

Smart City – smart World – smart Europe

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Taking the best from the Digital and the Analogue



Visegrad, 13.09.2019

EPTS FOUNDATION in a nutshell

Background:

- Established in the 1980s, EPTS Foundation as institution since 2018
- Today: 15 different countries. 30,000 people in member associations (growing)

Principles:

- Neutrality, scientific objectivity, independency
- Sustainability, diversity, pluralism

Approaches:

- All transport modes, all mobility objectives, all scientific professions
- All European countries (EU-27 plus) and adjacent regions
- Sponsoring as well as voluntary basis (registered non-profit organisation)

Goals:

- Establishing a network of knowledge for transport scientists
- Encouraging exchange towards “intercultural interoperability”
- Giving advice to EU stakeholders (administration, politicians, entrepreneurs)

EPTS FOUNDATION: current projects

European Transport Congress ETC, annually:

→2018 Warsaw, 2019 Bratislava, 2020 Rostock

→European Friedrich-List-Award for Young Transport Scientists

EPTS Partner Congresses and Excursions:

→May 2019: Budapest (HU), Day of Transport Culture

→July 2019: Leeds (UK), UTSG-Congress

→August 2019: Lyon (FR), ESRA Conference

→September 2019: Warsaw (PL), Eurotrans

→October 2019: Salzburg (AT), IRE Europe Summit

→November 2019: Frankfurt (DE), 5th German Mobility Congress

Information and Expertise:

→Panel of Experts: network of distinguished Transport Scientists

→News portal and social media: www.epts.eu

Pro Sciences – pro Variety – pro Europe

Smart City – smart World – smart Europe

Do smart technologies and digitization play key roles in making transport sustainable?

- Global challenges for mobility and transport
- Public transport: major systemic advantages and threats
- mobility perspectives 2030 and beyond



source: trend.at

Global challenges for mobility and transport

→ WHY do we need a transformation?



source: forschung-und-lehre.de



source: ramasuri.de

General human approach:

→ mobility of people and goods is a major achievement in all free societies

→ urbanization is the predominant development on earth since decades

but:

→ environmental impact of our current way of practicing mobility isn't sustainable, energy consumption, emissions and land use are far too high

→ Paris Agreement (2016), IPCC Report (2018), "Fridays for future":

high and increasing pressure to take action

PT: major systemic advantages and threats

→HOW can transformation succeed?



source: pixabay.com



source: bote.ch

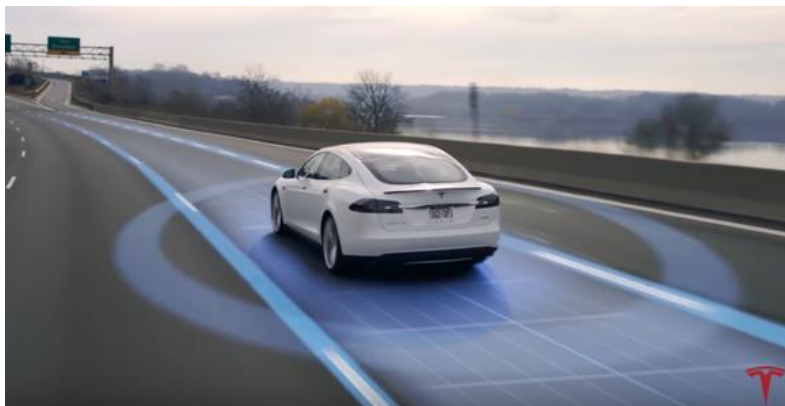
Chances:

- high capacity, low spatial impact, ideal for large quantities
- principally environmental friendly

Challenges:

- complexity relatively high, cost effectiveness often too low
- difficult time-scale: long-term planning phases vs. short political election periods

Mobility perspectives 2030+



source: Tesla Motors



source: News Øresund / Jenny Andersson



source: Deutsche Bahn

→ digitization leads to automated and autonomous vehicles, yet the mobility is still carried out analogue

→ e-cars cause green congestions

→ inter-modality raises efficiency, but can't replace spatial framework

A complementary perspective: reducing the impact!



source: Getty Images



source: Armchair travel club



source: America retail

→ substitution of physical mobility coincides with availability of reliable and affordable electronic devices, like the internet
→ **ATTENTION!** over-compensating effects to virtual mobility are likely

Interim conclusions

→ From a general perspective, rail and PT have got splendid prospects in a smart world

→ Metropolis areas are growing fast all over the world

→ More variety in life patterns: great chances to reduce demand peaks and to increase inter-modality

→ Limitations between transport modes become more indistinct

→ More mobility options (E / A) will not automatically lead to more sustainability



source: News Øresund / Jenny Andersson

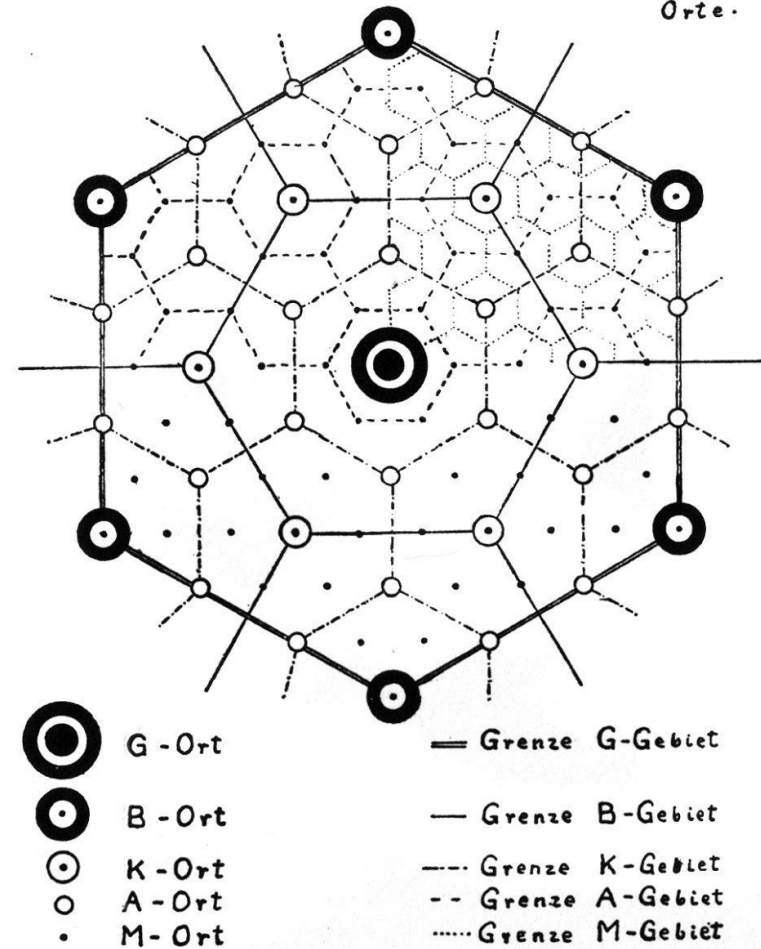


source: Getty Images

Recommendations

- Balance between strong legal framework and equally strong entrepreneurial environment needed
- Use digitization and telematics to reduce complexity and enhance capacity
- Spatial planning: pay high attention to the chances of traffic avoidance, space scarcity and distance reductions
- Integrate bike and foot modes: they are natural allies of Public Transport
- Planes, cars, ships: handle with care!

Fig. 2. Die Ergänzungsgebiete im System der zentralen Orte.



source: zeithistorische-forschungen.de

Last message

Smart life is neither a demon nor a saviour!

All new technologies – smart as well as analogue – are (just) new tools!

We still have to agree on how to use them.



source: [tekton.com](https://www.tekton.com)

***“Mille grazie – Dekuji – Hvala – Köszönöm szépen –
Dziękuję bardzo – Vielen Dank – Merci beaucoup –
Grazia fitg – Thank you very much – Blagodaram –
Muchas gracias – Takk – Dakujem – Paldies – Acio –
Kiitos – Dank u wel – Go raibh maith agat – Tack “***