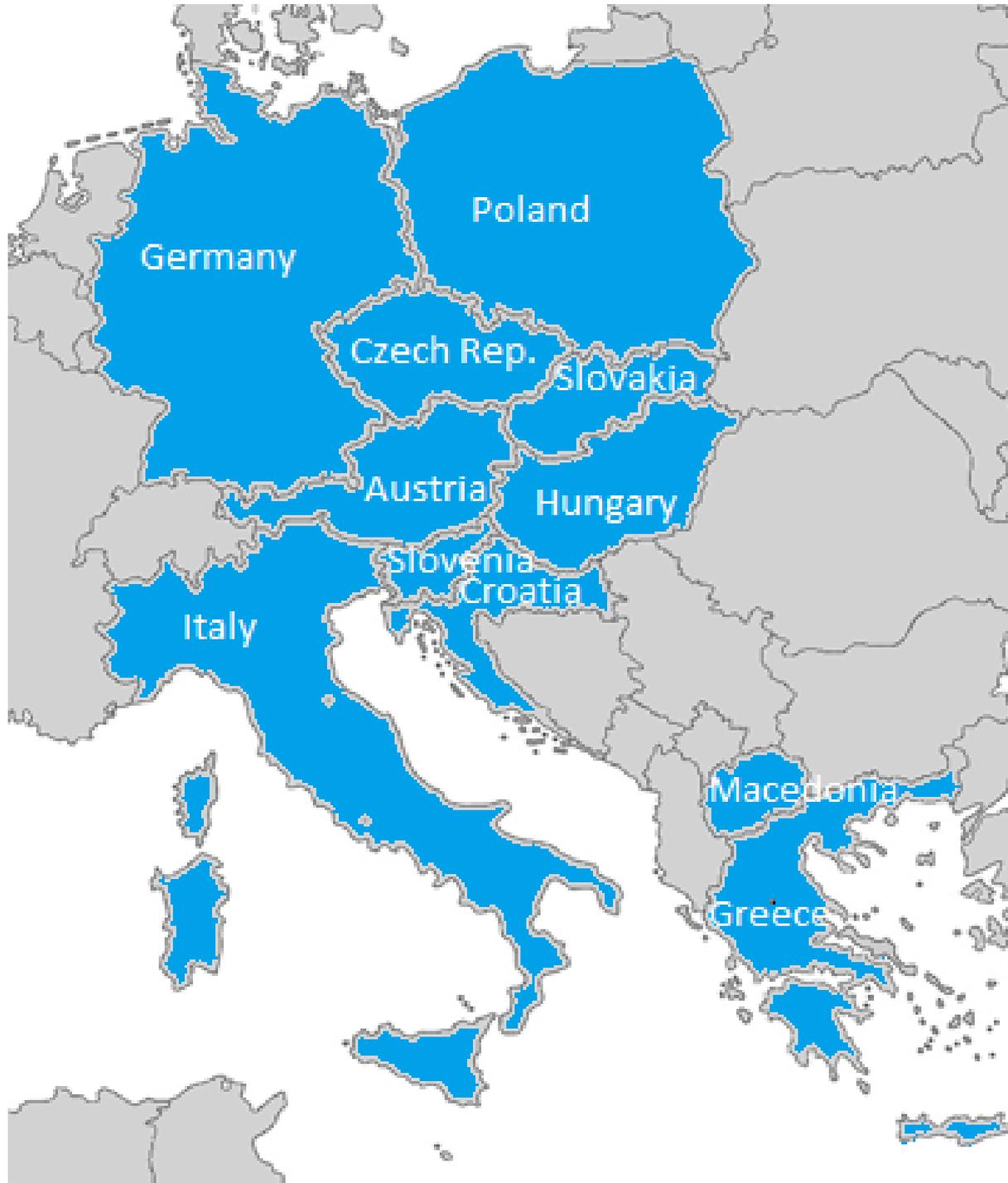


**A NEW ROAD SAFETY MANAGEMENT  
STANDARD ISO 39001 –  
IMPLEMENTATION IN REPUBLIC OF  
MACEDONIA**

**Prof. d-r Verica Danchevska & all**

**UNIVERSITY ST. KLIMENT OHRIDSKI - BITOLA  
Faculty of Technical Sciences Bitola  
Department of traffic and transport  
Republic of Macedonia**





# Heraclea Lyncestis







# INTRODUCTION

- ▶ SAFETY IN ROAD TRAFFIC IS ONE OF THE MAIN TASKS OF ANY SOCIETY AND INVOLVES THE SAFETY OF ALL ROAD USERS
- ▶ SPECIAL ATTENTION IS PAID SAFETY THE YOUNGEST ROAD USERS INCLUDING:
- ▶ PRESCHOOL CHILDREN AND
- ▶ STUDENTS FROM BASIC SCHOOLS

# INTRODUCTION

- ▶ RESEARCH PROBLEM IS VERY COMPLEX AND REQUIRES SYSTEMIC AND SYSTEMATIC APPROACH.
- ▶ IT IS NECESSARY TO CORRELATE THREE FACTORS:
  - ▶ - IMPACT ON THE DRIVER into TRAFFIC ACCIDENTS
  - ▶ IMPACT OF THE VEHICLE into TRAFFIC ACCIDENTS
  - ▶ IMPACT ON THE ROAD into TRAFFIC ACCIDENTS

# INTRODUCTION

- ▶ **THE WORLD IS FACING GREAT CHALLENGES WHEN IT COMES TO PREVENTION OF ROAD TRAFFIC INJURIES. ACCORDING TO THE GLOBAL STATUS REPORT ON ROAD SAFETY, ROAD TRAFFIC INJURY WAS THE NINTH LEADING CAUSE OF DEATH IN THE BEGINNING OF THE NEW MILLENNIUM, AND IT HAS BEEN ESTIMATED THAT, IF CURRENT TRENDS CONTINUE, ROAD TRAFFIC INJURIES WILL BECOME THE FIFTH CAUSE OF DEATH BY 2030**

# Vision ZERO Initiative-No traffic accident- Sweden



**1997**

**“No one shall be killed  
or seriously injured within  
the road traffic system.”**

# PLAN-DO-CHECK-ACT MODEL

## PLAN

- Initiating the QMS
- Understanding the organisation
- Analyze the existing system
- Leadership and project approval
- QMS scope
- Quality policy
- Risk assessment
- Planning of product realisation

## DO

- Organizational structure
- Document management
- Operations management
- Training and awareness
- Communication
- Product requirements, design and purchasing process
- Product realization and

## CHECK

- Monitoring and measurement
- Internal audit
- Management review

## ACT

- Treatment of non conformities
- Continual improvement

# **SAFETY MANAGEMENT SYSTEM AS A REQUIRED TOOL FOR IMPLEMENTING AND MAINTAINING THE TRAFFIC SAFETY**

**THIS INTERNATIONAL STANDARD IS APPLICABLE TO ANY ORGANIZATION THAT WISHES TO:**

- ▶ ESTABLISH, IMPLEMENT, MAINTAIN AND IMPROVE A MANAGEMENT SYSTEM.**
- ▶ EVALUATES THE ACCIDENT NUMBERS, NUMBERS OF KILLED AND INJURED PERSONS.**
- ▶ PROVIDES A CONTINUOUS IMPROVEMENT OF THE TRAFFIC SAFETY.**
- ▶ OBSERVES AND EVALUATES EVENTS, IN CONNECTION WITH THE ROAD TRAFFIC SAFETY.**



# **SAFETY MANAGEMENT SYSTEM AS A REQUIRED TOOL FOR IMPLEMENTING AND MAINTAINING THE TRAFFIC SAFETY**

- ▶ **TRAFFIC VOLUME AND TRAFFIC MILEAGE BY VEHICLE AND ROAD USER TYPE**
- ▶ **VOLUME OF PRODUCT AND/OR SERVICE PROVIDED BY THE ORGANIZATION.**
- ▶ **THE SAFE PLANNING, DESIGN, OPERATION AND USE OF THE ROAD NETWORK.**
- ▶ **USE OF PERSONAL SAFETY EQUIPMENT ESPECIALLY CONSIDERING SEAT BELTS, MOTORCYCLE HELMETS, ETC.**
- ▶ **USE OF APPROPRIATE ROADS DEPENDING ON VEHICLE TYPE, USER, TYPE OF CARGO AND EQUIPMENT**
- ▶ **USING SAFE DRIVING SPEED ALSO CONSIDERING VEHICLE TYPE, TRAFFIC AND WEATHER CONDITIONS**



# **SAFETY MANAGEMENT SYSTEM AS A REQUIRED TOOL FOR IMPLEMENTING AND MAINTAINING THE TRAFFIC SAFETY**

- ▶ **FITNESS OF DRIVERS ESPECIALLY CONSIDERING FATIGUE, DISTRACTION, ALCOHOL AND DRUGS**
- ▶ **THE SAFE ENTRY AND EXIT OF VEHICLES AND ROAD USERS TO THE ROAD NETWORK**
- ▶ **APPROPRIATE AUTHORIZATION TO DRIVE/RIDE THE CLASS OF VEHICLES BEING DRIVEN/RIDDEN**
- ▶ **REMOVAL OF UNFIT VEHICLES AND DRIVERS/RIDERS FROM THE ROAD NETWORK**
- ▶ **POST CRASH RESPONSE AND FIRST AID, EMERGENCY, POST CRASH RECOVERY AND REHABILITATION**

# ISO 39001- REQUIREMENTS AND GOOD PRACTICES

ISO 39001 CONCERNS THE PRODUCTION OF ROAD SAFETY IN A VARIETY OF ORGANISATIONAL CONTEXTS. IT SEEKS TO BE APPLICABLE TO PUBLIC AND PRIVATE ORGANISATIONS THAT INTERACT WITH ROAD SAFETY THROUGH:

- ▶ THE TRANSPORTATION OF GOODS AND PEOPLE;
- ▶ THE OPERATION OF FACILITIES THAT GENERATE DEMAND FOR TRANSPORT;
- ▶ PERSONNEL WHO ARE WORKING IN THE ROAD TRANSPORT SYSTEM;
- ▶ THE DESIGN, BUILDING, OPERATION AND MAINTENANCE OF ROADS AND ROAD ENVIRONMENTS;
- ▶ THE DESIGN AND PRODUCTION OF CARS, TRUCKS AND OTHER ROAD VEHICLES; AND
- ▶ THE PROVISION OF EMERGENCY MEDICAL ASSISTANCE TO CRASH VICTIMS.



# **ISO 39001- REQUIREMENTS AND GOOD PRACTICES**

**THE REQUIREMENTS OF ISO STANDARD 39001 ARE DIVIDED INTO THE FOLLOWING BROAD CATEGORIES:**

- ▶ CONTEXT**
- ▶ LEADERSHIP**
- ▶ PLANNING**
- ▶ SUPPORT**
- ▶ OPERATION**
- ▶ PERFORMANCE EVALUATION**

# CONTEXT

- ▶ **THE FIRST REQUIREMENT OF ISO STANDARD 39001 IS AN UNDERSTANDING OF THE ORGANIZATION SO THAT ITS ROLE IN THE ROAD TRAFFIC SYSTEM IS UNDERSTOOD, AS WELL AS ITS ASSOCIATED PROCESSES ACTIVITIES AND FUNCTIONS. THIS IS THEN FOLLOWED BY UNDERSTANDING THE NEEDS OF STAKEHOLDERS AND THE SCOPE OF THE RTS MANAGEMENT SYSTEM**

# LEADERSHIP

- ▶ **‘TOP MANAGEMENT’ DEMONSTRATES LEADERSHIP AND COMMITMENT BY, AMONGST OTHER THINGS, ENSURING POLICY AND OBJECTIVES ARE COMPATIBLE WITH THE STRATEGIC DIRECTION, AND ENSURING THE INTEGRATION OF SAFE SYSTEM INTO THE ORGANIZATION’S BUSINESS PROCESSES. IN ADDITION, IT IS NECESSARY TO ENSURE THAT RTS POLICY IS APPROPRIATE TO THE PURPOSE OF THE ORGANIZATION.**

# PLANNING

- ▶ **REQUIRES THE ORGANIZATION TO FOLLOW A PROCESS TO REVIEWS ITS CURRENT RTS PERFORMANCE, AND IDENTIFY RISKS AND OPPORTUNITIES.**

# SUPPORT

- ▶ **COVERS THE AREAS OF COORDINATION OF ACTIVITIES, ENSURING THAT SUFFICIENT RESOURCES ARE PROVIDED AND THAT THOSE RESOURCES ARE EQUIPPED WITH THE REQUIRED COMPETENCIES. IN ADDITION, ALL MEMBERS OF THE ORGANISATION NEED TO BE AWARE OF THE RTS POLICY, THEIR ROLE IN IMPLEMENTING IT, AND THE IMPLICATIONS OF NOT CONFORMING.**

# OPERATION

- ▶ **INCLUDES THE ORGANISATION'S RESPONSE TO ACTUAL DEATH AND SERIOUS INJURIES CAUSED BY ROAD TRAFFIC CRASHES, OR BY OTHER ROAD TRAFFIC INCIDENTS IN WHICH THE ORGANIZATION IS INVOLVED.**

# PERFORMANCE EVALUATION

- ▶ **DETERMINES WHAT NEEDS TO BE MONITORED AND MEASURED, THE METHOD OF EVALUATION, WHEN IT IS CARRIED OUT, AND WHEN RESULTS ARE ANALYSED AND PUBLISHED.**

# OPERATION

- ▶ **INCLUDES THE ORGANISATION'S RESPONSE TO ACTUAL DEATH AND SERIOUS INJURIES CAUSED BY ROAD TRAFFIC CRASHES, OR BY OTHER ROAD TRAFFIC INCIDENTS IN WHICH THE ORGANIZATION IS INVOLVED.**

# CONCLUSION

- ▶ **TRAFFIC IS NECESSARY FOR MODERN LIFESTYLE**
- ▶ **TRAFFIC ACCIDENTS ARE THE GREATEST EVIL IN MODERN SOCIETY, AND IT IS NECESSARY TO REDUCE THE INJURED VICTIMS TO A MINIMUM**
- ▶ **MANAGEMENT SAFETY IN TRAFFIC IS A LONG, COMPLEX AND CONTINUOUS PROCESS**



- ▶ **ISO 39001:2012 HAS BEEN DEVELOPED WITH THE SUPPORT OF EXPERTS FROM 45 COUNTRIES AND 11 LIAISON ORGANIZATIONS AND THIS ORGANIZATION INNOVATION IS NOW WAITING FOR ITS DIFFUSION AND IMPLEMENTATION OVER THE WORLD. THIS IS INDEED A GREAT CHALLENGE AND EXPERIENCE FROM IMPLEMENTATION OF ORGANIZATIONAL INNOVATIONS HAS SHOWN THAT IMPLEMENTATION IS NOT AN EASY TASK**

# **STANDARD ISO 39001 - IMPLEMENTATION IN REPUBLIC OF MACEDONIA**

- ▶ **THE IMPLEMENTATION OF ISO 39001 IN THE COUNTRY IS AT AN EARLY STAGE. AUTHORITY FOR ISO STANDARDS IN OUR COUNTRY IS THE STANDARDIZATION INSTITUTE OF THE REPUBLIC OF MACEDONIA.**
- ▶ **ACCORDING TO THE INSTITUTE FOR STANDARDIZATION SITUATION IS AS FOLLOWS: THE STANDARD ISO 39001 IS NOT NATIONALIZED YET, BUT IT CAN BE PURCHASED BY USERS AS AN INTERNATIONAL STANDARD. THE PRICE OF THIS STANDARD WOULD BE LOWER IF IT IS NATIONALIZED.**

# **STANDARD ISO 39001 - IMPLEMENTATION IN REPUBLIC OF MACEDONIA**

- ▶ **TODAY'S IN THE COUNTRY STILL HAS NOT ANY COMPANIES IMPLEMENTING THIS STANDARD. THAT MEANS THAT NEED MORE CAMPAIGN OF MANAGEMENT TRAFFIC SAFETY AND REDUCING TRAFFIC ACCIDENTS.**
- ▶ **YOU SHOULD ALSO TRANSPORT COMPANIES DEALING WITH TRANSPORTATION OF PASSENGERS AND GOODS TO BE LEADING ENTITIES IN THE IMPLEMENTATION OF ISO 39001 IN THE COUNTRY.**

# FOR END

- ▶ **MACEDONIA IS A COUNTRY IN TRANSITION THAT CAN NOT SEPARATE THE FINANCES ABOUT PREVENTION IN ROAD SAFETY AS DEVELOPED COUNTRIES.**
- ▶ **THE EMPHASIS FOR SOLVING THIS PROBLEM SHOULD BE PUT MEASURES IN THE AREA OF CONTINUOUS EDUCATION OF ALL TARGET GROUPS - FROM SMALLEST TO OLDERS GROUP**
- ▶ **A HOLISTIC APPROACH TO SOLVING THE PROBLEM WILL LEAD TO INCREASED TRAFFIC CULTURE AND RESPECT FOR TRAFFIC RULES AND REGULATIONS.**
- ▶ **INCREASED CAREFULLY PARTICIPATION IN THE TRAFFIC WILL GO TO REDUCING THE NUMBER OF ACCIDENTS AND THEIR CONSEQUENCES.**

# THANK YOU FOR YOUR ATTENTION

**Prof. d-r Verica Danchevska**

Faculty of Technical Sciences Bitola  
Republic of Macedonia

[verica.dancevska@tfb.uklo.edu.mk](mailto:verica.dancevska@tfb.uklo.edu.mk)