



Overview

- 1. Transport Trends in Germany
- 2. Institutional Set-up
- 3. Financing
- 4. Planning Framework
- 5. Conclusions for China



is an appropriate alternative to the car and it's adverse effect in cities

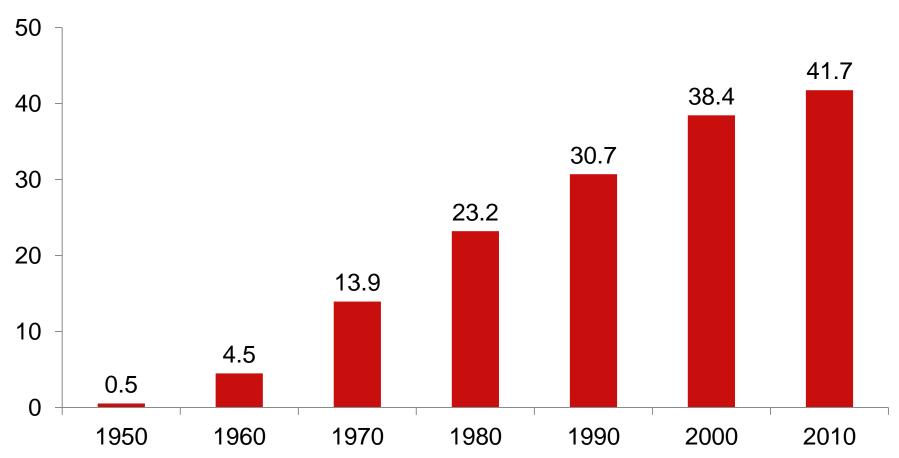


Transport Trends

 Strong renewed growth of public transport since the early 1990s

Growth in Private Vehicles in Germany In million vehicles





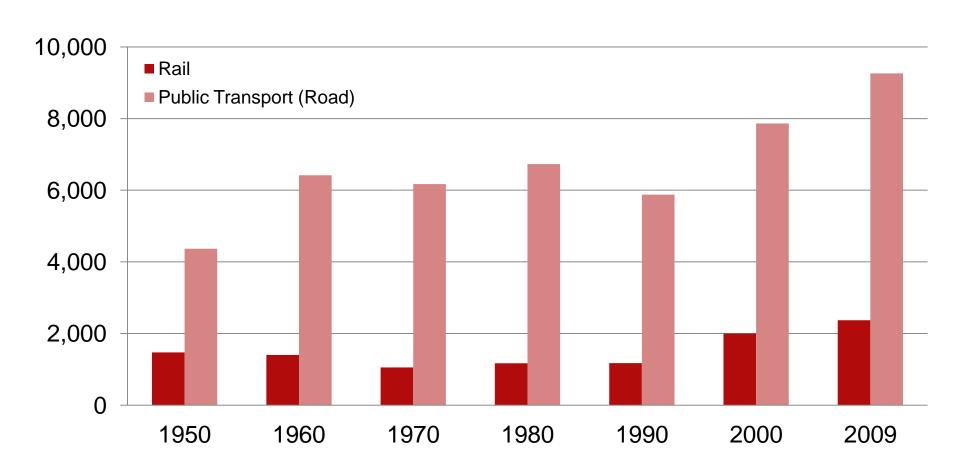
Bis einschl. 1990 früheres Bundesgebiet, 1950 ohne Saarland und Berlin-West, ab 2000 Deutschland. Ab 2000 ohne vorübergehend stillgelegte Kfz (2000: ca. 5 Mill. Fahrzeuge).

Quelle: Kraftfahrt-Bundesamt.

Public Transport Development



1950-2009, in million passengers



1950: Without Saarland and Berlin West From 2000: West and East Germany

Source: VDV, DIW



Institutional Set-up

 Clear split of roles and responsibilities across multiple levels and sectors

Split of Responsibilities

across Government Levels



Provides **funds** (e.g. from fuel taxes) to provinces for specific programmes and projects

Defines criteria such as cost-benefit analysis, environmental impact assessment, public participation etc.

Regulates market access of transport operators and minimum standards

Require comprehensive mobility plans from cities

Provide funds to cities and identify projects

Fund regional railways such as S-Bahn (tendering services)

Initiate Regional Transport Associations (Verkehrsverbund)

Plan and finance infrastructure projects (with support from provinces) based on regional public transport plans

Tender public transport services and define quality criteria in service contracts

Subsidies local transport operators

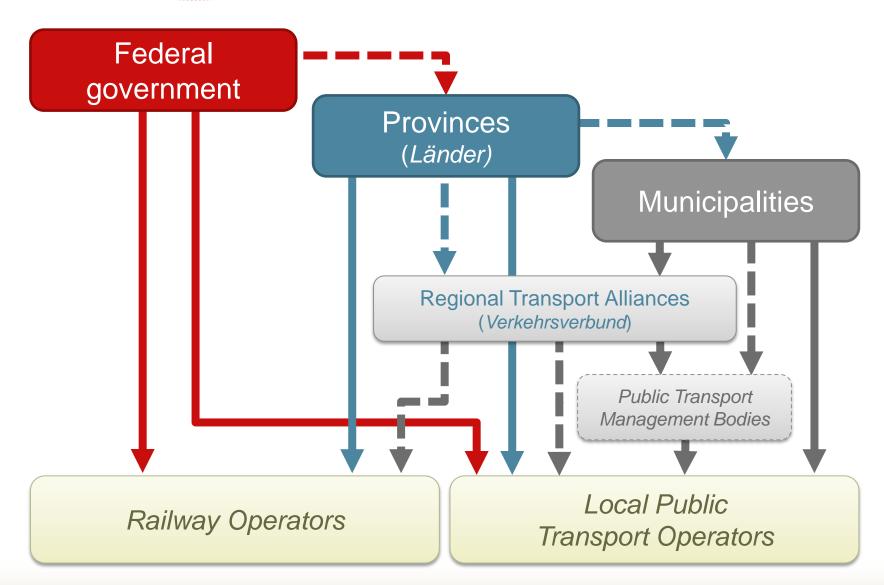
Issue special tickets to students and senior citizens

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Institutional Set-up in Germany







Financing

 Advanced system of national, provincial and municipal funding (initially introduced in 1971 and revised in 1992) ...

... provided reliable long-term budget for high-quality public transport;

... combined with clear procedural requirements, e.g. EIA and CBA



National Level Funding Sources



Federal Local Transport Financing Law (GVFG)

- Started in 1971 as part of a major upgrading in transport infrastructure
- Focus on <u>investments</u>
- Co-financing transport projects by 75% (for East Germany up to 90%)
- Co-financing large scale local rail infrastructure (> 50 mio Euro) by 60%

Federal Regionalize Transport Law (RG)

- Started in 1993 jointly with major railway reform
- Focus on <u>operational</u>

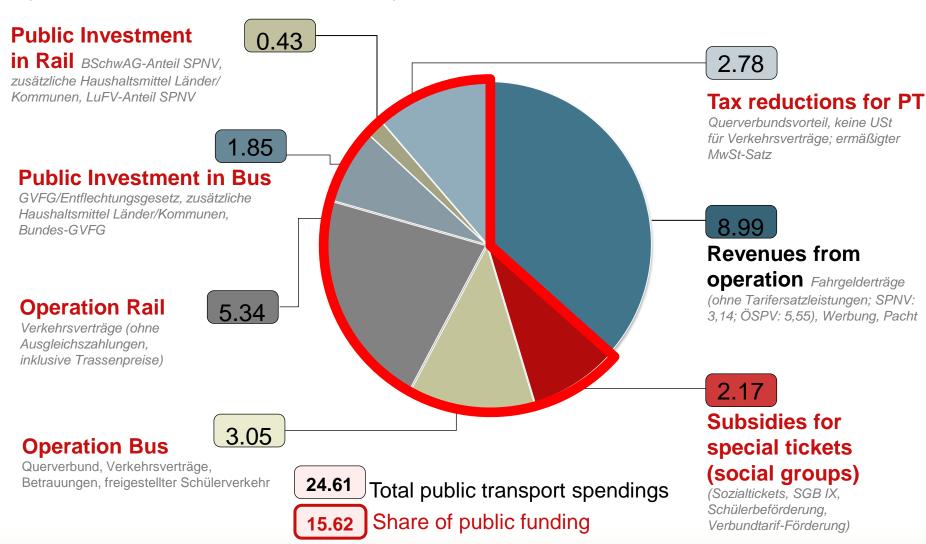
 <u>subsidies</u> mainly for regional
 rail
- 6.5 billion Euro (currently)
- Channeling all funds to the provinces/Länder (according to a share based on the number of inhabitants)

Public Transport Financing in Germany

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) Gmbł

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(in billion €, estimation for 2008)



Source: KCW 2012

Public Transport Spending in the Province of Baden-Württemberg (in 2010)



Total funding for transit services	€ 1.28 billion ~ € 118 per citizen	
Transfers to operating costs of rail transit	50.9%(€ 650.9 million)
Infrastructure investments	10.5%	(€ 135 million)
Rolling stock investments	0.2%	(€ 2.8 million)
Transfers to investments and operating costs of bus transit	0.8%	(€ 10 million)
Support to fare unions	3.8%	(€ 48 million)
Compensation for free tickets for disabled	2.9%	(€ 37 million)
Compensation for fare rebates to students	30.8%	(€ 394 million)

21/05/2013 **Source: Max Grüning, 2012** Page 15

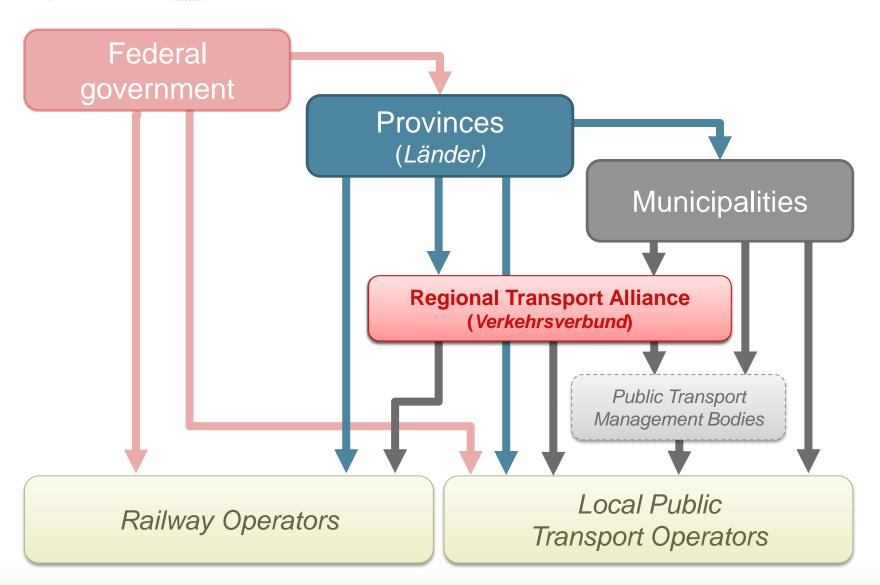


Planning Framework

- Local public transport plans required in all municipalities
- Public Transport Alliances coordinate regional public transport
- Ensuring quality through Transport Service Contracts between operators and municipal authorities

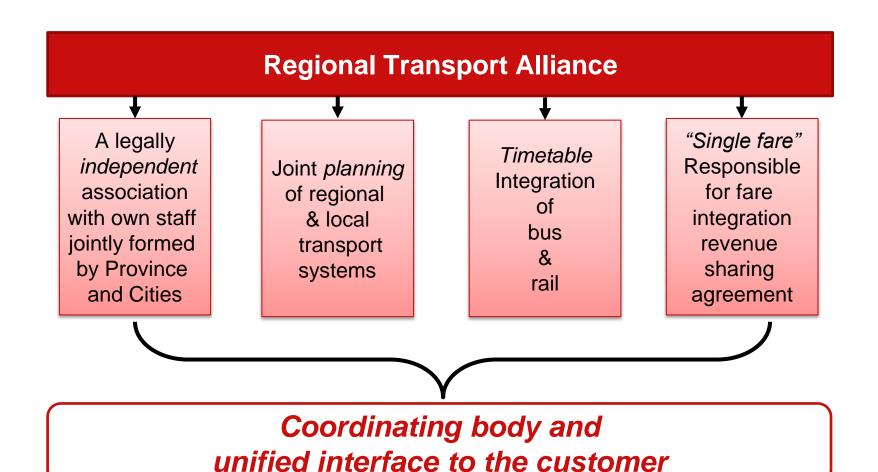
Regional Transport Alliances





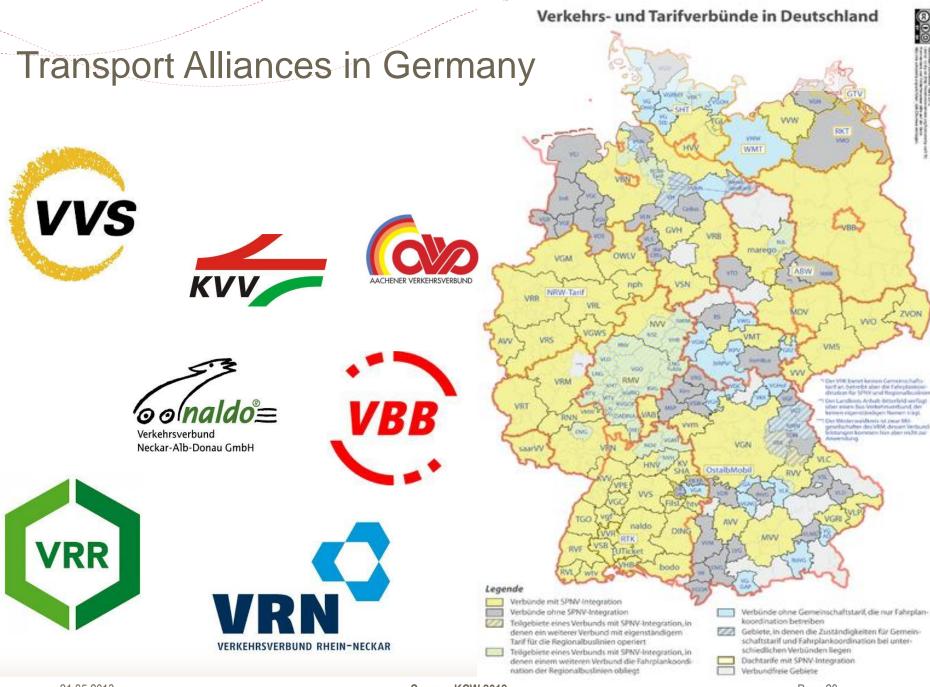
Features of Transport Alliances





*RSA = revenue sharing agreement

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21.05.2013 Source: KCW 2012 Page 20

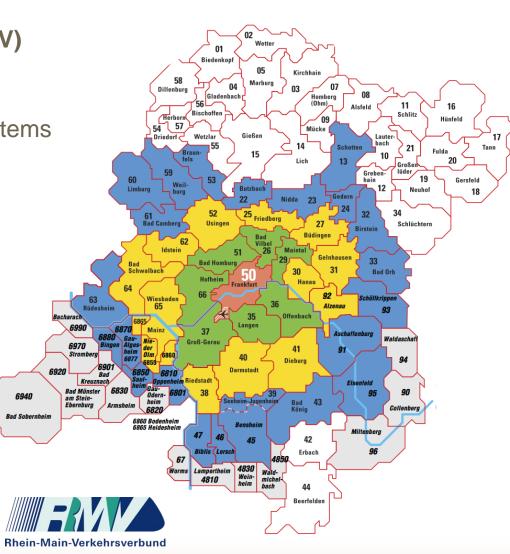
City of Frankfurt (Main)

Example

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

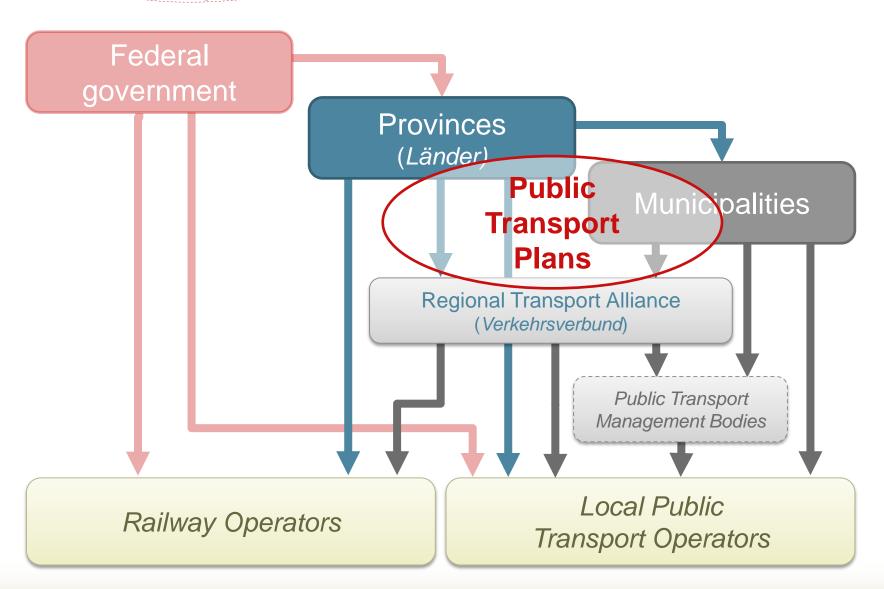
Rhine-Main Transport Alliance (RMV)

- 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



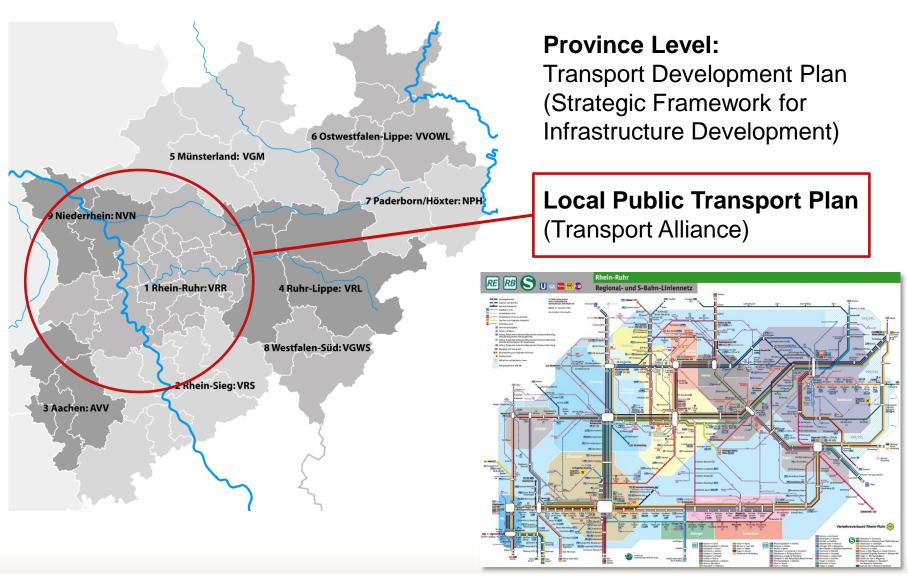
Public Transport Plans





Levels of Public Transport Planning





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Content of Local Public Transport Plans **91Z**



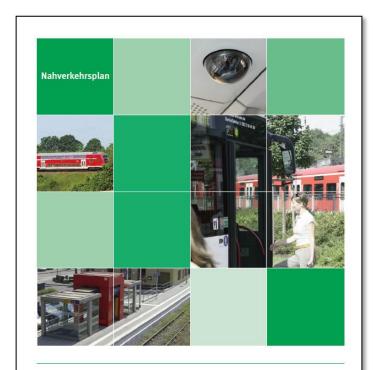
1. Frameworks Conditions

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



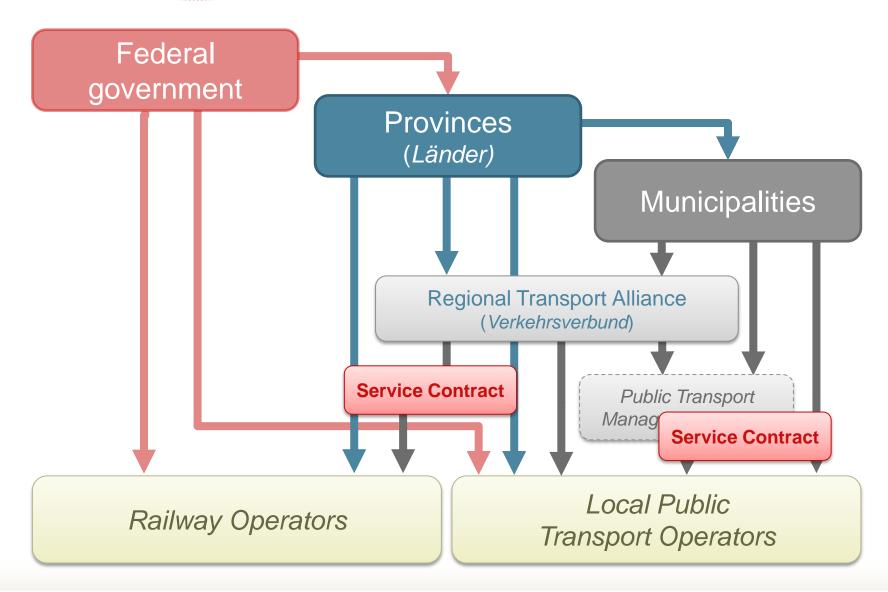
VRR-Nahverkehrsplan 2009

Example
Rhein-Ruhr area
8 mil inhabitants



Transport Service Contracts





Contracts in Public Transport



Fundamental Content of the Transportation Contracts

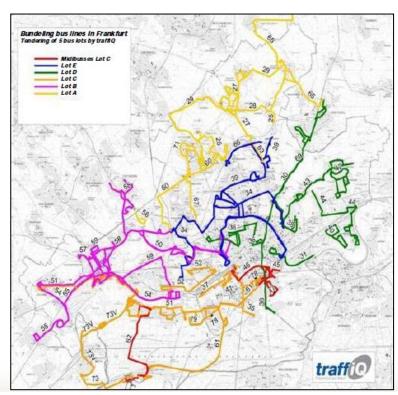
- Duration of the service, scope of services (including operating schedule, time schedules, routes)
- Compliance with all laws, standards and requirements
- Quality requirements
- Reporting obligations
- Gratifications and Penalties "Bonus-Malus-System"
- Bids are not allowed to contain public subsidies in order to be comparable
- Observance of high environmental standards are obligatory

21/05/2013 Source: TraffiQ, 2013 Page 26

Tendered Bus System in Frankfurt Example



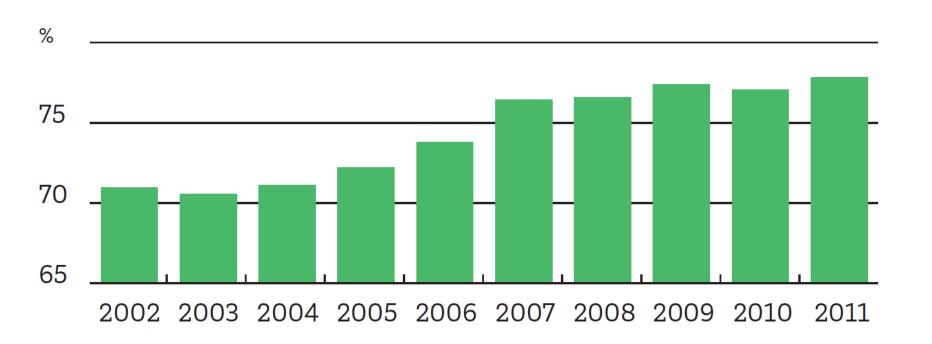
- Service contracts for 5 lots of bus lines
- Annually 2-3 Mio. VKT per lot
- Bundling of profitable and less profitable lines
- Private and municipal operators
- Still one unified "brand"
- Increase in cost efficiency
- Increased service quality



21/05/2013 Source: TraffiQ, 2013 Page 27

Share of fares in covering operational costs*





21/05/2013 Source: VDV 2012 Page 28

^{*} Numbers are including subsidies for students and disabled people



Lessons learnt from Germany



- 1. Clear split of roles and responsibilities;
- 2. Advanced system of **national**, **provincial** and **municipal** funding (initially introduced in 1971 and revised in 1992) ...
 - ... provided reliable long-term budget for high-quality public transport;
 - ... combined with clear procedural requirements, e.g. EIA and CBA
- 3. Requirement to develop local **public transport plans** in all municipalities;
- A key role for capacity building and service quality is on regional coordination through "Public Transport Alliances" (Verkehrsverbund);
- Recently, quality became more important. Criteria now ensured through "Service Contracts" between operators and municipal authorities;



Conclusions for China

- Combination of national-local sustainable funding mechanisms
- Comprehensive mobility planning
- Coordinate responsibilities



Prospects for SUT in China



2-day Expert Workshop in Mutianyu, 1-3 November 2012



10 Chinese and 10 international experts

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Innovation for Urban Transport Finance 9



... developed in working groups at the workshop

Participants were working in 4 breakout groups:

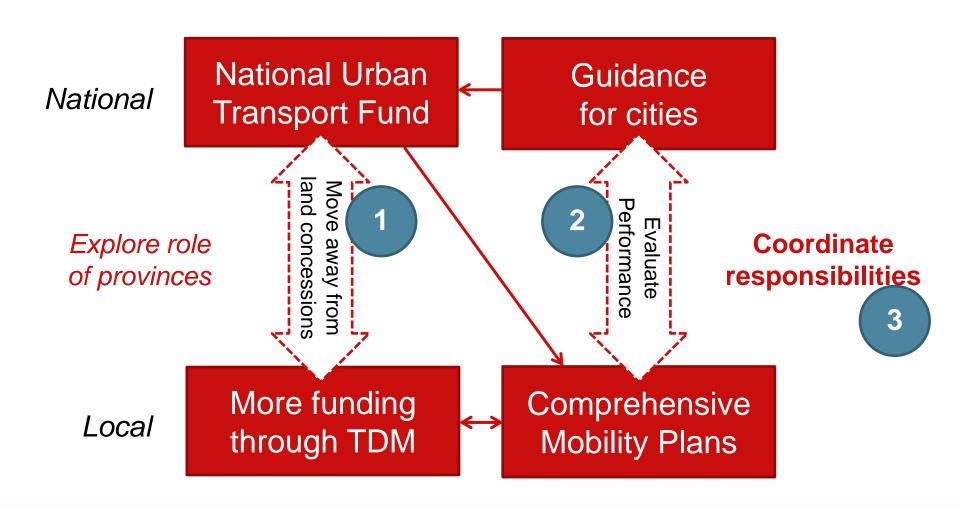
- Local Empowerment
 Increasing options for local funding of sustainable urban transport
- 2. Mainstreamers Scaling up innovative funding options for sustainable urban transport
- 3. Reform China Transport with New Fund
 Using national funding to catalyze sustainable urban
 transport
- 4. Long March to Structural Reform
 Reforming transport institutions and link funding to performance criteria



Potential Building Blocks



... of sustainable urban transport financing in China



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3 Leverage Points to Move Ahead





Combination of national-local sustainable funding mechanisms

- Chinese National Urban Low Carbon Transport Fund
- Land-use/property taxes & transit oriented development
- Transport demand management strategies

2

Comprehensive mobility planning

- Consolidating existing guidance and policies into a national urban transport policy
- Link funding to comprehensive mobility plans
- Provide capacity building and performance monitoring

3

Coordinate responsibilities

- Great potential of regional transport alliances for regional integrated transport services
- Unify responsibilities under transport bureaus (including rail)

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Thank you!

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