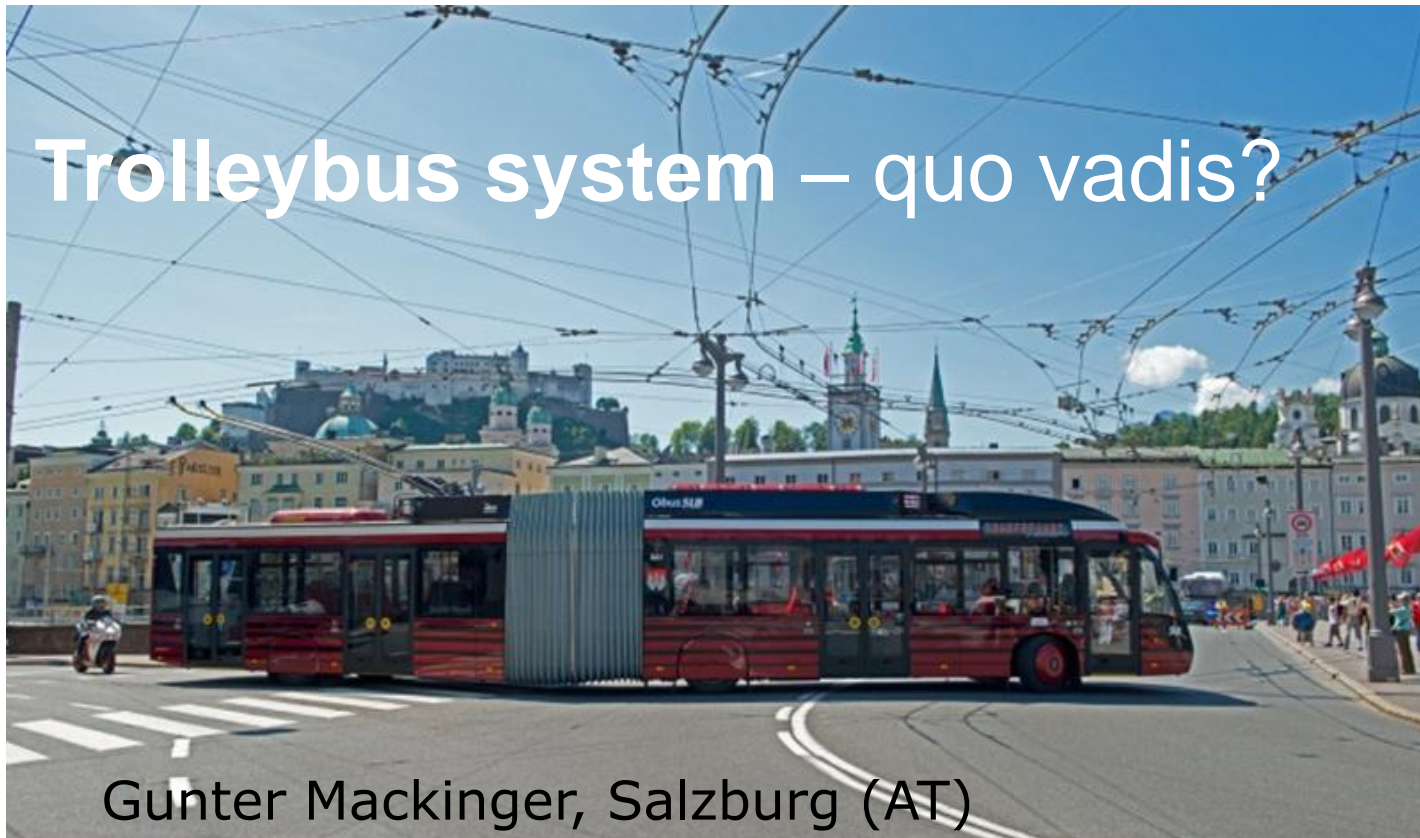


Promoting **clean** public transport

Trolley

Trolleybus system – quo vadis?



Gunter Mackinger, Salzburg (AT)

The TROLLEY project

- Delivers **transferable strategies** for implementation of trolleybus systems
- Develops **innovative ways of promoting trolleybus systems** as an environmentally friendly transport mode and thereby
- Reshapes and **updates the image of trolleybuses** in Central Europe!



The TROLLEY consortium



- The **TROLLEY** consortium is an **EU funded project** consisting of nine partners located in the EU:
 - Salzburg AG (Austria), Lead Partner
 - City of Brno (Czech Republic)
 - Barnim Bus GmbH, Eberswalde (Germany)
 - TEP S.p.A., Parma (Italy)
 - LVB, Leipzig (Germany)
 - City of Gdynia (Poland)
 - University of Gdansk (Poland)
 - SZKT, Szeged (Hungary)
 - TrolleyMotion, Salzburg (Austria)



Advantages

The **Trolleybus** is

- Green
- Clean
- Smart
- Economical (society)
- Cost effective



The Trolleybus – System Guarantees

- Short-term implementation of electro-mobility in public transport
- Visible modernisation of PT, political story of success
- Diverse sources of electricity and systems for its storage, traditional and regenerative power
- Short planning phase
- Approved technical solutions
- Immediate operating profit
- Quick construction of infrastructure



Answers to Prejudices



Modern PT system
vs old fashioned
reputation



Reliable and visible PT
vs disturbing overheads

Main barrier & ways forward

- Main barrier and challenge: initial investment!
- Public pressure for improved and green PT from politics, passengers and citizens
- Present trolleybus as the solution to fight the environmental problems (and costs) of a city
- Support from TROLLEY-partners for planning and reasonable cost estimate
- Reliable partners for construction of infrastructure and vehicles, no experiments

Examples of new solutions

Trolley
Promoting *electric* public transport



Aachen/D
Deva-Hunedoara,
Petroșani-Petrila/RO

Steps forward

- Low floor trolleybuses with modern design
- Higher energy efficiency - saves costs
- Gain political commitment with successful implementation
- Investment in new infrastructure
- Passenger information systems (real time)
- Improve image of trolleybuses
- Improve service standards
- Excess of capacity (e.g. double-articulated)



Quo Vadis? – Factors of success

- Hype of electromobility
- Demand on modern and clean PT
- Trolleybus as a short term option for electric PT, also where a tram system cannot be installed or financed
- 312 trolleybus systems worldwide – becoming more
- New intelligent solutions e.g. Leipzig, Osnabrück, Bremen
- Further technical developments



TROLLEY support – Core Outputs

- Take-up guide for diesel bus replacements
- Manuals on advanced energy storage systems (on-board and network-based systems)
- Handbook on diesel bus to trolleybus conversion principles
- Reference guide on joint trolleybus and tram network use
- Handbook on intermodal public transport with trolleybuses



Quelle: Salzburg AG

Thank you for your attention!

KR Dir. Gunter Mackinger

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