Agenda

• HeERO Project Prospectus
• Objectives and Aims
• Technical Areas
• HeERO time line
• HeERO Pilot Site status
• Observations
Pan European eCall architecture

How eCall works?

1. eCall: Immediately after the incident, the vehicle unit transmits the following data to PSAP 112: time and location of the incident, direction and number of passengers. The passengers may then communicate with the 112 line operator.

2. Locator: The satellite indicates the precise location of the vehicle.

3. Locating: The location is transmitted to the emergency services. The PSAP 112 sends instructions to the traffic information system (VMS) and the Integrated Emergency System. The VMS sends information about the incident to the traffic information and management center.

4. Traffic Information System: The traffic information system sends data to the operator of the 112 emergency number to check the accuracy of the location of the incident on the map and to send emergency units.

5. Rescue Intervention: Emergency units are sent to the scene of the incident, and rescue intervention begins.

Legends:
- PSAP 112: Public Safety Answering Point 112 (PSAP)
- MSD: Minimum set of data
- Data connection
- Voice connection
HeERO project prospectus

• Pre-deployment projects
• January 2011 to December 2014
• 15 Pilot Sites
• €8m EC funding available
• Total budget €16m
• 82 Partners
• 5 additional sites upgrading at their own expense: Cyprus, Hungary, Ireland, Slovenia, Iceland. Russia also partner
HeERO Pilot Sites

Legend:
- HeERO1 Pilot countries
- HeERO2 Pilot countries
- HeERO2 associated partners
HeERO Objective and Aims

• Extend HeERO project to new Member States or associated countries to demonstrate the scalability of the HeERO solution and to widen the acceptance of eCall

• Supporting aims:
  • To prepare the necessary infrastructure to realise pan-European "eCall".
  • To boost Member States investment in PSAP infrastructure & interoperability of the service by 2014 (Roadmap)
  • A wider adoption across Member States to test the proposed solution
HeERO Technical Areas

- eCall new type approved vehicles M1 & N1
- Large Goods Vehicle eCall
- Powered 2 Wheeled vehicles
- Location technology
  - Multiple Navigation Systems
  - Cross Border
- Aftermarket devices
- Certification of vehicle and service
- Test and revise standards
HeERO Timeline

- Implementation
- Evaluation planning
- 1st Operation phase
- Evaluation
- Implementation
- 2nd operation phase
- Evaluation

Deployment Enablers

2011  2012  2013  2014

HeERO Phase 2

Evaluation progress to date

- Project progress to date
- HeERO Phase 2
HeERO Pilot Site Status

HeERO 1

• Croatia Testing Complete eCall Ready
• Czech Republic Testing Complete eCall Ready
• Finland Testing Complete awaiting new PSAP System
• Germany Testing Complete model available no decision to deploy
• Greece extension testing underway
• Italy Testing Complete eCall model Piedmont being considered
• Netherlands Testing Complete waiting to deploy
• Romania Testing Complete eCall Ready
• Sweden Testing Complete awaiting decision

HeERO 2

• Belgium testing underway, screening system used - private
• Bulgaria slight delay, about to test
• Denmark delay in test technical & political issues dormant SIM testing
• Luxembourg testing underway HGV eCall
• Spain testing underway P2W, screening system Government
• Turkey about to test
Standardisation

- Public service 112-based only
- Voice + MSD to relevant PSAP
- 112-based, with or without intermediation platform under Public delegation

**EN 16072**
Pan-European eCall Operating Requirements

**EN 16062**
High Level Application Protocols

**ETSI TS 122 101**
Voice + MSD on 112

**EN 15722**
MSD

**ETSI TS 124 008**
Table 10.5.135d
eCall Flag

Data registry procedures
- ISO/EN 24978:2009

**EN 16102**
TPS-eCall Operating Requirements

**CEN TS/prEN 16454**
eCall end to end conformance testing

**Successfuly Balloted**

**25 amendments notified**

**CEN TC 278 WG 15. Chair Bob Williams**

**ETSI MSG & 3GPP. Chair: E. Barck**

**ETSI TS 102 936-1**
Protocol test specification

**ETSI TS 102 936-2**
Test Suites

**CEN TS/prEN 16454**
eCall end to end conformance testing

**ETSI TS 126 267**
"eCall Data Transfer - General Description"

**ETSI TS 126 268**
"eCall Data Transfer. ANSI-C Reference Code"

**ETSI TS 126 269**
"eCall Data Transfer. Conformance testing"

**ETSI TS & TR 126 969**
"eCall Data Transfer. Characterisation Report"
Observations

• Member States (Including HeERO) waiting for legislation to progress
• Clarity regarded over Type approval wording and impact
• Mobile Networks GSMA Supports eCall - MS MNO support NOT clear
• Member State Ministry need to work together for eCall deployment multiple stakeholders
• Changes to operational practices
• Telling the story to the citizens of Europe
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QUESTIONS?