Developing Masters on Road Safety and National Road Safety Observatory

CENTRO DI RICERCA
PER IL
TRASPORTO E LA LOGISTICA

SAPIENZA
UNIVERSITÀ DI ROMA

3rd International Conference "Transport Research and Knowledge Transfer in Road Safety"

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Summary

- Masters on Road Safety in Universities
- National Road Safety Observatory
- The Be-Safe project
- Traffic accident databases and information system in Cameroon

MASTERS ON ROAD SAFETY IN UNIVERSITIES

Why a Masters on Road Safety

- Need to strengthen the role of research to start managing road safety policy on an evidence-base.

- Transferring the most recent knowledge and good practices developed in Europe in the field of road safety.
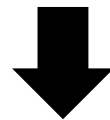
Local Universities are the key actors to start this process.

Creating Road safety expertise

The main ambition of Masters is to license road safety professionals able to work as:

- **Experts for Public Administrations** (focusing on designing strategies and action plans, road safety policies and assessment)

- **Experts for transport companies** (dealing with road safety management, in-depth analysis, road safety audits and inspections, risk assessment of vehicle fleets and drivers, mobility management)

- **Consultants**

- **Researchers**

NATIONAL ROAD SAFETY OBSERVATORY

What is a National Road Safety Observatory

- A web portal aiming at providing a data communication channel on traffic accidents and road safety policies based on the model of European Commission web site ERSO

- www.erso.eu

ERSO – European Road Safety Observatory

Why a Road Safety Observatory

- To centralize information about road accidents, fatalities, injuries, exposure, road user behaviours and road safety interventions

- To provide official road safety information for public administrations, scientific agencies, press and other relevant stakeholders

- To increase participation to road safety decision making

Aims of Road Safety Observatory

- Periodically informing about:
  - Updated official road accident statistics
  - National road safety policy and interventions
  - Effects of the implemented measures
- Asking opinions from citizens
- Providing tools to inform road administrations about existing safety issues

Subjects to be involved

- Potential interested government institutions:
  - Ministry of Transport
  - Ministry of Health
  - Ministry of the Interior
- Istitutions responsible for developing and managing the Observatory:
  - Local Universities

THE BE-SAFE PROJECT

The Be-Safe project (Belarusian Road Safety Network)

- Co-founded by the European Union through the Erasmus Plus Programme

- Action: Capacity building in the field of Higher Education – Curricula development

- Project Duration: 36 months

The consortium

- Programme Countries Universities:
  - *Project coordinator*: Research Centre for Transport and Logistics (CTL) of Sapienza University of Rome
  - Loughborough University
  - National Technical University of Athens (NTUA)
- Partner Country Universities:
  - Belarusian National Technical University (BNTU),
  - Belarusian State University of Transport (BelSUT),
  - Brest State Technical University (BrSTU) Belarus
 - State Economic University (BSEU).

The Rationale of Be-Safe

- Fatality rate in Belarus is approximately double compared to the average one in EU

- 25% reduction of fatalities in Belarus in 2001-2010, compared to a 43% reduction in the EU 27

- EC paid a strong attention to road safety in the first decade of the new century, supporting and funding many research projects, whose results could be exchanged with the Belarusian scientific community

Road fatalities per million of inhabitants for 2010 and 2013
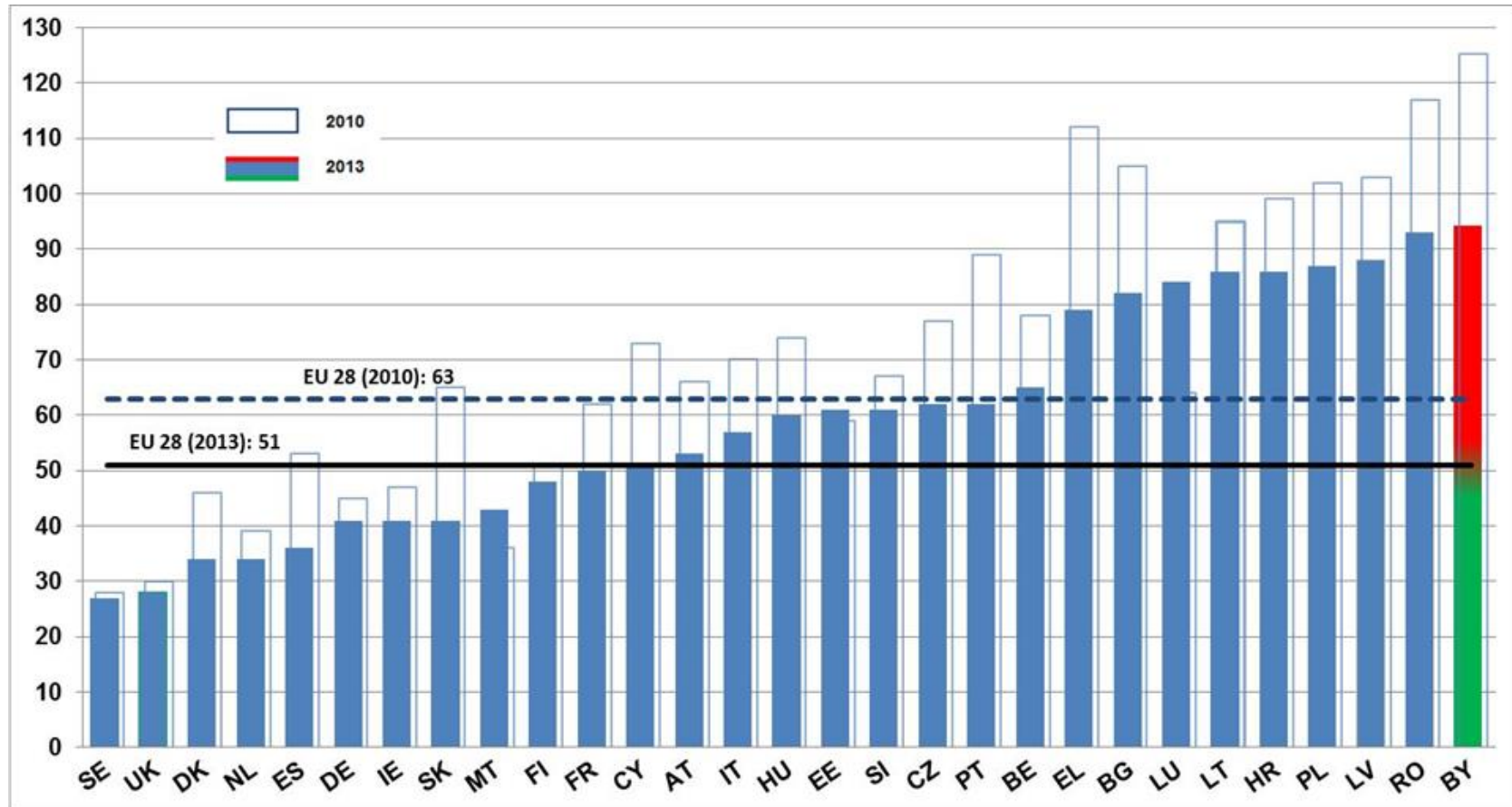
Percentage Change in Road Fatalities Between 2001 and 2010
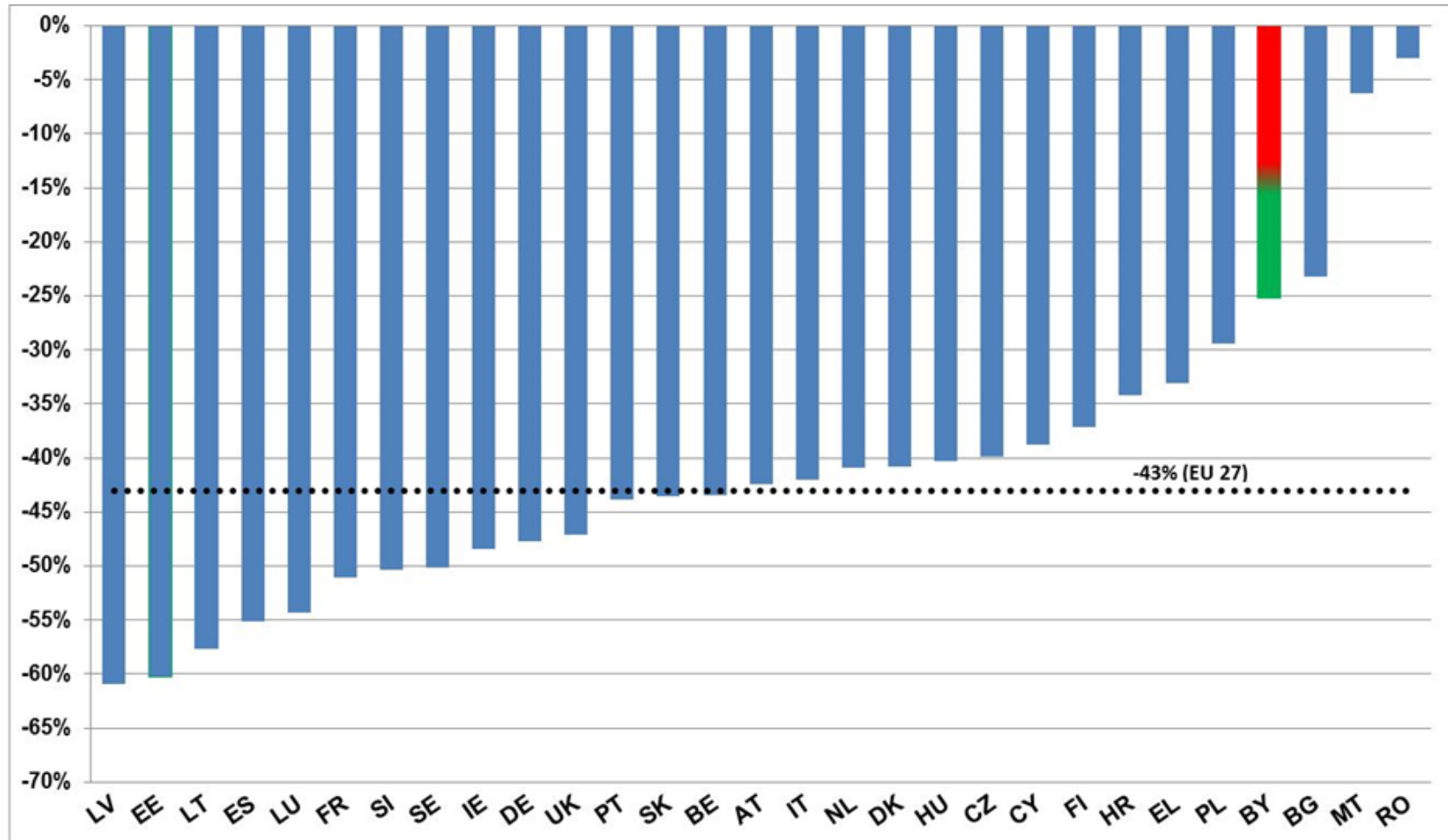
The institutional settings in Belarus

- In 2006 the Council of Ministers approved a Concept of road safety aimed at reducing the fatalities by 25% in the period 2005-2015
- According to the local experts:
  - Road safety is not managed on evidence base
  - No sufficient funding for the Concept
  - Unclear responsibilities in managing road safety

The research bodies

- High level University offer, attracting students from foreign Countries (Russia, China, Turkey)

- Isolation from the international research community (funds, language)

- Low level of technical equipment available in research laboratories

Objectives [1]

Starting from the concepts and knowledge developed within ERSO developed by EU partners, the project aims to:

- Developing and testing two 1st level University Masters (60 ECTS) according to the Bologna process standards Engineering and Economics faculties

- "Train the Trainers", supporting Local Academics in defining and delivering the Masters

Objectives [2]

- Disseminating the project activities and results through different media
- Setting up a national coordinated network of Universities, PA, private companies, dealing with road safety
- Linking Belarusian research community to international research networks and communities

Master curriculum – Engineering Faculties

- Basic concepts of road safety (Road safety base concepts and approaches)
- Road safety management
- Collection and Analysis of crash data
- Contributing crash factors, countermeasure selection and evaluation.
- Road safety policies and plans.
- Road Infrastructure Safety Management

Master curriculum – Economic Faculties

- Basic concepts of road safety.
- Road Safety Management
- Road safety policies and plans.
- Econometric models for policy impacts evaluation and forecasting.
- Economic evaluation and efficiency assessment tools.
- Road Traffic Safety Management

The Be-Safe website

Seminars, project meetings and students visits in EU

Expected outputs

- Masters formally approved by the Ministry of Education

- A *Belarusian Road Safety Research Network*, linked to international community

- A *Belarusian Road Safety Observatory*, built on the model of ERSO

- Development of measures for effective road safety improvement (eg. Decision Support Systems for data collection and management, and countermeasures planning)

Expected results for EU partners

- Dissemination and exploitation of the EU research results
- Master courses to be imported in EU Member States (eg Italy), also in view of the new EU Directive on safety management of road infrastructures (need for specific courses to train Road Safety Auditors)
- Business opportunity for international methodologies and products

Key success factors

- Common strong motivation and enthusiasm
- Need for quick harmonisation of working methods and approaches (eg administrative reporting, reaction time)
- Frequent and detailed communication:
  - Frequent meetings, especially in the first part of the project
  - Common language (English)
- Awareness of the high potential of the Project

TRAFFIC ACCIDENT DATABASES AND INFORMATION SYSTEM ON ROAD SAFETY IN CAMEROON
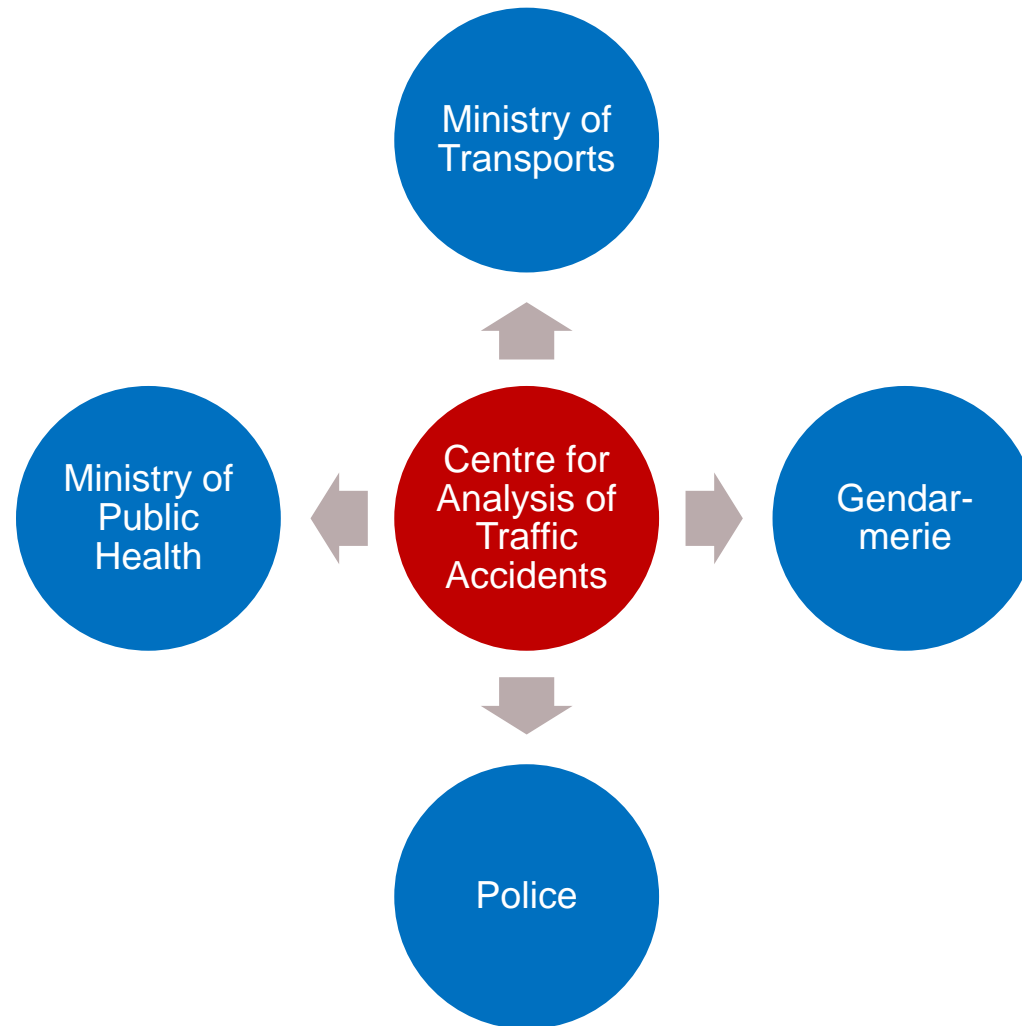
Partners

- The project started in March 2015 and will last 20 months
- Activities are realised by:
  - CTL – Research Centre for Transport and Logisitics of Sapienza University of Rome
  - SWOV – Institute for Road Safety Research of Netherlands
  - IBSR – Belgian Institute for Road Safety
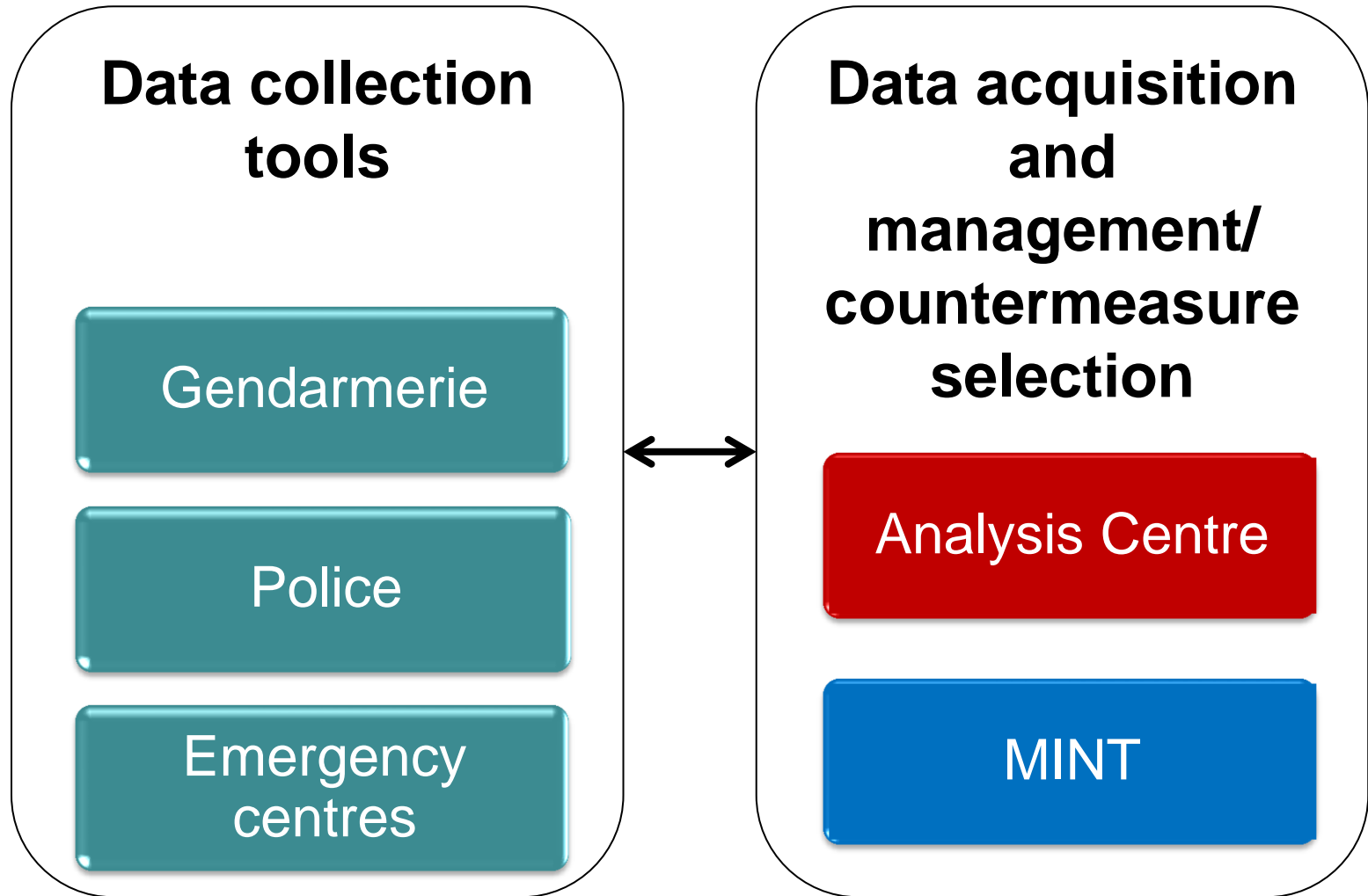 - I.T. Ingegneria dei Trasporti

Objectives

- To create a methodological and practical framework for managing the traffic accident data in Cameroon

- The project especially aims at developping tools:

  - High quality databases on road safety
  - A centralised and integrated information system to collect, manage and analyse traffic accident data
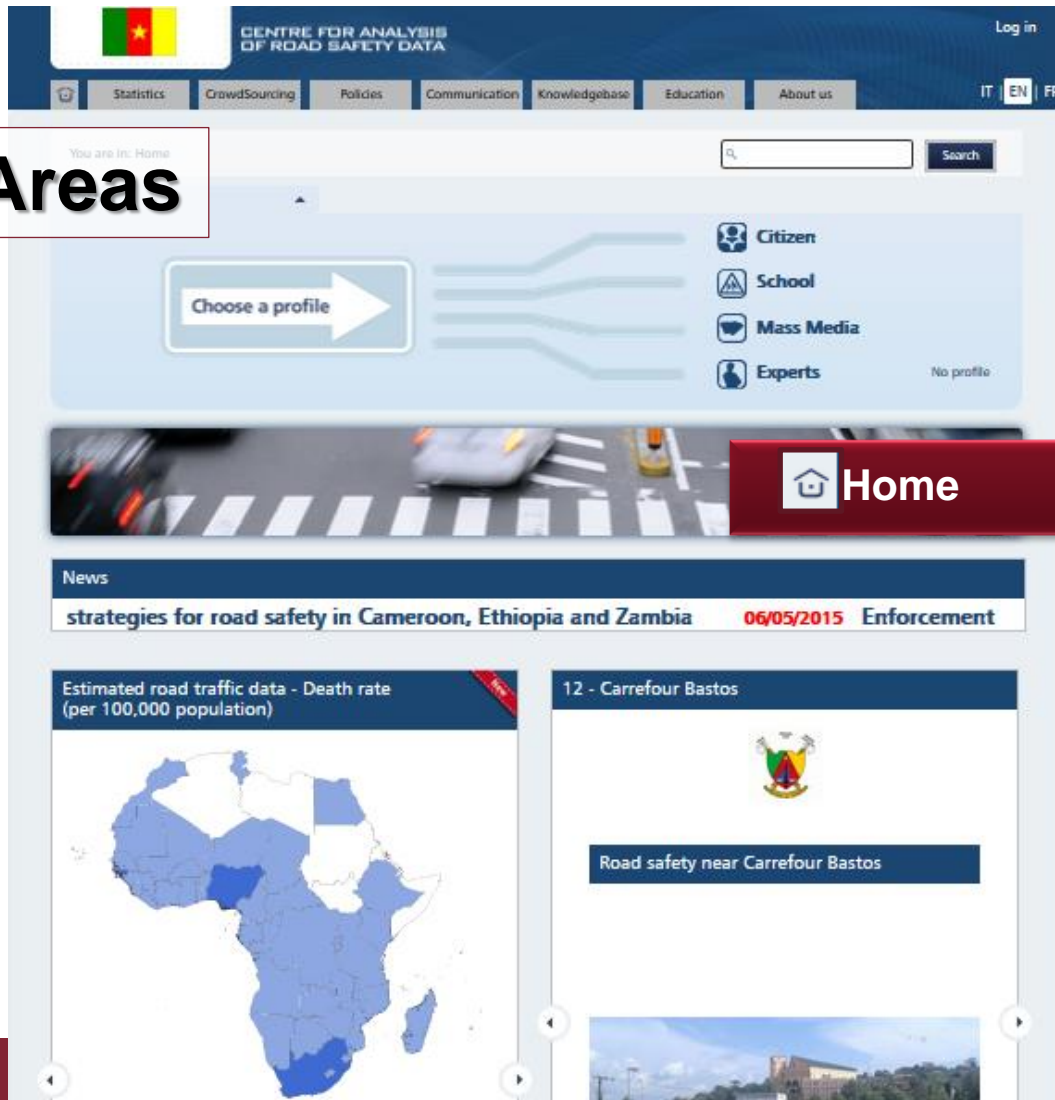
Stakeholders

Benficiaries of the tools

Data collection tools

Gendarmerie

Police

Emergency centres

← →

Data acquisition and management/ countermeasure selection

Analysis Centre

MINT

Analysis centre web portal – Main contents

7 Areas

- Statistics
- Crowdsourcing
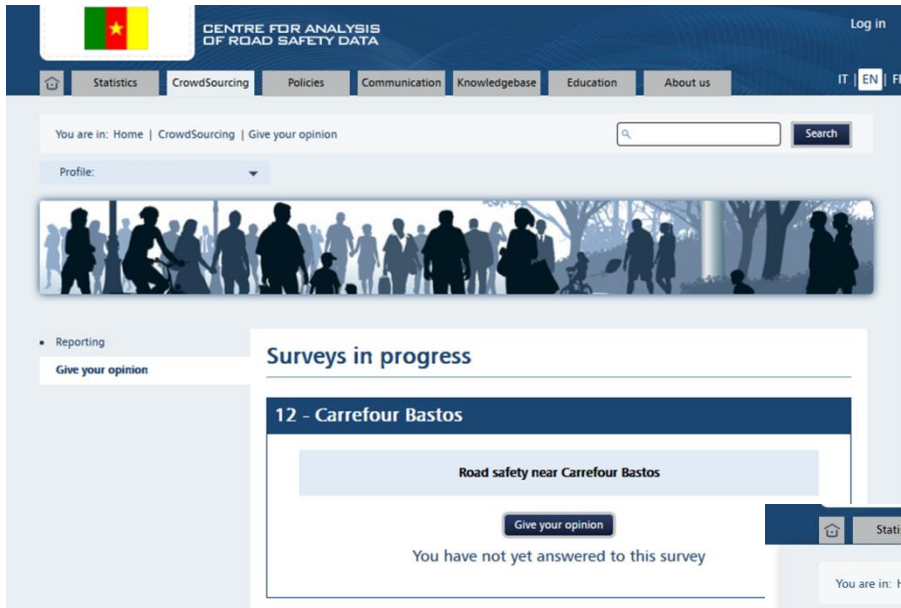- Policies
- Communication
- Knowledge-base
- Education
- About us

The crowdsourcing menu

Safety issues reporting on the road network

Citizen participation by surveys

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