2nd Working Group 1 Meeting Institutional Coordination and Data Systems Knowledge Exchange Workshop March 5th, 2018 – tentative

March 5th, 2018 – *tentative* Tbilisi, Georgia

Key challenges in establishing a well-developed road safety database. Importance of effective partnerships and stakeholder coordination

Dr Dragoslav Kukić

International Crash Data Specialist and Road Safety Specialist



Institutions and organizations includes in road safety data system - National road safety database

Ministry of Internal Affairs - Traffic police

State road agency/Local roads agencies

Road Traffic Safety Agency

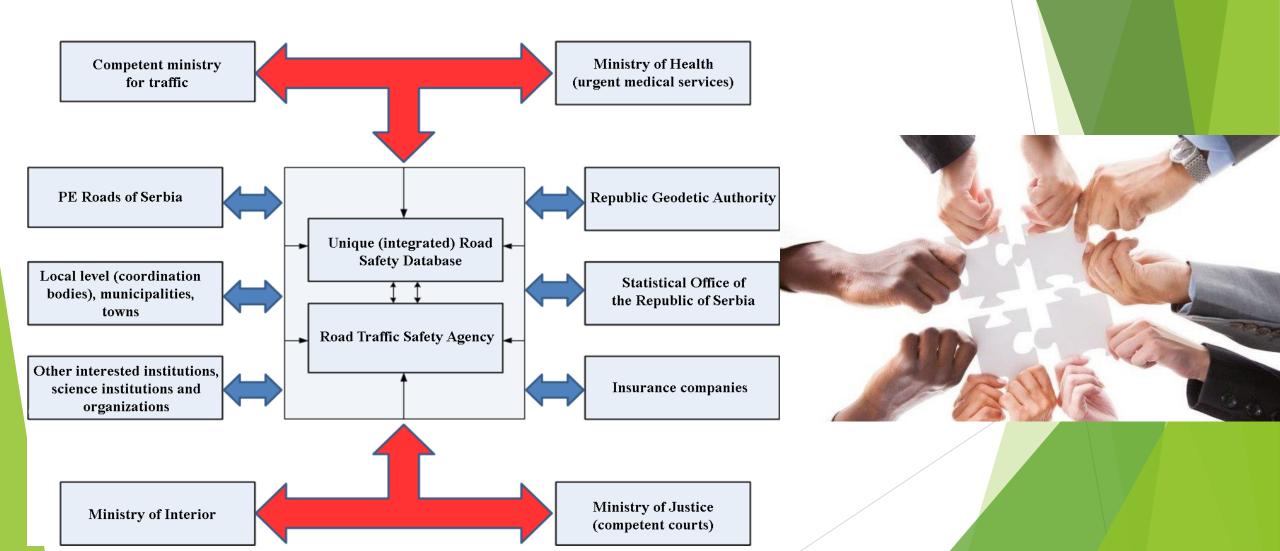
Shared responsibility - Different data sources - One joint State road COLLECTOR agency

ROAD SAFETY

AGENCY???

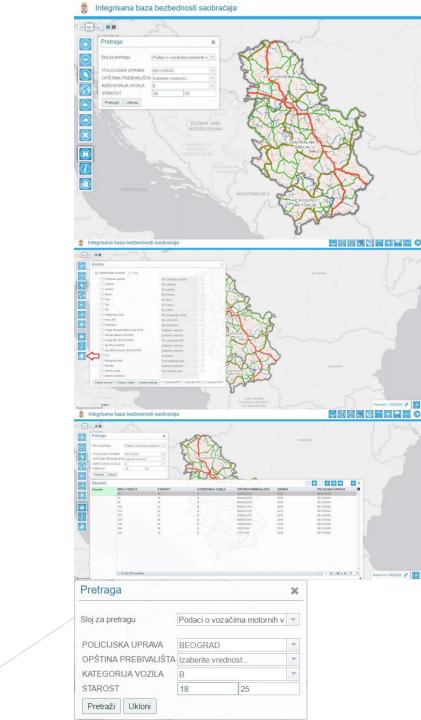
Ministry in charge for Transport

COORDINATION WITH OTHER STAKEHOLDERS - ESPECIALLY IN SHARING THE ROAD SAFETY DATA



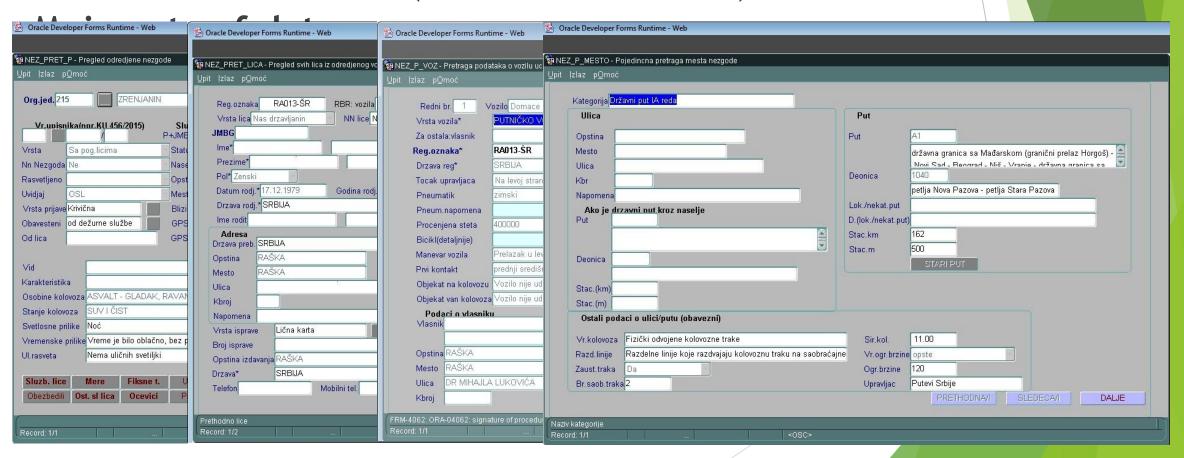
Ministry of Internal Affairs - **Traffic** police

- ▶ Road accident data!!!
- ▶ Data about traffic fines!!!
- ▶ Set of data on motor vehicle drivers???
- ► Set of data on registered motor vehicles???
- Set of data on driving training centers driving schools???
- Set of data on technical inspection stations for motor vehicles???



Ministry of internal affairs - Traffic Police Example 1 - Structure of road accident data

Road accidents data (ORACLE database)



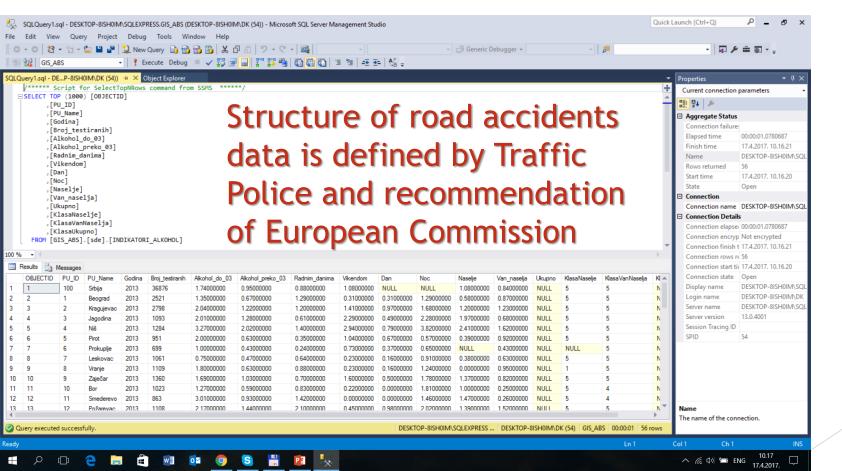
Ministry of internal affairs Example - Structure of road accident data

Road accidents database - ORACLE database - export to txt files

2016_INEZ	Notepau			B //
File Edit Fo	ormat View Help			
1115628	325-1/2016	2016 Sa povr.l. Da Ne Verifikovana	02.01.2016,10:40 02.01.2016,11:30 02.01.2016,12:30 02.01.2016,11:25	SUBOTA
115629	325-2/2016	2016 Samo m.steta Ne Verifikovana	02.01.2016,08:40 02.01.2016,08:55 02.01.2016,09:30 02.01.2016,08:45	SUBOTA
1115630	325-3/2016	2016 Samo m.steta Ne Verifikovana	04.01.2016,13:15 04.01.2016,13:25 04.01.2016,14:50 04.01.2016,13:20	PONEDELJAK
115631	608-1/2016	2016 Samo m.steta Ne Verifikovana	01.01.2016,00:25 01.01.2016,00:30 01.01.2016,01:20 01.01.2016,00:25	ETAK
1115643	704-1/2016	2016 Sa povr.l. Ne Verifikovana	01.01.2016,04:15 01.01.2016,04:35 01.01.2016,05:10 01.01.2016,04:25	ETAK
1115645	601-1/2016	2016 Sa povr.l. Ne Verifikovana	01.01.2016,03:40 01.01.2016,05:30 01.01.2016,06:45 01.01.2016,03:50	\K
1115646	950-1/2016	2016 Samo m.steta Ne Verifikovana	01.01.2016,00:05 01.01.2016,00:20 01.01.2016,00:30 01.01.2016	y
1115647	208-1/2016	2016 Samo m.steta Da Ne Verifikovana	01.01.2016,01:15 01.01.2016,01:25 01.01.2016,03:00 01	
1115648	239-1/2016	2016 Sa povr.l. Ne Verifikovana	13.01.2016,02:30 13.01.2016,02:45 13.01.2016.04	
1115649	604-1/2016	2016 Samo m.steta Da Da Verifikovana	01.01.2016,02:30 01.01.2016,03:30 01.01	
1115651	201-1/2016	2016 Sa povr.l. Ne Verifikovana	01.01.2016,04:00 01.01.2016,04:37	pr+
1115654	143-1/2016	2016 Samo m.steta Ne	05.01.2016,07:15 05.01.20	
1115655	229-1/2016	2016 Sa povr.l. Ne Verifikovana	21.01.2016.12:35 27	
1115657	282-1/2016	2016 Sa povr.l. Ne Verifikovana	02.01.2016,08:40 02.01.2016,08:55 02.01.2016,09:30 02.01.2016,08:45 04.01.2016,13:15 04.01.2016,08:45 04.01.2016,13:15 04.01.2016,08:45 04.01.2016,00:25 01.01.2016,00:25 01.01.2016,00:30 01.01.2016,01:20 01.01.2016,00:25 01.01.2016,03:30 01.01.2016,03:30 01.01.2016,03:30 01.01.2016,03:30 01.01.2016,03:30 01.01.2016,03:50 01.01.2016,03:30 01.01.2016,03:20 01.01.	
1115658	550-1/2016	2016 Samo m. steta Ne Verifikovana	01 01	
115659	282-2/2016	2016 Samo m.steta Da Da Verifikovar	201.0°	- LAK
1115660	222-1/2016	2016 Samo m.steta Ne Veris	CONTINUE 20,031-	-
1115661	282-3/2016	2016 Samo m.steta Da r	370	
115662	234-1/2016	2016 Sa povr 1	194:40	
1115664	281-1/2016	2016 °-	VI.2017	
1115665	601-2/2016	~mu.	0.5	
1115666	601-3/201	11KOV2		NEDELJA
1115668	626-1/2	Vo-	46	PETAK
1115675	144-4/26	Leta Mr	01.5	PETAK
1115681	144-1/20.	y povr	V. 16	PETAK
1115684	144-2/201	2016	10,0"	NEDELJA
1115685	143-2/2016	a rrich	11,87	NEDELJA
1115689	144-3/2016	- val •	19510	PETAK
1115695	851-1/2016	7 10	.v4.20°	SREDA
115696	144-5/2016	+۹۱۶،		SUBOTA
115701	143-3/2016	Jam'	, i35 03.01.2016.10:25	NEDELJA
1115703	144-7/2016	30	v1 z016.11:05 01.01.2016.09:30	PETAK
115704	750-1/2016	-nuVar	01.01.2016.08:45 01.01.2016.07:45	PETAK
1115708	620-1/2016	van:	, p. 97:50 91.01.2016.98:00 91.01.2016.97:20	PETAK
1115710	219-1/2016	Ne A	J01.2016,12:40 01.01.2016,15:30 01.01.2016,12:30	PETAK
1115711	144-9/2016	2 m e -	,10:30 01.01.2016,11:50 01.01.2016,12:20 01.01.2016,11:30	PETAK
115713	281-2/2016	2616	.01.2016,14:10 01.01.2016,15:10 01.01.2016,15:55 01.01.2016,14:45	PETAK
115715	201-2/2016	2016	01.01.2016,13:00 01.01.2016,13:35 01.01.2016,15:30 01.01.2016,13:15	PETAK
115718	144-6/2016	2016	2,22:21 2,2016,22:40 2,2016,22:40 2,2016,11:05 03.01.2016,10:25 2,01.01.2016,08:45 01.01.2016,07:45 2,101.2016,12:40 01.01.2016,08:00 01.01.2016,07:20 2,101.2016,12:40 01.01.2016,15:30 01.01.2016,12:30 2,10:30 01.01.2016,11:50 01.01.2016,15:30 01.01.2016,12:30 2,10:30 01.01.2016,15:10 01.01.2016,15:55 01.01.2016,14:45 01.01.2016,13:00 01.01.2016,13:35 01.01.2016,15:30 01.01.2016,13:15 13.01.2016,07:45 13.01.2016,09:15 13.01.2016,09:50 13.01.2016,08:45	SREDA
115724	144-8/2016	2016 Ne	02.01.2016,17:00 03.01.2016,01:00 03.01.2016,02:10 03.01.2016,00:50	SUBOTA
115726	222-2/2016	2016 S ceta Ne Verifikovana	01.01.2016,02:45 01.01.2016,10:15 01.01.2016,12:00 01.01.2016,10:05	PETAK
115727	204-1/2016	2016 Samo m.steta Ne Verifikovana	01.01.2016,13:45 01.01.2016,14:00 01.01.2016,15:00 01.01.2016,13:55	PETAK
1115729	144-10/2016	2016 Samo m. steta Da Ne	01.01.2016,14:00 01.01.2016,15:20 01.01.2016,16:00 01.01.2016,14:50	PETAK
:	10, 2010)

Road traffic safety agency - RTSA Example - Structure of road accident data

From Mol ORACLE to RTSA SQL Server, txt input files



Accident ID Traffic police unit ID Year RA severity Type of RA GPS X coordinate **GPS Y coordinate Contributory factors** Accident date Accident time Accident day HIT and run accident Investigation time (start) Investigation time (end) Municipality Settlement (Yes/No) Intersection type

Road traffic safety agency - RTSA

- ► SPI road users behavior (seat belt use, mobile phone use, helmet use, speed measurement, child seats use...)
- Social attitudes (important for road safety campaigns)
- Road safety casualties risks (risk analysis)
- ► Negligent drivers with confiscated driver licenses
- ▶ Set of data on: lecturers, examiners, instructors (for driving schools), professional drivers CPC...
- ► Tachograph workshops for buses and heavy goods vehicles
- ► Technicians in tachograph workshops
- ► The Number of licensees of technicians in tachograph workshop by municipalities
- Local road safety bodies

State Road Agency and Local Road Agencies

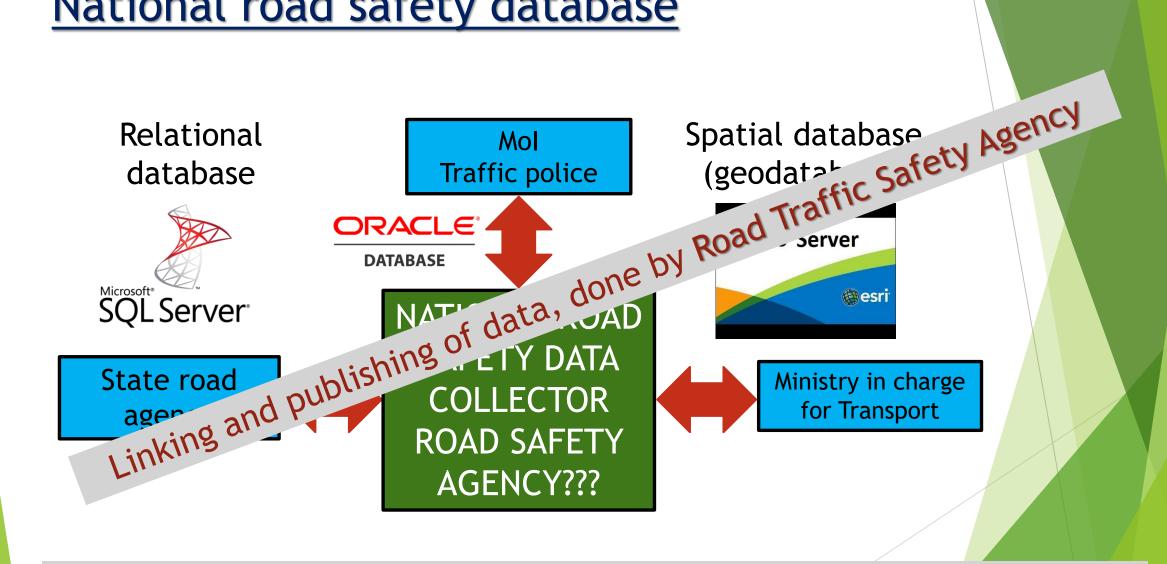
- ▶ Data about state roads state reference system (input format - .gdb (ArcGIS geodatabase file)
- Set of data on AADT by sections (.gdb file)
- ► Locations of traffic counters (.gdb file)
- Set of data on "Black sporstate and local roads!!!

 Bridges (.gdb fils are for state and local roads!!!

 Tunglisdatab file)

 - Landslides (.gdb file)
 - ► ITS devices (.gdb file)
 - ► International E roads (.gdb file)

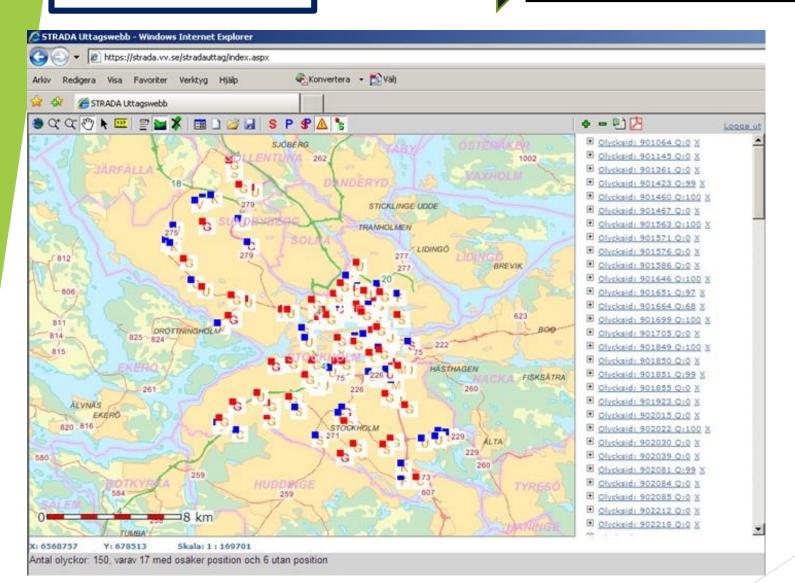
National road safety database

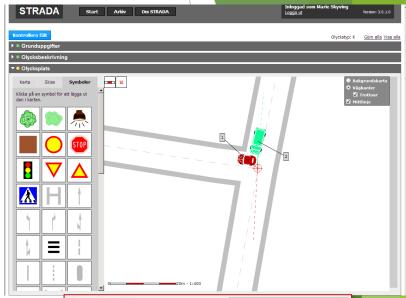


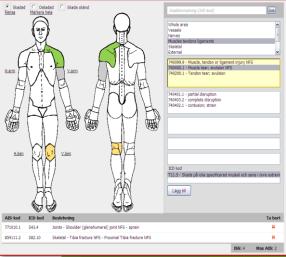
WEB GIS application public available: http://bazabs.abs.gov.rs/

SWEDEN

TRAFIKVERKET - Swedish Transport Administration



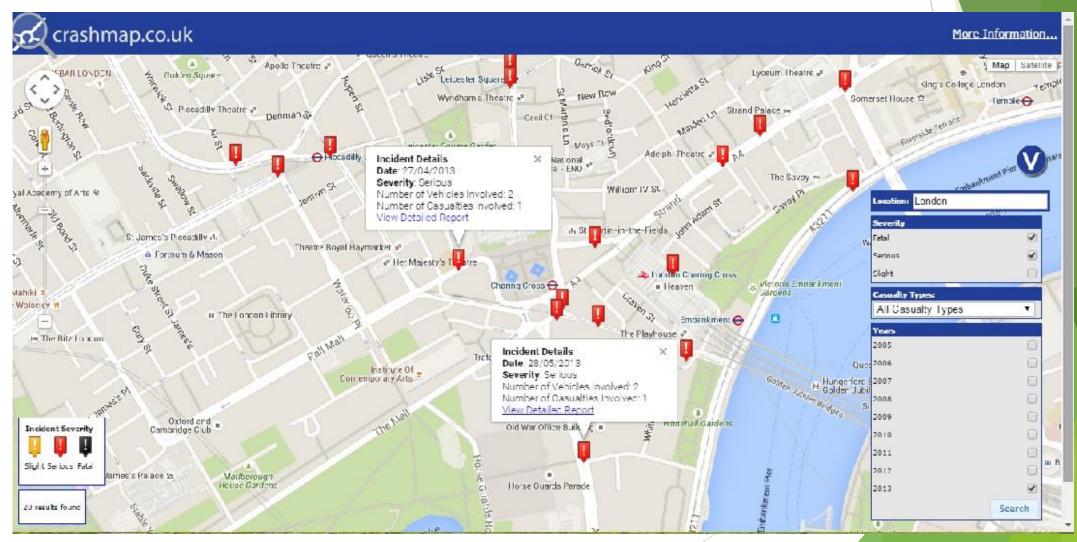




Great Britain

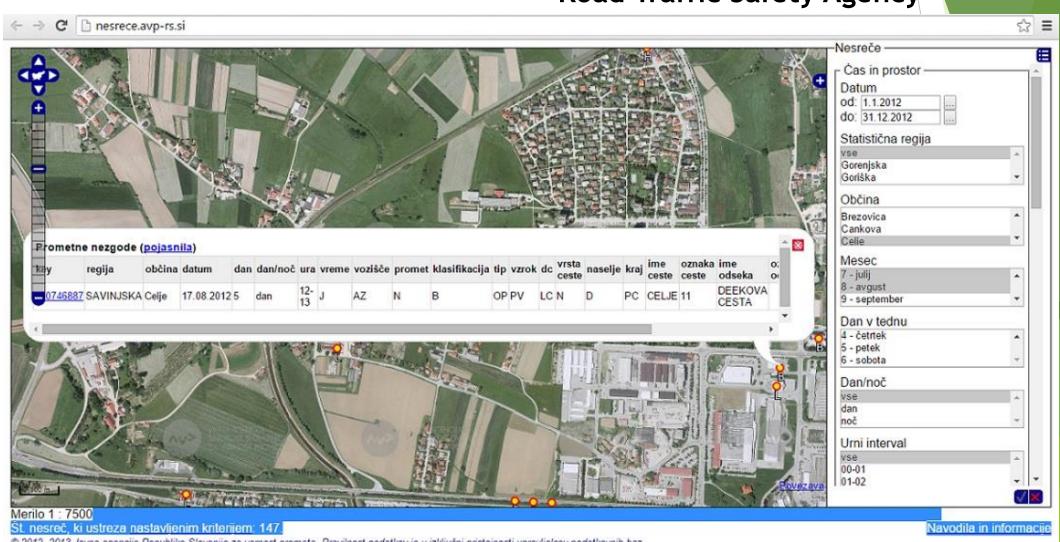


Department of Transport and others ... "Crash Map Community"



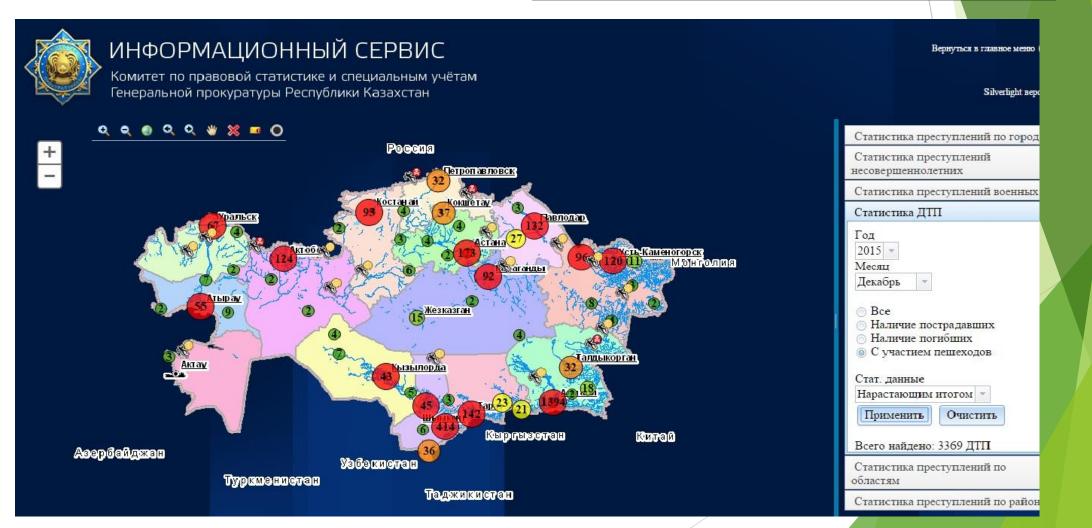
Slovenija

Traffic Police and **Road Traffic Safety Agency**



Kazakhstan

Ministry of justice - General Prosecutor Office and Ministry of Interior - Traffic Police



Success in the monitoring of the state of road safety





DEVELOPMENT OF ROAD SAFETY DATABASE

DEFINING THE STANDARD FOR MONITORING THE STATE OF ROAD SAFETY



Thank You





Crash Database Specialist and Road Safety Specialist E mail: kukicdragoslav@gmail.com