Appendix II – Poster Graduate Research Day

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Integrated Bicycle Planning

Why cycle?

Cycling is hard to beat in these areas, for that reason many European cities are enhancing their bicycle infrastructure. In the last decade, the sustainable mobility paradigm emerged that does not fight undesired modes of transport, but reduces the need for travel, encourages a modal split, decreases trip lengths and improves efficiency in the transport system.

Therefore, a integrated approach to bicycle planning is needed.

Land-Use Interaction

Planning is a complex process with tailor made solutions. Each city has a complex interplay between different kinds of policies and policy areas, such as land-use planning, public transport, traffic management, economic etc. These policies are interlinked and interdependent; they can be complementing, but they can also neutralize other policies. Some will have desired side effects, while others have unexpected negative effects.

This essence is captured in the Land-Use Transportation Feedback Cycle (Wegener, 2006; Wegener and Land, 1999).

Expected results

The results will provide policymakers with a tool to see what kind of bicycle infrastructure they have in their city and thus, where the strengths and weaknesses are.

Method

Theoretical framework

How do cities reflect the variables of the Land-Use Transportation Feedback Cycle related to bicycle planning, in their policies?

What variables of the Land-Use Transportation Feedback Cycle are related to sustainable mobility, of great importance for integrated bicycle policy?

Four actions to foster Sustainable Mobility

Identified by David Barisier (2006)

1. Make use of technology
2. Regulations
3. Land-use measures
4. Marketing/information

Transport system

This aspect encompasses the physical dimension of the mode and its network (infrastructure), as well as the conditions under which you can use the transport system.

Accessibility

Accessibility is defined as the ability of the transport system and land-use to the ability (potential) for someone to travel to reach or enter a place or activity.

Land-use

Land-use is defined as development restrictions and assigning space for infrastructure effect the transport system.

Activities

Activities are a part of the nature actions that humans undertake. This behavior is influenced by personal characteristics. These aspects affect the mode of transport someone chooses.

Expected results

The results will provide policymakers with a tool to see what kind of bicycle infrastructure they have in their city and thus, where the strengths and weaknesses are.

Access to work

Transport system

Land-use

Activities

Expected results

The results will provide policymakers with a tool to see what kind of bicycle infrastructure they have in their city and thus, where the strengths and weaknesses are.