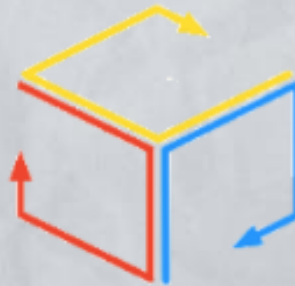


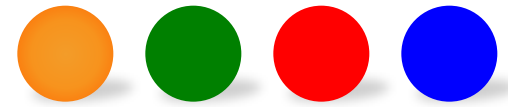
Investigation of concentrated sets of urban delivery points



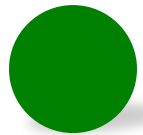
Dr. Krisztián Bóna, PhD
Dávid Lajos Sárdi

Budapest University of Technology and Economics,
Faculty of Transportation Engineering and Vehicle Engineering,
Department of Material Handling and Logistics Systems

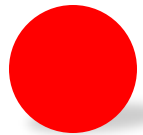
Agenda



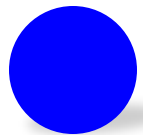
Concentrated sets of urban delivery points



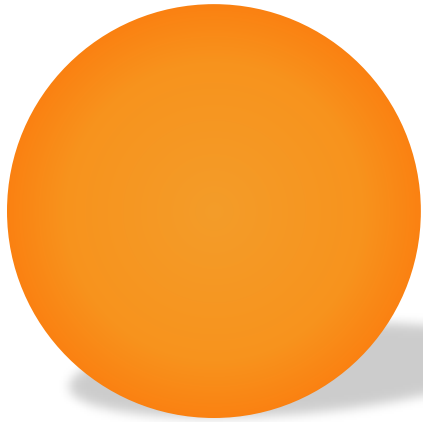
Examined systems



Results of the simulation



Next steps of the project

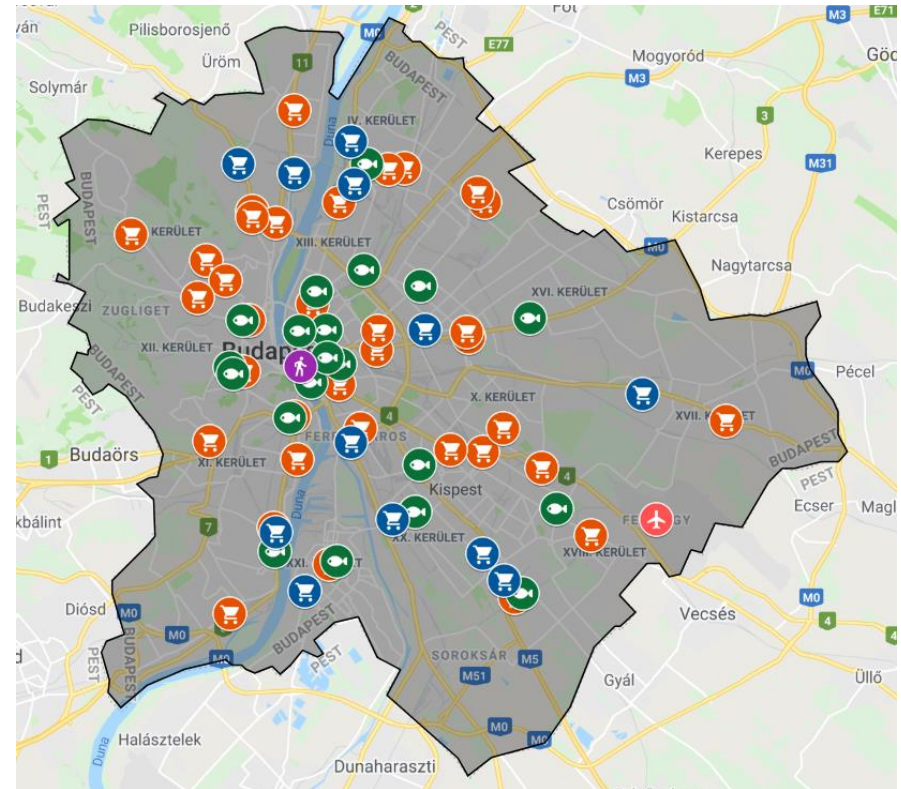
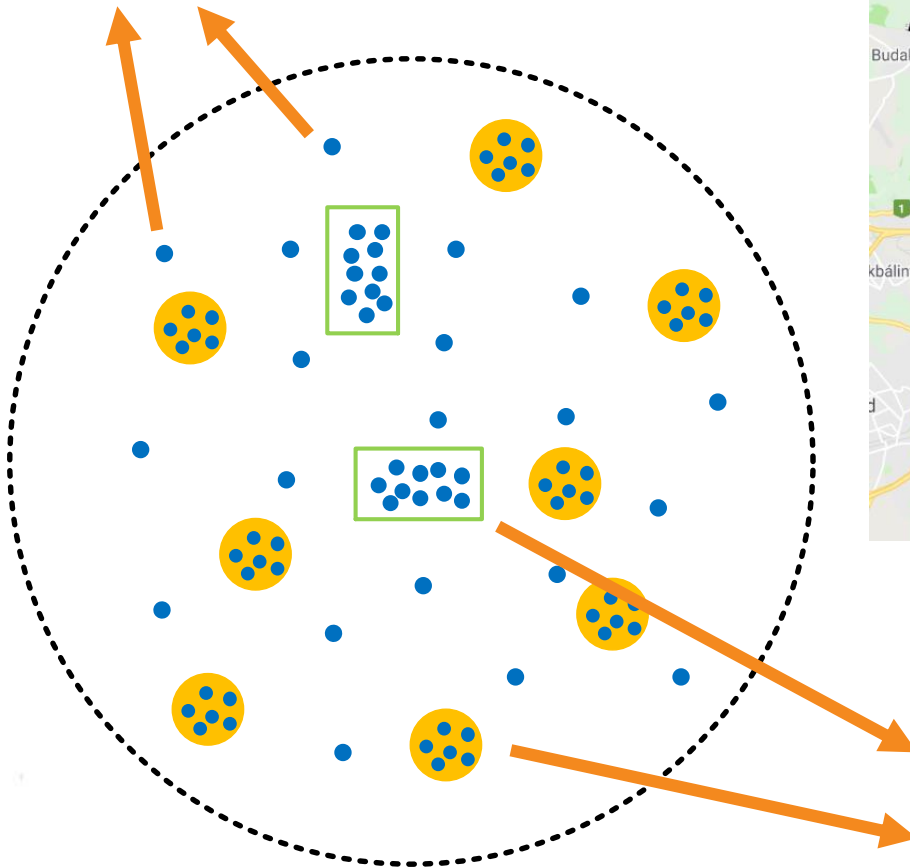


**Concentrated sets of urban
delivery points**

Urban delivery points



Single delivery points

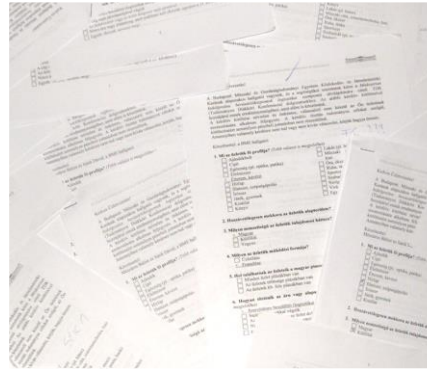
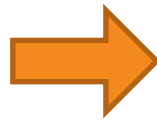


Concentrated sets of delivery points

Research steps



Research & measurement methodology

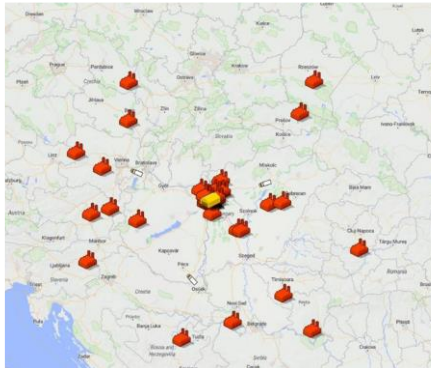


Data collection & data mining

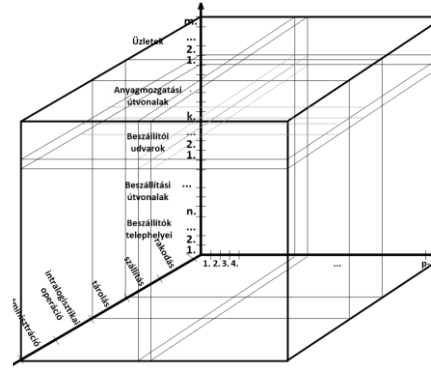


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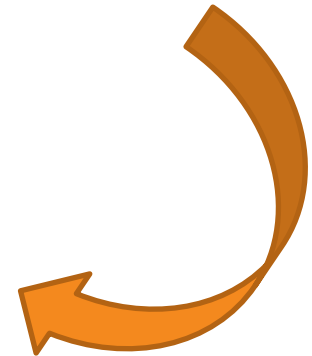
Modelling of logistics processes

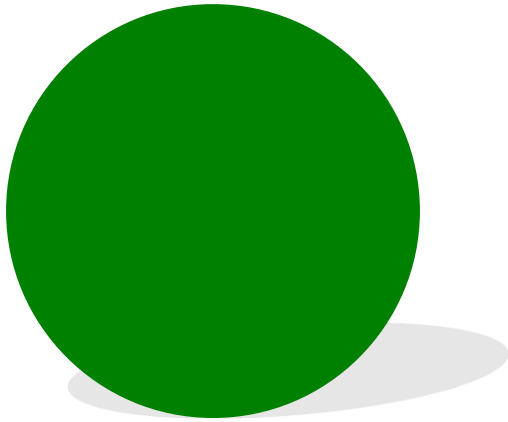


Simulation model



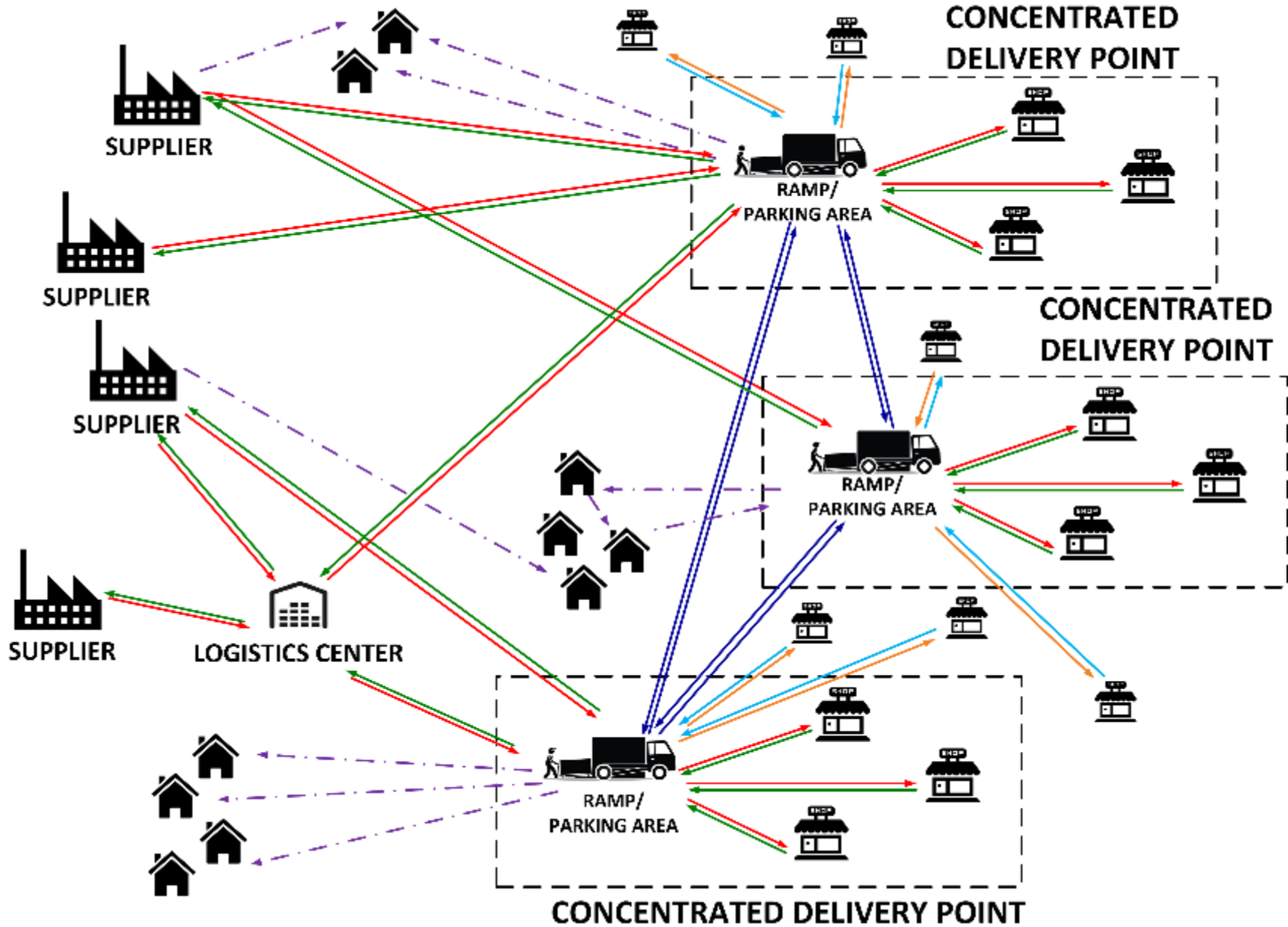
Modelling of cost structure



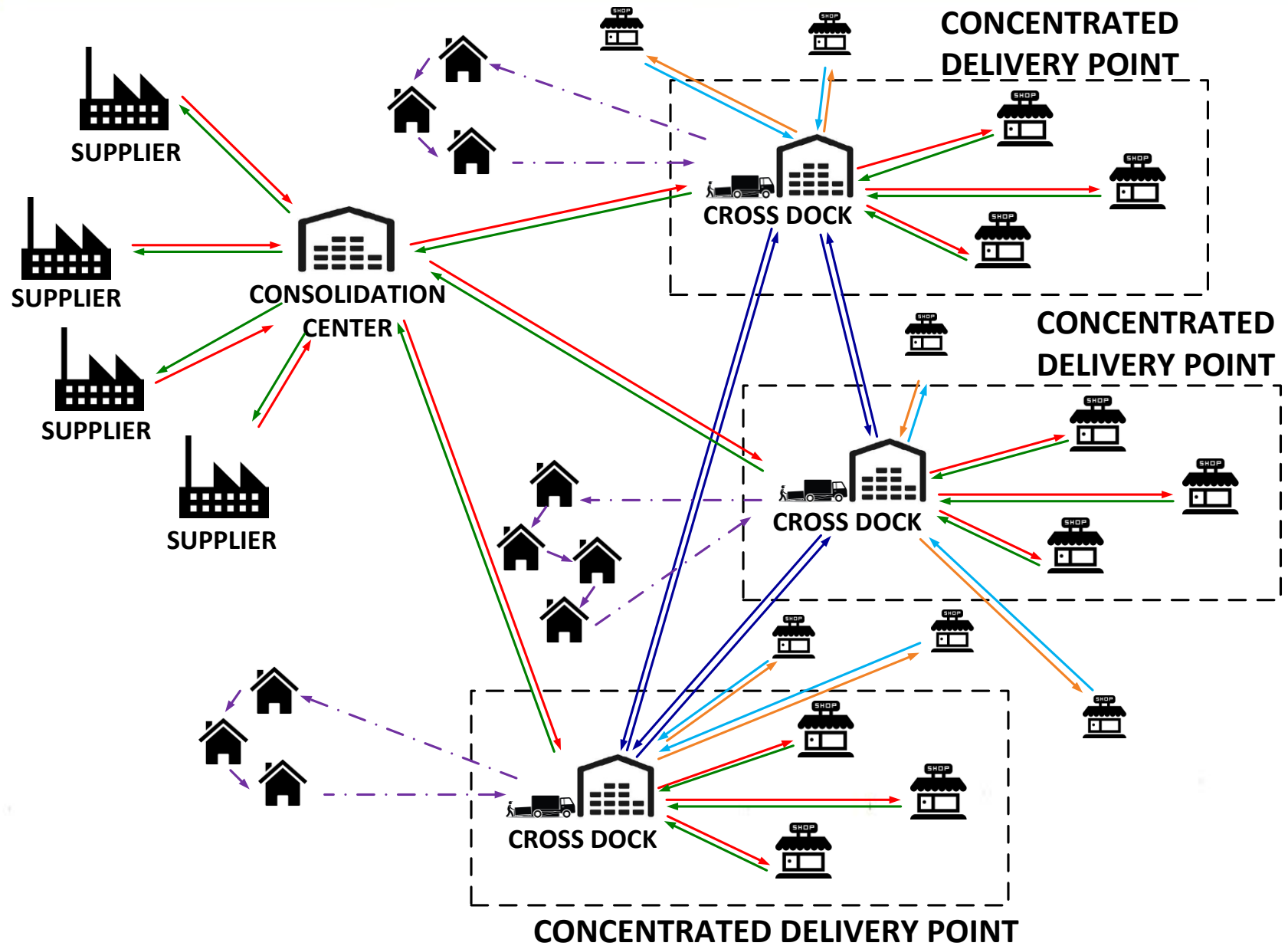


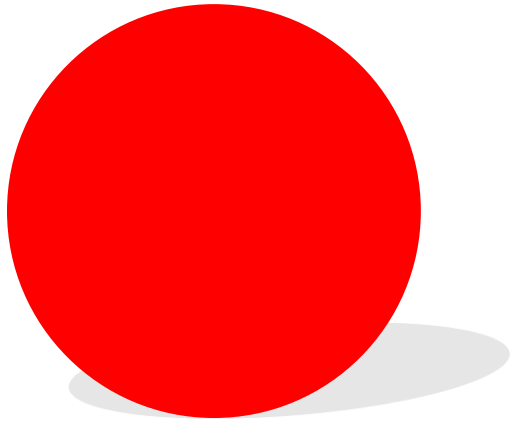
Examined systems

Current system



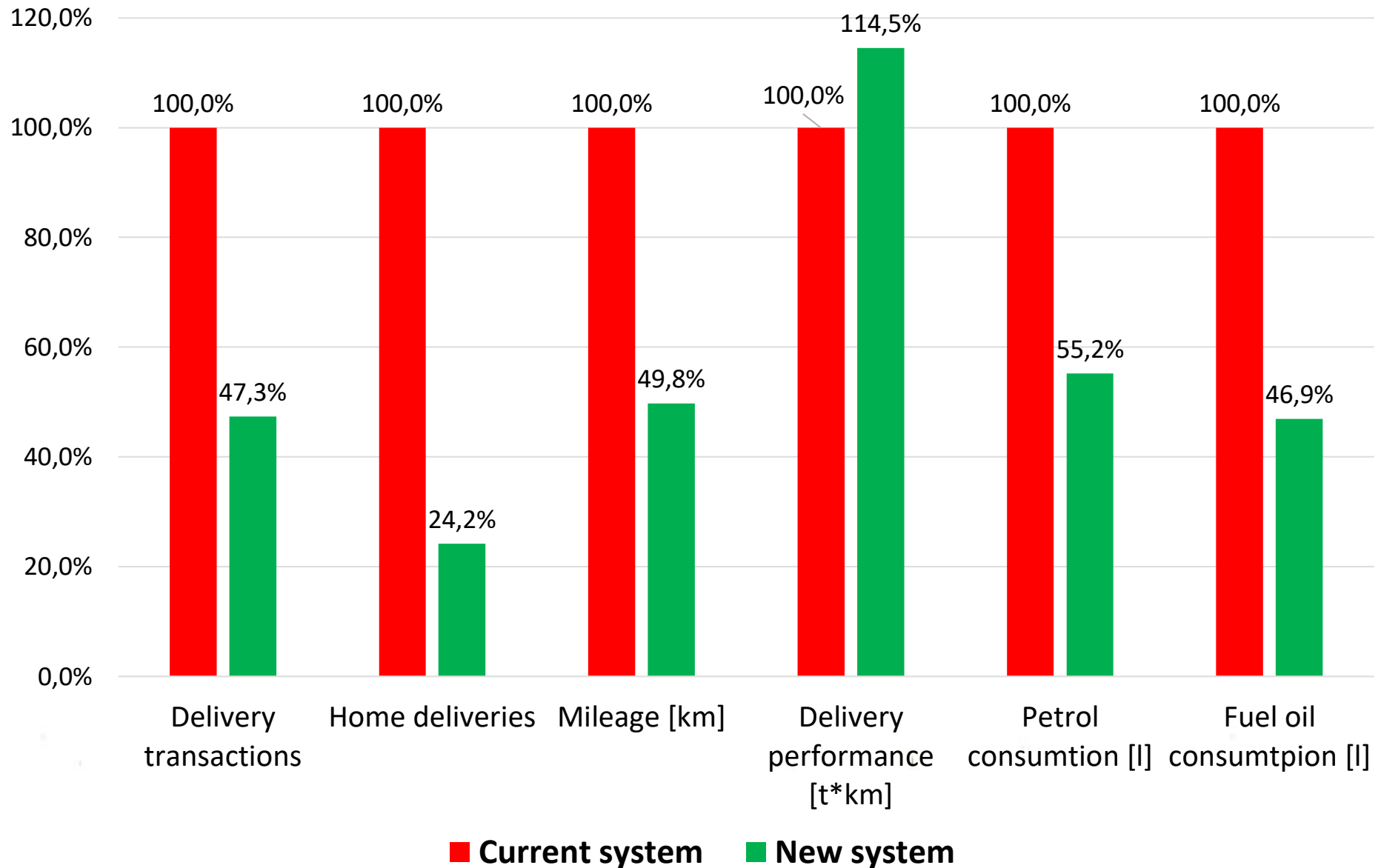
Consolidated system



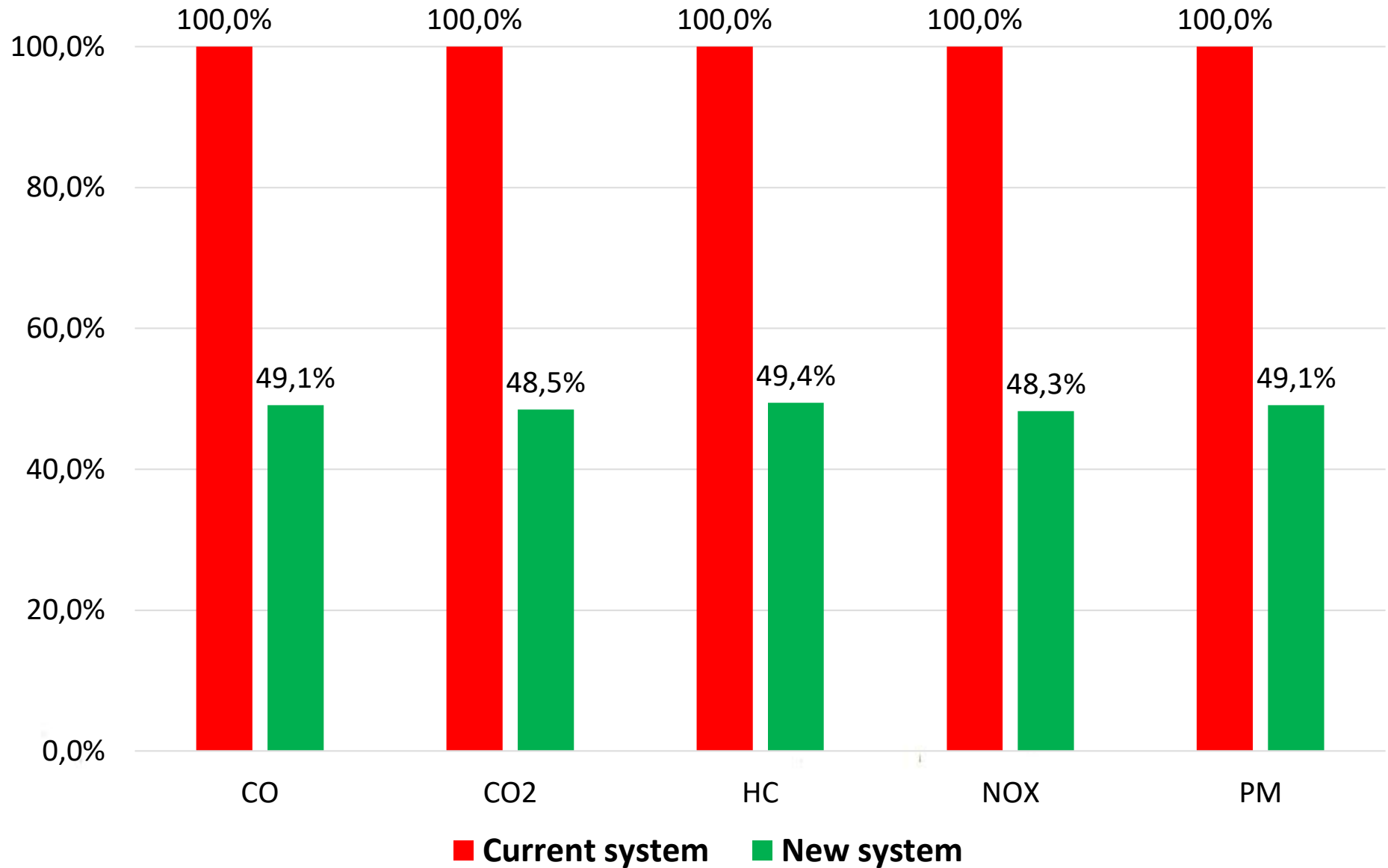
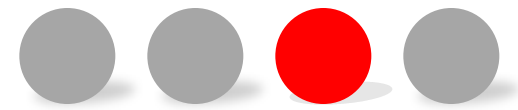


Results of the simulation

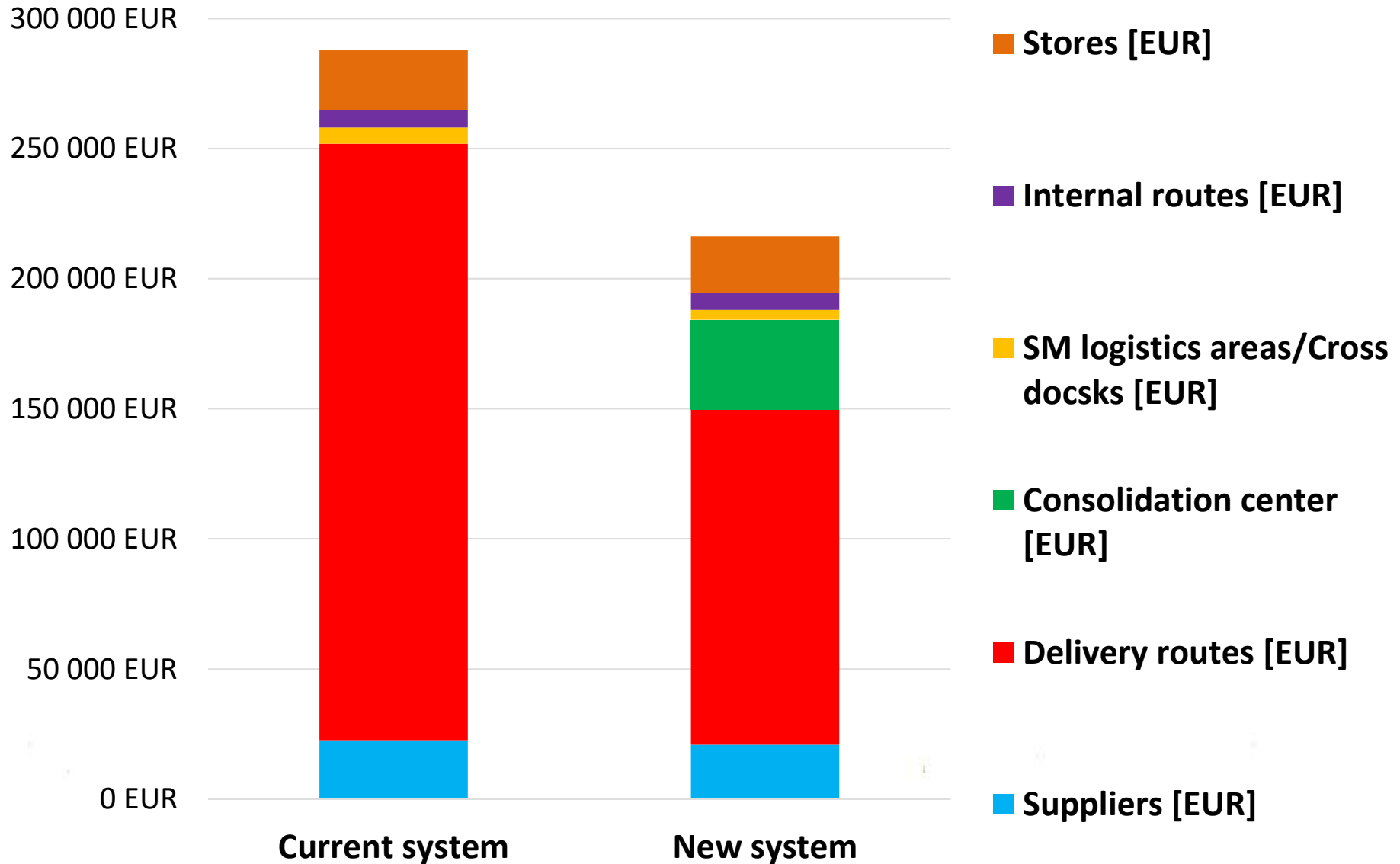
Performances

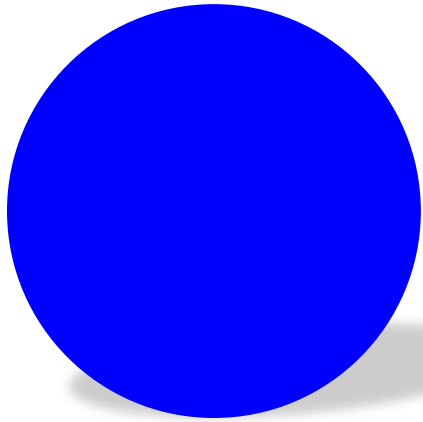


Emissions



Logistics costs





Next steps of the project

Topological modelling



Topological model

Roads

Bus network

Stores

Accommodations

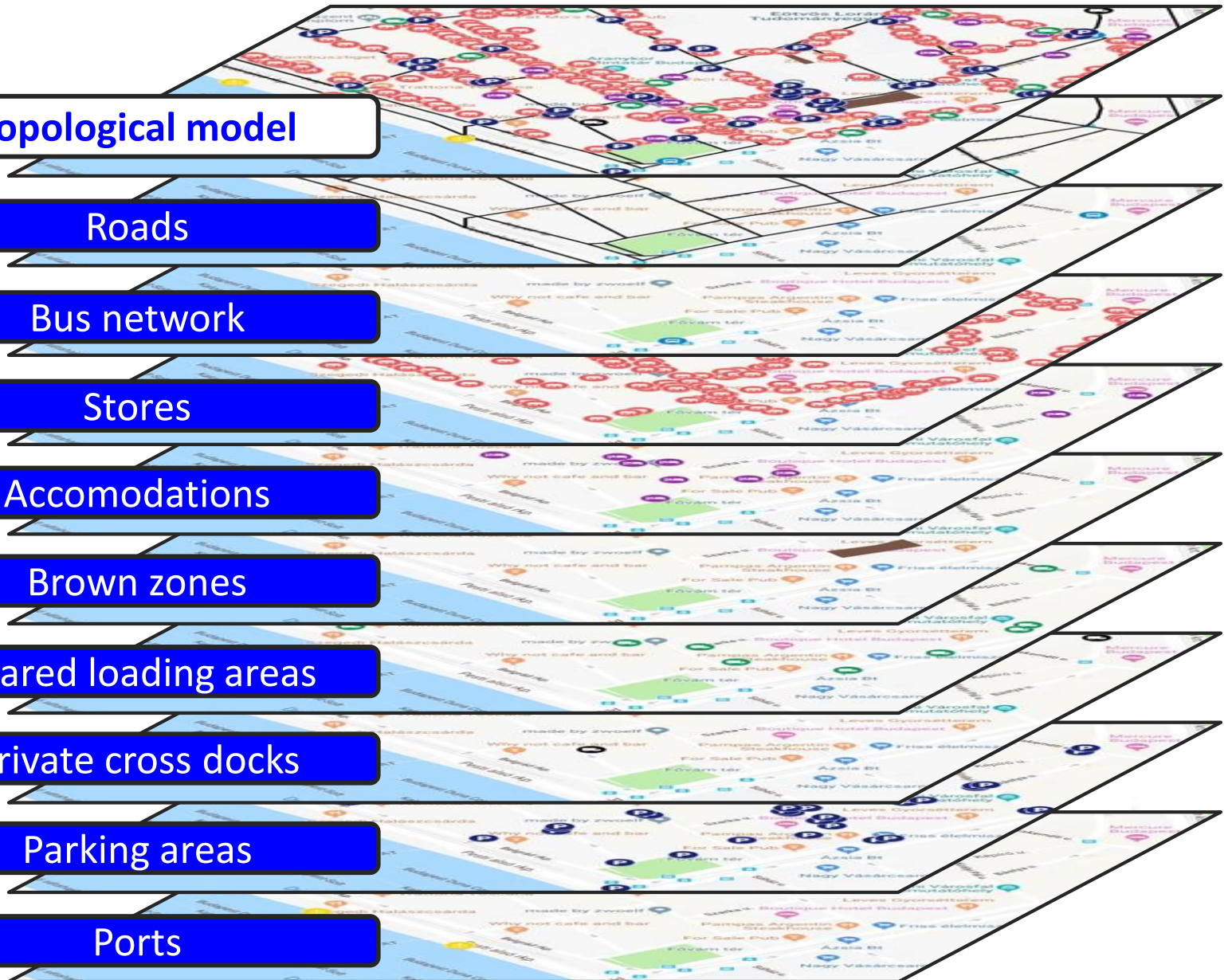
Brown zones

Shared loading areas

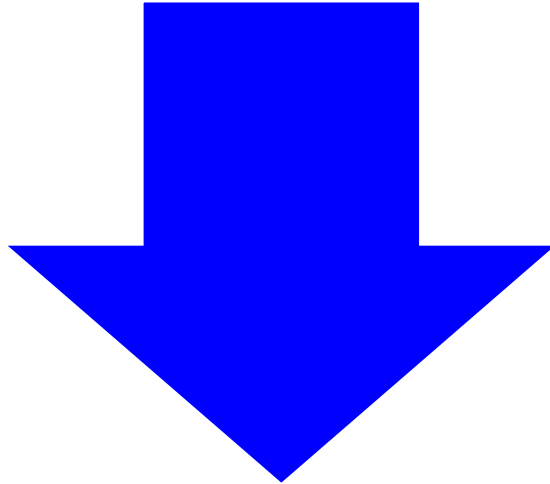
Private cross docks

Parking areas

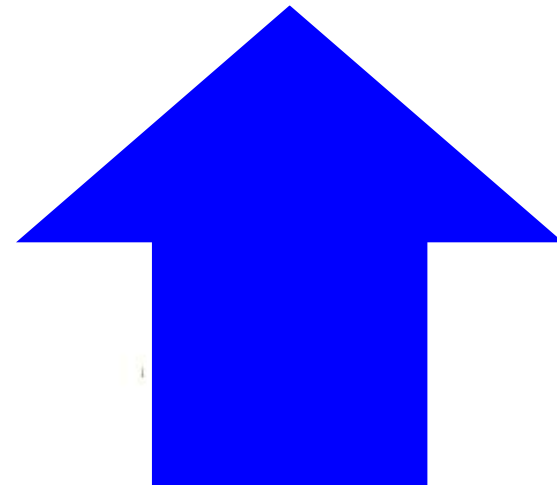
Ports



Sizing the new system elements

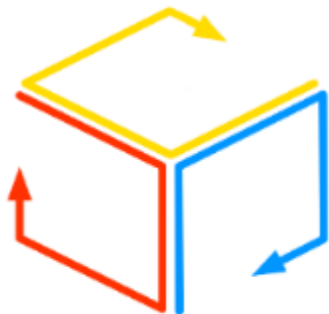
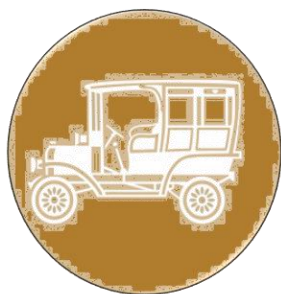


Savings



Investigation of concentrated sets of urban delivery points

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