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Towards a pedestrian Brussels-City Centre

Supervisor: Philippe Bouillard (Philippe.Bouillard@ulb.ac.be)

Working language: English/French

Student profile: Architectural Engineering

Prerequisites/special skills: Mobility, Urban planning

Summary

The idea is to study the possibility of making the Brussels-City Centre totally, or almost totally, pedestrian. The student will have to analyze the mobility studies and make several scenarios, including the solution for the delivery of goods. The master thesis can easily be coupled to a design project.



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Project of a Science Museum in Brussels

Supervisor: Philippe Bouillard (Philippe.Bouillard@ulb.ac.be)

Working language: English/French

Student profile: Architectural Engineering

Summary

Following Ludivine Lecomte's master thesis of this year, who develops several implementation scenarios; this master thesis deals with the interaction between the content of a science museum and the architecture. The student will have to propose and integrate different thematic room into a design project.

Impact of the development of the e-shopping to the urban planning

Supervisor: Philippe Bouillard (Philippe.Bouillard@ulb.ac.be)

Working language: English/French

Student profile: Architectural Engineering

Summary

The growing number of Internet users and the increasing volume of online sales give rise to speculation about how e-shopping will affect shopping centres, hence the urban planning too (1). Since shopping centres differ in terms of their appeal to consumers, we expect the impact of e-shopping on in-store shopping to decrease with increasing attractiveness of the latter. So far, the empirical literature on the impact of e-shopping on in-store shopping has paid scant attention to the implications of e-shopping for shopping centres. First results (2) indicate that city centres are most likely to face the substitution of e-shopping for in-store shopping, followed by city district centres. Surprisingly, village centres are less affected by e-shopping than city centres. Moreover, for neighbourhood and convenience centres the adverse effects of e-shopping are small. The master thesis aims at reviewing the literature to identify the major predictable trends in terms of e-shopping, and their impact of the urban planning. A particular attention will be dedicated to the future of the present shopping area in the city centre, and the possible scenarios of development. The thesis will also address the important issue of the last kilometer (3).

References

1. G. Cliff (2009), "Sustainable transport choices' in consumer shopping: a review of the UK evidence", *International Journal of Consumer Studies* 33:652–658.
2. J. Weltevreden, T. van Rietbergen (2009), 'The implications of e-shopping for in-store shopping at various shopping locations in the Netherlands', *Environment and Planning B: Planning and Design*, 36:279-299
3. M. Xu, B. Ferrand and M. Roberts (2008) 'The last mile of e-commerce – unattended delivery from the consumers and eTailers' perspectives', *International Journal of Electronic Marketing and Retailing*, 2(1):20-38.



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Development of a label for sustainable construction sites

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Working language: English/French

Student profile: Civil Engineering/Architectural Engineering

Summary

Following Remi Genon's master thesis, who analyzes the current practice of the work construction site in Belgium, this master thesis aims at studying the opportunity to develop a work construction sustainable label. The student will have to produce a criticism report on existing labels and, if relevant, propose a new label for the construction sites, in close collaboration with contractor representatives.