SafetyCube Interactive Stakeholders' Platform

Deliverable 2.4

SafetyCube

SafetyCube Interactive Stakeholders' Platform

Work package 2, Deliverable 4

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Executive summary

Safety CaUsation, Benefits and Efficiency (SafetyCube) is a European Commission supported Horizon 2020 project with the objective of developing an innovative road safety Decision Support System (DSS) that will enable policy-makers and stakeholders to select and implement the most appropriate strategies, measures and cost-effective approaches to reduce casualties of all road user types and all severities.

This report describes the interactive platform that was created in the website of the SafetyCube Horizons 2020 research. This interactive platform aims to incorporate road safety stakeholders' contribution at the various stages of the project in order to develop the DSS. For that reason, the interactive platform includes online survey facilities for data collection, allowing thematic discussions and so on.

An online survey has already been uploaded regarding the identification of the road safety priority topics. All European road safety stakeholders are invited to participate in a 5-minute survey, where they are asked to rank from the highest to the lowest importance a number of "Road Safety Priority Topics". This topics can be divided in six categories:

Category 1: Infrastructure
Category 2: Vehicle
Category 3: Road User (General)
Category 4: Vulnerable Road Users (VRUs)
Category 5: Data
Category 6: Safety Management

All the results of this survey will be constantly made available at this website and sent to the stakeholders if they provide their email address at the end of this survey. Ultimately, the results of this survey will be utilized at the development of the DSS.

1 Introduction

This chapter describes the project and purpose of the Deliverable.

1.1 SAFETYCUBE

Safety CaUsation, Benefits and Efficiency (SafetyCube) is a European Commission supported Horizon 2020 project with the objective of developing an innovative road safety Decision Support System (DSS) that will enable policy-makers and stakeholders to select and implement the most appropriate strategies, measures and cost-effective approaches to reduce casualties of all road user types and all severities.
SafetyCube aims to:

1. develop new analysis methods for (a) Priority setting, (b) Evaluating the effectiveness of measures (c) Monitoring serious injuries and assessing their socio-economic costs (d) Cost-benefit analysis taking account of human and material costs
2. apply these methods to safety data to identify the key accident causation mechanisms, risk factors and the most cost-effective measures for fatally and seriously injured casualties
3. develop an operational framework to ensure the project facilities can be accessed and updated beyond the completion of SafetyCube
4. enhance the European Road Safety Observatory and work with road safety stakeholders to ensure the results of the project can be implemented as widely as possible

The core of the project is a comprehensive analysis of accident risks and the effectiveness and cost-benefit of safety measures focusing on road users, infrastructure, vehicles and injuries framed within a systems approach with road safety stakeholders at the national level, EU and beyond having involvement at all stages.

1.1.1 Work Package 2

Work Package 2 is focused on dissemination and implementation of SafetyCube results. It also has the goal to create an efficient network of stakeholders whose consultation will help identifying user needs for the European road safety Decision Support System as well as "hot topics" to be used as demonstrators within the project. Throughout the project, the stakeholders will provide data, knowledge, and experiences to assist in identifying road accident risk factors in addition to directing the project's research priorities.

1.2 PURPOSE OF THIS DELIVERABLE

The purpose of this report is to present the interactive platform created in the website of the SafetyCube Horizons 2020 research project. The aim of this platform is to incorporate road safety stakeholders' contribution at the various stages of the project. For that reason, the interactive platform includes online survey facilities for data collection, allowing thematic discussions etc. An online survey has already been uploaded regarding the identification of the road safety priority topics. Road safety stakeholders are invited to rank the road safety priority topics, which are grouped into six categories and the results of this survey will be used at the development of the Decision Support System (DSS).

2 Interactive Platform

This chapter contains information about the SafetyCube survey platform.

2.1 SAFETYCUBE PROJECT WEBSITE

In August 2015, the website of the SafetyCube Horizons 2020 research project was launched with main purpose to incorporate the outputs of the project, as they become gradually available, and the contribution of road safety stakeholders. More specifically, the project website includes project information, deliverables, methodologies, dissemination material etc., which will be constantly updated throughout the project lifetime, and also targets to serve as a demonstrator of project results with user interaction facilities, e.g. demonstrate measures safety effects and cost-benefit results.

Moreover, an interactive platform for the stakeholders' contribution has been created, including so far an online survey regarding the road safety priority topics. This interactive stakeholders' platform will support interaction with European and global road safety decision makers, experts and all other stakeholders in order to gain valuable input on one hand and to promote the SafetyCube results on the other. This interactive tool will animate discussions and contributions in a structured way, facilitating the analysis of the contributions and allowing for automatic dissemination of the results. Interactive surveys is the main component of this SafetyCube interactive stakeholders' platform.

2.2 SAFETYCUBE SURVEY PLATFORM

This platform is planned to include all the surveys and other interactive tools that will be launched in the context of the SafetyCube project. After a thorough search of the available online interactive tools, the LimeSurvey tool (LimeSurvey 2015) was selected as the most powerful, flexible, user-friendly and appropriate for the purposes of the SafetyCube interactive stakeholders' platform. LimeSurvey is a free open source software survey tool on the web, which contains the following features:

- Unlimited number of surveys at the same time
- Unlimited number of questions in a survey (only limited by your database)
- Unlimited number of participants to a survey
- Multi-lingual surveys
- User-management
- 28 different question types with more to come
- WYSIWYG (What You See Is What You Get) HTML editor
- Quotas management
- Integration of pictures and movies into a survey
- Creation of a printable survey version
- Conditions for questions depending on earlier answers (Skip Logic / Branching)
- Piping and Micro-tailoring using a powerful expression engine
- Re-usable editable answer sets

- Ready-made importable questions & surveys
- Assessment surveys
- Anonymous and Not-Anonymous survey
- Open and closed group of participant surveys
- Optional public registration for surveys
- Sending of invitations, reminders and tokens by email
- Option for participants to buffer answers to continue survey at a later time
- Cookie or session based surveys
- Template editor for creating your own page layout
- Extended and user-friendly administration interface
- Back-office data entry possibility
- Survey expiry dates for automation
- Enhanced import and export functions to text, CSV, PDF, SPSS, R, queXML and MS Excel format
- Basic statistical and graphical analysis with export facility
- Screen Reader Accessiblity
- W3C compliance
- A detailed manual is available in several languages

The first SafetyCube survey exploiting the SafetyCube interactive stakeholders' platform is called "SafetyCube Road Safety Priority Topics Survey" and is already available at the SafetyCube project website.

A second survey regarding the identification of stakeholders' needs for the European road safety DSS is scheduled to be launched very soon, exploiting also the SafetyCube Interactive Stakeholders' Platform.

3 SafetyCube Road Safety Priority Topics Survey

This chapter describes the first survey which is available at the SafetyCube interactive platform.

The first SafetyCube survey, called "SafetyCube Road Safety Priority Topics Survey" is uploaded at the SafetyCube Survey Platform and is available at the SafetyCube Project website. Visitors of the website can be directed to the survey through the box placed in the right column of the homepage, as shown in **Figure 3.1**.

Figure 3.1 Homepage of SafetyCube Project website.

The "SafetyCube Road Safety Priority Topics Survey" aims at identifying the road safety priority topics in order to be included at the DSS. These topics are based on the "hot topics" which were collected during the Stakeholders' Workshop in Ljubljana in June 2015. All European stakeholders are invited to rank from the highest to the lowest importance the above topics. The stakeholders are from national public authorities, internatioanal organisations, industry, research and consumer organisations.

Especially for the first survey, the template is blue and grey, the questions are presented on one single page, participants can save a partially finished survey and cookies are used for access control, so as each participant cannot answer more than one times.

The survey includes 11 questions divided into two groups. Group A includes the questions related with the road safety priority topics, which are grouped into six categories:

- Category A1: Infrastructure,
- Category A2: Vehicle,
- Category A3: Road User (General),
- Category A4: Vulnerable Road Users (VRUs),
- Category A5: Data
- Category A6: Safety Management.

Participants have to double-click or drag-and-drop the items in the left list and move them to the right, as shown in **Figure 3.2**.

Figure 3.2 SafetyCube Road Safety Priority Topics Survey.

Group B includes questions related to the participant of survey. Stakeholders are asked to provide information about their country of origin and the road safety stakeholder type, as well as the organisation they are working, their name and email address. It is noted that the three last questions are optional.

All road safety stakeholders, including those who have participated at this interactive online survey are able to watch online the survey results, which are constantly feeded and updated, as shown in **Figure 3.1**3.
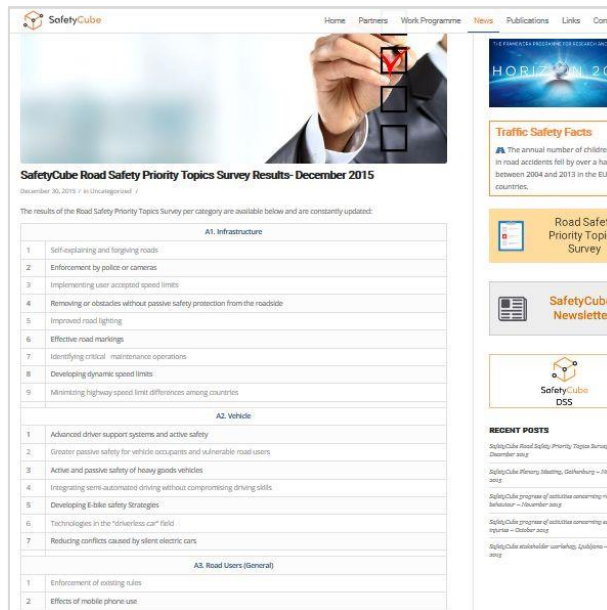
Figure 3.3 Online Results of the SafetyCube Road Safety Priority Topics Survey.

The results of all the surveys, as well as of the SafetyCube project will be constantly available at the SafetyCube project website and will be sent to the stakeholders who have provided their email addresses.

4 Conclusions

Work Package 2 is focused on dissemination and implementation of SafetyCube results. It also has the goal to create an efficient network of stakeholders whose consultation will help identifying user needs for the European road safety Decision Support System as well as "hot topics" to be used as demonstrators within the project. For that reason, an interactive platform has been created including online survey facilities for data collection.

The first online survey has already been uploaded regarding the identification of the road safety priority topics. European stakeholders are asked to contribute in the identification of the road safety priority topics, which will be included at the European road safety DSS. More surveyas and interactive activities will be initiated throughout the duration of the SafetyCube project.

References

https://www.limesurvey.org/en/?jumpto=features.

Appendix A Survey 1

SafetyCube Road Safety Priority Topics Survey

In view of developing the European Road Safety Decision Support System (DSS) within the European Commission co-financed research project SafetyCube, all European road safety stakeholders are invited to rank the "Road Safety Priority Topics" to be included at the DSS. All the results of SafetyCube project and of this 5-minute survey will be constantly made available at this website and sent to you if you provide us with your email address at the end of this survey.

Please rank from the highest to the lowest importance (1=most important) the following "Road Safety Priority Topics" in each of the six categories: Infrastructure, Vehicle, Road User, Vulnerable Road Users (VRUs), Data, Safety Management.

A1. Infrastructure
Please rank the following topics from 1 to 10 in terms of importance for improving road safety (1=most important, 10=least important).

Topic
Implementing user accepted speed limits
Developing dynamic speed limits
Minimizing highway speed limit differences among countries
Enforcement by police or cameras
Effective road markings
Removing or obstacles without passive safety protection from the roadside
Improved road lighting
Identifying critical maintenance operations
Self-explaining and forgiving roads

A2. Vehicle
Please rank the following topics from 1 to 8 in terms of importance for improving road safety (1=most important, 8=least important).

Topic
Greater passive safety for vehicle occupants and vulnerable road users
Advanced driver support systems and active safety
Technologies in the "driverless car" field
Integrating semi-automated driving without compromising driving skills
Active and passive safety of heavy goods vehicles
Reducing conflicts caused by silent electric cars
Developing E-bike safety Strategies

A3. Road Users (General)
Please rank the following topics from 1 to 14 in terms of importance for road safety
(1= most important, 14=least important).

Topic
Understanding causes of serious injuries
Effects of mobile phone use
Safety education programs (especially children)
Strategies for young drivers: restrictions vs. mobility
Investigate the effects of (new/different) types of drugs (especially on young drivers)
Improving safety programs for elderly road users
Support safe mobility of elderly car drivers
Graduated licensing and mandatory continuous education
Assessing fitness to drive (from fatigue to health)
Counteracting driving fatigue
Eliminating driver aggression - recklessness and intended
Enforcement of existing rules
Link information between road safety and health sector
Improving post-crash care systems
Link indicators for road safety and environment

A4. Vulnerable Road Users (VRUs)
Please rank the following topics from 1 to 16 in terms of importance for improving road safety
(1=most important, 16=least important).

Topic
Promoting bicycle helmet use (better education and acceptable solutions)
Improved bicycles infrastructure at crossroads and roundabouts
Dedicated bicycle routes
Cyclist interaction with E-bikes/pedelecs
Reducing bicycle collisions with parked cars / car doors
Reducing single bicycle crashes
Improved power-Two-Wheeler safety
Safe mobility for disabled people
Strategies for the growing share of elderly road users
Improved pedestrian crossing design
Introducing shared space, 20/30km/h zones
Understanding the safety implications of phone and handheld devices by cyclists and pedestrians
Reducing the under-reporting of pedestrian and cyclist accidents
Develop strategies for VRUs for increasing Automation
Improving safety of VRUs in emerging economies

A5. Data
Please rank the following topics from 1 to 5 in terms of importance for improving road safety
(1=most important, 5=least important).

Topic
Creating sources of detailed exposure data
Identify sources for incident/near miss data
Introducing better reporting of contributing factors in accident reports

Access to E-call records
Resolve issues of privacy and data protection for better data access

A6. Safety Management
Please rank the following topics from 1 to 10 in terms of importance for road safety
(1=most important, 10 =least important).

Topic
Increased availability of cost-effectiveness of road safety measures
Improve recording the quality of safety measure implementation
Quantify the cost effectiveness of campaigns
Improved use of public / social media for communicating road safety
Applying demerit point system for driver's licenses
Exploit the influence of new information technologies (e.g. from police patrols)
Promote road safety programs in companies/organisations
Introduce "Pay as you drive" incentives/penalties for safe driving
Promote "Pay as you drive" based on exposure, type of road network
Work Vision Zero principles

B1. In which country are you working?
....

B2. Road safety stakeholder type
International Organisation
National Public Authority
Research / University / Expert
Industry
International Non-Governmental Organisation
National Non-Governmental Organisation

B3. Organisation (optional)
....

B4. Name (optional)
....

B5. Email address (optional)
....