PROJECT

Modern turbo-roundabouts and their application in the design of transport constructions

Moderní turbo-okružní křižovatky a jejich aplikace v návrhu dopravních staveb

Funding: National (Czech Republic)
Duration: Jan 2013 - Jun 2015
Status: Complete with results

Objectives:

The project deals with the design and safety of a new type of modern roundabouts with high potential for combining safety with high traffic capacity: turbo-roundabouts. The project purpose is to create the design manual for turbo-roundabouts in the Czech Republic, where the controversial aspects of winter maintenance and way markings will be taken into account. For the function and capacity verification of turbo-roundabouts the microscopic simulation will be used.

Parent Programmes:
ALFA - ALFA PROGRAMME

Institute type: Research agency
Institute name: The Technology Agency of the Czech Republic
Funding type: Public (national/regional/local)

Partners:
AF-CITYPLAN s.r.o.

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Key Results:
Methodology on design of turbo-roundabouts
Assessment of turbo-roundabouts in the Czech Republic - analysis of their use, capacity, traffic intensity, functionality, accidentality etc.
Roundabouts vs. traffic light intersections - expert paper
Simulation study of turbo-roundabouts - verified a different type of the turbo-roundabout (than the already used ones) and recommended locations and its use in the Czech Republic
Signage of turbo-roundabouts - expert report

STRIA Roadmaps: Network and traffic management systems, Infrastructure
Transport policies: Safety/Security
Geo-spatial type: Urban