



LIETUVOS RESPUBLIKOS
SUSISIEKIMO MINISTERIJA

Road safety strategy: **Lithuania**

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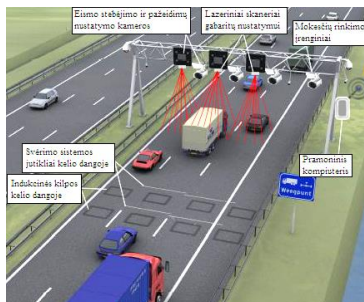
CONTENTS

- **Strategic background;**
- **Safety in roads: facts and figures;**
- **ITS for road safety:**
- **Case studies.**

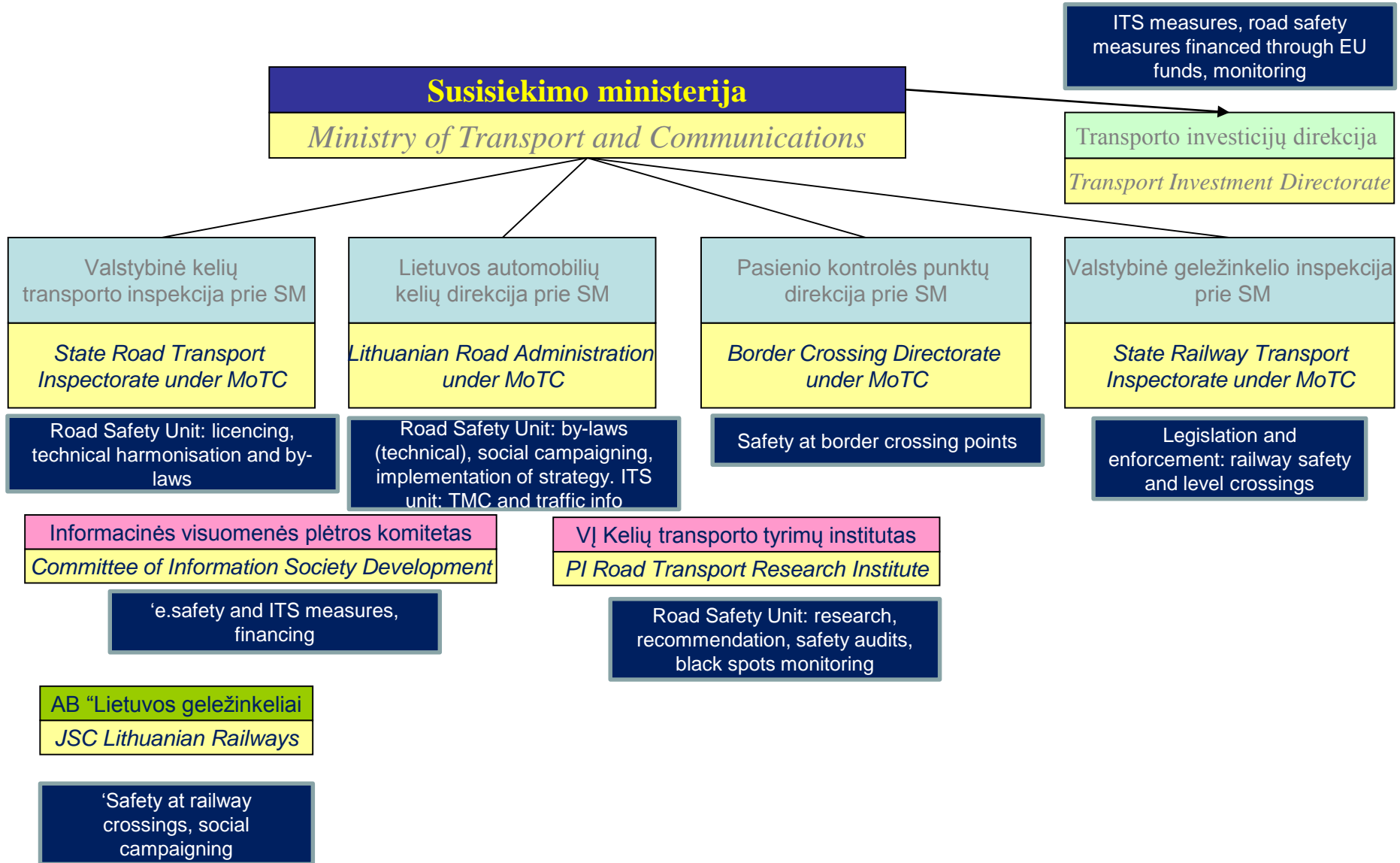


Long term priorities: **road safety and ITS at the heart of transport policy**

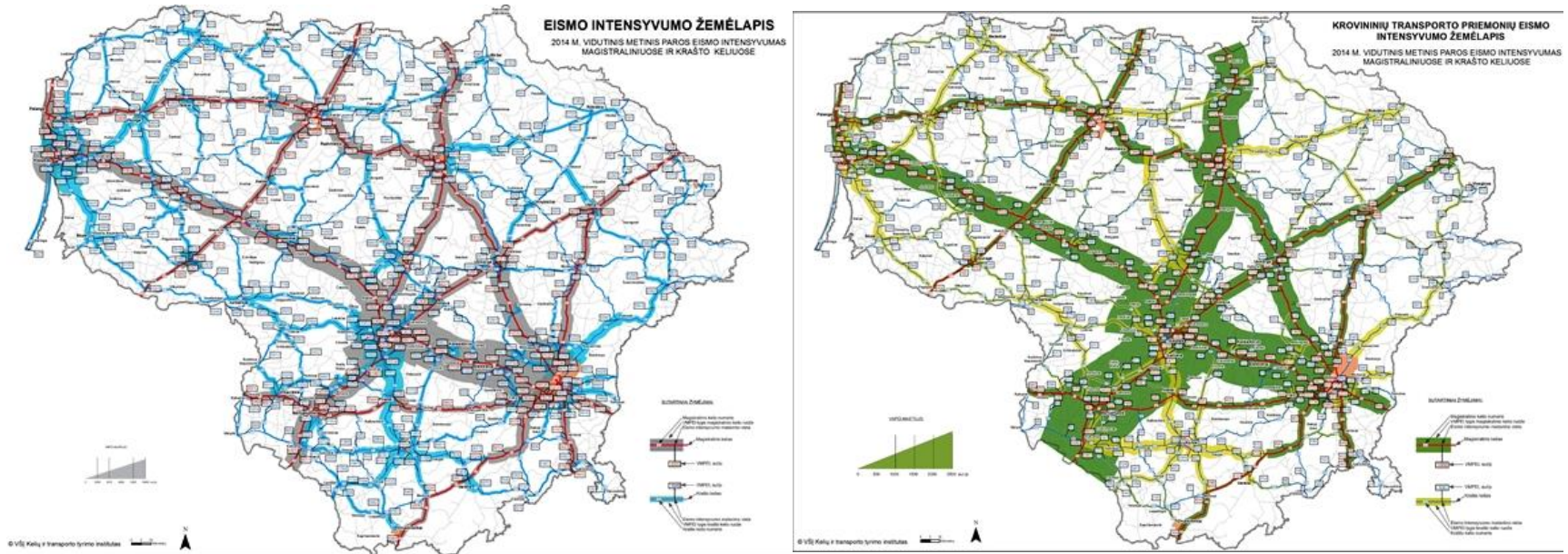
- Development of **TEN-T Network** and its connections;
- Promotion of multimodal and intermodal transport, development of **public logistics centers'** infrastructure;
- Improvement of energy consumption efficiency in transport sector, promotion of **sustainable (urban) mobility**;
- Improvement of **traffic safety** and security;
- Deployment of **intelligent transport systems (ITS)** and services.



Strategic Hierarchy: Road traffic safety related institutions



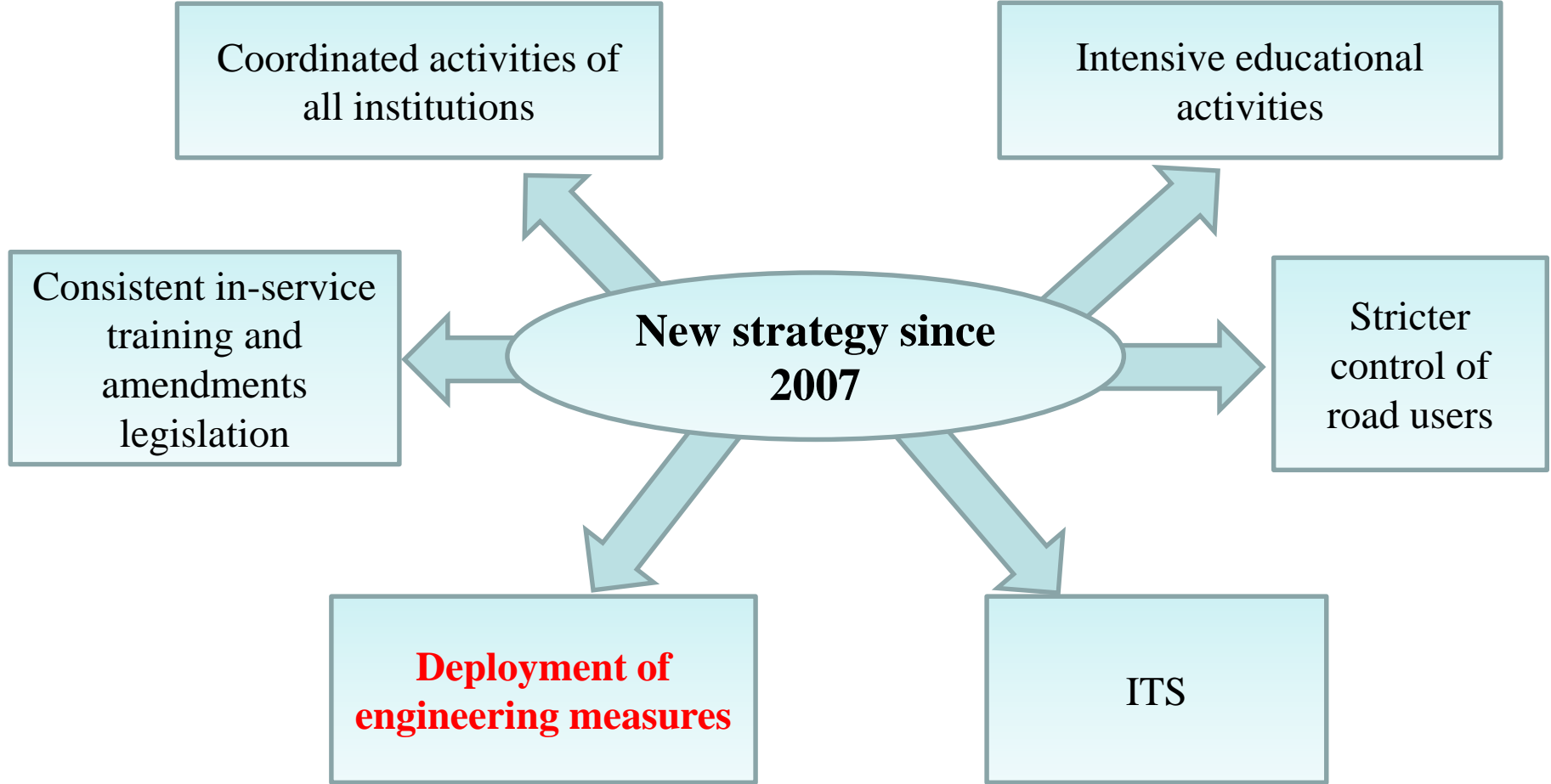
Traffic loading: traffic intensity increases and threatens road safety



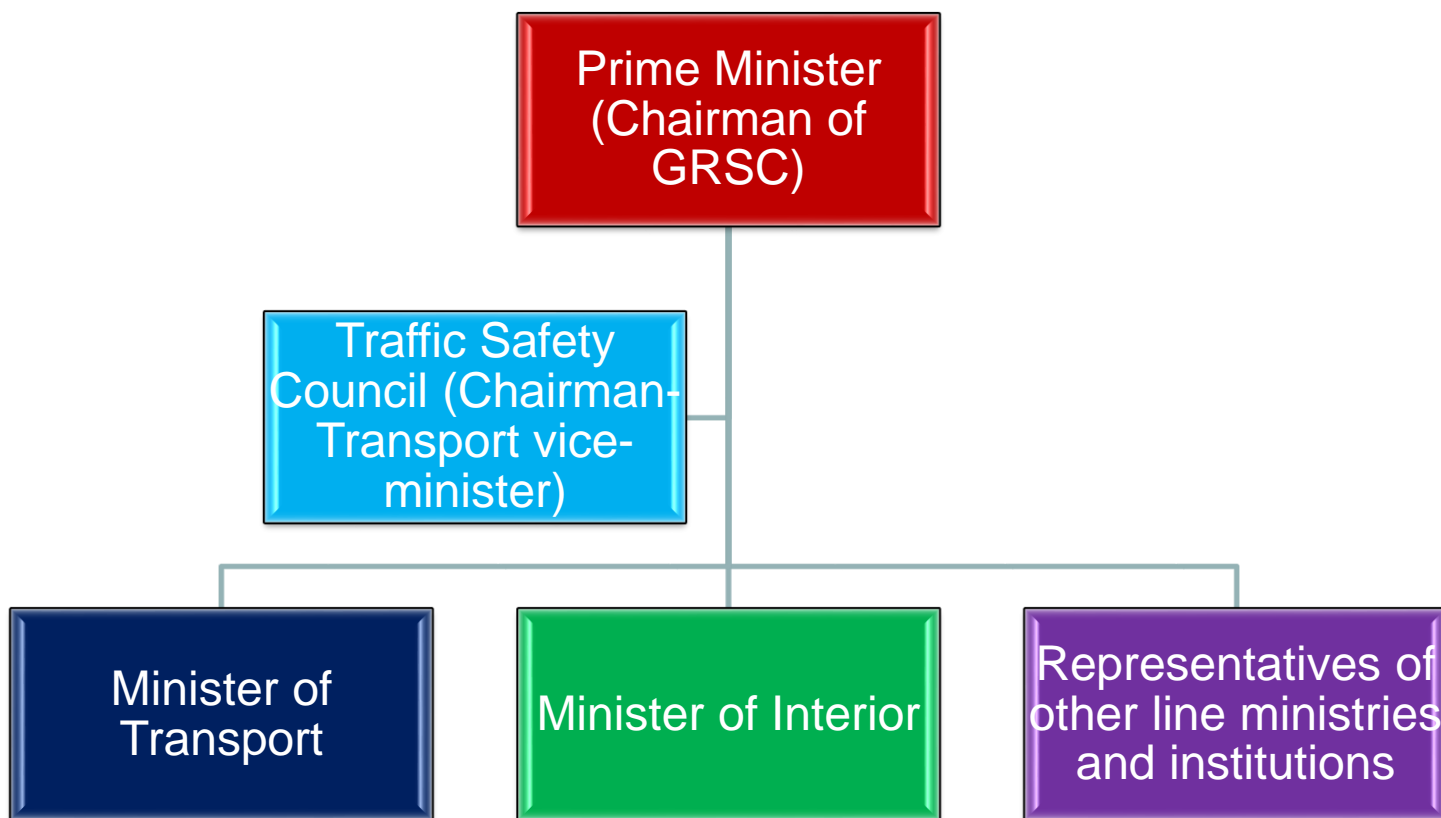
- **Growing transit traffic intensity on Via Baltica (1+1/2 lanes, 1+2) road;**
- **Growing number of car use;**
- **Increase demand for mobility.**



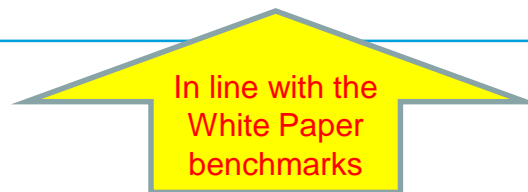
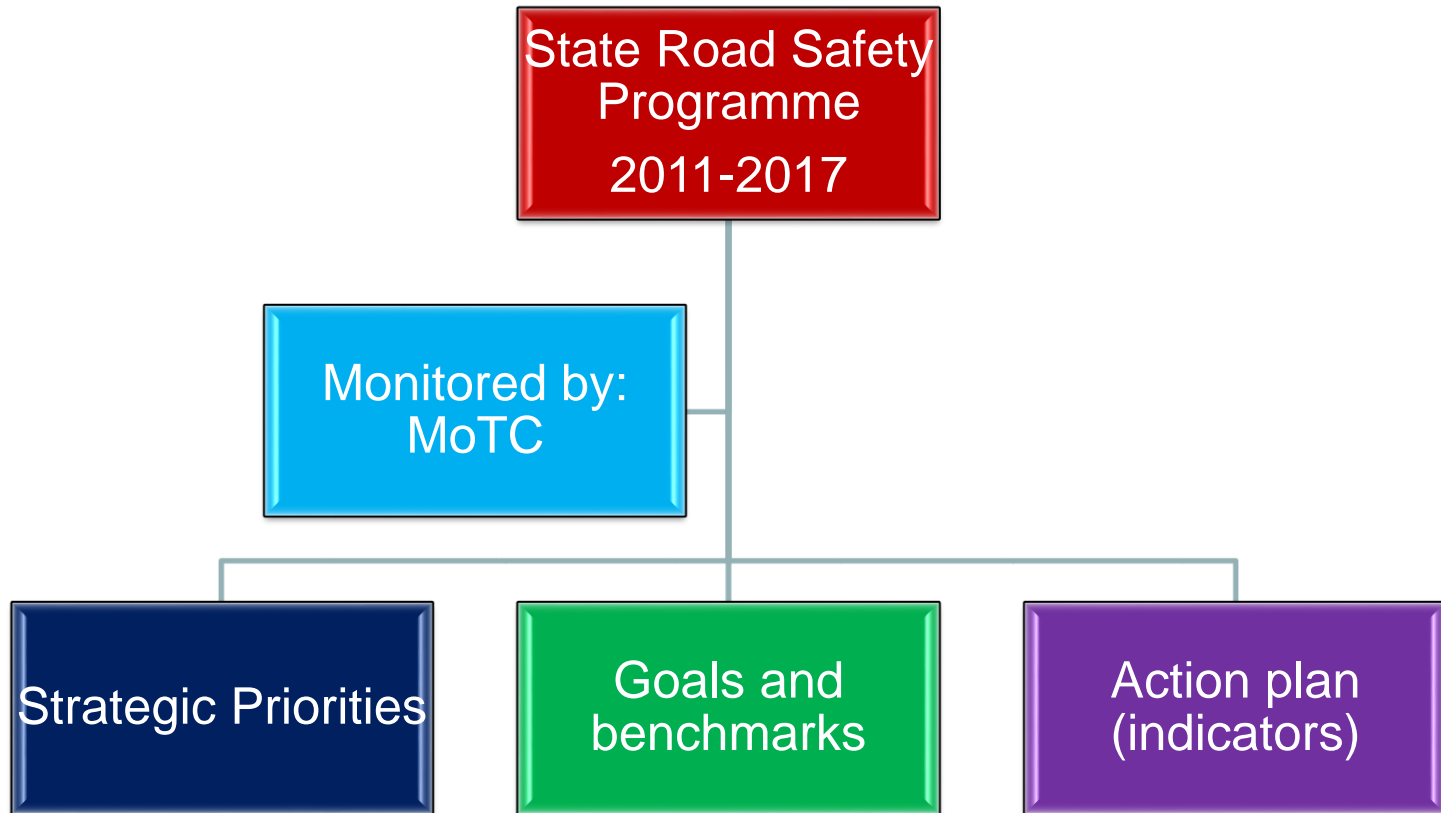
Factors influencing accident reduction: **engineering measures in focus**



Governmental Road Safety Commission: interinstitutional high level road safety policy tool



Road Safety Strategy Programme: **structure**



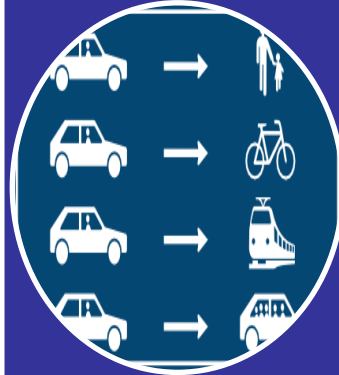
Road Safety Strategy Programme: **priorities**



1. Safe behaviour of users



2. Safe roads' infrastructure



3. Safe vehicles



4. Effective first aid for road users after accidents



5. State-of-the-art ICT for road safety

Strategic goal: TOP – 10 in terms of EU safest countries for road users

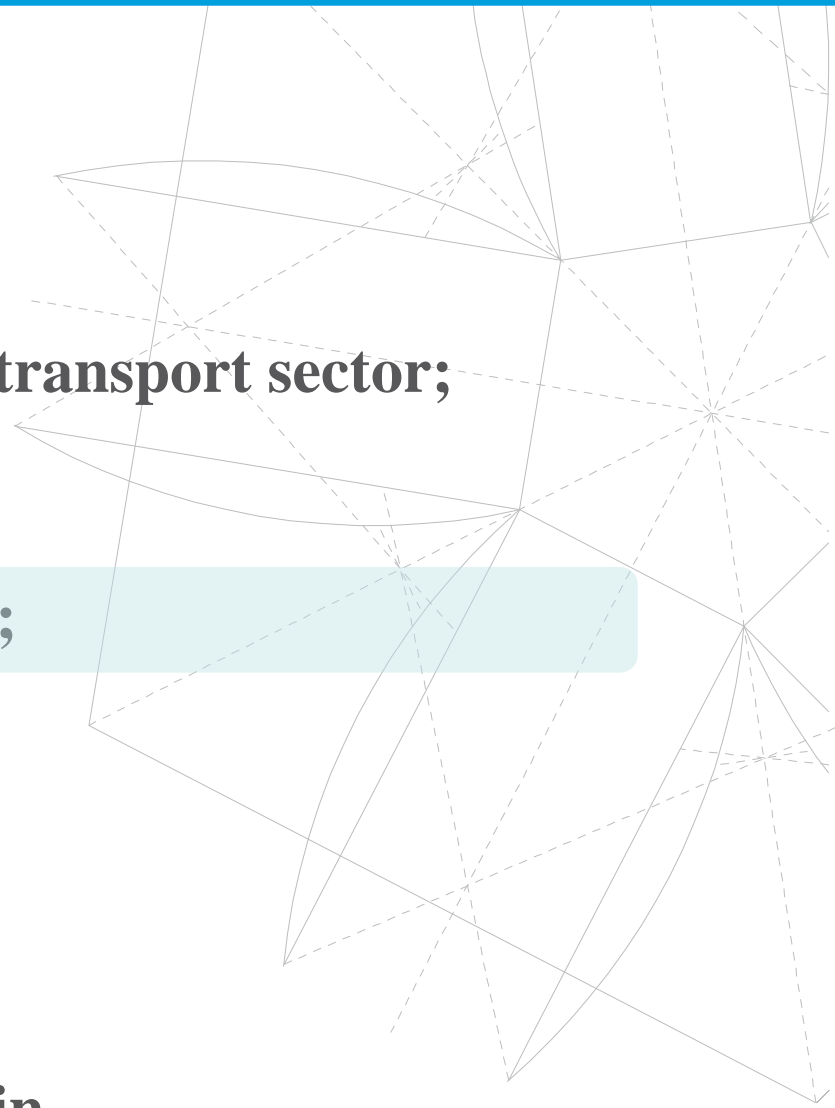
Road Safety Strategy Programme: Action plan indicators for goals and tasks

- **Institutions involved: MoTC, MoH, MoI, Police department under MoI, Lithuanian Road Administration under MoTC, State Road Inspectorate under MoTC, Association of Insurance companies; Road Research Institute);**
- **Each institution should allocate necessary budget for the Action Plan;**
- **Inability to deliver results is discussed or new measures are proposed at Governmental Road Safety Council or Road Safety Commission;**
- **Each institution should prepare and send report to programme's coordinating body – MoTC; the latter prepares yearly report and new action plan for the Government to adopt.**



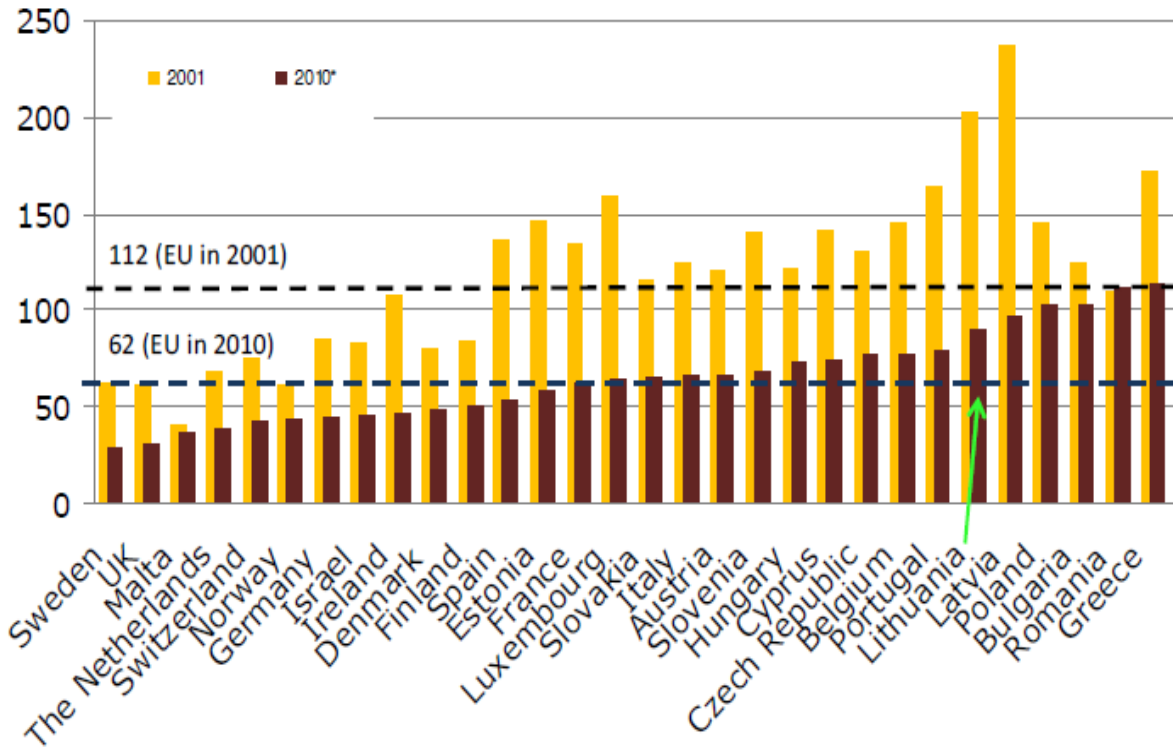
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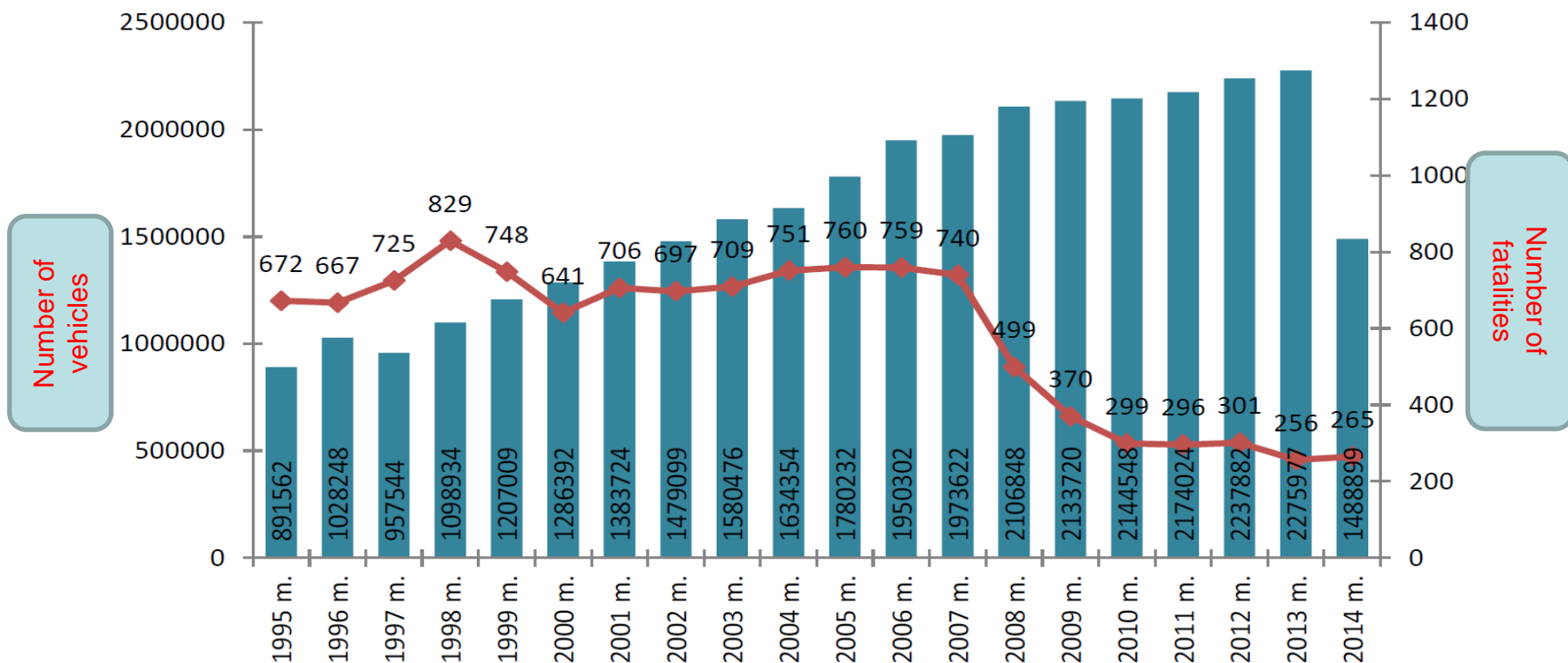


Safety PIN in 2011: since 2001 number of fatalities in Lithuania was reduced by 58 per cent in 2010 (achieved)

58%



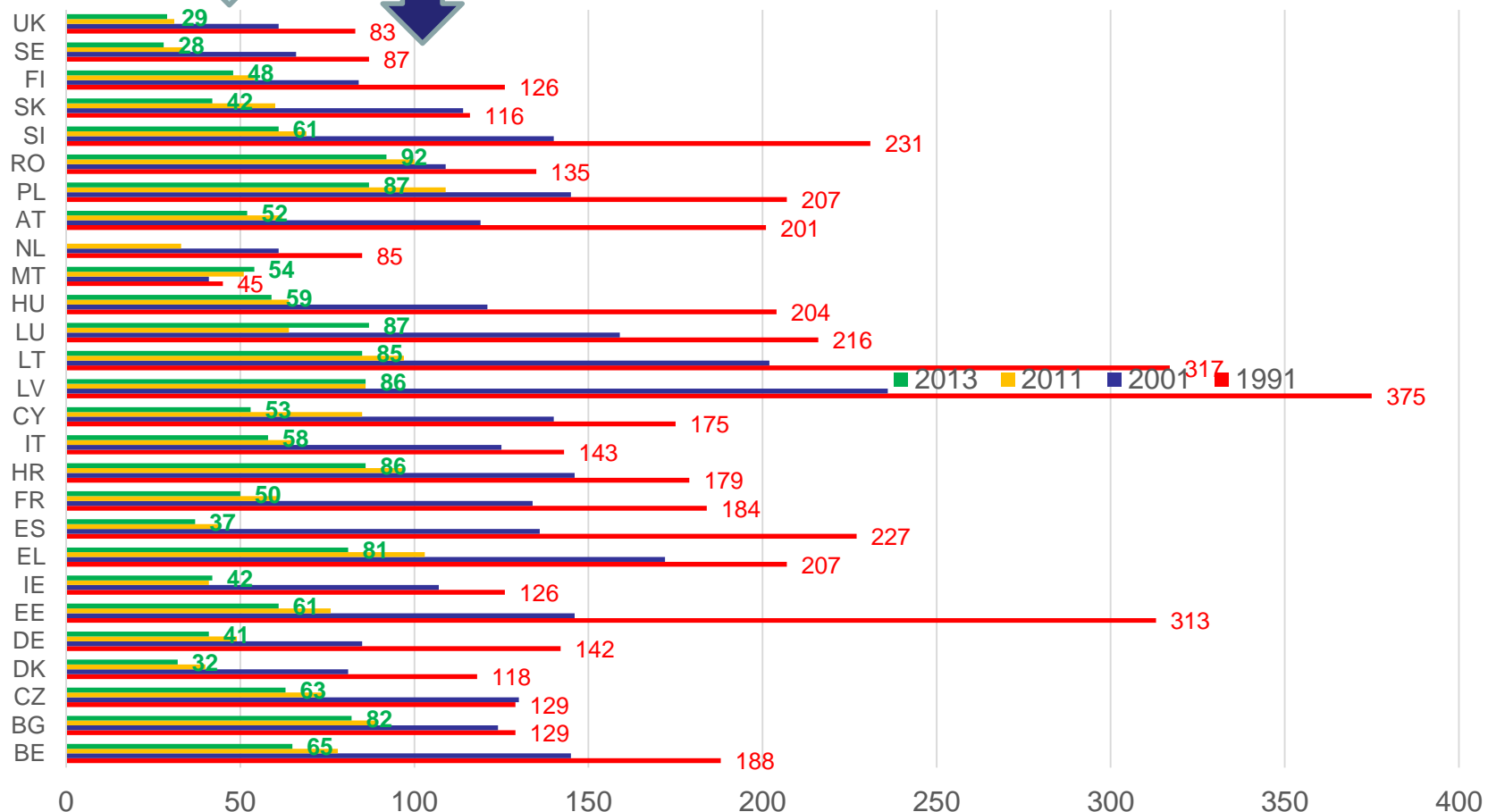
Verona declaration: since 2001 number of fatalities in Lithuania was reduced by 58 per cent in 2010 (achieved)



Road safety in figures: from 317 deaths/1mill.inh to 85 fatalities/mill.inh in Lithuania

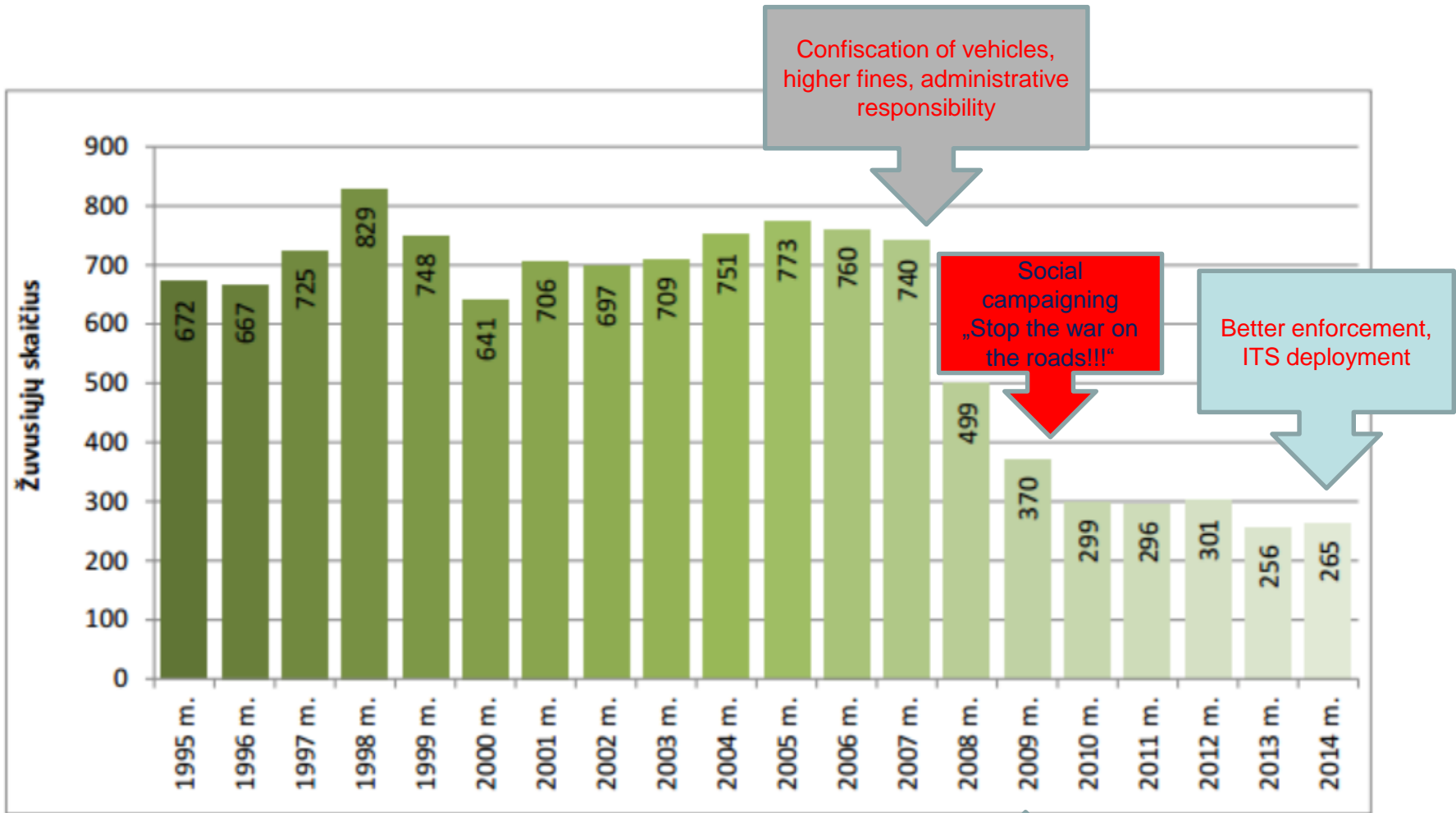
WP 2011 goal: to halve by 2020

WP2001/Verona declaration: to halve by 2010



	BE	BG	CZ	DK	DE	EE	IE	EL	ES	FR	HR	IT	CY	LV	LT	LU	HU	MT	NL	AT	PL	RO	SI	SK	FI	SE	UK
■ 2013	65	82	63	32	41	61	42	81	37	50	86	58	53	86	85	87	59	54		52	87	92	61	42	48	28	29
■ 2011	78	89	74	40	49	76	41	103	44	61	97	65	85	86	97	64	64	51	33	62	109	100	69	60	54	34	31
■ 2001	145	124	130	81	85	146	107	172	136	134	146	125	140	236	202	159	121	41	61	119	145	109	140	114	84	66	61
■ 1991	188	129	129	118	142	313	126	207	227	184	179	143	175	375	317	216	204	45	85	201	207	135	231	116	126	87	83

Factors influencing accident reduction: **stricter legislation in place**



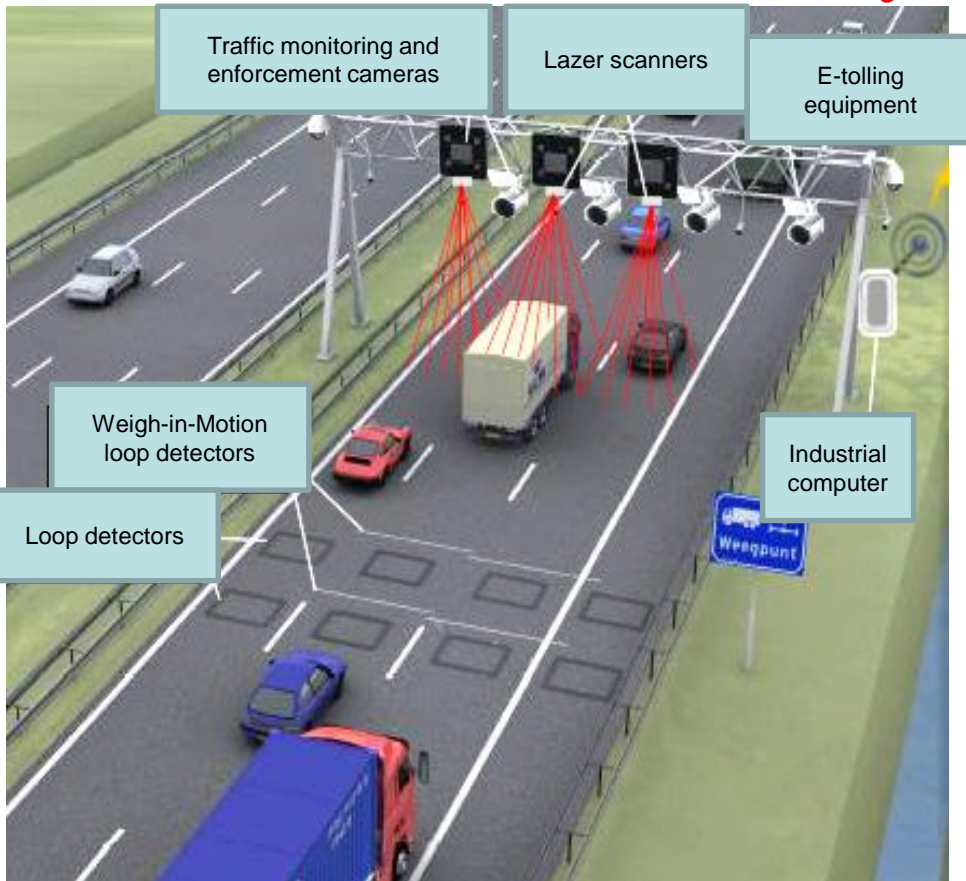
Cheap and quickly installed road safety measures (esp. traffic calming) – elimination of black spots, radars

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ITS: Lithuanian Multifunctional enforcement and traffic information system (2013-2017) (1)



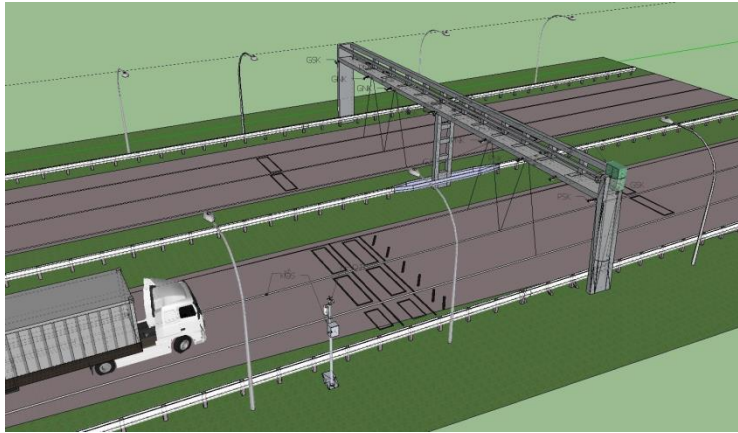
Main functions:

- automated sectorial speed control.
- weigh-in-motion detection;
- license plate recognition (technical inspection data, insurance validity, vehicle registration);
- E-tolling.



Case study: Multifunctional enforcement and traffic information system (2013-2017) (2)

Deployment plan:

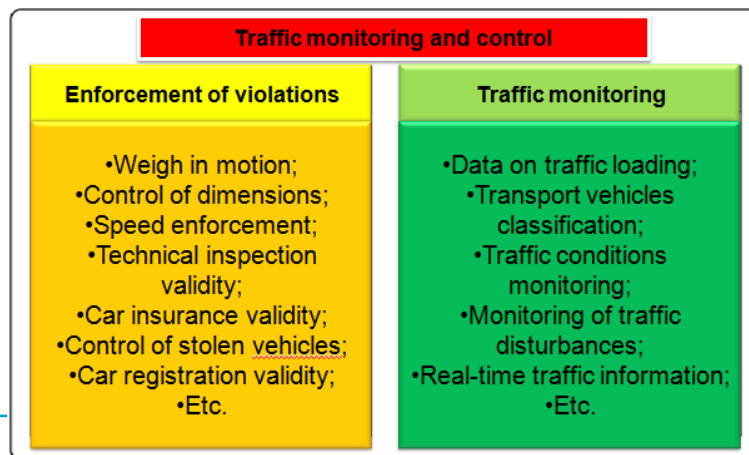


- 2013-2014: **Pilot phase** (3 locations): metrology, tests, preventive use;

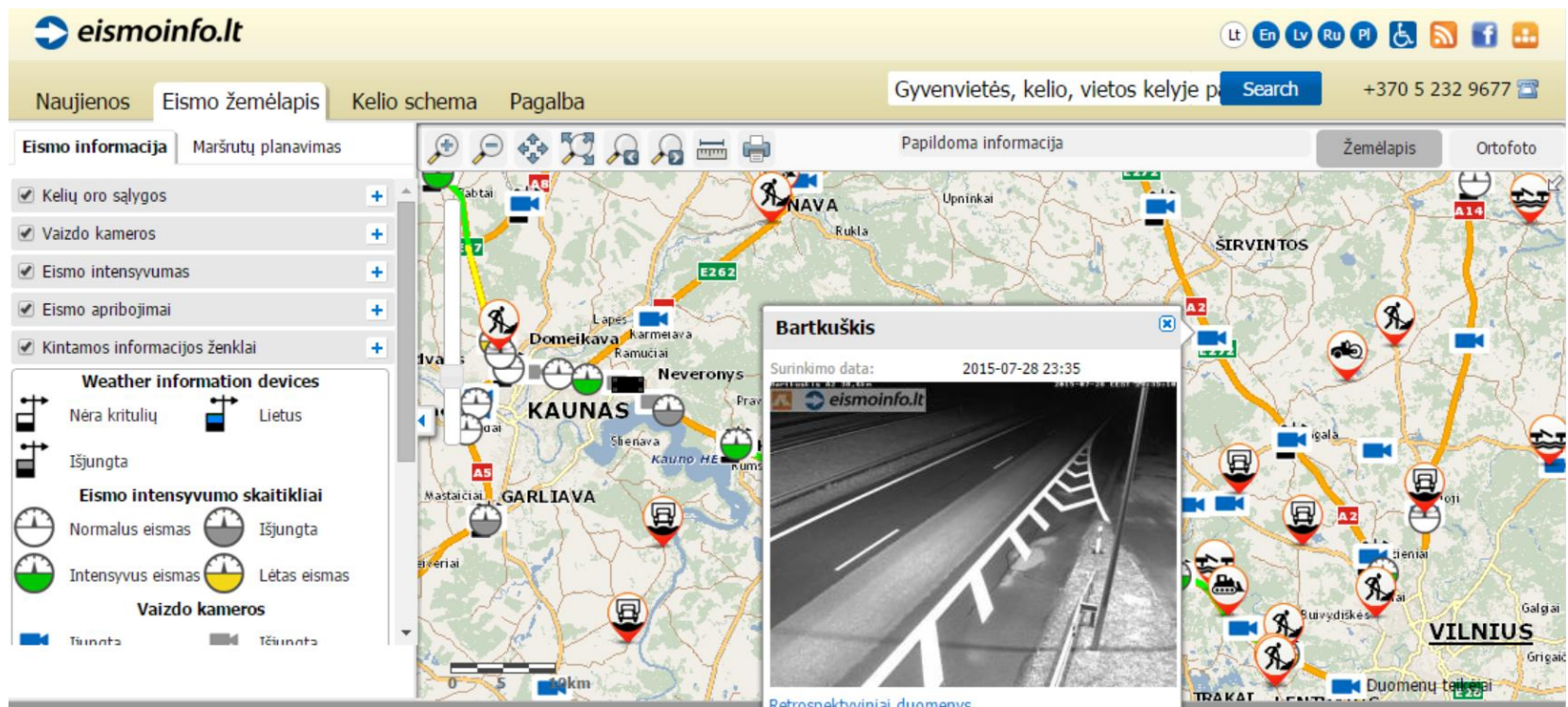
- 2015 - 2017: Complete network of **Weigh-in-Motion system** (over 50 locations);

- 2015 - 2017: Complete network of **multifunctional enforcement and traffic information system** (appr. 200 stations);

- since 2017: **e-tolling** (user pays-polluter pays principle) on the main roads.



Case study: National Traffic control and information center ^{IT}



- Real time traffic information 24/7;
- Meteorological condition, surface temperature, video/photo snapshotting, intensity on real time, traffic limitation;
- App for mobile devices' users/ open traffic data for TomTom, Google, etc.
- Dynamic speed management via variable message signs.



Case study: Vilnius Traffic control and information center ^{IT}

Centralizuotos eismo valdymo sistemos gedimų registravimas: tel. (8 5) 260 93 77, el. p. info@sviesoforai.lt

Mobilii sviesoforai.lt versija skirta įrenginiams turintiems „Android 4.0“ arba aukštesnės versijos operacinę sistemą.

SUSISIEKIMO PASLAUGOS

Automobilių stov Vilniaus mieste

hnit·baltic

- Real time traffic information 24/7;
- SIEMENS intelligent traffic lights system and control;
- Traffic light principle – *red* means slow traffic, *yellow* – slower, *green* - smooth.
- ~~Traffic information in the streets via variable message signs.~~



Case study: Variable message signs and screens



- Real time traffic information 24/7;
- Meteorological conditions, surface temperature, video/photo snapshotting, intensity on real time, traffic limitation;
- App for mobile devices' users.
- Dynamic speed management via variable message signs.



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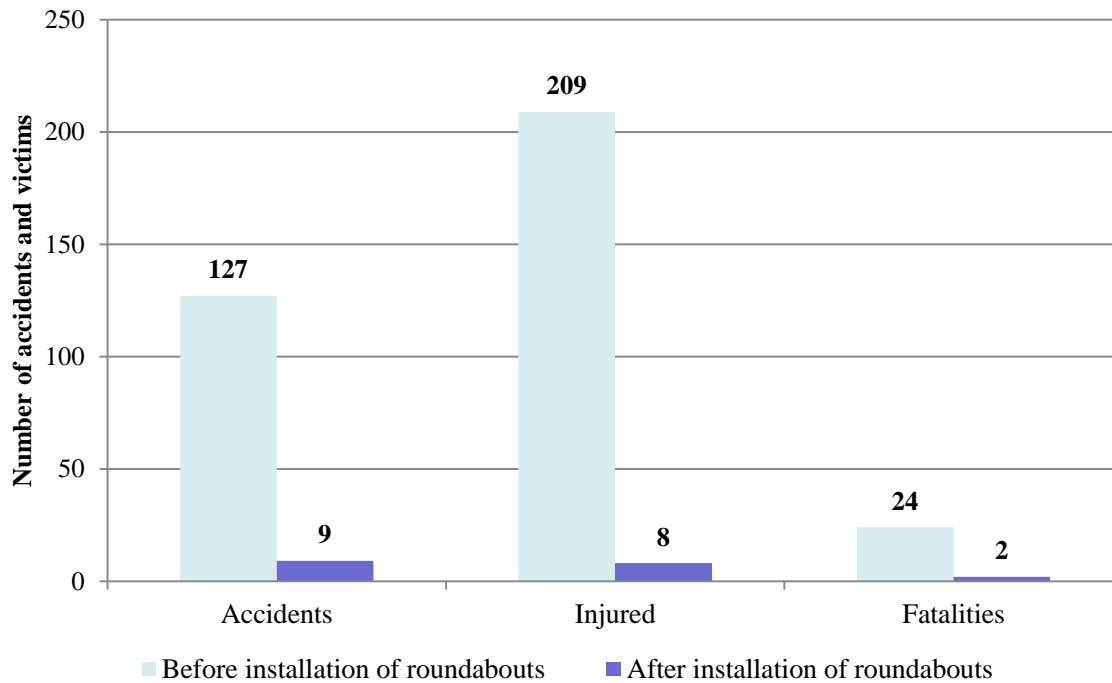
Engineering Solutions: **set selected of measures**



- Roundabouts;
- Engineering upgrading of dangerous junctions;
- Infrastructure for vulnerable road users;
- Improvement of lighting conditions;
- Safety islands, traffic calming, speed bumps;
- Speed management;
- Additional road safety measures;
- Improving safety in roadside.



Measuring the effects: roundabouts



	Change, %
Injury accidents	-92,91
Injured	-91,67
Fatalities	-96,17



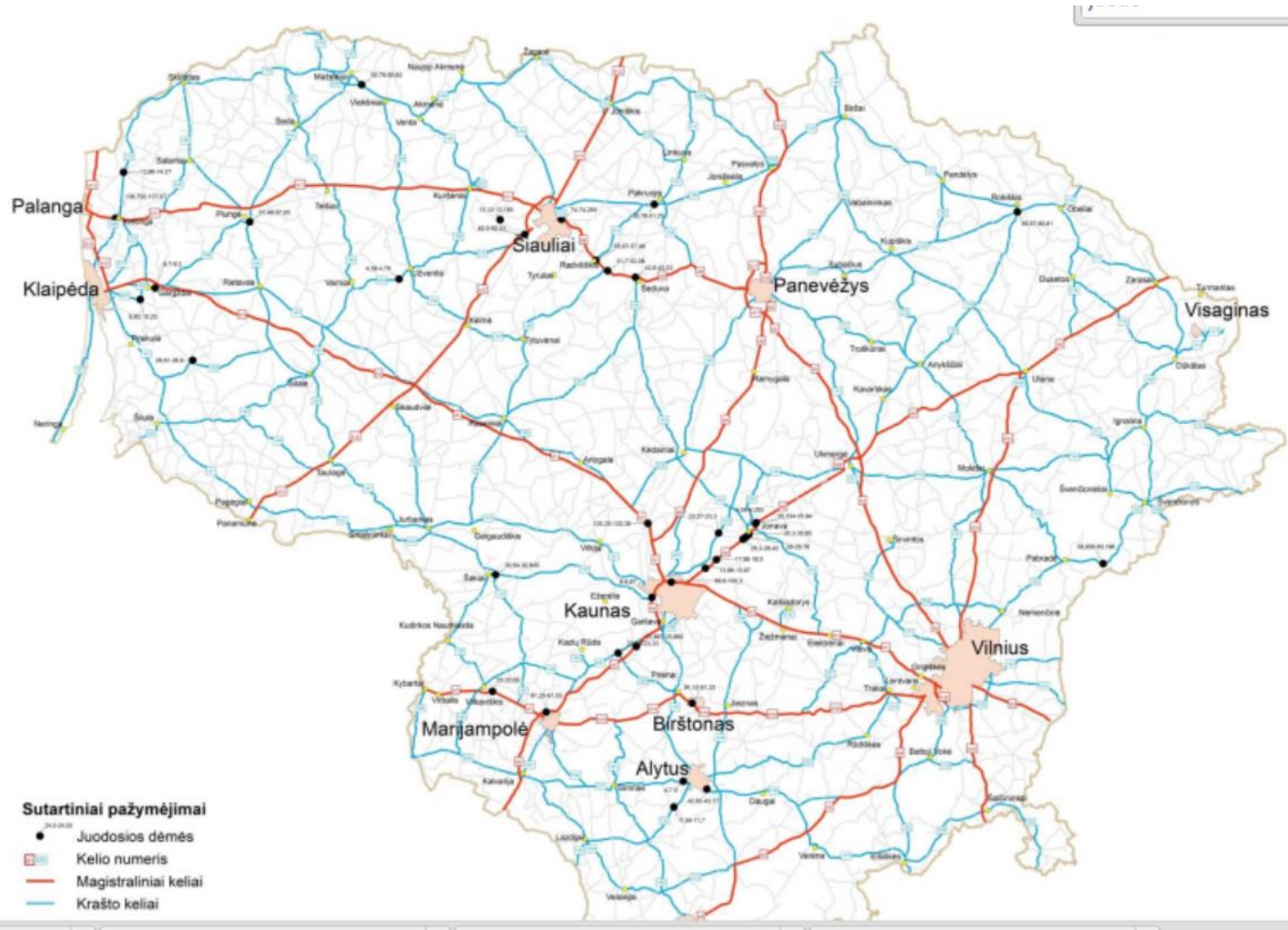
Impact of traffic safety measures: summing up

Measure	Change, %		
	Accidents	Fatalities	Injured
Lightning	-55,8	-73,0	-42,6
Guardrails	-68,1	-33,0	-72,6
Footpaths and cycling tracks	-81,0	-93,8	-87,2
Road signs	-24,0	-14,3	-7,6



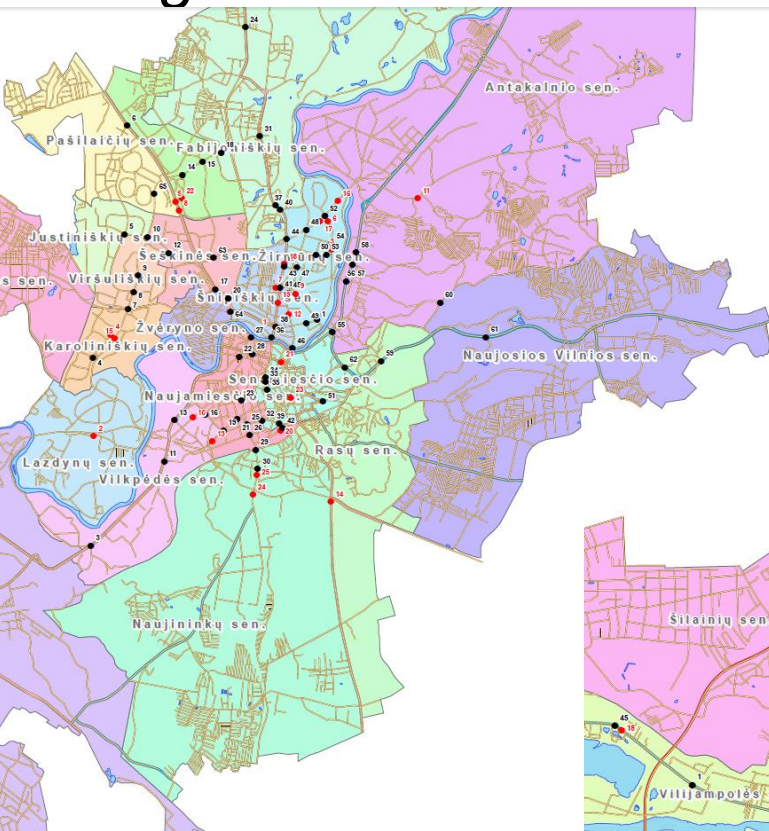
Black spots*:

focused investment into the most dangerous sections (reduction from 282 to 40 in 10 years)

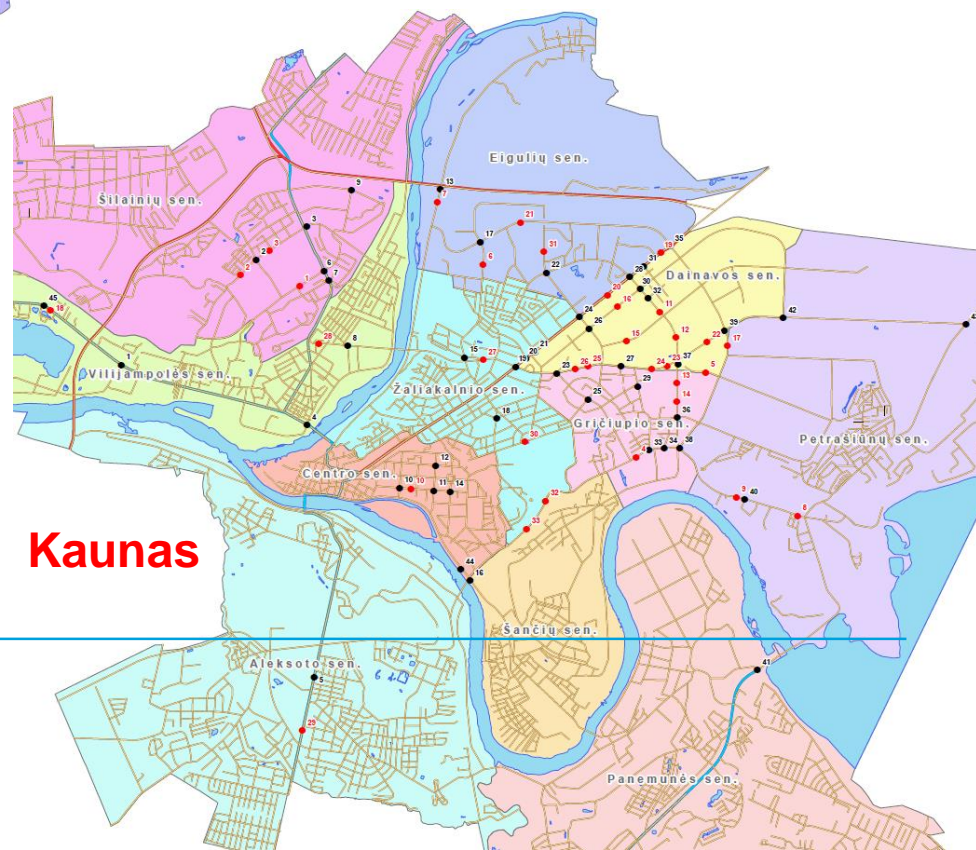


Urban black spots: new concept to map and eliminate dangerous sections in towns and cities

48	181420	046100
49	181420	046101
50	181420	046102
51	181420	046103
52	181420	046104
53	181420	046105
54	181420	046106
55	181420	046107
56	181420	046108
57	181420	046109
58	181420	046110
59	181420	046111
60	181420	046112
61	181420	046113
62	181420	046114
63	181420	046115
64	181420	046116
65	181420	046117



Vilnius



Kaunas



Social campaigns: media, events, continuous campaigns



STOP the war in roads!



**Do come to reason-don't drink and drive!
Do come to reason-don't drink and drive!**



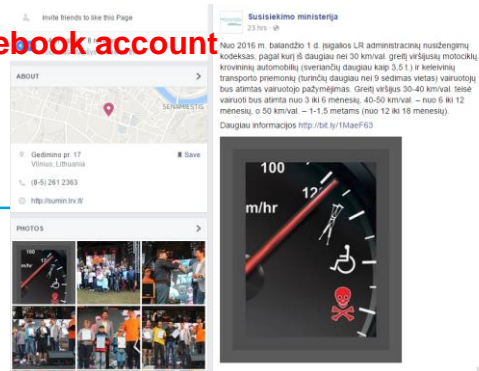
Simulators



Do not be a moose- wear a reflector!

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Facebook account



Sustainable urban mobility plans: **Traffic safety** - part of SUMP



Concluding remarks – **points to watch**

- Prevention policy of **seriously injured** (safe infrastructure-safer vehicles+more efficient first aid);
- **Drunk-driving and aggressive driving** prevention (awareness raising+alkoblocks/rehabilitation programmes+ sanctions);
- Reintroduction of **penalty/demerit points**' system;
- Improving infrastructure for **vulnerable road users (traffic calming measures + 30 km/h zones, bicycle tracks)**;
- **Speeding enforcement** (sectoral control; multifunctional systems, mobile radars, radar deployment in regional roads).





Thank you for your attention!

**More information at: www.sumin.lt,
grazvydas.jakubauskas@sumin.lt**





Mirtinų eismo įvykių pasiskirstymas pagal eismo įvykių rūšis

