Safer To School

Systematical approach

A framework for the Decade

Alert and compliant road users

Safe travel

- Safe schools
- Other specific tools
- Rights of school kids

- Road safety
- School safety
- Right of school kids
Infrastructure and intuitive road design

Credible speeds – intuitive road design

Is this self-explaining road design?
Self-explaining – intuitive road design

Main challenge – how to provide credible information to drivers?

• How to provide Self-explaining roads?
• How to make speed limits credible?
• How to encourage drivers to be more attentive / alert when driving near Schools / Children?
• As we all know „just setting up traffic signs“ does not help improving Road Safety (otherwise Slovenia would be much safer than some of the Nordic countries).
Human Factors in road design


Some cases from abroad (spatial planning / urbanism)
Some cases from abroad (spatial planning / urbanism)
Slovenian approach

Monitoring - evaluation

Hidden speed measurements:
- before
- after
- After/after
- After/after/after

Video monitoring:

Surveys:
- Comprehensibility
  „hidden“ questions if drivers understand the meaning of road redesign and how do they behave/act (also proven by hidden speed measurements)
Results and main indicators
(reducing of speed – no more extreme speeds and more attentive driving)
Road narrowing – color lane
(reducing of speed – no more extreme speeds and more attentive driving)

Speed measurements

AFTER
- $V_{85} = 37 \text{ km/h}$
- $V_{50} = 31 \text{ km/h}$
- $V_{30} = 28 \text{ km/h}$
- $V_{95} = 41 \text{ km/h}$

Reduction of speed for 6 km/h 😊

BEFORE
- $V_{85} = 48 \text{ km/h}$
- $V_{50} = 37 \text{ km/h}$
- $V_{30} = 34 \text{ km/h}$
- $V_{95} = 47 \text{ km/h}$
Results and main indicators
(reducing of speed – no more extreme speeds and more attentive driving)

- We can fairly say that the project is a success and has beneficial results on driver behavior – speed and attention.
- By thoughtful incorporation of Human Factors knowledge in to the road design, we can enhance Road Safety, and at the same time tackle nowadays ever-growing problem on drivers’ Distraction and Fatigue.

Monitoring of effectiveness and changing the Roads Act

(3) Traffic calming measures are technical solutions on the road that, through their design, calm traffic (e.g. tree planting, structural and color treatment of traffic areas, urban equipment).
In order for these measures to be unified and systemically introduced throughout the country, the Directorate of Infrastructure of the Republic of Slovenia started to produce the "Safer to School" guidelines.


and we made an Investment Project Identification Document so that we secured financial resources for the systematical project implementation on state roads (1,500,000 annually – if...).

School transport (Status quo)

(4) When a vehicle that is specially marked for the transport of a group of children and has its safety lights on, because children are getting in or out, is stopped on a directional carriageway, overtaking for vehicles driving on the same directional carriageway is not permitted, vehicle drivers, those driving past on the directional carriageway for driving in the opposite direction must drive at a reduced speed and with special care and, if necessary, stop the vehicle.
School bus stops / waiting areas

Display of passive warning and notification equipment (left) and active warning and notification equipment (right) for marking the school bus stop or waiting areas where schoolchildren wait for school transport
School bus stops / waiting areas

Results of pilot project #BUSko


Challenges...

- Quality of designs / projects
- Quality of execution and products
- Maintenance
- Supervision
- Responsibility (of people involved)
- Systematical approach (other agencies...)

Still to-do...

Children’s drawing of their trip to school

DRIVEN TO SCHOOL

WALKING TO SCHOOL
Thank you for your attention

https://www.linkedin.com/company/varna-%C5%A1olska-pot-safe-way-to-school/

https://www.youtube.com/c/drsi-mzi

https://twitter.com/Safer_to_School