Integration to offer a more attractive and efficient Public Transport

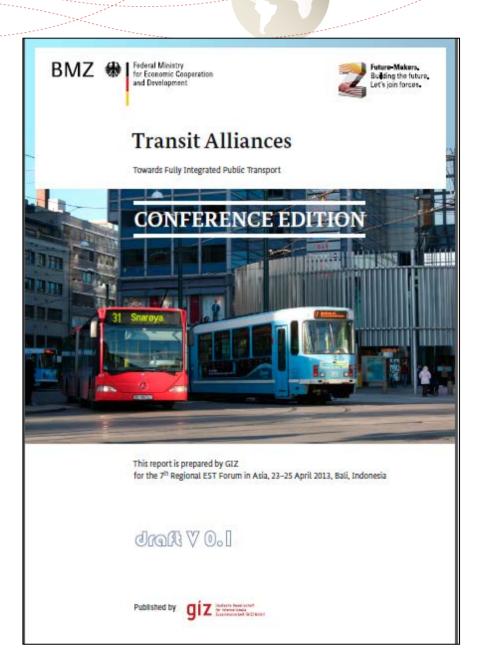
Su stainable Urban Transport Technical Document # 4











Transport Alliances – Conference edition launched at EST, Bali, Indonesia

www.sutp.org

Update available from January 2015

