



# Ministry of Interior



National Emergency System with a Single  
European Number 112 (NESSEN-112)

eCall service deployment in Bulgaria.

**2<sup>nd</sup> WORKSHOP OF THE SEE-ITS PROJECT**

**„INTELLIGENT TRANSPORT SYSTEMS FOR ROAD SAFETY  
AND SECURITY: EU ITS DIRECTIVE “**

**SOFIA, 27 SEPTEMBER 2013**

**University of the National and World Economy**

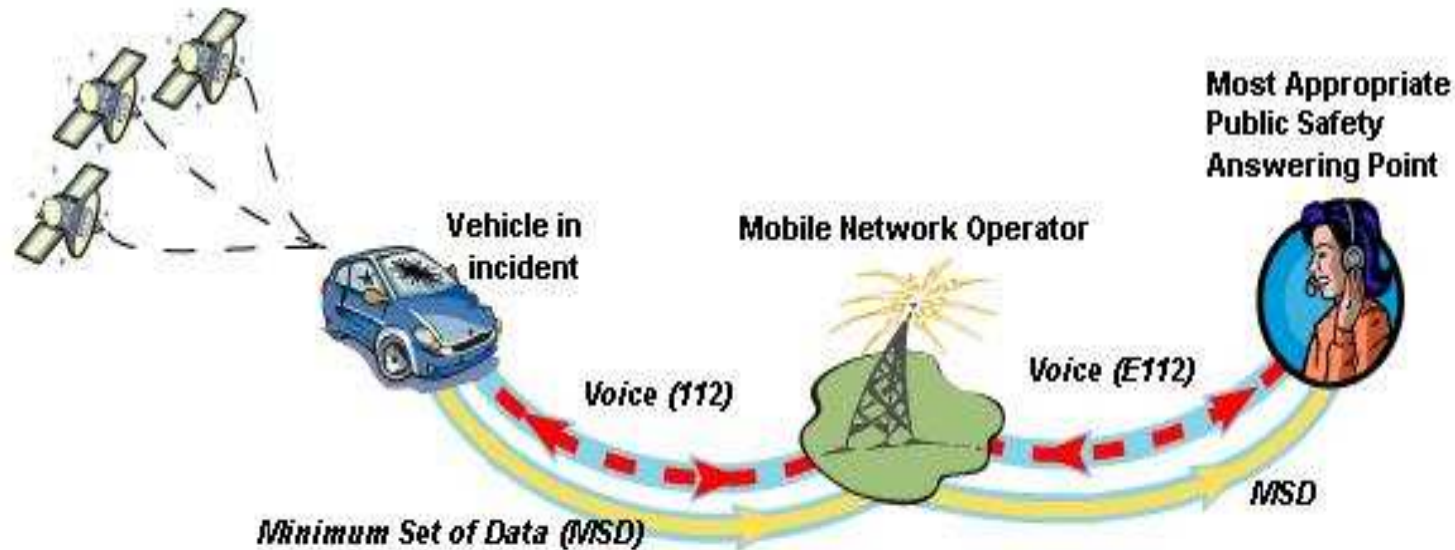
## eCall – GAIN IN TIME - SAVE HUMAN LIVES

- ❑ According to statistics, average per year about 35,000 people were killed and 1.5 million injured in about 1.15 million traffic accidents on the EU's road network alone.
- ❑ Getting an immediate alert in the event of an accident and knowing the exact location of the crash site cuts emergency services' response time by 50% in rural and 40% in urban areas.
- ❑ **The main objective of eCall service is to supply faster response in heavy traffic accidents.** Thanks to this gain in time, eCall is expected to save several hundred lives in the European Union each year, and to mitigate the severity of tens of thousands of injuries. eCall will also result in faster treatment of injured people, thereby giving accident victims better recovery prospects.

## eCall – GAIN IN TIME - SAVE HUMAN LIVES

- ❑ Arriving at the accident scene sooner will also allow faster clearance of crash sites, thus reducing the risk of secondary accidents, decreasing congestion times, cutting fuel waste and lowering CO2 emissions.
- ❑ In hard financial terms, the EU's economic loss caused by road accidents amounts to more than €160 billion per year. If all cars were equipped with the eCall system, up to €20 billion could be saved annually.
- ❑ **IVS eCall** system will inform rescue workers of the crash site's exact whereabouts, even driver or the passengers are unconscious, or are not capable to call.

## How eCall – works



- As soon as the eCall device in your car senses a severe impact in an accident, it automatically initiates a 112 emergency call to the nearest emergency centre and automatically transmits **Minimum Set of Data (MSD)** with information about the **time of the incident, the exact geographic location of the accident scene, speed and heading, vehicle's data etc.**

## How eCall – works

- In line with the eCall project, it is necessary to provide the 112 centers with extra vehicle information based on the Vehicle Identification Number (VIN) of the car involved in an accident included in the Minimum Set of Data (MSD). For the purpose is planned a data connection of eCall Center 112 with the **Vehicle registration data base of MoI and EUCARIS data base**. This way PSAP's will get the necessary information (i.e., vehicle model, type, producer, model year, heading, engine volume, fuel type etc. ) to handle the emergency call. With this extra information rescue workers will be better prepared once arrived on the place of the accident.
- **With the same effect, eCalls can also be made manually, at the push of a button.** This is convenient if, for instance, you become witness of an accident.
- Whether the call is made manually or automatically, **there will always be a voice connection between the vehicle and the emergency call centre in addition to the automatic data link.** This way, any car occupant capable of answering questions can provide the call centre with additional details of the accident.

## eCall – DEPLOYMENT OF THE SERVICE – Legislative framework

1. DIRECTIVE 2010/40/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 7 July 2010 on the framework for the deployment of Intelligent Transport Systems in the field of road transport and for interfaces with other modes of transport - *priority action «d» - The harmonised provision for an interoperable EU-wide eCall*
2. COMMISSION RECOMMENDATION of 8 September 2011 on support for an EU-wide eCall service in electronic communication networks for the transmission of in-vehicle emergency calls based on 112 ('eCalls') - *Member States should ensure that mobile network operators implement the mechanism to handle the 'eCall discriminator' in their networks. This should be implemented by 31 December 2014.*
3. Proposal from 13.06.13 for a DECISION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the deployment of the interoperable EU-wide eCall - *the Member States shall deploy the necessary eCall PSAP infrastructure required for the proper receipt and handling of all eCalls on their territory no later than 1 October 2015*

## eCall – DEPLOYMENT OF THE SERVICE – Legislative framework

4. Proposal from 13.06.13 for a REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning type-approval requirements for the deployment of the eCall in-vehicle system and amending Directive 2007/46/EC
  - *Manufacturers shall ensure that all new types of passenger cars and light commercial vehicles produced in EU to be to be equipped with IVS eCall system by 1 October 2015*
  - *Manufacturers shall ensure that the receivers in the in-vehicle systems are compatible with the positioning services provided by satellite navigation systems including the Galileo and the EGNOS systems*

## eCall – DEPLOYMENT OF THE SERVICE – Legislative framework

Member States were obliged to bring into force the laws, regulations and administrative provisions necessary to comply with DIRECTIVE 2010/40/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 7 July 2010.

**Bulgaria** transposed DIRECTIVE 2010/40/EU in the following legislation:

- ***ORDINANCE OF THE TERMS AND CONDITIONS FOR deployment of Intelligent Transport Systems in the field of road transport and for interfaces with other transport modes, Into force from 29.01.2013***
- ***Road Transport Act, Amendment of SG. 99 of 2012 Into force from 14.12.2012***
- ***COMMISSION DELEGATED REGULATION (EU) No 305/2013, of 26 November 2012***



## **HeERO (Harmonized eCall European Pilot) - the pan European project for eCall deployment**

**The project goal is to test and operate eCall pre-deployment, in order to prepare for the deployment in Europe of the infrastructure necessary for the provision of the eCall service with the following main specifications:**

- Harmonized Pan European eCall service based on 112
- Interoperability at European level
- Trans border continuity
- Service is supplied in all EU languages

### **HeERO-1**

- Project Period: 1 January 2011- 31 December 2013 (36 months).
- 5 M€ funding from the European Commission.
- Nine European countries forming the HeERO – 1 consortium carry out the start-up of an interoperable and harmonised 112 based in-vehicle emergency call system. - *Romania, Germany, Finland, Czech Republic, Italy, Greece, Croatia, The Netherlands, Sweden*



## HeERO-2- eCall 112 pilot deployment in Bulgaria

□ The overall **objective of HeERO 2** is *“To extend HeERO to new Member States or associated countries to demonstrate the scalability of the HeERO solution and to widen the acceptance of eCall.”* To support this objective there are several aims:

- (1) to realize interoperability of "eCall" at European level,
- (2) to boost Member States investment in the PSAP infrastructure and interoperability of the service within the roadmap (end of 2014),
- (3) to encourage a wider adoption across more Member States. - *new HeERO 2 partners to deploy the eCall service in the whole country territory as a Pan European one.*
- (4) good practice dissemination
- (5) standards and legislation framework final adjustment

## HeERO-2- eCall 112 pilot deployment in Bulgaria

- **Project Period:** 1 January 2013- 31 December 2014 (24 months).
- 50% (3 M€) funding from the European Commission.
- 6 new countries (namely Belgium, **Bulgaria**, Denmark, Luxembourg, Spain and Turkey) have joined the other 9 pilot sites of HeERO 1.

**There was established Bulgarian consortium of stakeholders interested to deploy pilot project in the country.**

**Ministry of Interior with Directorate National 112 System, Directorate Communication and Information Systems, and Directorate International Projects have the main task to prepare the necessary PSAP (Center 112- Sofia ) infrastructure for the provision of the eCall service.**

## eCall 112 - HeERO-2- PROJECT ACTIVITIES

- The project is going according to the **Project Plan developed and approved by the ERTICO ITS – Europe (Project Co-ordinator)**.
- According to the Project Plan, Directorate International Projects conducted Public Procurement Procedure for supply of equipment to upgrade of the Center 112- Sofia for acceptance of eCalls. **The equipment is supplied and installed.**
- **The implementation process shall finish till the end of October.**
- **The next year is planned to work on Pilot Operations, Operators training, Tests and evaluation, Data collecting and consolidation, Results and implementation experience dissemination, Assessment of deployment barriers and enablers on eCall service deployment.**

Thanks for your attention

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*Thanks for your attention!*

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