## The DANUBE REGION TRANSPORT DAY 2020 Sustainable Mobility and the Danube macro-

region

# STRATEGIC APROACH IN URBAN ROAD SAFETY MANAGEMENT – BELGRADE CASE STUDY -

15th December 2020

Prof. Krsto Lipovac, PhD Faculty of transport and traffic engineering Belgrade university

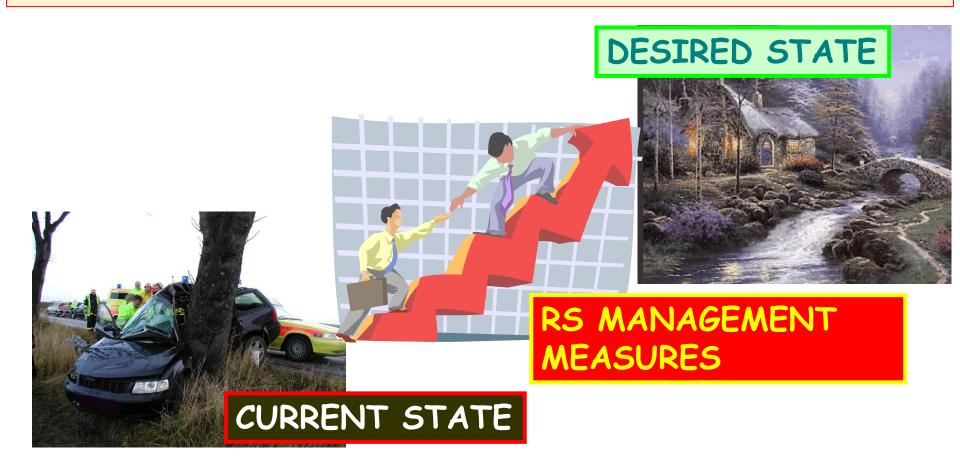
## **OVERVIEW OF THE PRESENTATION**

- 1. What is URSM (urban road safety management)?
- 2. Preconditions for successful URSM
- 3. Monitoring current state of URS: traditional and modern approach
- 4. Defining desired state of URS: traditional and modern approach (2)
- 5. Three different types of the cities
- 6. Road safety system in Belgrade
- 7. RSP Indicators in Belgrade
- 8. RS targets in Belgrade (2)
- 9. Progress monitoring in Belgrade

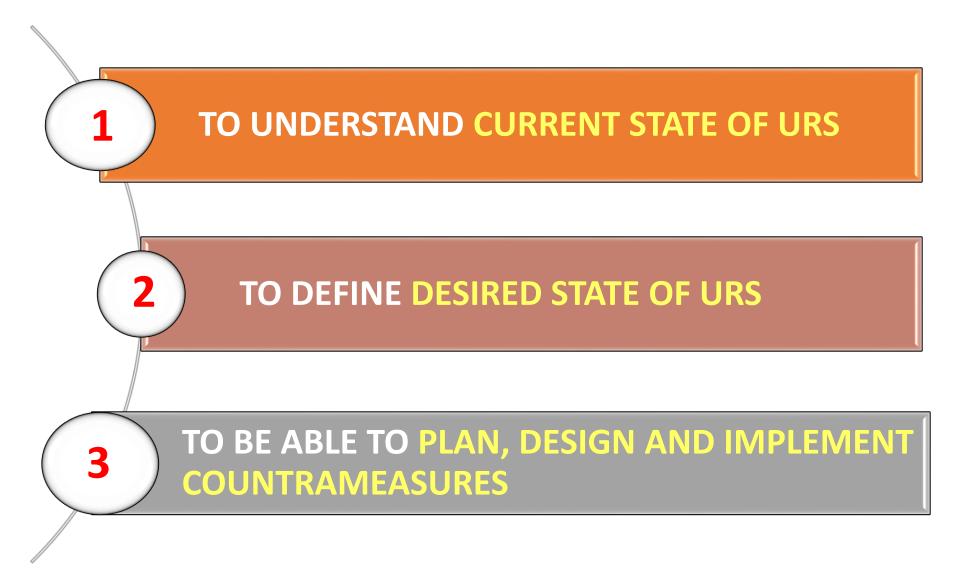
10. Modern approach of strategic URSM / conclusions 2

#### WHAT IS URSM (URBAN ROAD SAFETY MANAGEMENT)?

URSM is the process of monitoring **Current state** of URS, defining **desired state** and implementing **measures** aimed to move current state to the target state of URS.



## PRECONDITIONS FOR SUCCESSFUL URBAN ROAD SAFETY MANAGEMENT



ANG C Z

#### **TRADITIONAL APPROACH**

Only FINAL OUTCOMES: ROAD
CRASHES AND CONSEQUENCES

#### **MODERN APPROACH**

## • RS SISTEM

- EXISTANCE, CAPACITY AND INTEGRITY
- OF THE INSTITUTIONS AND INDIVIDUALS
- RS **CULTURE** (KNOWLADGE, ATTITUDES, AWAIRNES)
- RS PERFORMANCE INDICATORS (BEHAVIOR)

 IT IS NECESSERY TO HAVE REGULAR SURVEY OF THE SYSTEM, ATTITUDES, RSP INDICATORS, ROAD CRASHES AND CONSEQUENCIES

#### TRADITIONAL APPROACH

ONLY FINAL OUTCOMES: ROAD
CRASHES AND CONSEQUENCES

#### **MODERN APPROACH**

## **RS SISTEM**

- EXISTANCE, CAPACITY AND INTEGRITY
- OF THE INSTITUTIONS AND INDIVIDUALS
- RS CULTURE (BELIEFS, KNOWLADGE, ATTITUDES, AWAIRNES)
- RS PERFORMANCE INDICATORS (BEHAVIOR)

## TRADITIONAL APPROACH

• ONLY FINAL TARGETS (LAST YEAR)

#### **MODERN APPROACH**

#### FINAL TARGETS

┿

• RS SYSTEM, ATTITUDES, RSP INDICATORS, ROAD CRASHES

INTERMEDIATE TARGETS / FROM YEAR TO YEAR

#### TO **QUANTIFY** FINAL AND INTERMEDIATE TARGETS!!!

## THREE DIFFERENT TYPES OF THE CITIES IN TERMS OF URSM

- 1. CITIES WHICH ESTABLISH RS SYSTEM FOR SUCCESFULL RSM (Oslo)
- 2. CITIES WHICH TRY TO MANAGE ROAD SAFETY, BUT... (Belgrade)
- 3. CITIES WHICH DON'T TRY TO MANAGE ROAD SAFETY (Many cities all over the world)

# URS HAS TO BE BASED ON THE EVIDENCE AND ON THE SCIENCE!

#### **ROAD SAFETY SYSTEM IN BELGRADE**



#### Road safety budget: 2-3 milion euros

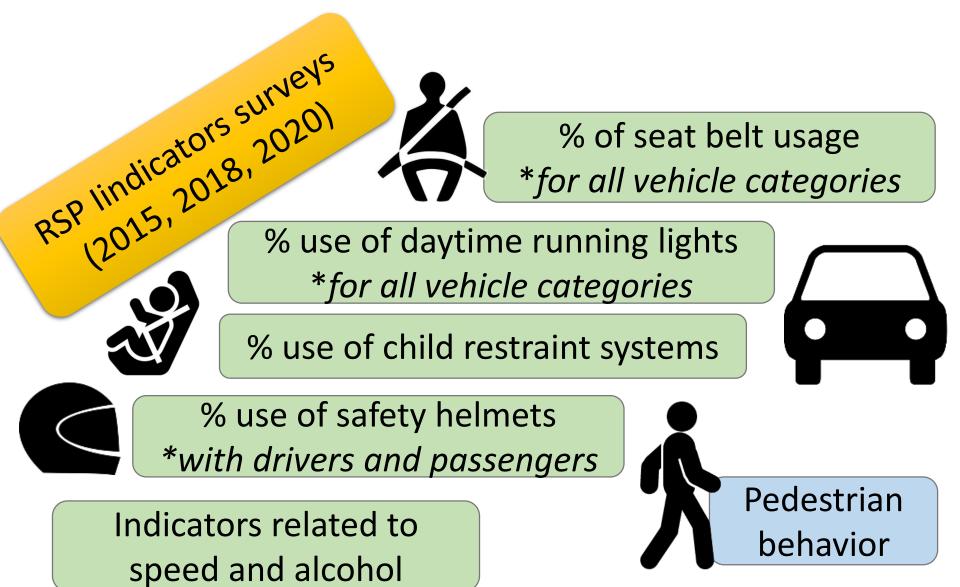
## Institutions

- Road Safety Council
- Secretariat for Transport
- Traffic police
- Schools,
- Universities,
- 17 municipalities....

## **RS** Documents

- Road safety strategy
- Road safety action plan
- Annual Road safety program...





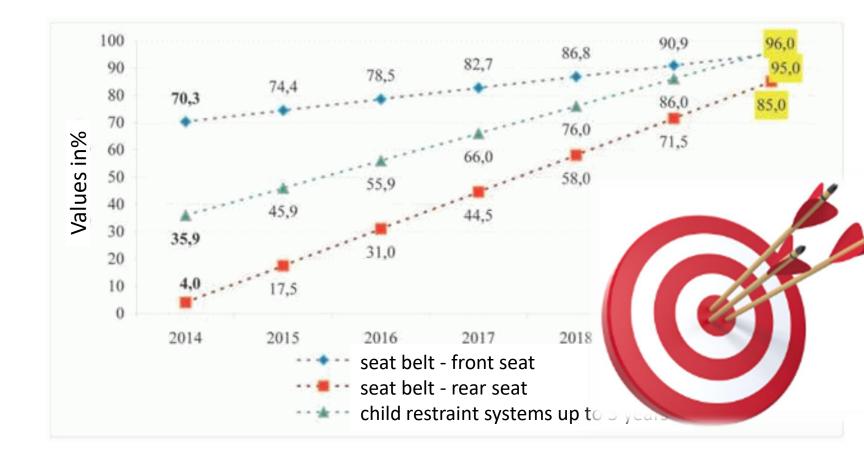
## **RS TARGETS IN BELGRADE**

- To improve RS system
  - Improve capacity (No of new employees ...)
  - Improve integrity (No of trainings ...)
- To improve attitudes about RS and risk in traffic (Numbers)
- To improve RS indicators (Numbers ...)
- To decrease No of deaths and serious injuries (Numbers)

Final targets (2020)

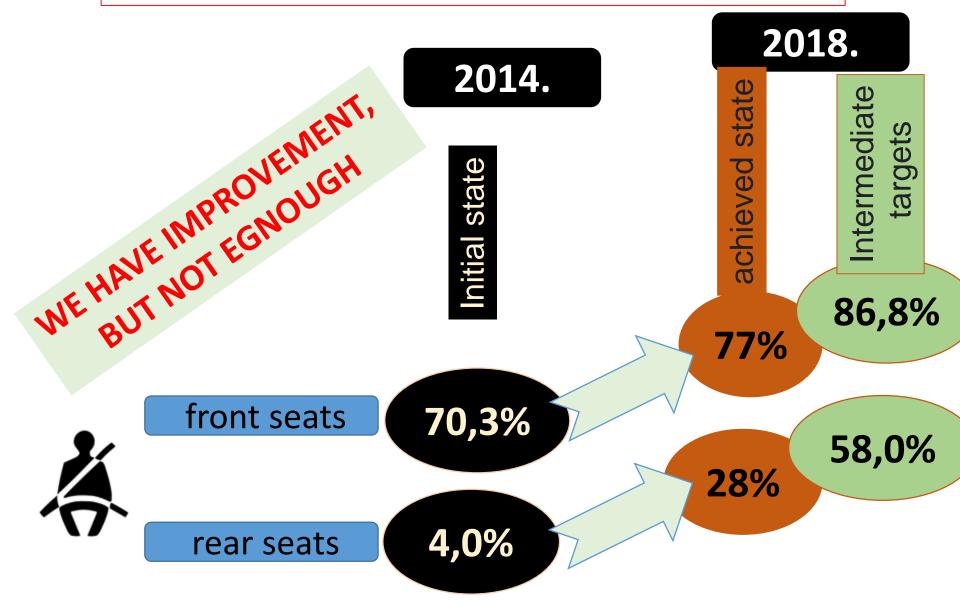
Intermediate targets (2016, 2017, 2018, 2019)

## **RS TARGETS (RSP INDICATORS)**



The Road Safety Strategy also defines the intermedium and final goals related to the most important indicators

## **EVERY YEAR PROGRESS MONITORING AND EVALUATION COUNTERMEASURES**



# MODERN APPROACH OF STRATEGIC URSM - CONCLUSIONS -

**Road safety based on science!** 

**RS** based on data

**Targets in terms of:** 

- URS system,
- awareness and attitudes,
- **RSP indicators**

Targets in terms of final outcomes:

- deaths and
- serious injuries

**Final and intermediate targets** 

**Quantified targets!** 

**Every year evaluation countermeasures!** 





Prof. Krsto Lipovac, PhD k.lipovac@sf.bg.ac.rs