

S·h·L··W!

Show me How Slow

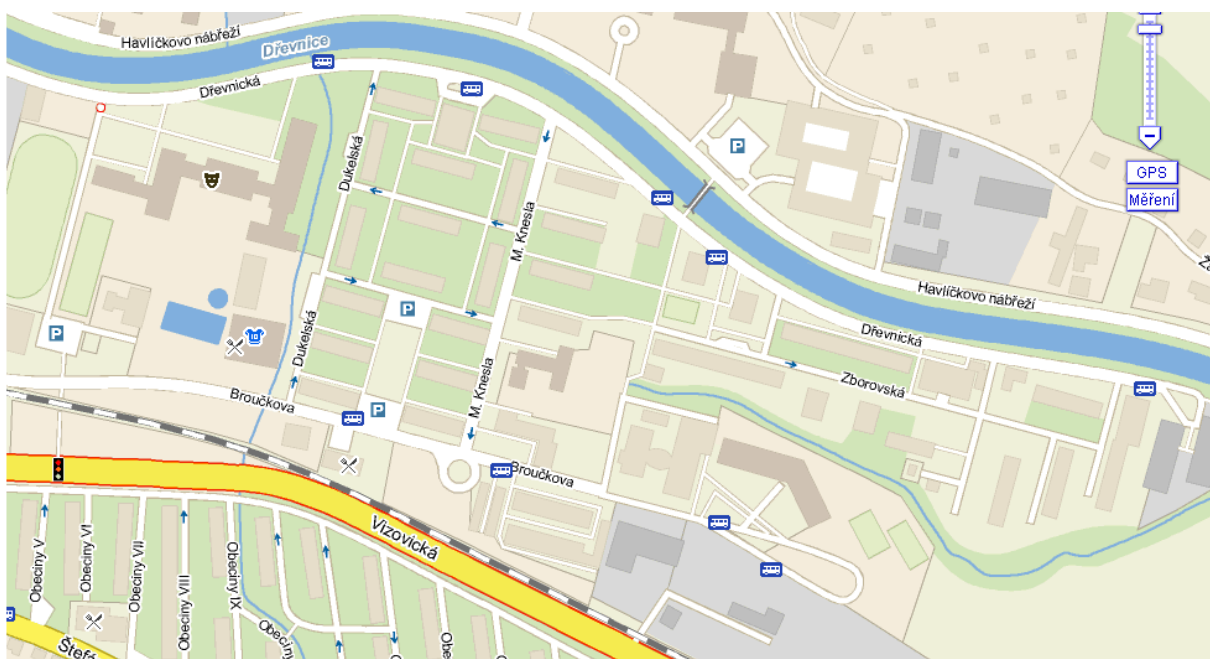
Bartosova ctvrt Zlin



Author: Petr Smilek

Description of area

Bartosova čtvrť is one of the oldest residential areas in Zlín (Zlín is a town with 77 000 inhabitants in south-east part of the Czech Republic). There was a project "Regeneration of Bartosova čtvrť" in Zlín in 2002 and 2003. The traffic was calmed in majority parts of the area. There are used new signs in entrance to the area – 30 km per hour zones, which should emphasize of maximum speed in area and right hand rule on crossroads. The residential area is isolated from other parts of town by natural border, river Dřevnice, from north and the railway from the south. There is an agricultural area on the west from residential. Whole area has a approx. 1000m in E-W direction and 300 m in N-S direction. There are basic school, high medical school, hotel school, summer pool, sport playground, gymnasium and old people's house in Bartosova čtvrť.



You can enter only by two entrance to the residential, on Dřevnická rd.(north) and Broučková rd.(south). The public transport goes on both roads. Trolleybus line on Dřevnická rd. and bus line on Broučková rd. Both lines are ended on turning circle in the very end of residential in the east. Both roads are connected perpendicularly by another roads. These roads are one-way. The entrance on Dřevnická rd. is emphasized just by two traffic signs. One of them is hidden by vegetation in summer time. The entrance on Broučková rd. is realized by bus stop on line with the middle island. The surface in whole area is covered by asphalt, the park places are tiled. There are many changes to better and safer traffic in Bartosova čtvrť in comparison with past. It seems that the good work was performed and the character of residential is different, better.

Black spots

Despite the changes, there are still traffic issues in some part of residential. Specifically, there are the speed issue and issue of respect right hand rule on crossroads. The blackspots are both main roads, Drevnicka rd. and Brouckova rd. These roads are without any resolute changes in infrastructure. The drivers don't respect speed of 30 km per hour, they are not forced to observe maximum speed or they don't know about it. The signs in entrance are insufficient on Drevnicka rd. The wide of both roads are oversized and the roads lure to drive too fast, exactly in places close to basic school. Otherwise, the wide of roads have to respect the public transport lines, the vehicles are wide and it must be possible to pass each other. This fact have to be respected. The sticking point is observing of right hand rule. Many drivers absolutely don't know about it!

Goals

My aim in the project "ShLOW!" is to solve at least partly of described issues. I would like to solve by means of two implements: changing the infrastructure and education of drivers (campaign). As for the infrastructure, I want to focus on the section of Drevnicka rd. outside the basic school, this is my goal. I would like to realize such changes which are undemanding from financial point of view, but the effectiveness should get whole situation better. The second implementation should be an appeal to parents of pupils of local basic school. It should concern the parents which live in Bartosova ctvrt residential area, so it should be their interest in safety of their own children. This appeal will be realized by means of co-operation with school management. It will run a form of CD/DVD campaigning. The parents will get the CD/DVD via their children and school.

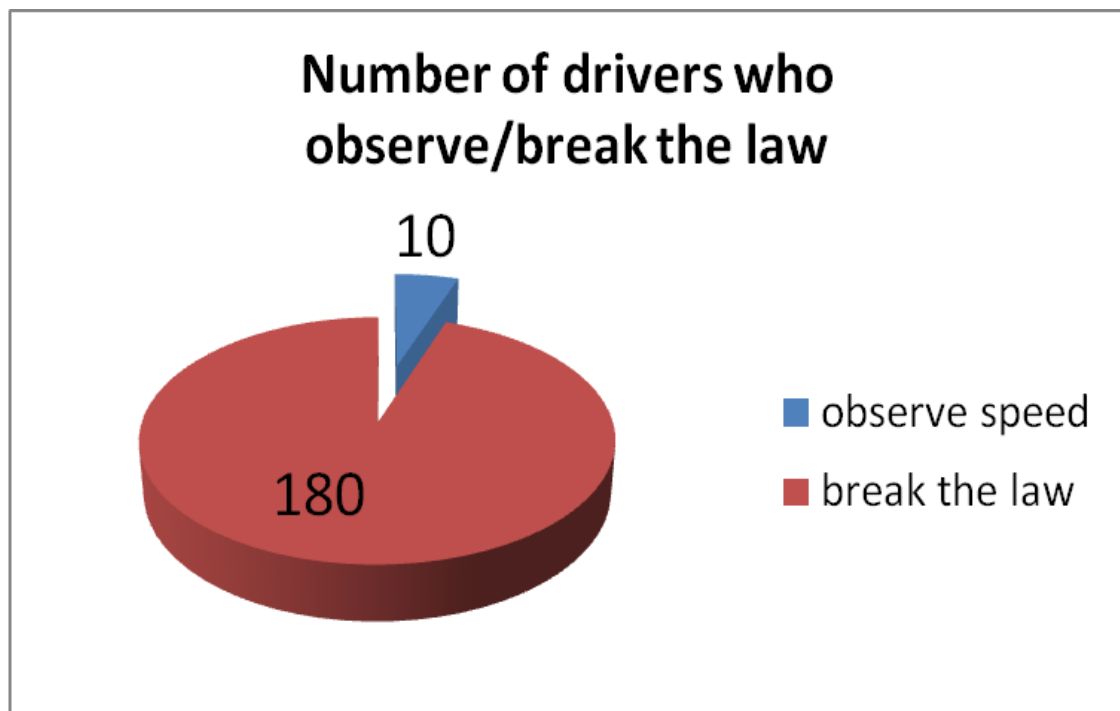
Inspiration

I realized the measurement of keeping the maximum speed on Drevnicka rd. on section close to basic school on 9th September 2009. It was measured speed of 190 accidental cars. The device was two retroreflective sensors which were fixed 2 m from each other (see photos below). The sensors were borrowed from Faculty of Transportation Sciences in Czech Technical University in Prague, from Department of Forensic Experts in Transportation.

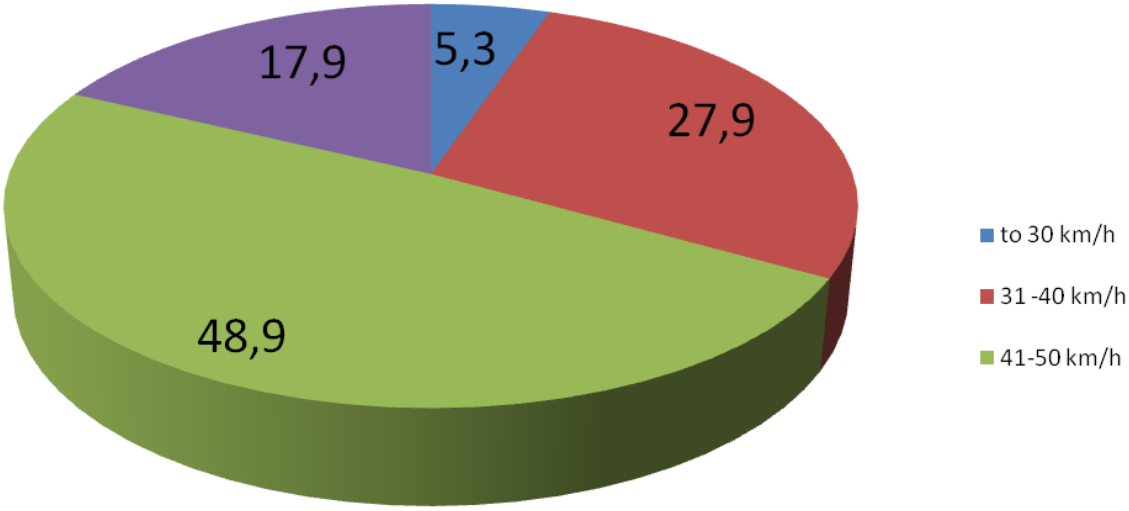




After statistical processing of measured data the results are: Average speed of all measured vehicles was 43.5 km per hour, which is 13.5 km per hour above the speed limit. 85% percentil of speed is $V_{85} = 51$ km per hour. There were only 10 drivers, who didn't break the law and drove 30 km per hour or less. It is only 5.2%!!! The maximum speed, which was measured, was 71,3 km per hour.



Relative share of speeds in %



Appendix: Black spots



entrance to area – Drevnická rd. (background – basic school)



Drevnická rd., children cross the road to bus stop of public transport



Drevnická rd., trolleybus stop close to school, black spot from point of view of right hand rule = time bomb



right hand rule or NOT ??



right hand rule or NOT ??



another blackspot where we have to give a way