Road safety management and coordination.
Crash data as a basis for determining effective policy measures, allocation of resources and measuring the progress.
Quantitative road safety targets require better structured approach to road safety management:

- Data-driven problem identification
- Development of evidence-driven countermeasure packages formalised in a Strategy
- Transparent lines of institutional accountability

- Realistic Targets
- Road Safety Strategy and Road Safety Action Plan
- Monitoring Progress

THE IMPORTANCE OF HIGH-QUALITY ROAD SAFETY DATA
ROAD SAFETY MANAGEMENT

What is the problem?  CURRENT SITUATION

Where is the problem?  FIELD OF WORK

How to manage the problem?  LOCATION

DESIRED SITUATION
INDICATORS OF ROAD SAFETY WORK

INDICATOR: where we are, where we are going and how far we are from the goal

Indicators related to the road safety activities in relation to the PROBLEMS IN THE AREA

Indicators related to the ENGAGEMENT OF HUMAN RESOURCES

Indicators related to the ACHIEVED RESULTS

Indicators related to MEASURING PERFORMANCE OF ROAD SAFETY WORK - BENCHMARKING
Coordination at national level

Leading Agency???
National Road Safety Council???

Government
Ministry in charge for Transport
Ministry of Interior – Traffic police
Ministry of Health
Ministry of Education
Public Agency for State Roads
Local communities (cities and municipalities)
National office for statistics
Republic geodetic authority

- Road Safety Strategy and Road Safety Action Plan
- Road Safety ROADMAP
- Legal act(s) important for activities of road safety
High political commitment:
Declaration on road safety to be endorsed on highest political level during the next TEN-T Days in Ljubljana on April, 27th 2018

EaP TARGET: 25% reduction in road deaths by 2020 compared to 2016

National EaPCs road safety strategies/targets

Evaluation of road safety situation in EaPCs basis of:

- the number of fatalities,
- the number of fatalities per 100 000 population,
- the number of fatalities per 10 000 vehicles.
MONITORING OF THE ROAD SAFETY STATUS

The number of road accidents with casualties

The number of road deaths
EC TARGET: Halving the overall number of road deaths in the European Union by 2020 starting from 2010!

National road safety strategies targets

Evaluation of road safety situation in EaPCs basis of:

- the number of fatalities,
- the number of fatalities per 100,000 population,
- the number of fatalities per 10,000 vehicles.
The SEETO Regional Participants are still far away from reaching the target of European Commission!

In order to achieve the EC goal, the reduction in road deaths by even 41.3% by 2020 is needed, comparing to 2015.
European Commission objectives

### Benchmarking as a part of road safety management

<table>
<thead>
<tr>
<th>EC 7 objectives vs UN 5 Pillars</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Traffic safety management</td>
</tr>
<tr>
<td>2. Vehicle safety</td>
</tr>
<tr>
<td>3. Roads</td>
</tr>
<tr>
<td>4. Road users</td>
</tr>
<tr>
<td>5. Post crash activities</td>
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</tbody>
</table>

#### European Commission objectives

<table>
<thead>
<tr>
<th>Level 1 EC pillars – objectives / indicators</th>
<th>Level 2 EC pillars – indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.3 Objective no 1: Improve education and training of road users</td>
<td></td>
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<tr>
<td>14.3 Objective no 2: Increase enforcement of road rules</td>
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<tr>
<td>14.3 Objective no 3: Safer road infrastructure</td>
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<tr>
<td>14.3 Objective no 4: Safer vehicles</td>
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<tr>
<td>14.3 Objective no 5: Promote the use of modern technology to increase road safety</td>
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<tr>
<td>14.3 Objective no 6: Improve emergency and post-injuries services</td>
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<tr>
<td>14.3 Objective no 7: Protect vulnerable road users</td>
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</tr>
</tbody>
</table>

#### EC 7 objectives

1. Strategic basis
2. The quality of pre-test learning
3. The quality of driving licence test
4. The quality of post-licensing training (professional drivers)
5. The quality of post-licensing training (drivers with disabilities and over 60)

#### UN 5 Pillars

1. Cost-benefit exchange of information in the field of road safety
2. Enforcement campaigns
3. Vehicle technology to assist enforcement
4. National enforcement objectives
5. Strategic basis
6. Legal basis
7. Tools usage
8. Road Safety Infrastructure Projects
9. Strategic basis for safe vehicles
10. Vehicles of today
11. Vehicles of tomorrow
12. Strategic basis for ITS
13. ITS Directive
14. ITS for Enforcement
15. Other ITS
16. Emergency services
17. Monitoring of road accidents and consequences
18. Socio-economic cost of road accidents and definitions
19. Powered two-wheelers (PTWs)
20. Pedestrians, cyclists
21. Elderly people and people with disabilities
22. Children
UN 5 Pillars – Benchmarking based on UN 5 pillars

**Benchmarking as a part of road safety management**

1. **EFFICIENT ROAD SAFETY MANAGEMENT**
2. **SAFER ROADS**
3. **SAFER VEHICLES**
4. **SAFER ROAD USERS**
5. **POST CRASH CARE**
IMPORTANCE OF ROAD ACCIDENT DATA – Benchmarking and data analysis – Example from Serbia

Objective No. 7 – Protect vulnerable road users

OVERALL IMPLEMENTATION OF EU 7 STRATEGIC OBJECTIVES FOR REPUBLIC OF SERBIA

Serbia - Trends for Vulnerable road users

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<tr>
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<tbody>
<tr>
<td>Pedestrian</td>
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<td>158</td>
<td>170</td>
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<tr>
<td>Cyclists</td>
<td>128</td>
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<td>130</td>
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<tr>
<td>Children</td>
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<td>50</td>
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<td>40</td>
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<tr>
<td>Elderly people</td>
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<td>10</td>
<td>7</td>
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<tr>
<td>Motorized two-wheelers</td>
<td>142</td>
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<td>142</td>
</tr>
</tbody>
</table>

Importance of Road Accident Data

- Benchmarking and data analysis

Example from Serbia

Fatalities 2013: 175
Fatalities 2014: 158
Fatalities 2015: 170
Fatalities 2016: 146

Improve education and training of road users
Increase enforcement of road rule
Safer road infrastructure
Safer vehicles
Promote the use of modern technology to increase road safety
Improve emergency and post-injuries services

Protect vulnerable road users

- 75%
- 50%
- 50%
- 45%
- 45%
- 31%
- 52%
- 35%
MONITORING BASED ON BENCHMARKING AND ROAD ACCIDENT DATA – Example from SEETO countries
CONCLUSION

Understanding the situation

Directing and planning of activities

Better organization of road safety work

IMPROVEMENT OF ROAD SAFETY DATA COLLECTION

QUALITY ROAD SAFETY DATABASE

IMPROVEMENT OF ROAD SAFETY WORK
THANK YOU FOR YOUR ATTENTION!

Mariya Ivchenko

E mail: mivchenko@worldbank.org