

Urban Transport Challenges in Europe. Results from the TRANSFORuM Project.

United Nations ECE Working Party on Transport Trends and Economics

Workshop on Transport Research and Innovations

Geneva, 5 Sept 2016

Siegfried Rupprecht, Rupprecht Consult GmbH





What I will talk about

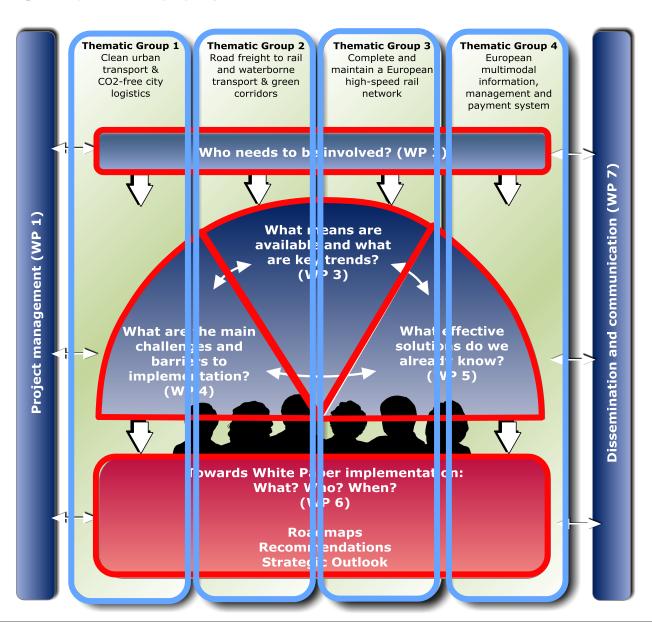
- What was TRANSFORuM?
- TRANSFORuM Urban Roadmap
- TRANSFORuM Strategic Outlook for urban transport
- Some personal observations

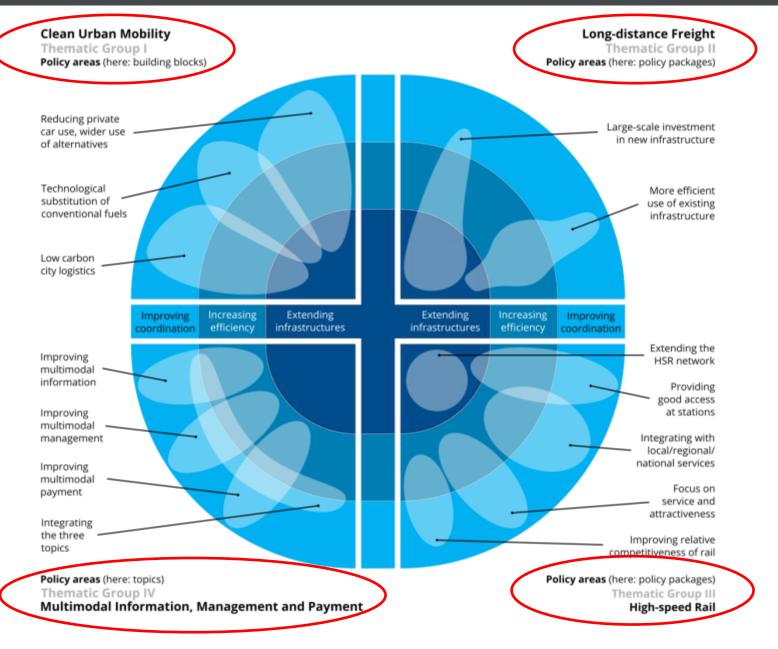


Some TRANSFORuM Facts

- Aim: Develop roadmaps to implement EU White Paper goals
- 2 year EU-funded project
- 13 **research** partners
- wide consultation
 - 127 experts from all key sectors of transport in EU
 - 10 workshops, 34 interviews
- external quality control panel
- stakeholder-driven roadmaps











Achieving clean transport in cities and CO₂-free city logistics





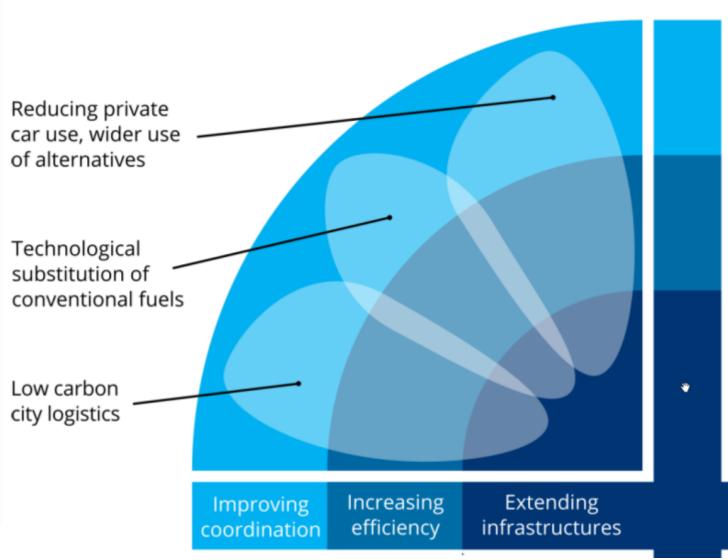
Drivers and trends in urban mobility

Examples of positive contributions	Drivers & trends	Examples of negative contributions
Better potential for Public transport and active transport	Urbanization	Increased demand for transport; sprawl
Increasing oil prices make alternatives competitive	Energy prices	Continued fluctuations make investments uncertain
On average less car use, better supply of PT	Ageing population	Higher car use among modern elderly than before
May avoid cars because of ICT solutions and alt. mobility	Young people's lifestyles	Cars remain status; young may catch up with 'delay' later
Leading to reduced emissions etc.	More efficient engines	Rebound effects
Economies of scale for EVs/alt. fuel vehicles	Alternative fuel system investments	Batteries, EVs remain expensive
Less travel for shopping	Internet based shopping	Increasing number of home delivery by vans
Consolidation and promotion of e.g. electric trucks	Freight and logistics	Restrictions on inner city logistics lead to longer trips
Citizens become engaged in sustainable mobility plans	Urban transport planning	Planning remain poorly coordinated
Modernization and priority to PT services	Public transport development	Insufficient funding/priority leads to decline
Cheaper access offer alternatives to travelling and support alternative modes	ITC deployment	ITC used to stimulate mobility and throughput of vehicles



Urban transport

Policy areas (here: building blocks)

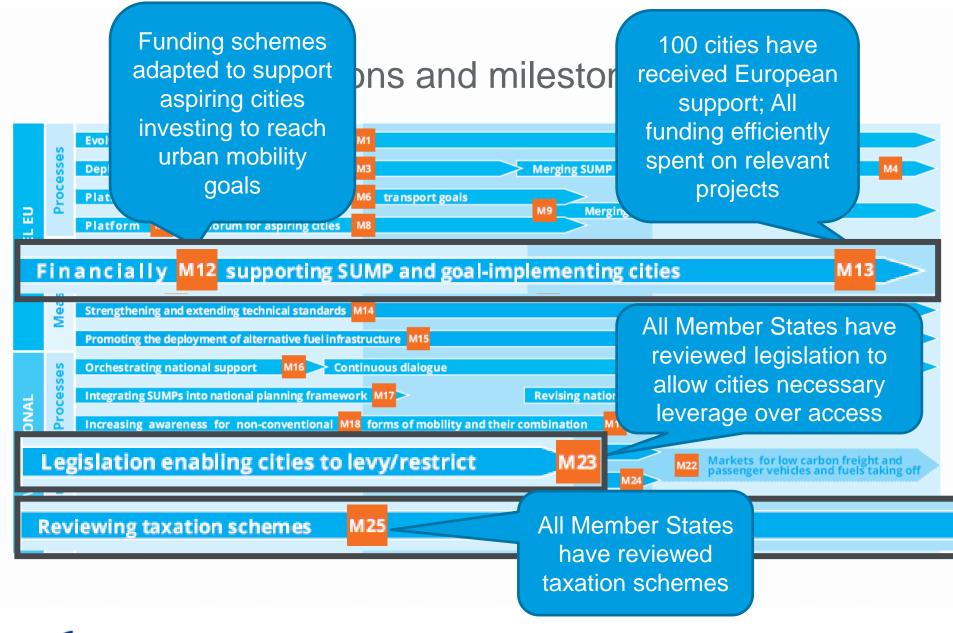




TRANSFORuM key messages for urban goal

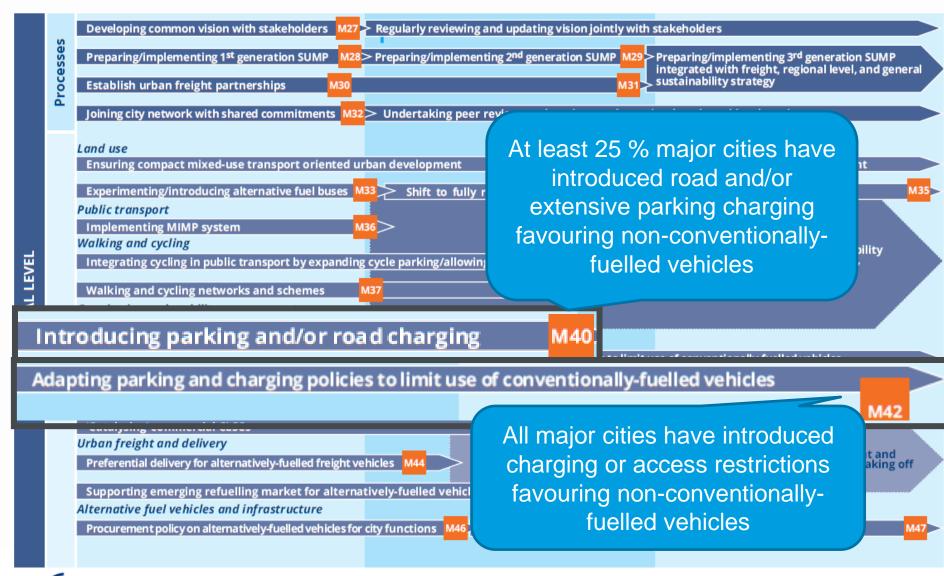
- Transforming urban mobility requires an open approach allowing alignment of European goals to local visions and benefits – and connected policy areas.
- Replacing vehicles and fuels is important but <u>not</u> sufficient
- Limiting conventionally-fuelled vehicle use can come at low costs, an urban transformation agenda would include:
 - integrated transport and land use plan
 - freight partnerships
 - fossil-free public transport
 - promotion of walking and cycling
- Political momentum must be fostered in many cities
 - SUMP platform of local stakeholders
 - · campaigns to raise awareness
- National and state frameworks must support European goals and local actions
 - systematic review of national policies to enable cities to contribute to European goals
 - reinforce standards and funding for clean fuel infrastructure
 - reduce counterproductive tax incentives
 - extend legal framework to enable charging and restrictions for polluting vehicles
- Communication, coordination and knowledge consolidation will advance the learning curve



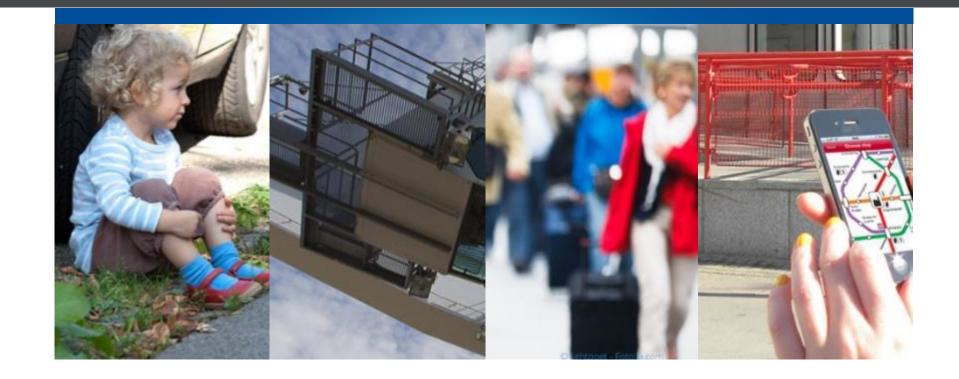




Actions and milestones







Strategic Outlook





Strategic Outlook (2030 – 2050)

- Key cross-cutting trends
 - ageing population in Europe and its economic and transport impacts (service offer, active mobility as goal, compact urban development, increased "service consumption")
 - climate change and its uncertainties
 (decarbonisation of transport as a key policy goal, global dimension of exchange, resilience building to guide infrastructure investment)
 - relative decline of Europe's economic position (global GDP) and its many unknowns (need for longer-term investments serving more policy goals)



Strategic Outlook - Long-term perspectives

- Urban mobility
 - SUMP principles will be an enabler for sustainable change
 - electrification the end of the combustion engine!
 - dynamic changes in value systems (of young and old people)
 - ICT based on new business models helps bring about new lifestyles
 - urban freight requires more integrated (policy-driven) solutions
 - compact and coordinated urban development (sustainability and resilience are core)



Overall TRANSFORuM lessons

- Europe's Transport White Paper goals are helpful to trigger progress in the respective fields
- We do not only need "lighthouses" systematic transfer and takeup of good practices is also needed
- The balance between infrastructure investments and lowhanging fruits needs to be kept
- A "culture of change" is required, including commitment to joint visions and mutual learning



More from TRANSFORuM

1. Four Roadmaps

- separate documents for all four White Paper goals
- implementation-oriented
- focusing on actors, budgets, time horizons, etc.

2. Recommendations

- separate documents for all four White Paper goals
- proposed actions by all relevant actors; benefits of concerted action

3. Strategic Outlook

sensitivity analysis, assessing the robustness of current conclusions

4. Summary documents

Ten minute practitioners' digest (audiovisual summary)





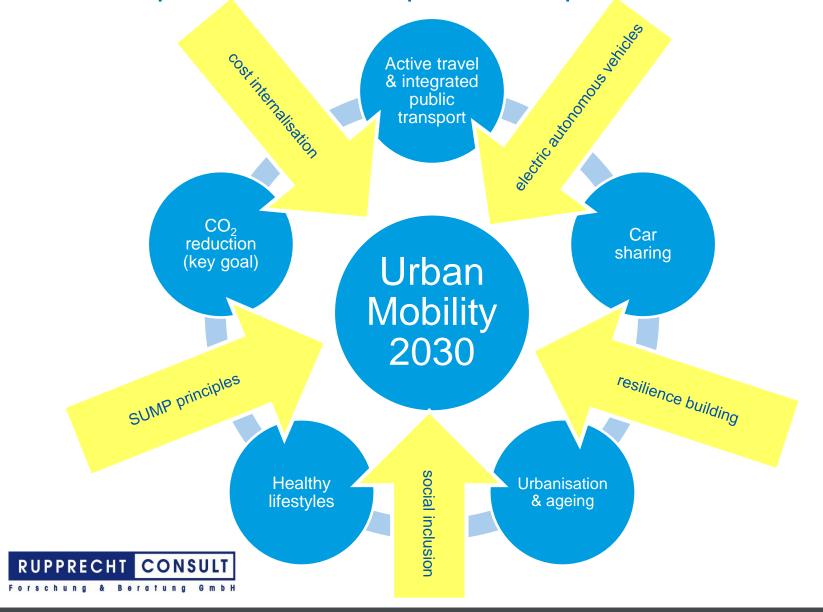
A few personal observations on researching future mobility in Europe.



Some Determinants of Future Mobility in Europe innovation & take up. What we (believe) marker dynamics Signal State of State to know ... Mainstream transport system **Emerging** Policy goals mobility concepts **Future Mobility** policy processes, (institutions, participation) environmental & climate dynamics (Basic) Societal socio-economic development drivers needs & & trends values ... and what we can (mostly) guess! RUPPRECHT CONSULT

Some Determinants of Future Mobility in Europe innovation & take up. What we (believe) marker dynamics Signal State of State to know Mainstream transport system **Emerging** In which Policy goals mobility concepts world do I want my children to policy processes, (institutions, participation) environmental & live? climate dynamics (Basic) Societal socio-economic development needs & drivers & trends values ... and what we can (mostly) guess! RUPPRECHT CONSULT

One example of urban transport development



Some (exemplary) questions

- How much do we really know about the "paradigm shift in mobility and transport"?
- How will evolutionary changes in human mindsets, technological revolutions and disruptive business models interact over time?
 - Is "UBER" the disruptive innovation we were waiting for? Will it substitute (complement) traditional Public Transport?
 - Will people accept fleets of shared automated vehicles as a new mode, will "someone" deliver it – and will it really be "better"?
 - Is (policy supported) cycling and walking the "new black"?
 - Will it take another 20 years to get a single European door-to-door ticket ?
- Since we are so bad at predicting the future, shouldn't we focus more on what we really want, need, can afford and how we might get it?
- Aim for wide understanding of impacts of existing high-level goals, revise/ add to goals, develop very concrete action plans with implementers.
- Could this address more than "only" transport?



www.transforum-project.eu

s.rupprecht@rupprechtconsult.eu

www.rupprecht-consult.eu

Thank you for your attention!



