

Policy insights, insights for sustainability

KULeuven + NTUA

Zurich April 2013

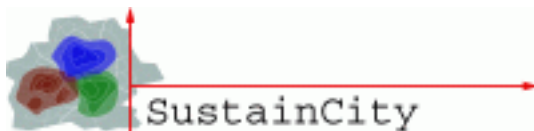


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- Economic definition of sustainability
- Measuring sustainability at the level of a city
- Implementation in UrbanSim (Indicator module)
- Review of potential policies and what we can expect (based on literature review):
 - environmental policies, transport pricing and investment, social policies, land use policies
- Lessons from the Urbansim case studies ? (how detailed?)
- Conclude

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Schedule

- KUL provides SWF and indicator description
done
- NTUA prepares UrbanSim module to compute outputs necessary to evaluate policies
Done
- KUL provides one “test” scenario and what we can expect as outputs (based on literature) to test models
Done
- Test scenario run
??? Case study teams
- Teams perform simulations of other scenarios (3 scenarios agreed in 2012) and produce outputs → checked for consistency by KUL and iteration between Teams and KUL
start jan/feb 2013
- Meeting with case study teams to discuss first results (in Leuven?)
Feb 17/18 2013 in Leuven
- Conference April 2013
- First Results on May 15+ treatment via Indicator module –feedback to case study teams – we integrate feedback results at the latest on May 30
- We deliver D 8.1 June 15 with results we have received May 30

Pricing: road pricing or parking

Paris & Brussels – road pricing

Zürich - parking

Main effects:

- Decrease in congestion
- Modal shift
- Displacement of activity outside the zone where pricing is applied = decentralization if charge only applies to inner-city

Investment: Public transport or new infrastructure (bypass)

Paris: Grand Paris RER (public transport)

Brussels: larger ring road??

Zürich: stadttunnel and new motorways

Main effects:

PT investment

- Increase in use of PT → increase of total traffic volume and decrease in road traffic
- Increase in housing prices (better accessibility)
- delocalization

Bypass

- depends on pricing
with pricing: reduce inner traffic
no pricing: increase in traffic
- decentralization

Land use regulation

- Paris, Brussels & Zürich: densification or polycentricity

Main effects:

- Reduce commuting time (although not clear how strong this effect is)