

**Civitas Forum 2015, Sharing the City
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Session 14: “Designing sustainable urban mobility infrastructure“

Sustainable infrastructure? Selected physical, organizational and intellectual Austrian examples

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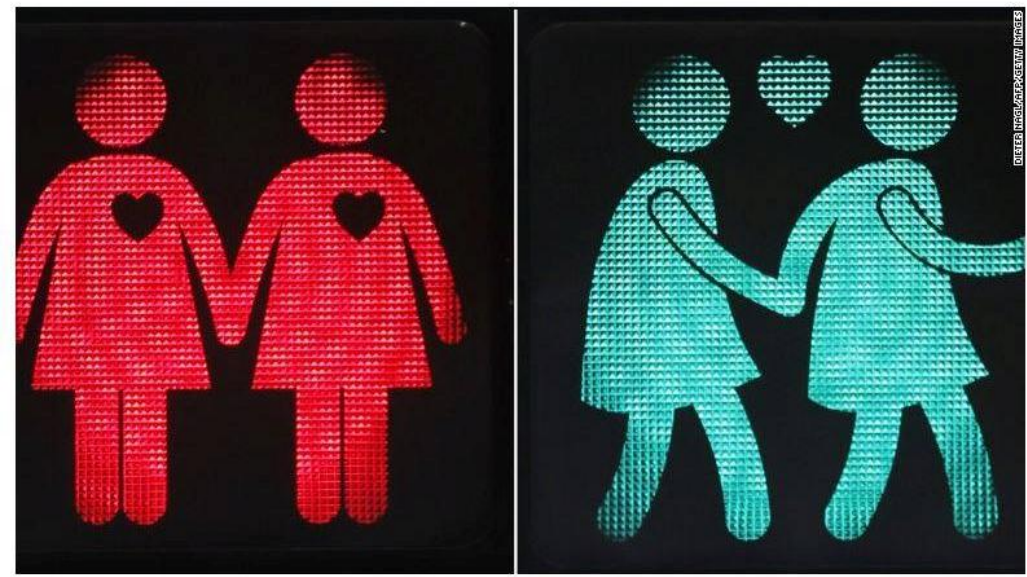
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Vienna adds same-sex couples to pedestrian traffic lights

By **Jareen Imam**, CNN
 Updated 1707 GMT (0007 HKT) May 12, 2015



New traffic lights show female same-sex couples in Vienna on May 12, 2015.

More from CNN

Breaking News

Why the UK election matters to the rest of the world

S. Korea: 2 dead, 3 wounded in shooting spree

Reports: North Korea publicly executes defense chief

'Ride me all day for £3' bus advert backfires

Walking tool

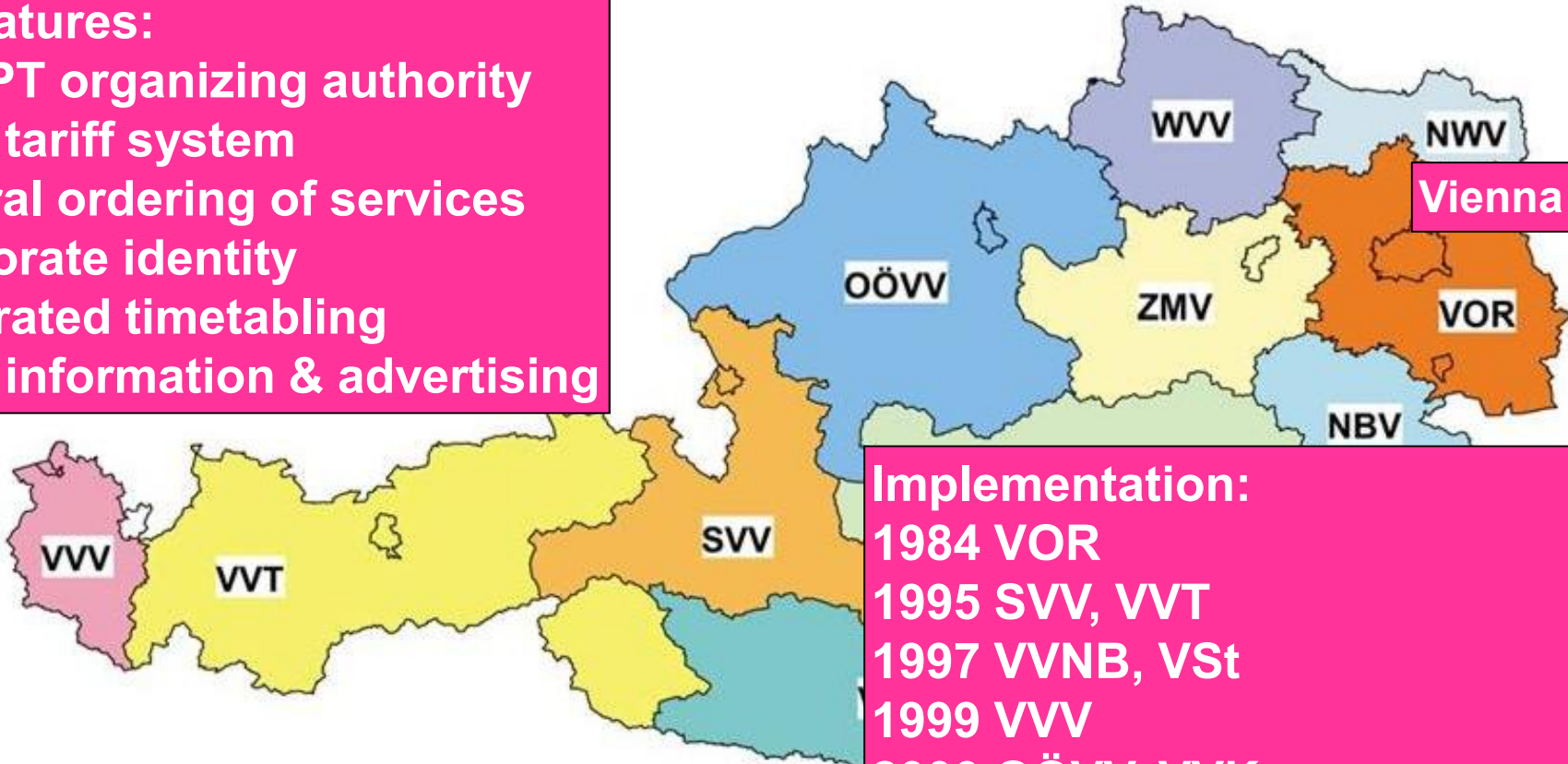


Vienna Auto Show

Organizational: Verkehrsverbund

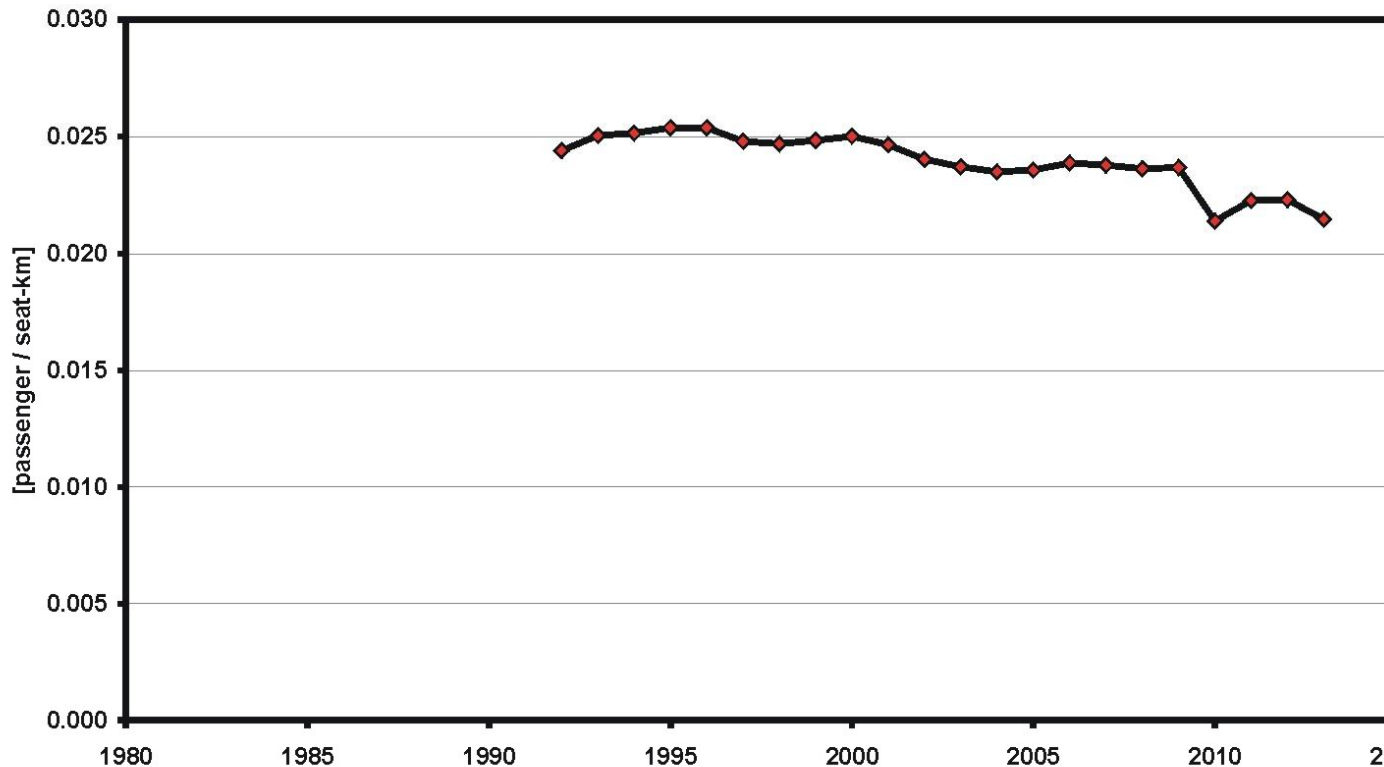
Key features:

- One PT organizing authority
- Joint tariff system
- Central ordering of services
- Corporate identity
- Integrated timetabling
- Joint information & advertising

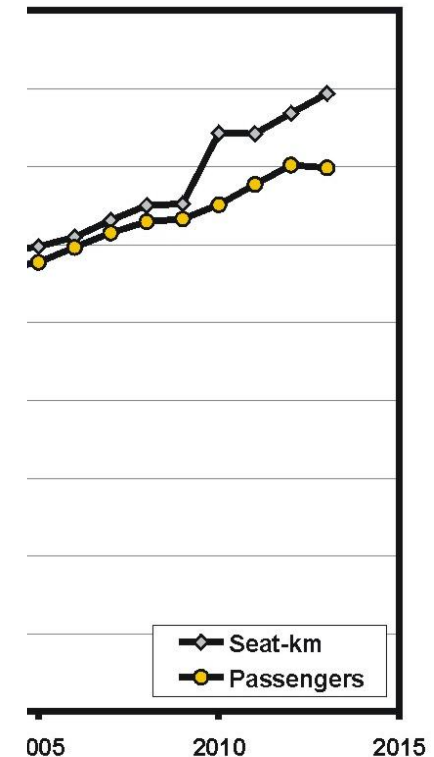


Organizational: Verkehrsverbund

VOR: Efficiency of supply

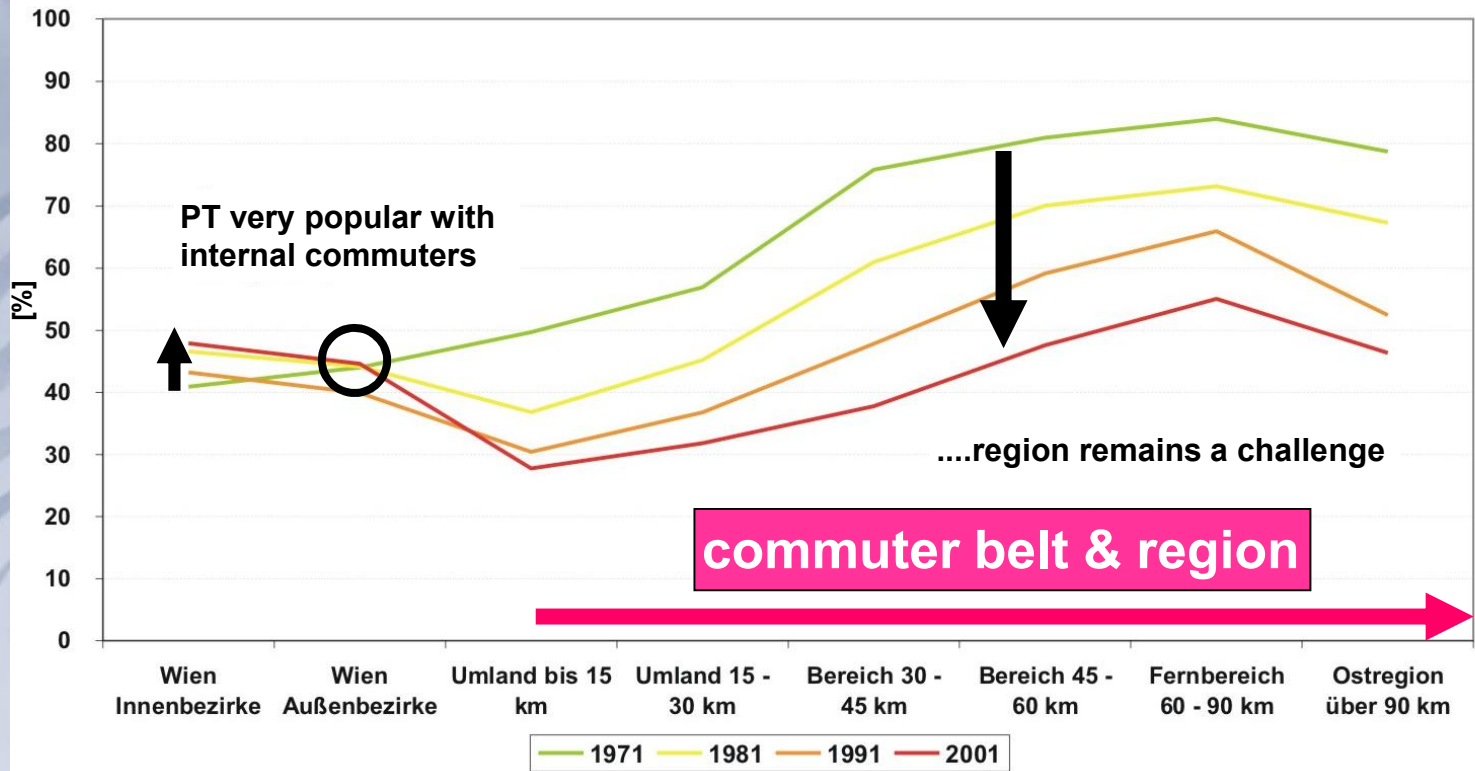


Passengers



Organizational: Verkehrsverbund

Vienna commuters: PT modal share 1971 – 2001



Physical: S-Bahn

- Number of systems:
DE: 15, **AT: 6**, CH: 4 → total 25
rest of Europe: 40+
rest of World: 13+
- Austrian systems:

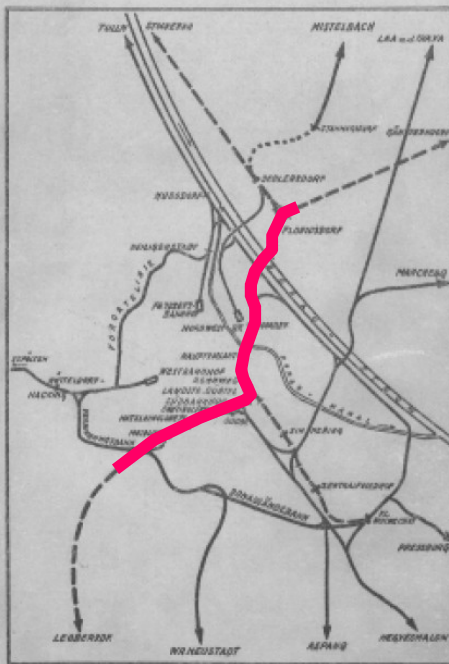
Key features:

- Through-connecting diameter lines
- Region → city
- Usage of regional & LD tracks
- Short stop distances
- Easy interchange with other modes
- High acceleration, low max speed

System	year	[Pax/d] ₂₀₁₄
Vienna	1962	373,000
Salzburg	2003	21,000
Styria	2007	26,000
Tyrol	2007	40,000
Carinthia	2010	16,000
Vorarlberg	2011	30,000

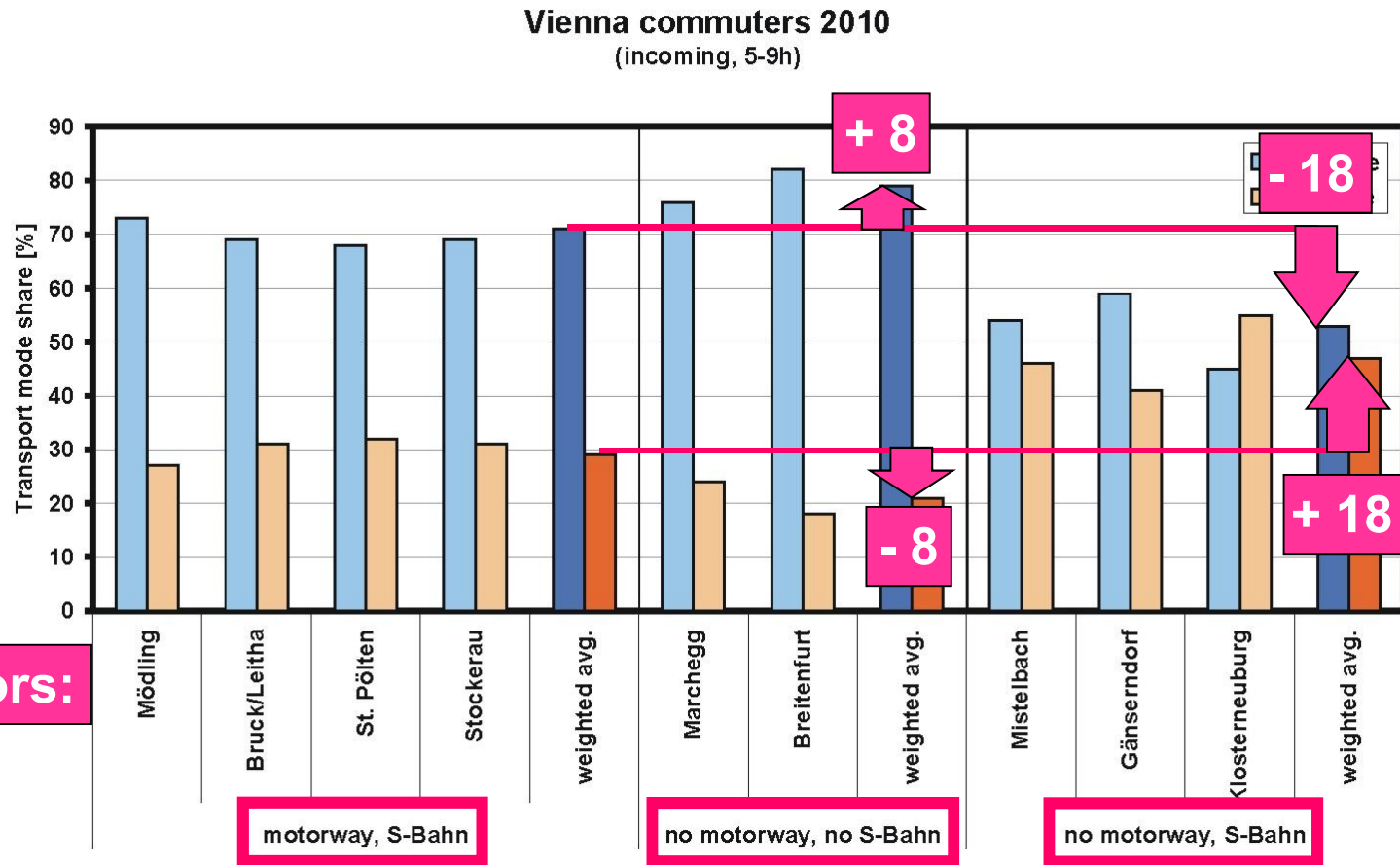
Physical: S-Bahn

WIENER SCHNELLBAHN
PROJEKT DER ÖBB 1955

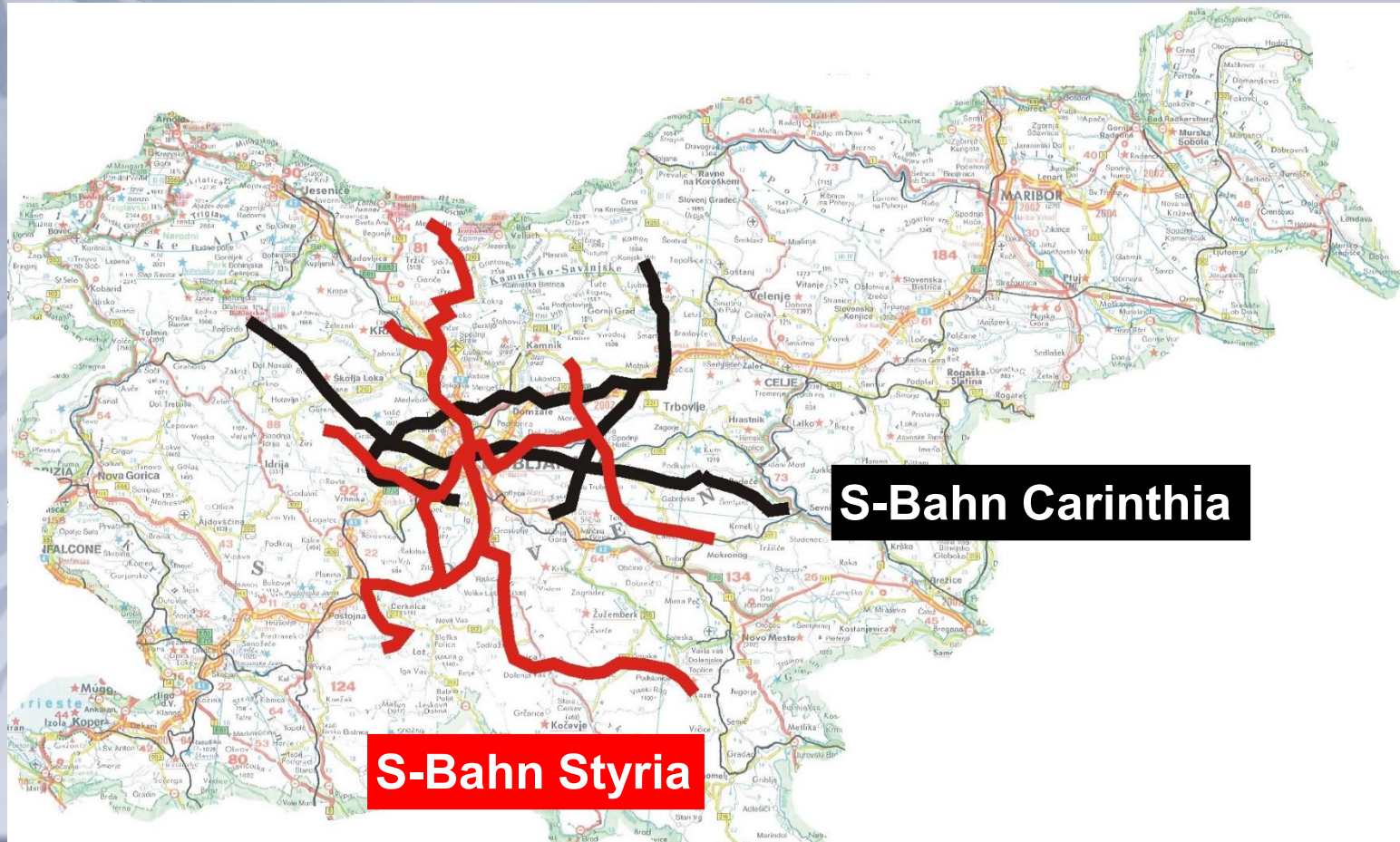


17. Jänner 1962 war ein großer Tag für den öffentlichen Verkehr in Wien. Die Schnellbahn wurde eröffnet und nahm ihren Betrieb auf. Der Eröffnungszug bereitet sich hier im neuen Bahnhof auf die Weiterfahrt vor. (K. Pfeiffer, Sammlung Dr. M. Schuh)

Physical: S-Bahn



Physical: S-Bahn

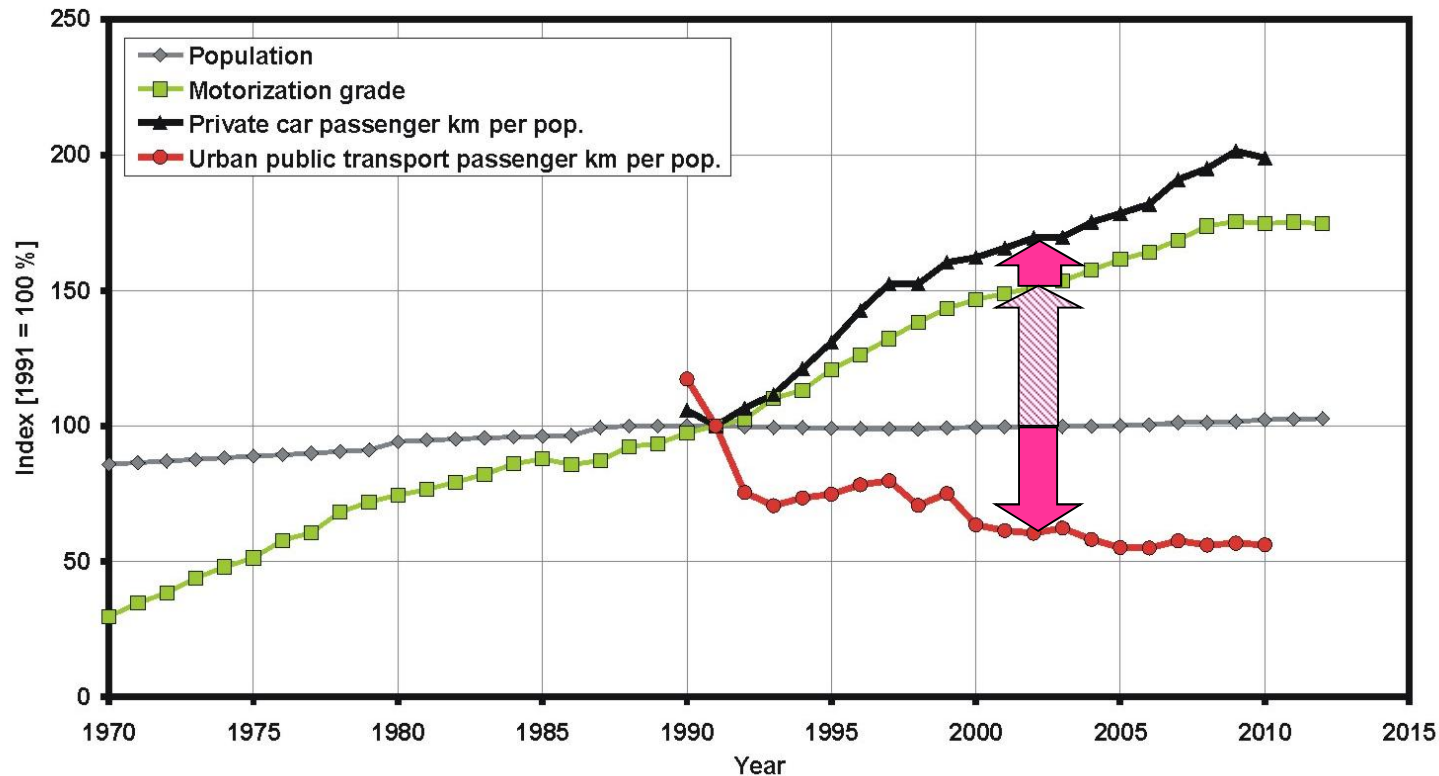


S-Bahn Carinthia

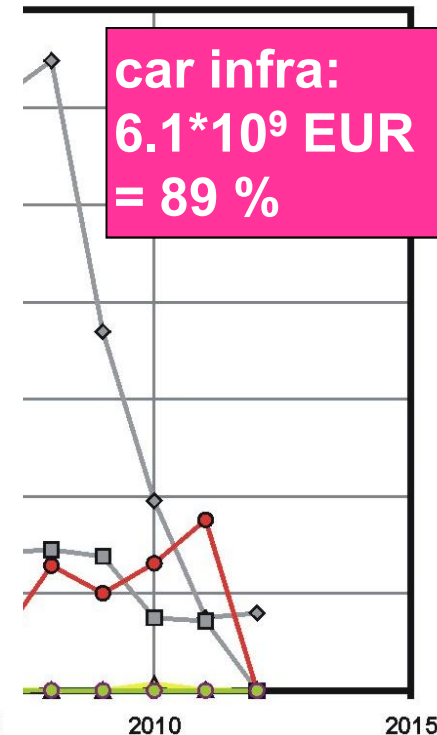
S-Bahn Styria

Excursus: SLO & Financing



Slovenia: Transport index development



ents



Organizational: Tariffs

- Verkehrsverbund: tariff integration and policies
- Example: yearly ticket (YT) for core zone Vienna
- Price of YT [EUR] 2010: 449 (224 SC)  - 19 %
2015: 365 (224 SC)
- No. YT 2010: 245,000, 2015: 500,000
- No. SC YT 2010: 110,000, 2015: 150,000
- YT's revenue share [%]: 2010: 28.8, 2015: 38.1
- Revenues = $(n_R * p_R + n_S * p_S) / \text{share}$
2010: 467.5 mio EUR  + 21 %
2015: 567.2 mio EUR

price reduction → revenue increase

Intellectual: doctoral colleges @ VUT

- **URBEM – Urban mobility and energy system**
- **EWARD – Energy and resource awareness in urban and regional development**
- **Funding by public bodies (eg. public utility company)**
- **To deepen research and education ...**
- **Operable pathways to a sustainable and livable city ...**
- **Under special consideration (awareness) of energy and resource consumption.**

Conclusion

- **Most important entity for sustainable mobility?**
- **Information!**
- **Yes: provide infrastructure for people's behaviour that's best for society**
- **No: persuasion for behaviour that differs from natural behaviour under given infrastructure**
- **Valid for transport infrastructure**
- **As well valid for organizational structures**
 - **decide, design, supervise, mediate, implement and evaluate infrastructures**

Conclusion

Alan Kay

(*1940, computer pioneer & scientist)

„The best way to predict the future is to invent it“

References

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