

## **Development of road traffic safety in Latvia** - measures, achievements, problems.

## **Aldis Lāma**

Data Analyst Latvian Road Traffic Safety Directorate



## The objectives of the presentation

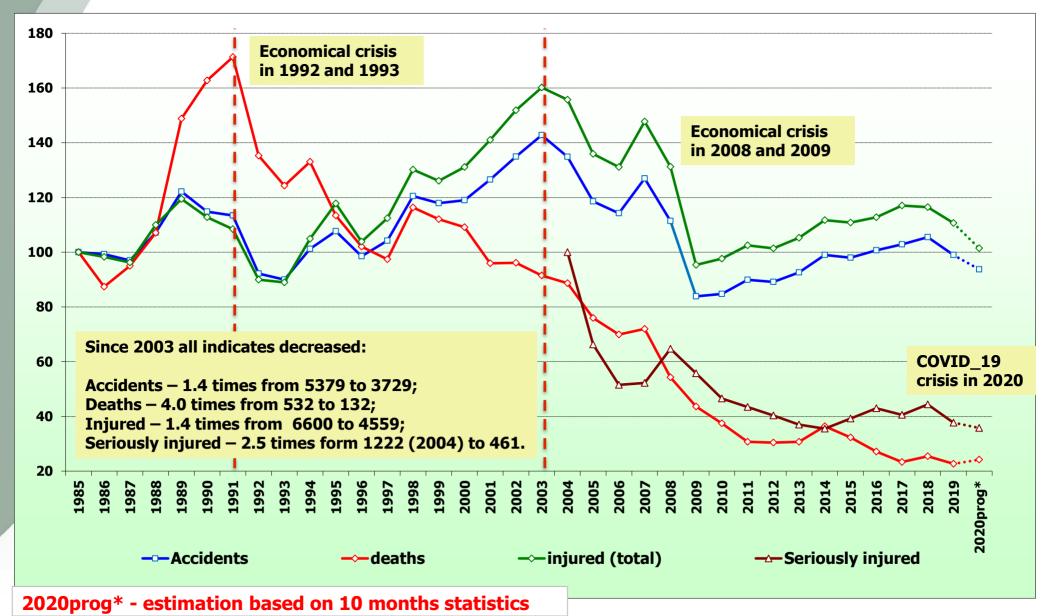
## 4 To show the policy of Road Safety in last 30 years;

## 4 To show achievements of implementation;

To show actual problems of road safety.

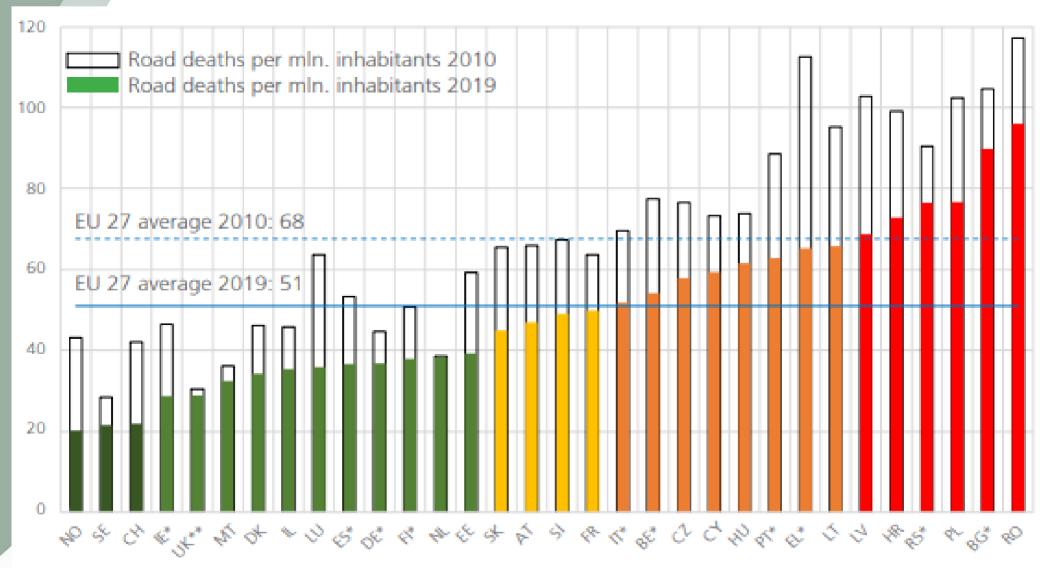


## **Road traffic safety indicators in Latvia**





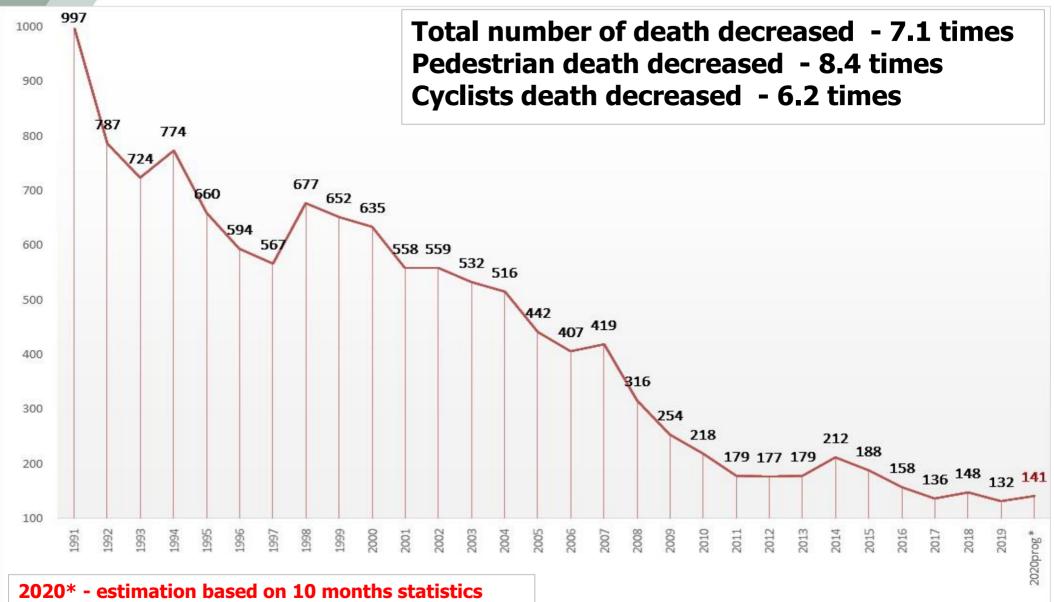
## **Deaths per million population**



ETSC, https://etsc.eu/wp-content/uploads/14-PIN-annual-report-FINAL.pdf

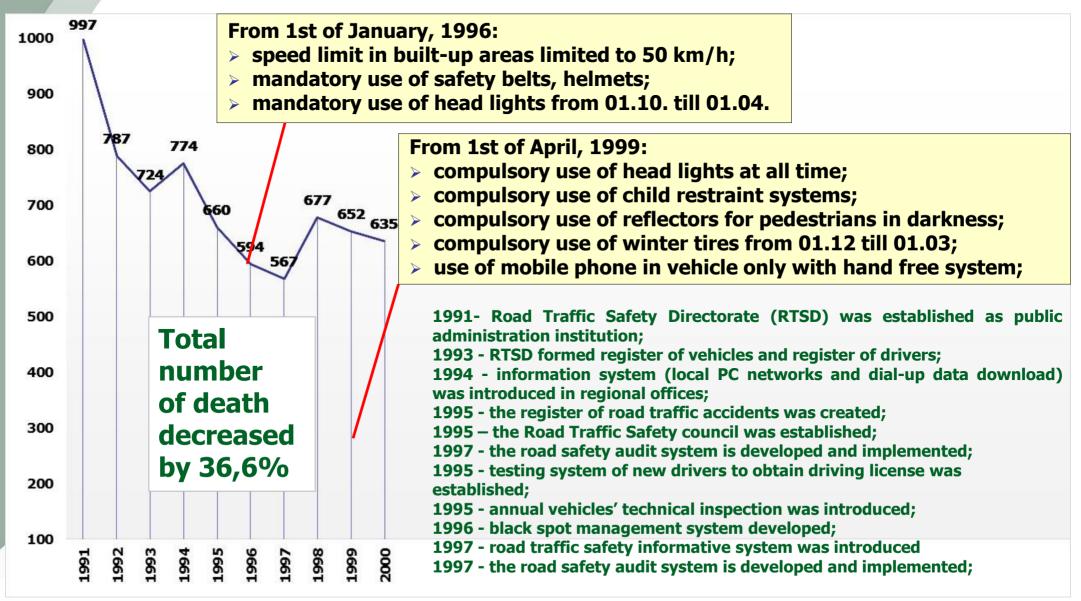


## **Deaths in Latvia**



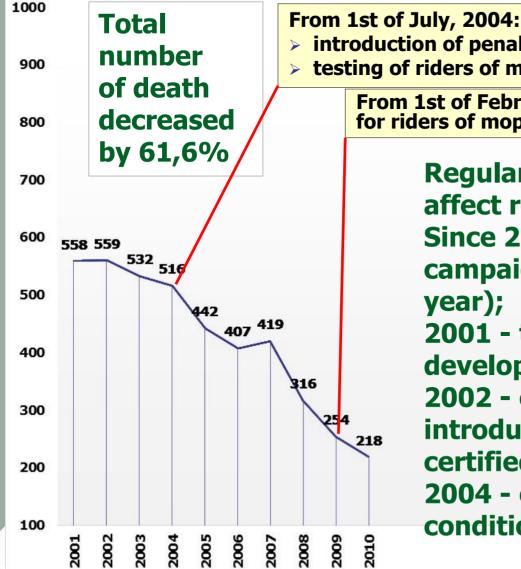


## Deaths in Latvia from 1991 to 2000





## Deaths in Latvia from 2001 to 2010



introduction of penalty point system;
testing of riders of moped is mandatory for obtaining license.

From 1st of February, 2009 the penalty points are also recorded for riders of moped

Regular fines increased for offences that affect road safety;

Since 2001 annual different public awareness campaigns were implemented (3 to 4 per year);

2001 - the road safety audit system is developed and implemented;

2002 - certification of replacement parts was introduced in Latvia banning sales of noncertified parts;

2004 - express diagnostics of the technical condition of vehicles on the roads;



1000

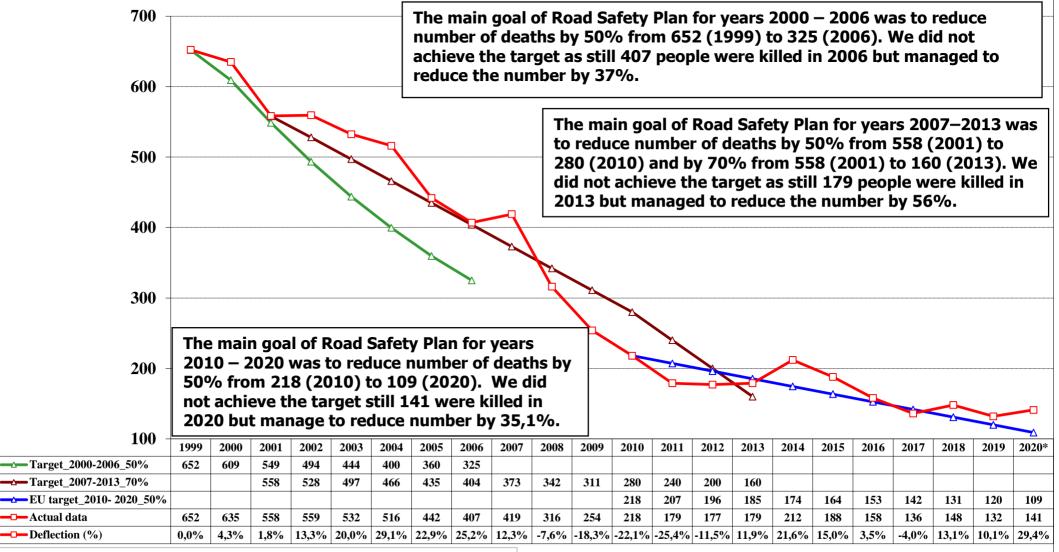
## Deaths in Latvia from 2011 to 2020

|   | 900<br>900 | Total<br>number  | Regular fines increased for offences that affect road safety;   |   |
|---|------------|--|---|---|
| ٤ | 800        | of death<br>decreased<br>by 21,3%  | Latvia organizes 2-3 road safety campaigns every<br>year, that changes road user's awareness and  |   |
| 7 | 700        | <b>by 22/0</b> /0  | behavior, for example - after road safety campaign<br>"Life belt" the number of passengers, who uses  |   |
| e | 500        |  | seat belt, increased by 6%.   |   |
|   | 500        |  | 100 stationary safety cameras have been installed by the end of 2018.   | t |
| 2 | 400        |  | Traffic control — traffic lights speed overtaking   | - |
| 3 | 300        | 212  | Traffic control – traffic lights, speed, overtaking<br>etc Police has unmarked police cars and mobile<br>speed cameras that will help to increase traffic | e |
|   | 200        | 79 177 179 188<br>158 136 148  |   |   |
|   | 100        | 2011 - 2012 - 2013 - 2013 - 2014 - 2015 - 2015 - 2016 - 2017 - 2018 - 20 | 2020*   |   |

2020\* - estimation based on 10 months statistics



## Main goals of Road Safety plans



**2020\*** - estimation based on 10 months statistics



## **Monitoring of implementation of program**

Since 2001 annual monitoring is done, the monitoring includes:

**1.Estimation of actual road safety situation – achievements and losses;** 

**2.Execution** of the program implementation, legislative changes and trends in the EU;

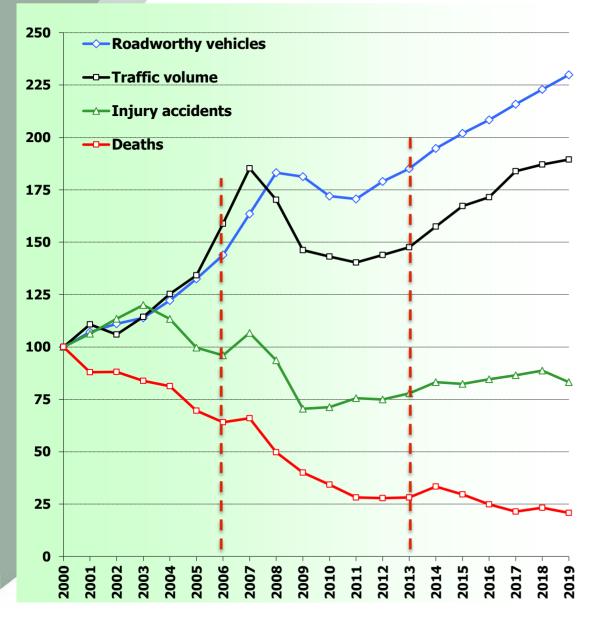
**3.Assessment** of fulfilment and realization of program defined tasks;

4.Achievements and effectiveness of implementation of programme by using cost benefit analyses;

5.Conclusions and recommendation.

#### CEĻU SATIKSMES DROŠĪBAS DIREKCIJA

## **Indicates of realisation of road safety plans**



#### From 2000 till 2006

Number of vehicles increased by 43,9% Number of traffic volume increased by 58,8% Number of accidents decreased by 4,0% Number of deaths decreased by 35,9%

#### From 2007 till 2013

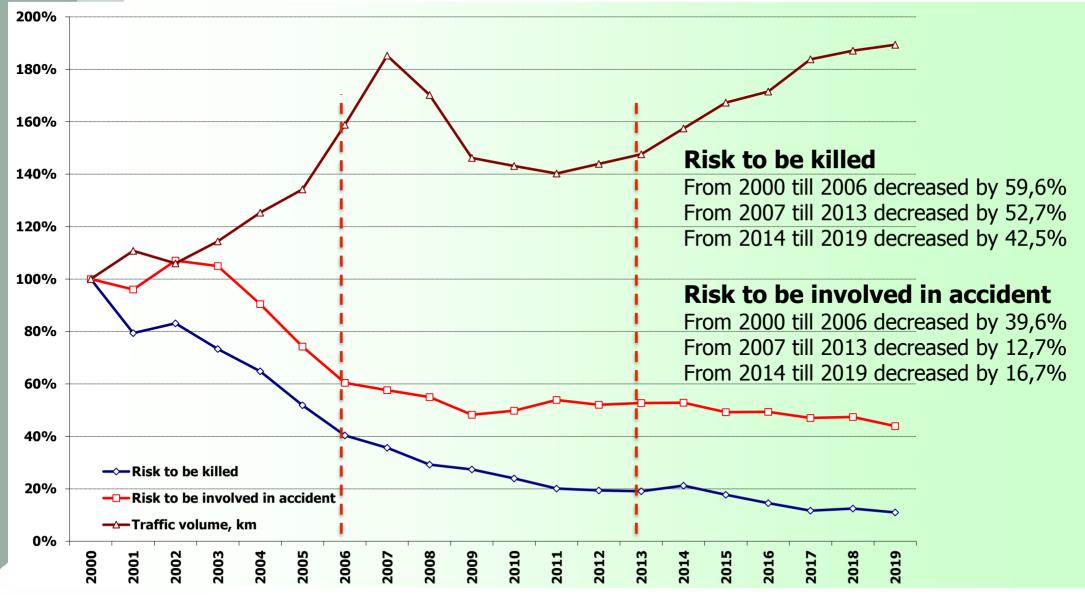
Number of vehicles increased by 28,6% Number of traffic volume decreased by 7,1% Number of accidents decreased by 18,9% Number of deaths decreased by 56,0%

#### From 2014 till 2019

Number of vehicles increased by 24,2% Number of traffic volume increased by 28,3% Number of accidents increased by 6,9% Number of deaths decreased by 26,3%



## **Traffic volume and risks**



#### CEĻU SATIKSMES DROŠĪBAS DIREKCIJA

## **Benefits of realisation of road safety plans**

| Killed   |                                    |              |     |   |               | Injured                                 |             |                           |      |               |                          |             |                            |               |                                |             |                           |                  |
|----------|------------------------------------|--------------|-----|---|---------------|---|-------------|---------------------------|------|---------------|--------------------------|-------------|----------------------------|---------------|--------------------------------|-------------|---------------------------|------------------|
| Years    | Average of 1998-<br>1999           | Actual data  |     | Losses of deaths,<br>EUR<br>Benefits, EUR |               | Average of 1998-<br>1999<br>Actual data |             | Losses of injured,<br>EUR |      | Benefits, EUR | Average of 1998-<br>1999 | Actual data | Losses of accident,<br>EUR | Benefits, EUR | Total benefits,<br>million EUR |             |                           |                  |
| 2000     | 664                                | 635          | 5   | 227                                       | 7850          | 6                                       | 6607654     | 5280                      | ) 54 | -02           | 4735                     |             | -577709                    | 4491          | 4482                           | 1787        | 16084                     | 6,05             |
| 2001     | 664                                | 558          | 8   | 314                                       | 4066          | 33                                      | 3291020     | 5280                      | 58   | 311           | 5028                     |             | -2670096                   | 4491          | 4766                           | 1830        | -503199                   | 30,12            |
| 2002     | 664                                | 559          | 9   | 328                                       | 8580          | 34                                      | 4500849     | 5280                      | 62   | 59            | 5706                     |             | -5585896                   | 4491          | 5083                           | 1895        | -1121997                  | 27,79            |
| 2003     | 664                                | 532          | _   |   | 6350          |   | 3078184     | 5280                      | _    |               | 5757                     |             | -7599160                   | 4491          | 5379                           | 1952        | -1733536                  | 33,75            |
| 2004     | 664                                | 510          | -   |   | 8239          |   | 1539422     | 5280                      | -    | 16            | 5691                     |             | -6465530                   | 4491          | 5081                           | 2003        | -1182008                  | 43,89            |
| 2005     | 664                                | 442          |     |   | 6479          |   | 3578355     | 5280                      | -    |               | 4920                     |             | -1574493                   | 4491          | 4466                           | 2225        | 55634                     | 82,06            |
| 2006     | 664                                | 407          | /   | 39:                                       | 3176          | 101                                     | 1046354     | 5280                      | ) 54 | -04           | 5541                     |             | -687042                    | 4491          | 4302<br>Total ba               | 2282        | 431352<br>years 2000-2006 | 100,79<br>324,44 |
| <u> </u> |                                    |              |     |   |               |   | -           |                           | _    |               |                          |             |                            |               |                                |             |                           |                  |
| 2007     | 4:                                 | 55           | 419 | 19 2868                                   |               | 286831 1                                |             | 010 5                     | 807  | 6088          | 51                       | 02          | -1435304                   | 4616          | 5 4781                         | 1831        | -301517                   | 8,59             |
| 2008     | 4                                  | 55           | 316 | 5   | 33864         |   | 47071818 58 |                           | 807  | 5408          | .08 430                  |             | 1716391                    | 4616          | 4196                           | 2321        | 975431                    | 49,76            |
| 2009     | 4                                  | 55           | 254 | 1   | 308754 62     |   | 620595      | 512 580                   |      | 3930          | 303                      | 36          | 5697693                    | 4616          | 3160                           | 2436        | 3547107                   | 71,30            |
| 2010     | 4                                  | 55           | 218 | 3   | 308838 73194  |   | 731946      | 510 5                     | 807  | 4023          | 41                       | 01          | 7313961                    | 4616          | 3193                           | 2378        | 3384380                   | 83,89            |
| 2011     | 4                                  | 55           | 179 |   | 3526          | 18                                      | 973226      | 523 5                     | 807  | 4224          | 42                       | 63          | 6746908                    | 4616          | 3386                           | 2392        | 2942957                   | 107,01           |
| 2012     | 4                                  | 55           | 177 | 7   | 3549          | 22                                      | 986682      | .93 5                     | 807  | 4179          | 43                       | 26          | 7041453                    | 4616          | 3358                           | 2430        | 3057976                   | 108,77           |
| 2013     | 4                                  | 55 179 35054 |     | 350540 967489                             |               | 980 5807 433                            |             | 4338                      | 4230 |               | 6212460                  | 4616        | 3489                       | 2416          | 2723785                        | 105,69      |                           |                  |
|          | Total benifits for years 2007-2013 |              |     |   |               |   |             |                           |      |               | 535,02                   |             |                            |               |                                |             |                           |                  |
| 2014     | 4 1                                | 78           | 212 | 2   | 5000          | 83                                      | -170028     | 322 4                     | 247  | 4603          | 3 43                     | 12          | -1535072                   | 3411          | 3728                           | 2436        | -772212                   | -19,31           |
| 2015     | 5 1                                | 78           | 188 | 3   | 5148          | 75                                      | -51487      | 750 4                     | 247  | 4566          | 5 42                     | 93          | -1369467                   | 3411          | 3692                           | 2510        | -705310                   | -7,22            |
| 2016     |                                    | 78           | 158 | 3 4                                       | 4749          | 57                                      | 94991       |                           | 247  |               |                          | 60          | -1587861                   |               | 3792                           | 2044        |                           | 7,13             |
| 2017     | 7 1                                | 78           | 136 | 5   | 4739          | 48                                      | 199058      | 331 4                     | 247  | 4824          | 40                       | 03          | -2309556                   | 5 3411        | 3875                           | 2117        | -982454                   | 16,61            |
| 2018     | 3 1                                | 78           | 148 | 3   |               |   | 146602      | 219 4                     | 247  | 4798          | 3 45                     | 39          | -2501082                   |               | 3975                           | 2178        |                           | 10,93            |
| 2019     | ) 1                                | 78           | 132 | 2   | 502718 231250 |   |             | 247                       | 4559 | 9 44          | 48                       | -1387915    | 5 3411                     | 3729          | 2229                           | -708964     | 21,03                     |                  |
| 2020*    | 1                                  | 78           | 141 | l   | 5027          | '18                                     | 186005      | 74 4                      | 247  | 4181          | 44                       | 48          | 295363                     | 3411          | 3531                           | 2229        | -268343                   | 18,63            |
|          |                                    |              |     |   |               |   |             |                           |      |               |                          |             |                            |               | Total be                       | enifits for | years 2014-2020           | 47,80            |

2000 - 2006

Benefits ~ 324 million, EUR Saved 999 lives Total number of injured people increased by 4532

### 2007 - 2013

Benefits ~ 535 million, EUR Saved 1443 lives Total number of injured people decreased by 8457

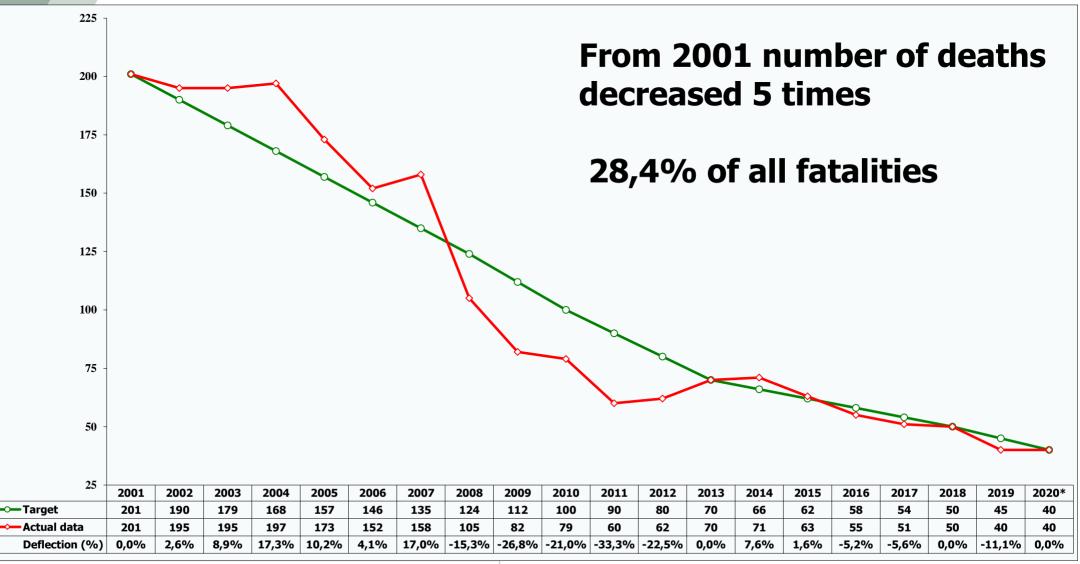
#### 2014 - 2020

Benefits ~ 47 million, EUR Saved 131 lives Total number of injured people increased by 2450

2020\* - estimation is based on 10 months statistics



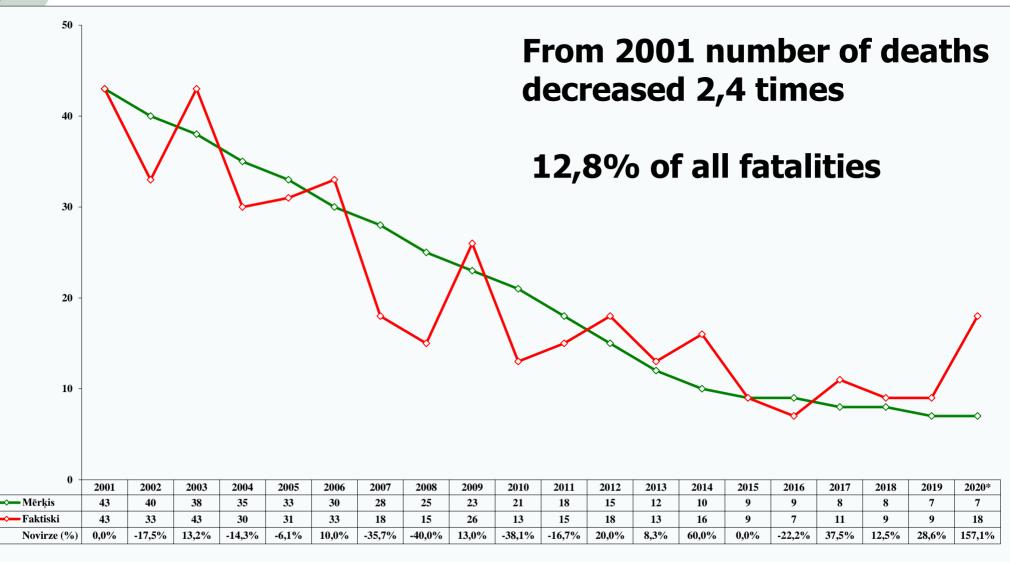
## **Ensuring safety of pedestrians**



2020\* - estimation based on 10 months statistics



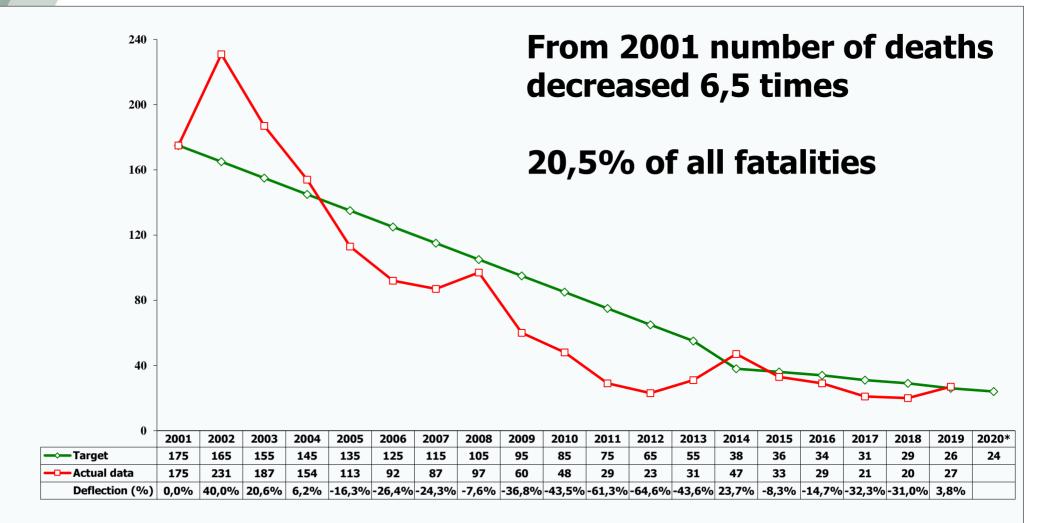
## **Ensuring safety of cyclists**



#### 2020\* - estimation based on 10 months statistics

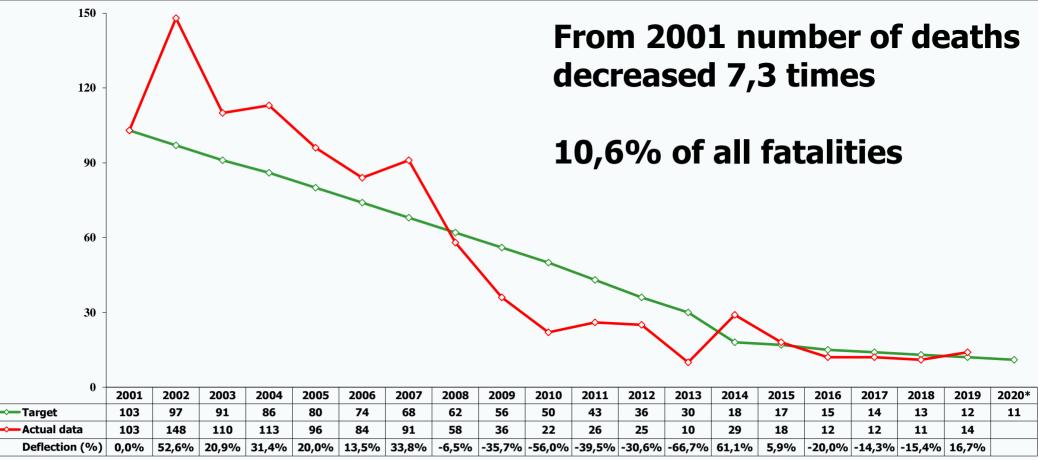


## **Ensuring the keeping of safe driving speed**





# Extermination of driving under the influence of alcohol



#### CEĻU SATIKSMES DROŠĪBAS DIREKCIJA

## **Use of helmets and implemented measures**

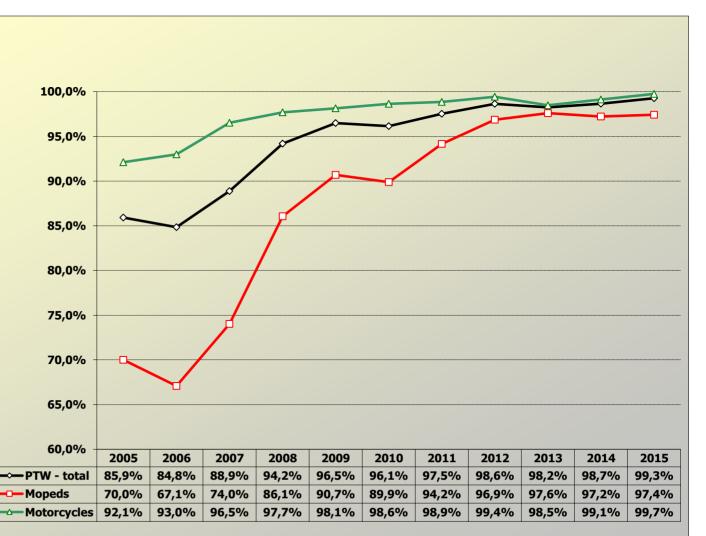
#### Fines for driving without the helmet

From 01.07.2004 - 10 LVL From 09.03.2007- 20 LVL.

**Penalty points** 

From 13.10.2006. the one penalty point are given to the riders of motorcycle for driving without the helmet.

From 1st of February, 2009 the penalty points are also recorded for riders of moped.



#### CEĻU SATIKSMES DROŠĪBAS DIREKCIJA

## **CASUALTIES BY CATEGORY OF ROAD USER IN 2019**

| Deaths        |        |           |       |        |       |        |           | Injur | ed     |          | of them Seriously injured |           |       |        |        |  |
|---------------|--------|-----------|-------|--------|-------|--------|-----------|-------|--------|----------|---------------------------|-----------|-------|--------|--------|--|
|               | Driver | Passenger | Total | 70     | 0     | Driver | Passenger | Total | 70     | <b>0</b> | Driver                    | Passenger | Total | 0      | •      |  |
| Pedestrian    |        | _         | 40    | 30,3%  |       |        |           | 794   | 17,4%  |          |                           |           | 106   | 23,0%  |        |  |
| Car           | 46     | 16        | 62    | 47,    | 47,0% |        | 928       | 2153  | 47,2%  |          | 102                       | 113       | 215   | 46,6%  |        |  |
| Other vehicle | 12     | 5         | 17    | 12,    | 9%    | 206    | 357       | 563   | 12,3%  |          | 18                        | 16        | 34    | 7,4    | 7,4%   |  |
| Bicycles      | 9      | 0         | 9     | 6,8%   |       | 607    | 6         | 613   | 13,4%  |          | 43                        | 0         | 43    | 9,3%   |        |  |
| Mopeds        | 1      | 0         | 1     | 0,8%   |       | 118    | 12        | 130   | 2,9%   | 23,0%    | 13                        | 3         | 16    | 3,5%   | 22.00/ |  |
| Motorcycles   | 1      | 0         | 1     | 0,8%   | 9,8%  | 251    | 33        | 284   | 6,2%   |          | 34                        | 5         | 39    | 8,5%   | 23,0%  |  |
| Quadricycles  | 2      | 0         | 2     | 1,5%   |       | 17     | 5         | 22    | 0,5%   |          | 5                         | 3         | 8     | 1,7%   |        |  |
| Total         | 71     | 21        | 132   | 100,0% |       | 2424   | 1341      | 4559  | 100,0% |          | 215 140 4                 |           | 461   | 100,0% |        |  |

1.Problem - Safety of cars occupants
2.Problem - Safety of pedestrians
3.Problem - Safety of cyclists



### **CASUALTIES IN 2020 (10 MONTHS STATISTICS)**

|                        |      | Deaths |       | Injured |      |        |  |  |  |
|------------------------|------|--------|-------|---------|------|--------|--|--|--|
|                        | 2019 | 2020   | %     | 2019    | 2020 | %      |  |  |  |
| Passenger cars         | 54   | 51     | -5,6% | 1810    | 1699 | -6,1%  |  |  |  |
| Pedestrians            | 31   | 31     | 0,0%  | 610     | 537  | -12,0% |  |  |  |
| Cyclists (scooterists) | 5    | 16     |       | 559     | 608  | 8,8%   |  |  |  |
| Riders of motorcycle   | 1    | 6      |       | 275     | 238  | -13,5% |  |  |  |
| Riders of moped        | 1    | 2      |       | 125     | 120  | -4,0%  |  |  |  |
| Quadricycles           | 1    | 1      |       | 19      | 29   | 52,6%  |  |  |  |
| Other                  | 12   | 5      |       | 471     | 317  | -32,7% |  |  |  |
| Total                  | 105  | 112    | 6,7%  | 3869    | 3548 | -8,3%  |  |  |  |



## **Main conclusions**

- The road safety in Latvia is improved during last 30 years;
- Despite of achievements the level of road safety in Latvia is worse than the average level of European Union;
- According to statistics the road safety situation has worsened in 2020.



# Thank you for attention!