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Tram-Train – Grasping the Opportunity

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Content of Presentation

Brief overview of Tram-Train

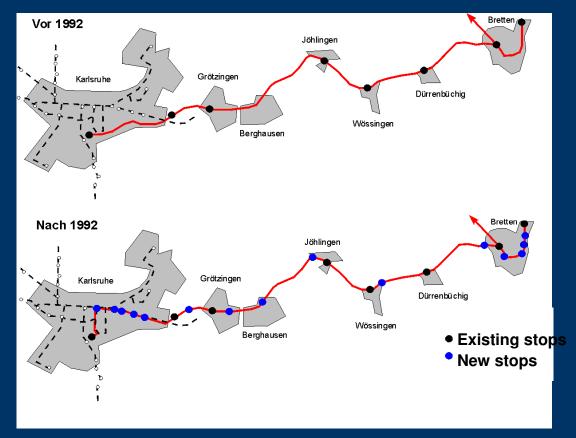
 Tram-Train: The stakeholder perspective

- The local opportunities
 - Leeds City Region
 - West Midlands



Philosophy

- Direct connections between the region and inner city
 - Faster services serve more stops while still reducing overall travel times

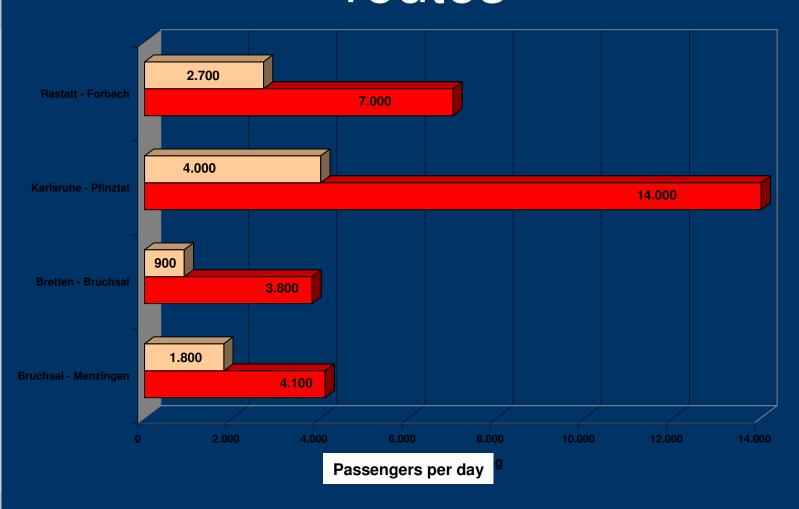


Public Transport Becomes Competitive





Ridership on selected routes







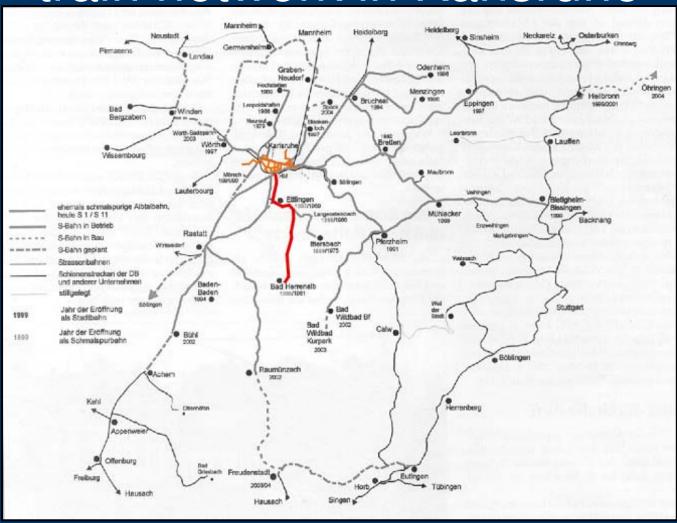
Reasons for Tram Train

- Potential new passengers all own cars
 - > (Decreasing number of captives)
- Motorists would rather use trams than buses:
- proportion of car owners using trams: > 40%
- proportion of car owners using buses : < 5%</p>
- Creating direct connections: car owners don't like to change
- Paying equal attention to traffic in inner cities and rural areas
- Regional traffic between cities and rural areas is the main growth market for Public Transport!



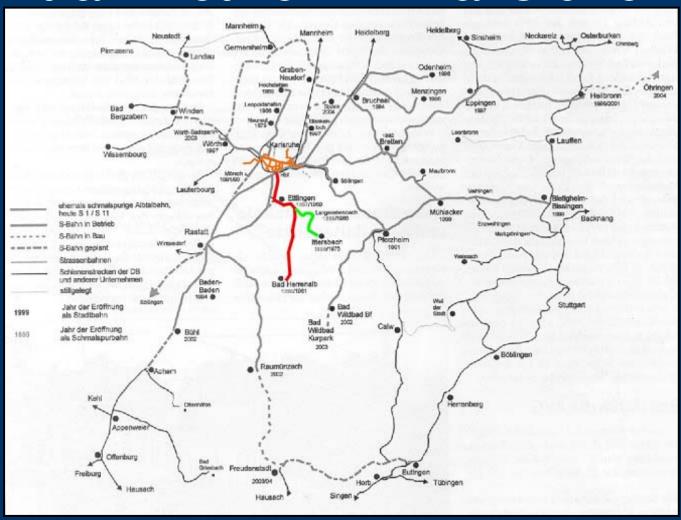






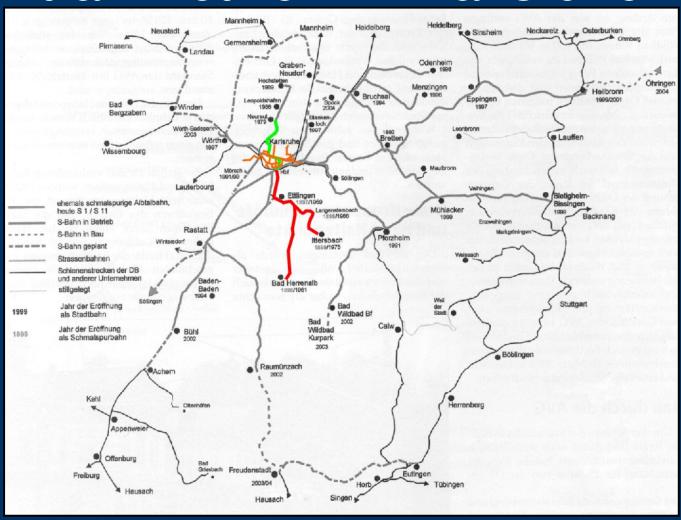






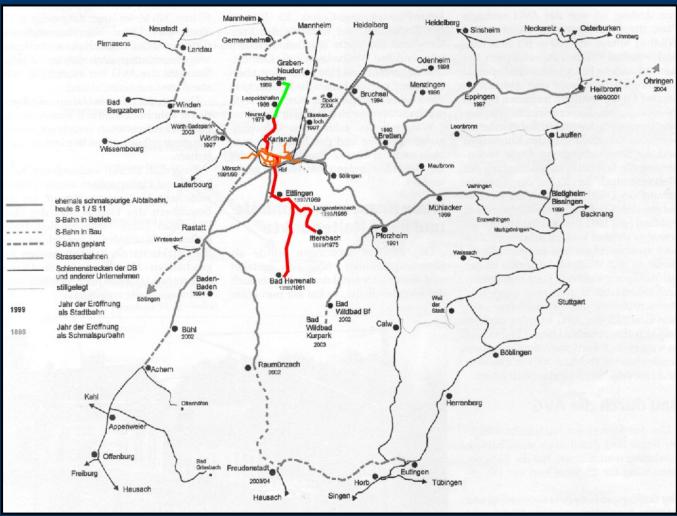






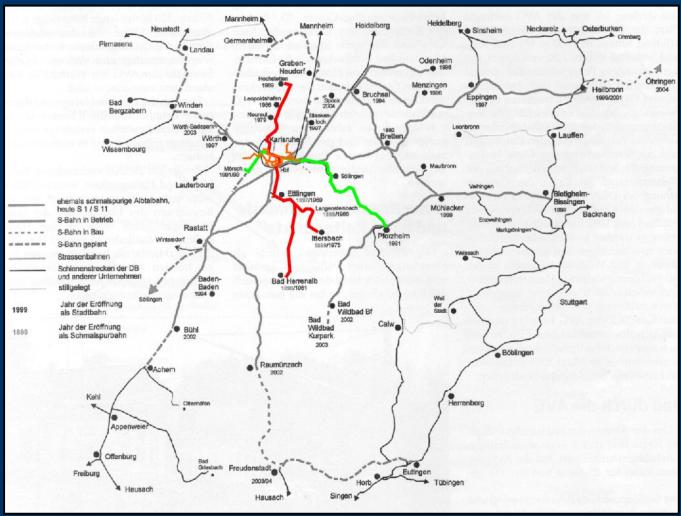






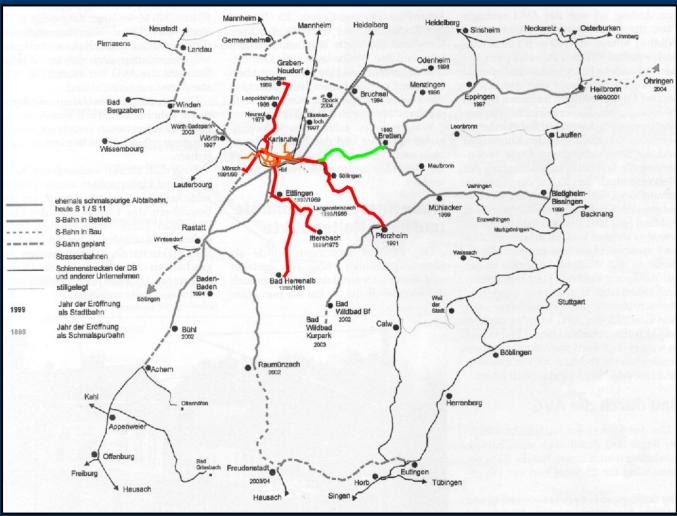






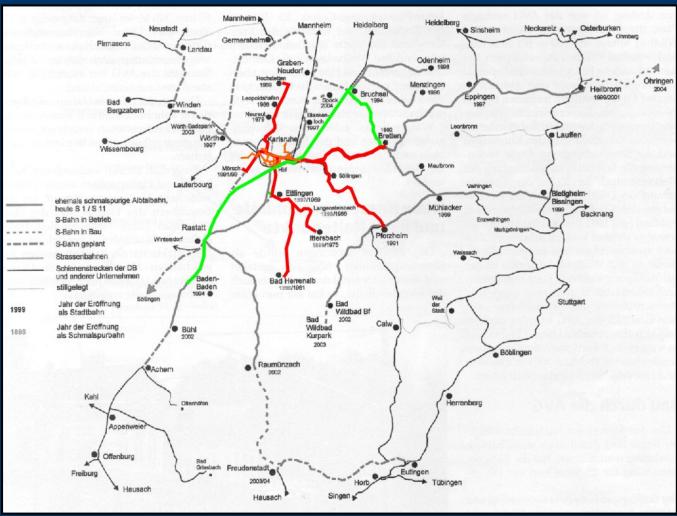






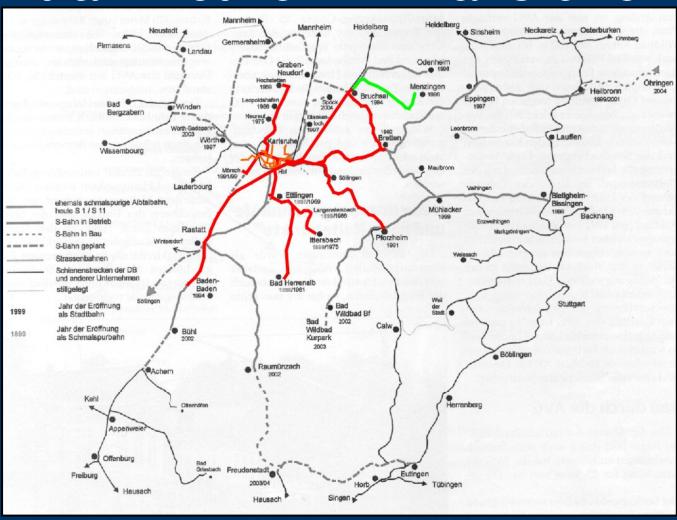






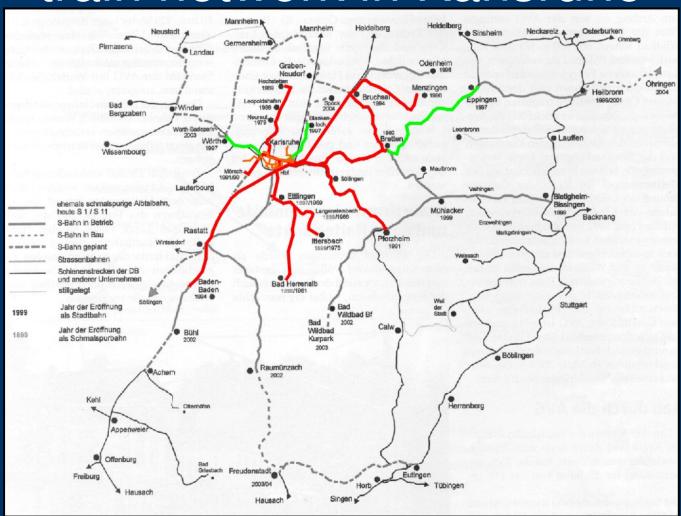






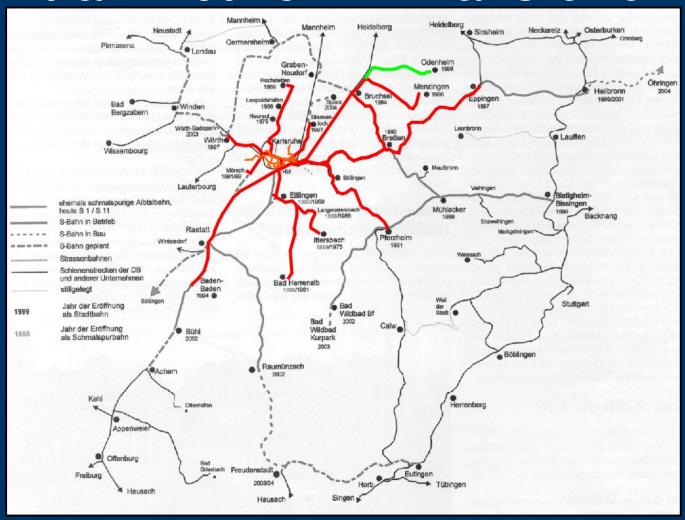






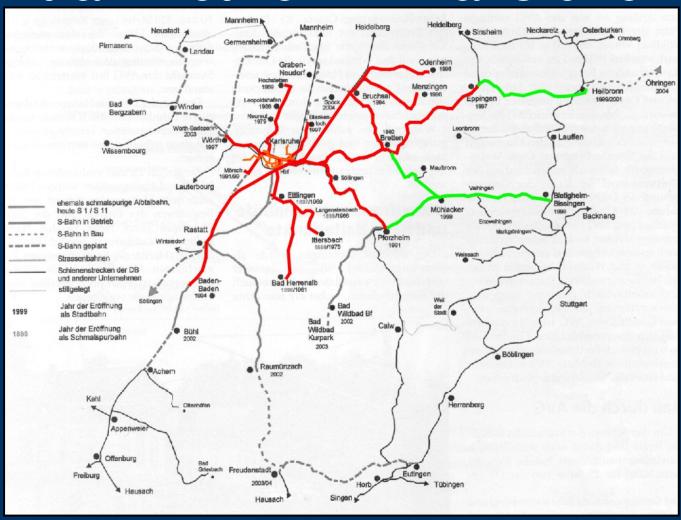








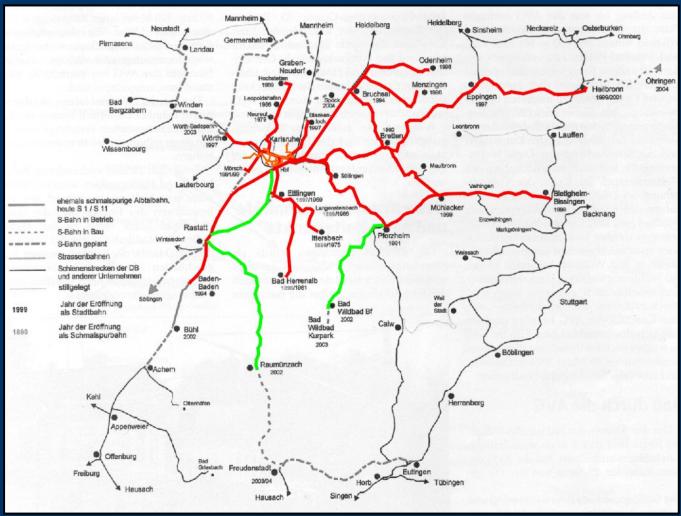








Development of the Tramtrain network in Karlsruhe

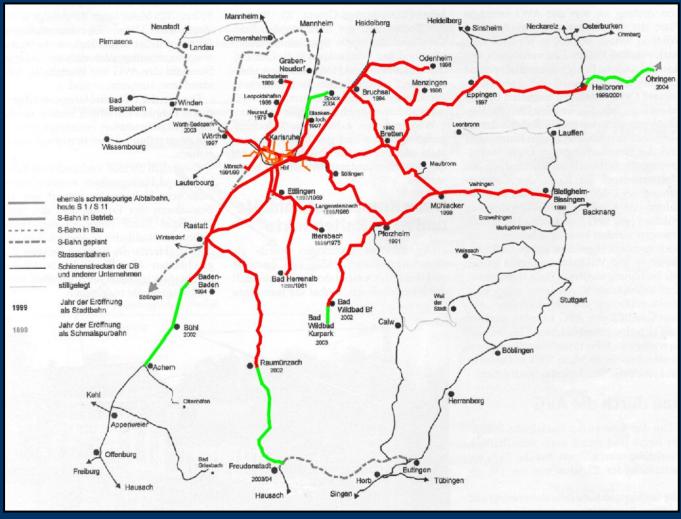


2002





Development of the Tramtrain network in Karlsruhe

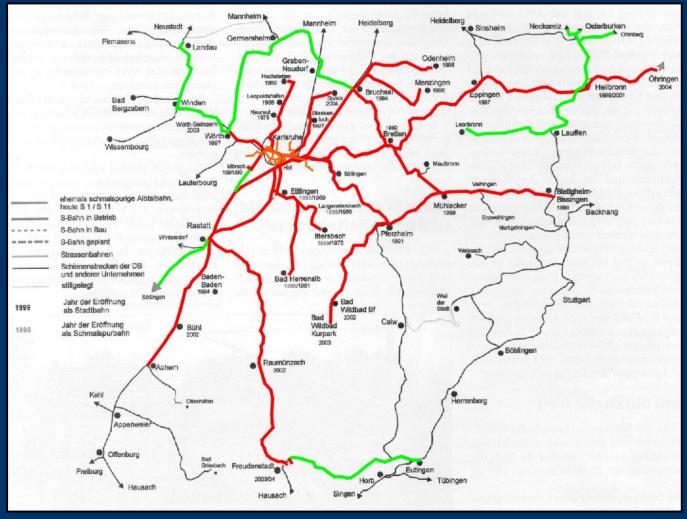


2003-2007





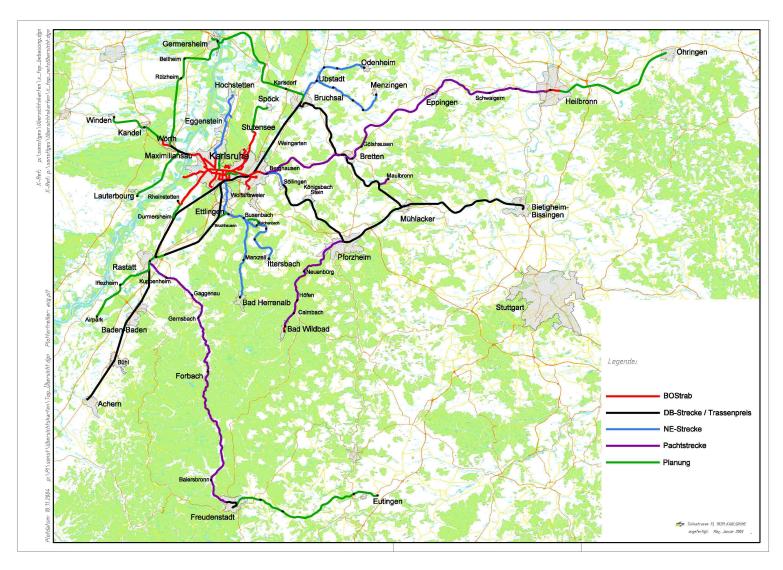
Development of the Tramtrain network in Karlsruhe



2007-2010



The Network today – 500 km in operation







Evaluating the Benefits - Heavy Rail versus Tram-Train Solutions?

- Key issues considered:
 - Capacity of vehicle / platform / line
 - Cost
 - Infrastructure constraints
 - Wider connectivity impacts
- Findings:
 - Significant cost implications of delivering increased heavy rail capacity
 - Tram-train is more cost effective means of increasing capacity





Tram-Train Stakeholders: Customers

Opportunities	Risks
 Significant Connectivity 	 Higher level of
benefits	standing
 More frequent stops 	 Toilet facilities
 Higher frequency 	
 Longer operational day 	
 Penetration of 	
communities	
Level Boarding -	
accessibility	
 Journey reliability 	





Tram-Train Stakeholders: Rail Operators

Opportunities R	Risks
 Further source of new rolling stock Improved journey times Increased patronage Cost reduction opportunities — operations/fuel 	Risk of -ve passenger reaction Increased operational complexity New standards Realisation of lower costs



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Tram-Train Stakeholders: Network Rail

Opportunities	Risks
 Reduced track 	 New standards
maintenance and	 Perceived risk of
renewals costs	collision
 Reduce local service 	consequences
use of network capacity	 Further interfaces
 More train paths to sell 	and boundaries to
 Major station capacity 	manage
	 Platform height /
	length provision



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Tram-Train Stakeholders: Department for Transport

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Opportunities	Risks
 Franchise cost savings 	• Alien culture – rail /
 Additional capacity at 	regions /light rail
lower cost	 Uncertainty in
Incremental	franchise specs
development – spreads	 Rail to fulfil more
funding	complex objectives -
	finance



Tram-Train Stakeholders: Local Transport Authorities

Opportunities	Risks
 Connectivity benefits over all other modes 	• RFA programme inclusion
 Uses spare capacity, thus lower cost of provision Best features of light and heavy rail 	 Dependence on Network Rail – not controllable Cross-boundary political agendas
 Progressive implementation opportunities 	 Development costs in face of uncertainty



Tram-Train Stakeholders: ROSCOs

Opportunities	Risks	
 New market opportunities on an international basis 	 Scale of fleet requirements 	
 Good PR – pioneering in UK Shape rail vehicle markets – pacer replacement 		

