

Road Safety on a Larger European Motorway Network

9th Annual ASECAP Road Safety Conference

Warsaw, Tuesday 8th March 2016



Changing safety problems on the motorways

Ulrich Zorin, M.Sc.

DARS d.d.

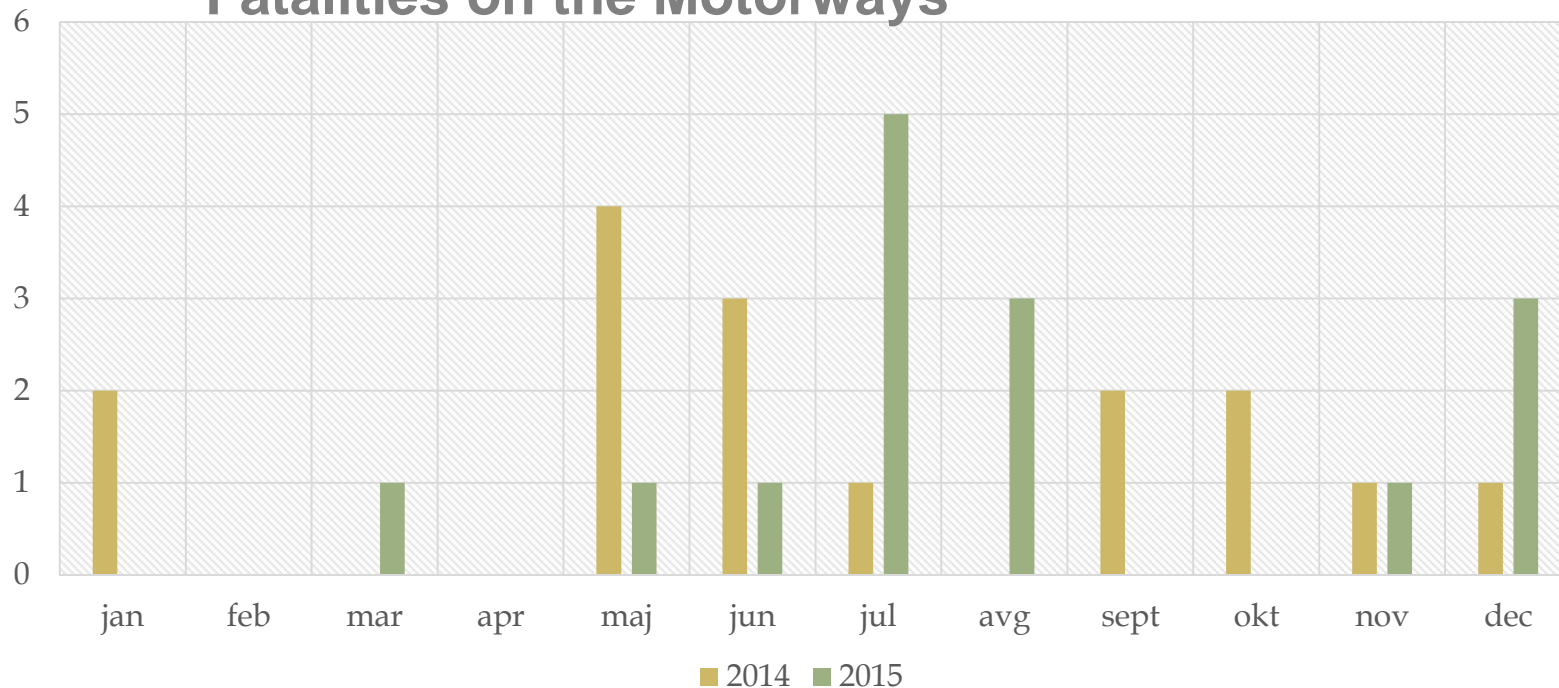
Motorway Company in the Republic of Slovenia

CONTENT

- ❑ NUMBERS, STATISTICS
 - ❑ MAIN PROBLEMS LAST FEW YEARS
 - ❑ MEASURES
 - ❑ CONCLUSION
- 

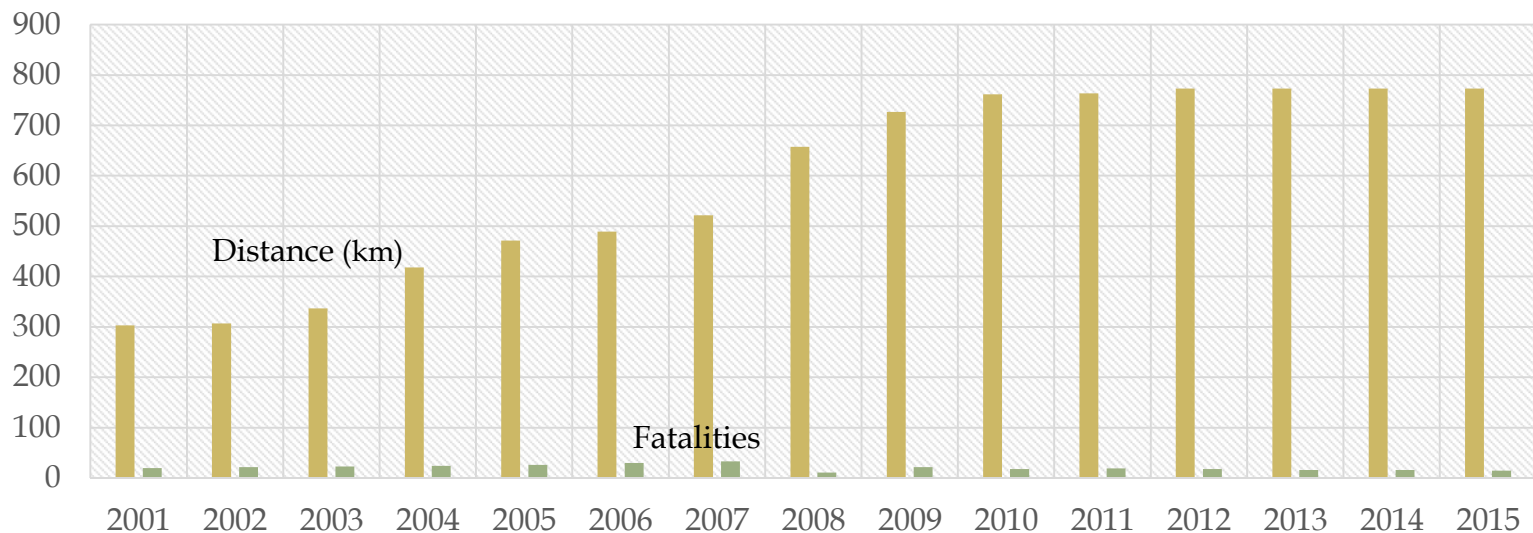
Traffic safety on SLO Motorways 2014/15

Fatalities on the Motorways

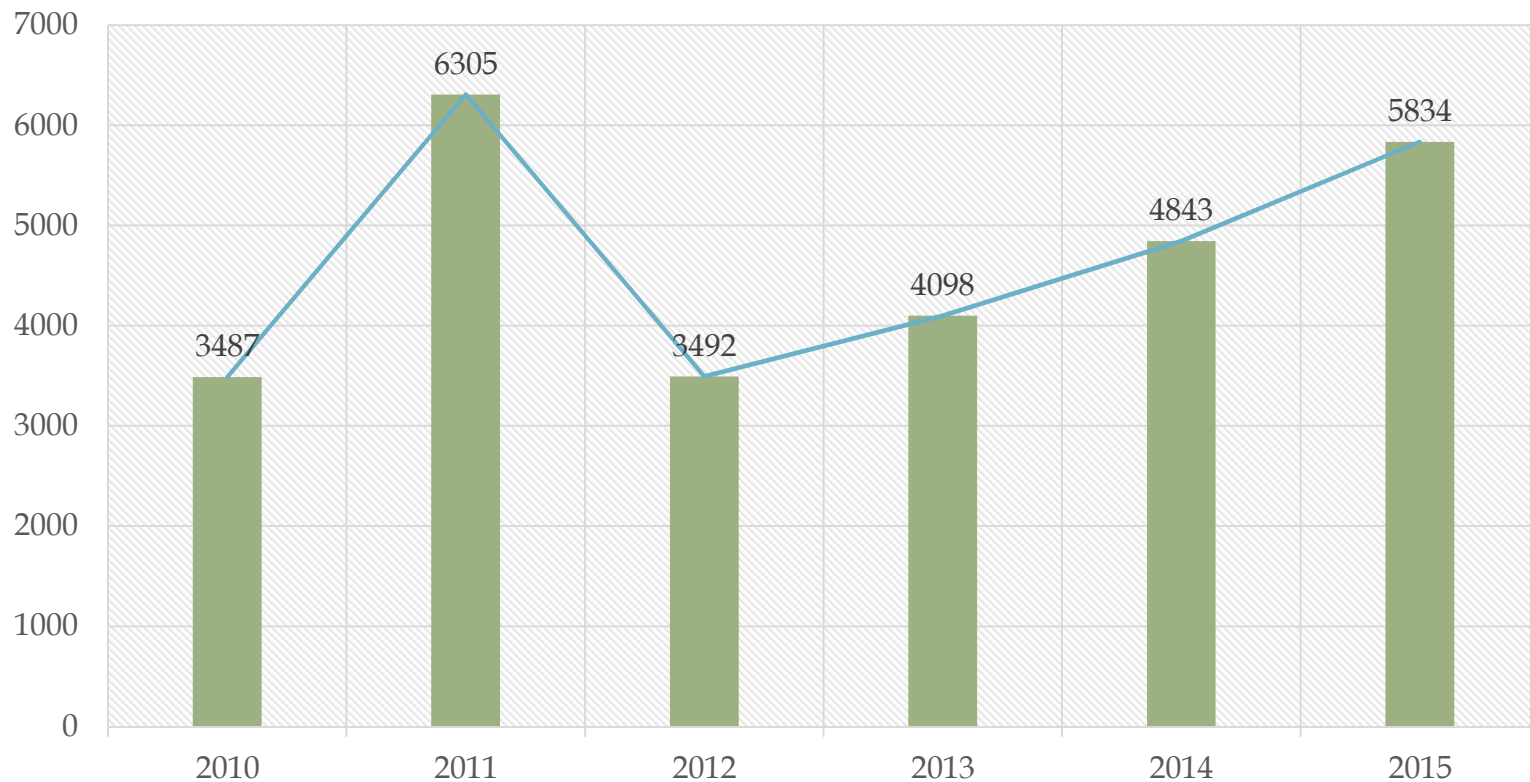


YEAR	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
DISTANCE km	303,3	307,1	336,8	417,7	471,6	489,4	521,5	657,6	726,5	761,7	763,5	772,9	772,9	772,9	777
DEATHS	20	22	23	24	26	30	33	11	22	18	19	18	16	16	15

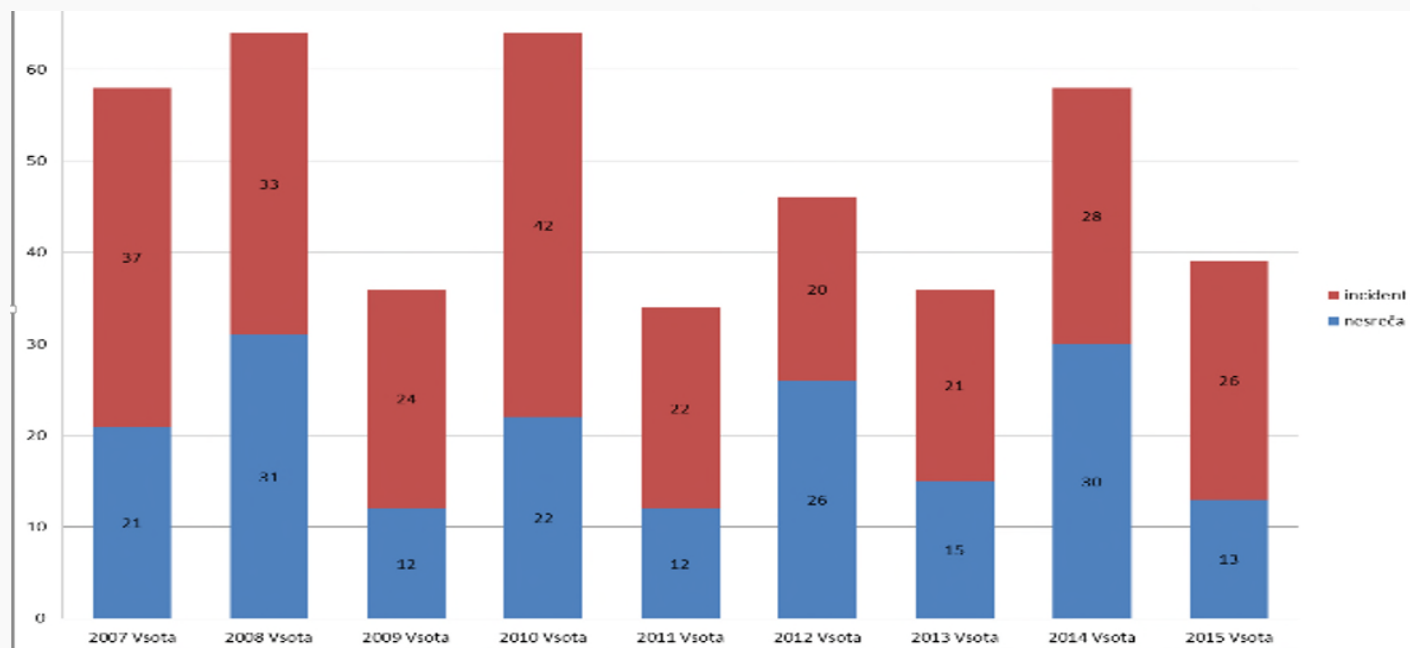
Fatalities vs distance (km)



No. of incidents over the years



Incidents/accidents in the Tunnels



Changing safety problems on the motorways

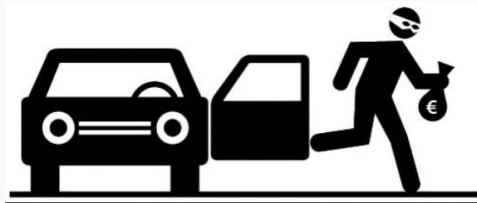
- 2010: Crashes in tunnel lay-bys
- 2011: Crashes in the maintenance vehicles
- 2012: Problems of the emergency vehicles corridor
- 2013: Pedestrians on motorways
- 2014: Problems of the emergency vehicles corridor
- 2015: Drivers from Eastern European countries
 - Overloaded Trucks; drivers are tired; also drunk drivers!
 - Overloaded vans (also with passengers)
 - ignoring of the rules of the safe driving
- 2016: ?
- All the years: **WRONG WAY DRIVERS**



Crashes in tunnel lay-bys

- By 2010: 12 road deaths
- After installing of absorbers : 0 road deaths

Criminality at rest areas



Freight transport

- Main problem: safety distance
 - Overloaded trucks
 - Irregular overtaking
 - Speed
 - Tired drivers
 - etc.

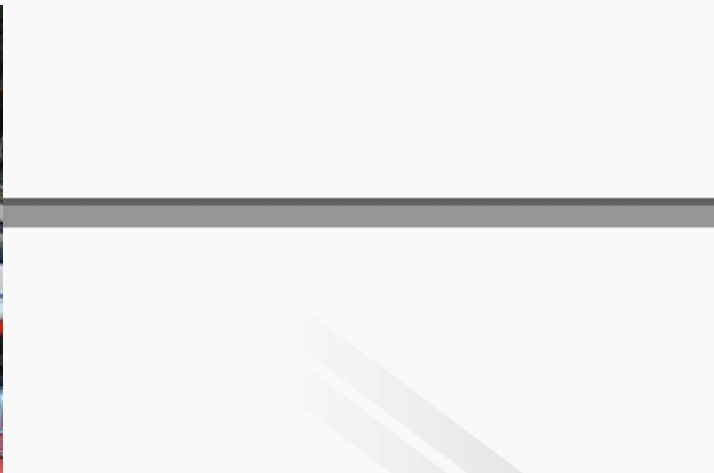






Lost trailer....





Blue LED for distance warning



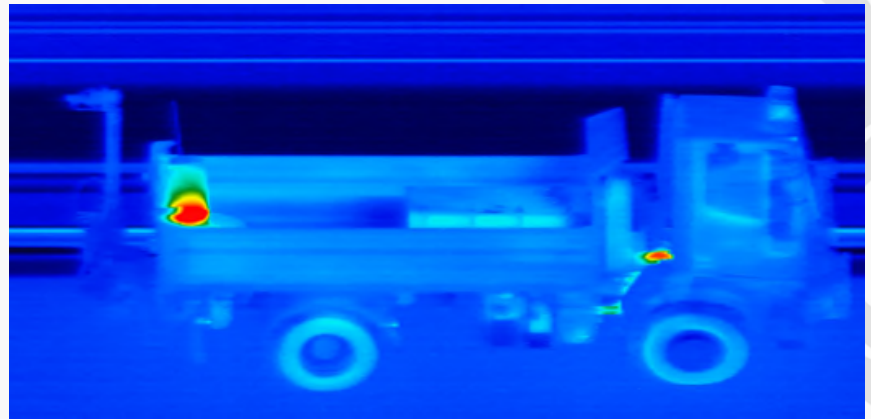
**DARS**



SLO	vožim tovorno vozilo = upoštevam varnostno razdaljo
GB	i drive a truck = i respect the safety distance
IT	guido un camion = rispetto la distanza di sicurezza
H	tehergép-kocsit vezetek = betartom a biztonságos követési távolságot
CRO	vožim teretno vozilo = poštujem sigurnosnu udaljenost
RUS	водители грузовых автомобилей обязаны соблюдать безопасную дистанцию
PL	jeżdżę ciężarówką = zachowuję bezpieczną odległość
RO	conduc un camion = respect distanța de siguranță
BG	управлявам камион = спазвам безопасна дистанция
SK	riadiť nákladné vozidlo = dodržiavam bezpečnostnú vzdialenosť

THERMAL TRUCK SCAN

Karawanken Tunnel



Problematic drivers from Eastern European countries





Fog!!

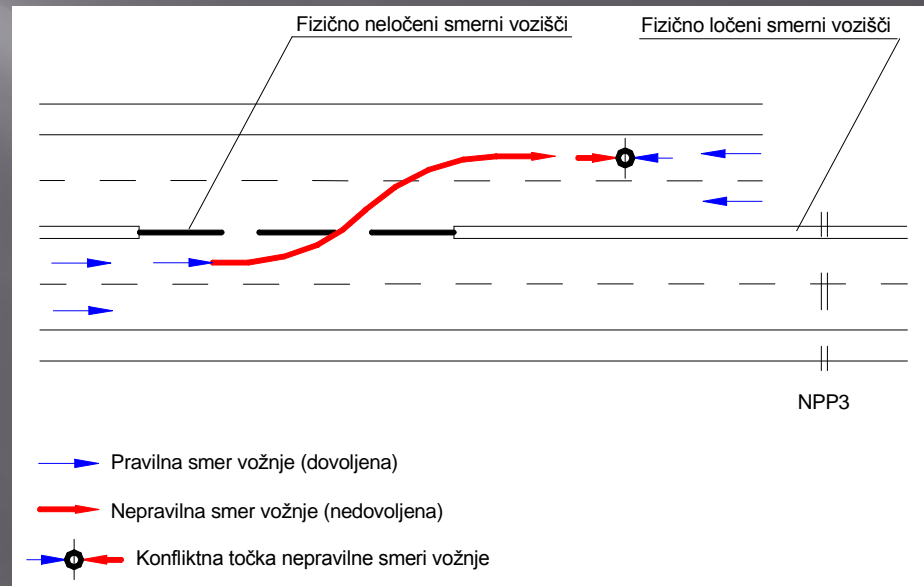
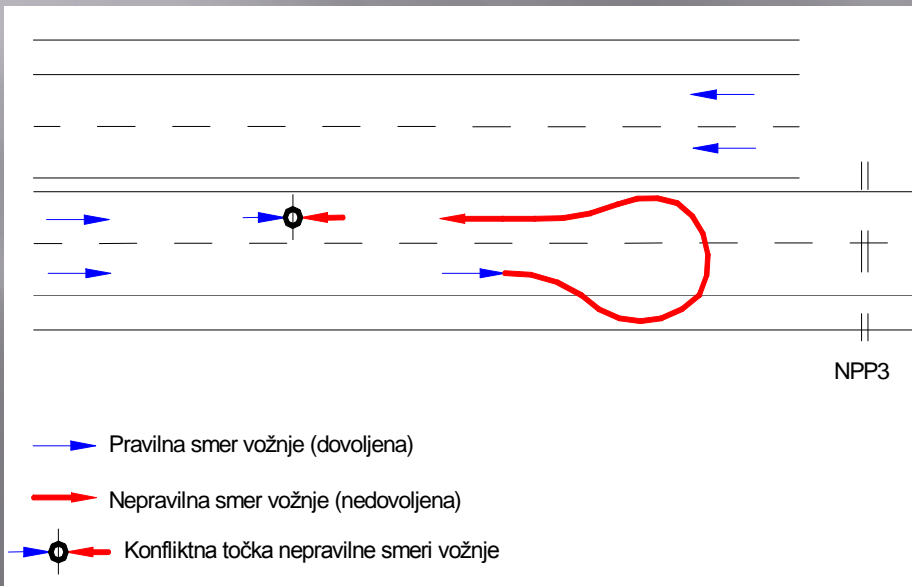
Weather is changing
dramatically through the years!

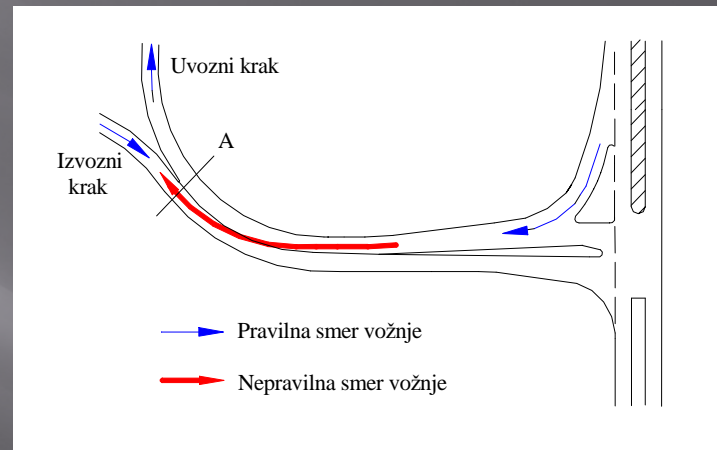
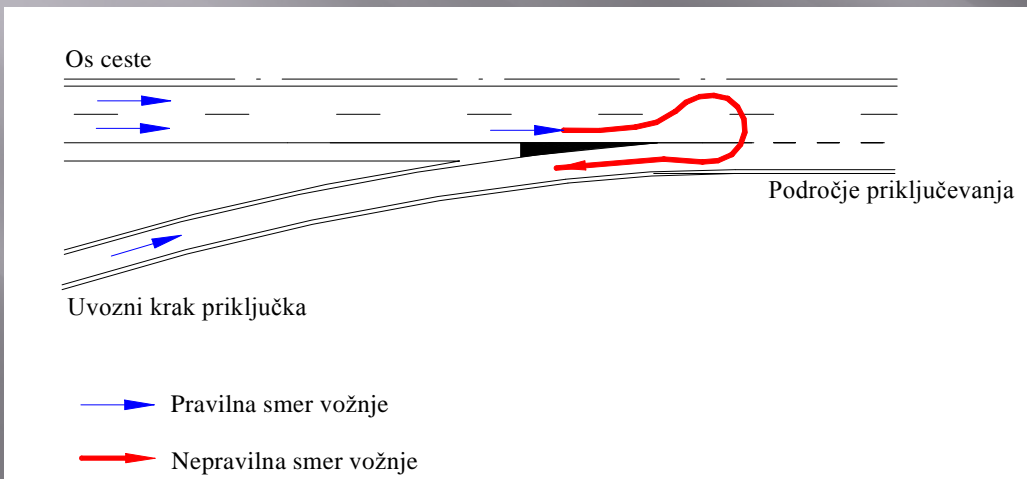
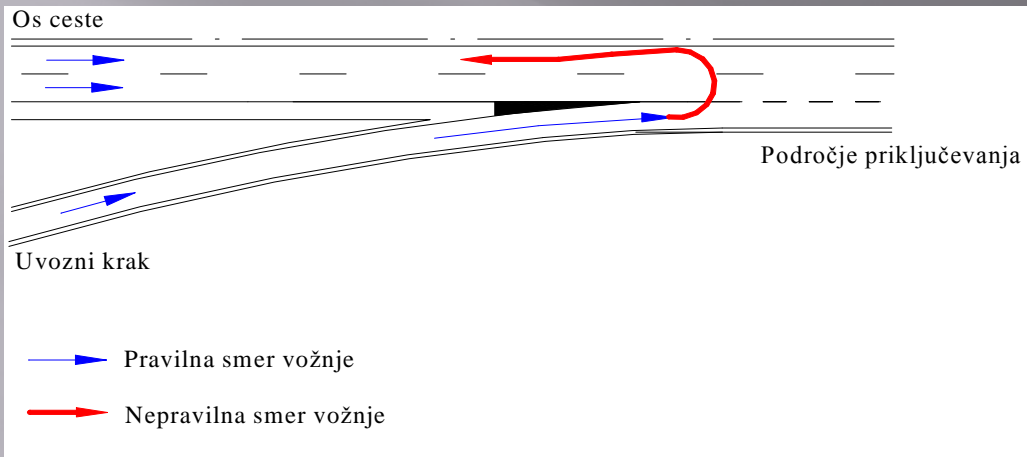


WRONG WAY DRIVERS

STUDY 2015

Main problem zones on the motorways:

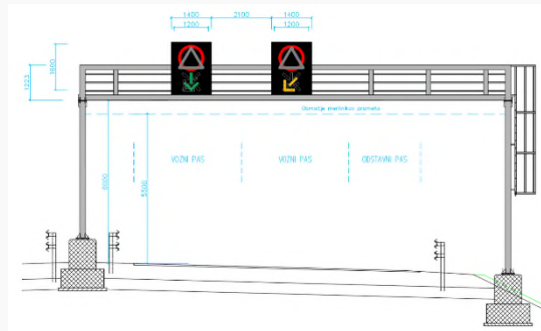




WRONG WAY DRIVERS

MEASURES:

- New detection systems (loops)
- New warning systems: DARS APP, VMS, RADIO, RDS-TMC
- Traffic Signalization Optimizig
- Workshops with associations of retired people



PREVENTIVE ACTION – EMERGENCY LANE: SAVE A LIFE

28 panels on road overpasses



EMERGENCY LANE DURING CONGESTION

SAVE A LIFE

Consider the appropriate positioning of vehicles on the motorway in cases of congestion.

up to 40%
more chances of survival

With the appropriate positioning of vehicles which are not involved in an accident on a motorway, we allow emergency vehicles faster access to the injured, which increases their chances of survival by 40%.



Posters at the resting place and along the motorway...



CHANGES ARE VISIBLE, BUT NOT SATISFACTORY !



A2/E70 Ljubljana - Obrežje, odsek Peč - Višnja Gora, pogled proti Ljubljani



A2/E70 Ljubljana - Pluska, odsek Peč - Višnja Gora, pogled proti Novemu mestu

Information folder, preventive movies



EMERGENCY LANE DURING CONGESTION

SAVE A LIFE
Consider the appropriate positioning of vehicles on the motorway in cases of congestion.

REŠI ŽIVLJENJE

up to 40% more chances of survival

With the appropriate positioning of vehicles which are not involved in an accident on a motorway, we allow emergency vehicles faster access to the injured, which increases their chances of survival by 40%.

If vehicles ahead begin to stop on the road, the **positioning of vehicles GREATLY IMPACTS** help to the injured in cases of accident. Therefore, consider the appropriate positioning of vehicles when congestion occurs.

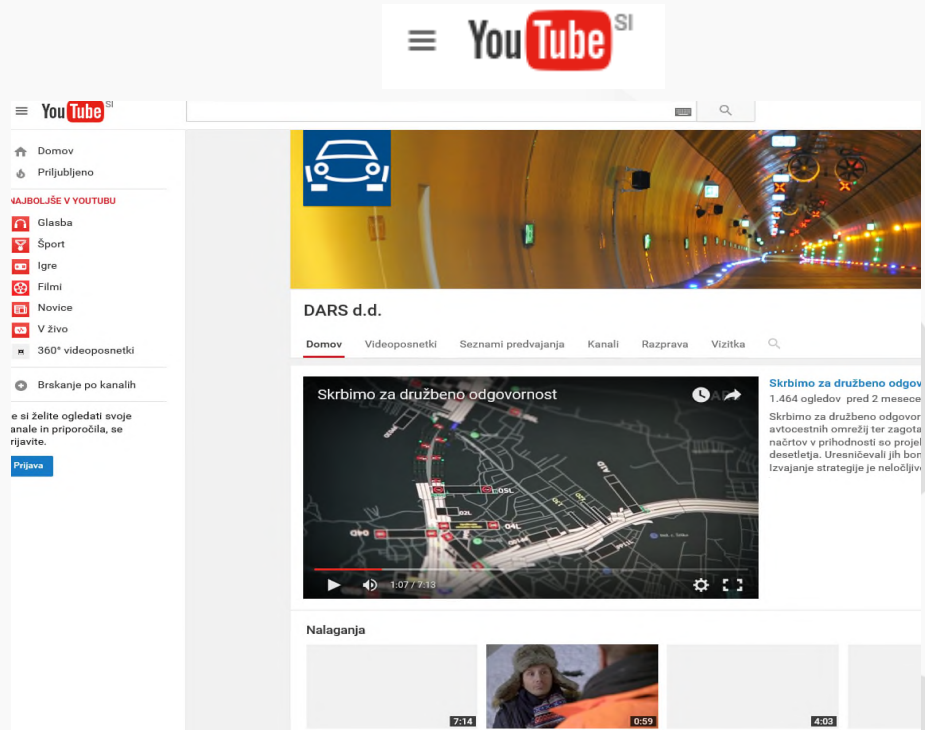
When congestion occurs...
Enough space for emergency vehicles must be left between the lines of vehicles in the fast and driving lanes. Emergency vehicles are equipped with blue or yellow lights (rescue service, fire fighters, police, regular maintenance operator, inspection services, etc.).

Vehicles in the driving lane must move to the extreme right and vehicles in the fast lane must move to the extreme left.

Fine
Inappropriate positioning of vehicles during congestion on a motorway or expressway is subject to a fine of EUR 200.

www.dars.si

DARS



YouTube SI

Domov
Prijubljeno

VAJBOLJŠE V YOUTUBU

- Glasba
- Šport
- Igre
- Filmi
- Novice
- V živo
- 360° videoposnetki

Brskanje po kanalih

e si želite ogledati svoje analize in priporočila, se prijavite.

[Prijava](#)

DARS d.d.

Domov Videoposnetki Seznami predvajanja Kanali Razprava Vizitka

Skrbimo za družbeno odgovornost

Skrbimo za družbeno odgovor
1.464 ogledov pred 2 mesece
Skrbimo za družbeno odgovor avtocestnih omrežij ter zagota načrtov v prihodnosti so projel desetletja. Uresničevali jih bor Izvajanje strategije je neločljivo

Nalaganja

- 7:14
- 0:59
- 4:03



1



2



3



4

Ko se na avtocesti pokvari vozilo:



YOU ARE NOT SAFE IN THE MOTORWAY EMERGENCY LANE

Follow the safety advice!

- Driving in the motorway emergency lane is prohibited!
- Overtaking in the emergency lane is prohibited!
- Pay attention to your safety and the safety of your passengers.

**Follow the appropriate steps when
in the emergency lane!**

 Tweet to Družba za avtoceste



DARS

15.5K FOLLOWING 100 FOLLOWERS 1,236 LIKES 30

Družba za avtoceste
@dars_sl

Služba
DARS
Joined June 2013

[Tweet to Družba za avtoceste](#)

Tweets Tweets & replies Photos & videos


 **Družba za avtoceste** (@dars_sl) Feb 19
Kako pripraviti vozilo na zimo? #varno #strpno #prevodno v zimskih razmerah. bit.ly/1mweKFZ

JE LAHKO V ZIMSKIH RAZMERAH

 Vozimo pametno   Uli Domov Poišči prijatelje




 **Vozimo pametno**
Izobraževanje

Časovnica O strani Fotografije YouTube Več ▾  Všeč mi je  Sporočilo 

 Search for posts on this Page

 31.101 osebam je to všeč
Robert Stumpf in drugi prijatelji (44)

 Povabi prijatelje, da všečkajo to stran

VEČ O >

 [Povprašaj po naslovu strani Vozimo pametno](#)

 Vse informacije o stanju na cestah dobite na telef...

 <http://www.promet.si/>

APLIKACIJE

 **YOUTUBE TAB** YouTube

 **Vozimo pametno**
19. februar ob 8:59 · 

[PROMETNA NAPOVED] V nedeljo se zaključujejo enotedenske zimske šolske počitnice zahodnega dela Slovenije, za vzhodni del pa se šele začnajo. Zato v tem delu države v času počitnic lahko pričakujete manj prometa ob jutranjih in popoldanskih konicah kot običajno, medtem ko se bodo v zahodnem delu dnevne prometne konice znova okrepile! <http://bit.ly/1SVFMoR>




2015/16: fully upgraded tunnels

Directive [2004/54/EC](#)



CONCLUSION

- ❑ **FOCUS ON THE TRUCK DRIVERS**
- ❑ **CONTINUING THE PROJECTS FOR PREVENTION OF THE WRONG WAY DRIVERS**
- ❑ **CONTINUATION OF ITS PROJECTS**
- ❑ **STARTING WITH THE SECTION CONTROL – IN COOPERATION WITH THE POLICE**

Thank you for your attention.

Ulrich Zorin, M.Sc.

uzorin@dars.si

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