



# HeERO - Harmonised eCall European Pilot

**112 Roundtable**  
**Bucharest, Romania**  
**July 1<sup>st</sup>, 2011**



# eCALL CONCEPT

- the pan-European eCall concept started in 2002
- eCall is based on the European emergency number 112
- in case of a crash, an eCall-equipped car automatically calls the nearest emergency centre
- even if no passenger is able to speak, due to injuries, a MSD (Minimum Set of Data) is sent to the nearest PSAP, including the VIN and the exact location of the crash site

# eCall: The crashed car calls 112!

1

## Emergency Call

A 112 emergency call (eCall) is made automatically by the car as soon as on-board sensors (e.g. the airbag sensors) register a serious accident. By pushing a dedicated button in the car, any car occupant can also make an eCall manually.

2

## Positioning

Via satellite positioning and mobile telephony caller location, the accurate position of the accident scene is fixed and then transmitted by the eCall to the nearest emergency call centre. More information is given in the eCall, e.g. the direction of travel and the vehicle type.

3

## Emergency call centre (PSAP)

The eCall's urgency is recognized, the accident's location can be seen on a screen. A trained operator tries to talk with the vehicle's occupants to get more information. If there is no reaction, emergency services are sent off without delay.

4

## Quicker help

Due to the exact knowledge of the accident's location, the emergency services (e.g. ambulance, fire fighters, police) arrive much quicker at the crash site. Time saved translates into lives saved.



# eCALL POTENTIAL BENEFITS

- it is estimated that implementation of eCall at European level:
  - has the potential to save up to 2.500 fatalities yearly in EU-27, when fully deployed;
  - to reduce the severity of injuries;
  - to lower the cost of healthcare in society;
  - to reduce human suffering

# eCall Memorandum of Understanding

- released for signature in 2004
- 26 countries, including Romania, signed the eCall MoU by today (22 EU Member States and 4 non-EU states – Iceland, Norway, Croatia and Switzerland)
- other 105 organizations also signed the MoU

# ROMANIA'S OPENNESS TO eCALL

- Romania has officially expressed at governmental level its willing to implement the eCall service on May 4, 2010 when the Minister of Communications and Information Society signed the eCall Memorandum of Understanding
- Special Telecommunications Service as 112 national operator has also expressed its willingness for implementing eCall service on the existing infrastructure

# HeERO PROJECT

- the overall objective is to prepare the deployment in Europe of the *necessary infrastructure* for making the pan-European in-vehicle emergency call service “eCall” a reality
- HeERO project will prove that eCall is operational and ready for becoming a reality for all European citizens

# HeERO PROJECT CONSORTIUM

8 Member States, 1 Associated  
State and 2 European  
Associations

- Croatia
- Czech Republic
- Finland
- Germany
- Greece
- Italy
- Netherlands
- Romania
- Sweden
- ERTICO – project coordinator
- EENA – dissemination manager





# HeERO Partners



Automobile Club d'Italia



# HeERO OBJECTIVES (1)

- Define **operational** and **functional requirements** needed to upgrade eCall related service-chain parts to handle eCall
- **Implement** and **test** available Pan-European eCall related **standards**
- Implement and test needed technical and operational infrastructure upgrades
- Identify possible use of eCall system for **value-added services**

# HeERO OBJECTIVES (2)

- Produce the **training material** for the eCall operators
- Assess **certification procedures** related to the eCall services equipment
- Produce **recommendations** for future eCall deployment in Europe
- **Promote pilots results** and **best practices** with other Member and Associated States not involved in the project
- **Demonstrate interoperability** and **continuity** the EU-wide eCall service

# HeERO PROJECT

- nine national pilots
- one multi – country pilot
  - the scope of this pilot is to verify whether a foreign car traveling locally is able to send an eCall (voice+data) to the local eCall emergency service PSAPs
  - the multi-country pilot will assess whether the eCall triggered by a foreign IVS is able to seamlessly follow the locally implemented 112 eCall routing
- one international pilot
  - the scope is to test interoperability with ERA GLONASS project (Croatia, Romania and Finland involved)

# HeERO National pilots leaders

- ITS Romania - Romania
- ITS Niedersachsen - Germany
- Ministry of Transport and Communications – Finland
- Ministry of Transport – Czech Republic
- Presidency of Council of Ministers – Italy
- Ministry of Infrastructure, Transport and Networks – Greece
- Security Arena, Lindholmen Science Park AB – Sweden
- National Protection and Rescue Directorate – Croatia
- Rijkswaterstaat – The Netherlands.

# HeERO –Work Packages leaders

- WP1 –Management – ERTICO - Belgium
- WP2 –Implementation – Ministry of Transportation - Czech Republic
- WP3 –Operation - Special Telecommunications Service - Romania
- WP4 –Evaluation - NavCert GmbH - Germania
- WP5 –Dissemination - European Emergency Number Association - Belgium
- WP6 –Deployment enablers (VTT Finland)

# Romanian pilot

- the aim is to develop a fully redundant service, with a small impact on the existing 112 system
- 20 cars will be equipped with eCall IVS to test the service
- the pilot will allow identifying the most viable way to further deploy the eCall service to all Romanian 41 Level 1 PSAPs and the necessary 112 system upgrades

# Romanian partners

- Member State Leader: ITS Romania
- PSAP Operations: Special Telecommunications Service (STS)
- Road Operator: National Company of Motorways and National Roads of Romania (RNCMNR)
- Technology provider: UTI Systems SA
- Engineering and consultancy: Electronic Solutions SRL
- Expert Organisation: Romanian American University



# HeERO project financing (1)

- The project is co-financed by the European Commission – DG Information Society and Media under the CIP – ICT PSP (Competitiveness & Innovation Programme – ICT Policy Support Programme)
- Grant Agreement no. 270906 signed on March 17<sup>th</sup>, 2011 by the European Commission and ERTICO

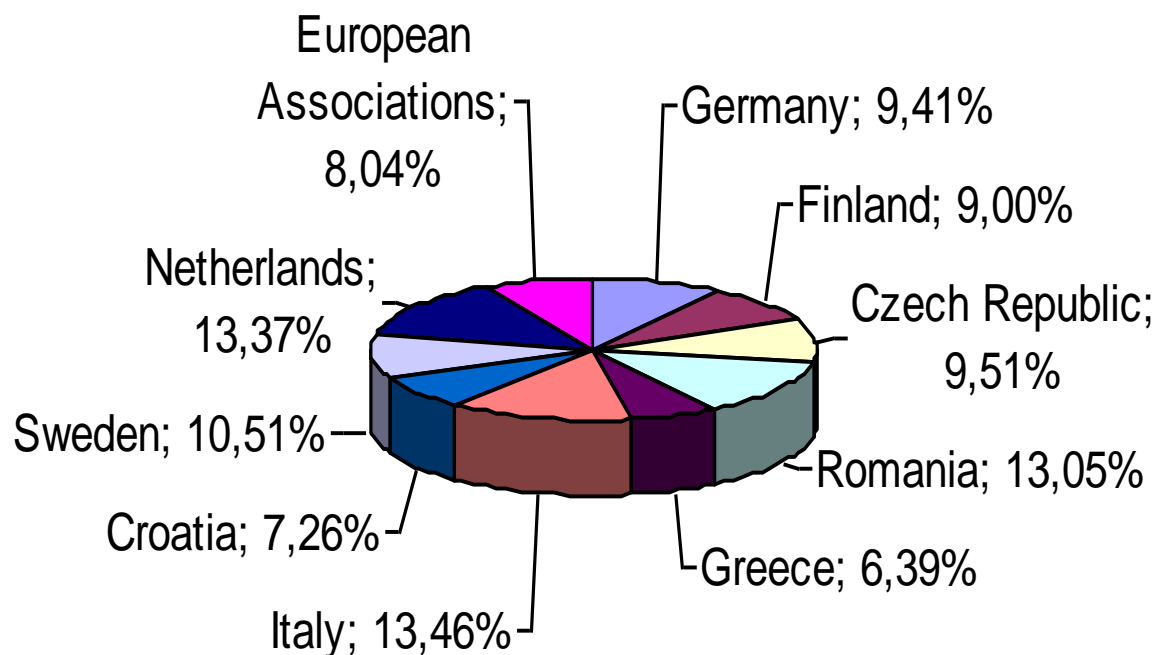
# HeERO PROJECT FINANCING (2)

- Total budget: 10.254.803 EUR
- EC contribution: 50% of eligible costs, maximum 5.000.000 euro
- The balance, including ineligible costs, to be co-funded by each partner
- Start date of the project: 01/01/2011
- Duration of the project: 36 months
- End date of the project: 31/12/2013

# HeERO PROJECT FINANCING (3)

Member State/Associations	Budget distribution
Germany	964.706,00 €
Finland	922.802,00 €
Czech Republic	975.040,00 €
Romania	1.338.442,00 €
Greece	654.875,00 €
Italy	1.380.502,00 €
Croatia	744.916,00 €
Sweden	1.077.900,00 €
Netherlands	1.371.232,00 €
European Associations	824.388,00 €
<b>TOTAL BUDGET</b>	<b>10.254.803,00 €</b>

# HeERO PROJECT FINANCING (4)



# ROMANIA'S PILOT FINANCING

Romanian partners	Budget distribution
ITS Romania	107.140,00 €
Special Telecommunications Service	850.000,00 €
National Company of Motorways and National Roads of Romania	39.276,00 €
UTI Systems S.A.	184.126,00 €
Electronic Solutions SRL	124.300,00 €
Romanian American University	33.600,00 €
<b>TOTAL BUDGET</b>	<b>1.338.442,00 €</b>

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[www.heero-pilot.eu](http://www.heero-pilot.eu)

THANK YOU!