eCall: Europe-wide solution for saving lives through rapid emergency response

Steve Schneider, ITS automotive nord

North Sea Conference 2017
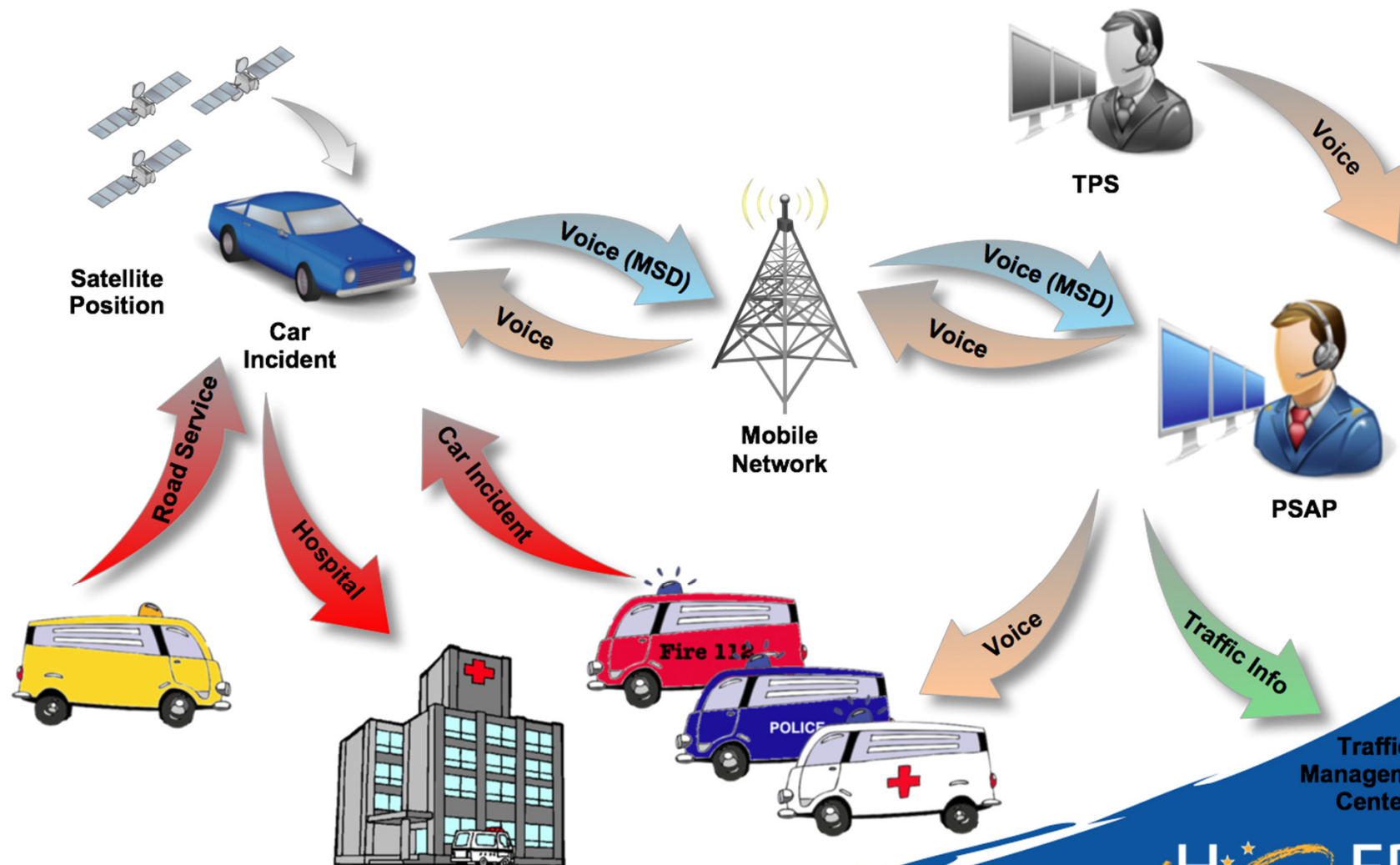Göttingen, 30.06.2017

This project is funded by the European Union

Agenda

1. **How eCall works**

2. **About I_HeERO**

3. **I_HeERO Activities**

4. **Value of transnational cooperation**

How eCall works

About I_HeERO

Program: *Connecting Europe Facility (CEF)*

Duration: *01.01.2015 – 31.12.2017*

Costs: *30.5 Mio. EUR*

Lead: *Ministry for the Economy, Labor and Transport of Lower Saxony*

Consortium: *58 Partners & 11 Member States*

iHeERO 112 SOS

Harmonised eCall European Deployment

About I_HeERO

Deployment pilot project of EU-wide eCall

_I_HeERO ("I" for "Infrastructure") aims at the preparation of the PSAP in Member States for the deployment of eCall based on 112 as reference implementations._

Why I_HeERO?

- *Mandatory deployment of eCall based on 112 for Member State PSAP by 1 October 2017 (Decision No 585/2014/EU)*

- *After 31 March 2018, eCall will be installed in all new type approval of cars and light vans sold in the EU (Decision No 758/2015/EU)*

- *Requirement to advance eCall*

  - *HGV eCall*

  - *P2W*

  - *Data Integration*

  - *NG112 eCall*

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I_HeERO Objectives

- *Prepare the PSAP infrastructure on a technical level*
- *Boost Member States investment in PSAP infrastructure and interoperability of service*
- *Define and perform PSAP Conformity Assessments*
- *Prepare eCall for HGV (including Dangerous Goods) and Long Distance Buses and Coaches*
- *Prepare eCall for P2W (Powered Two Wheeled) vehicles*
- *Look at management of data around all types of eCall*
- *Next Generation 112 eCall*
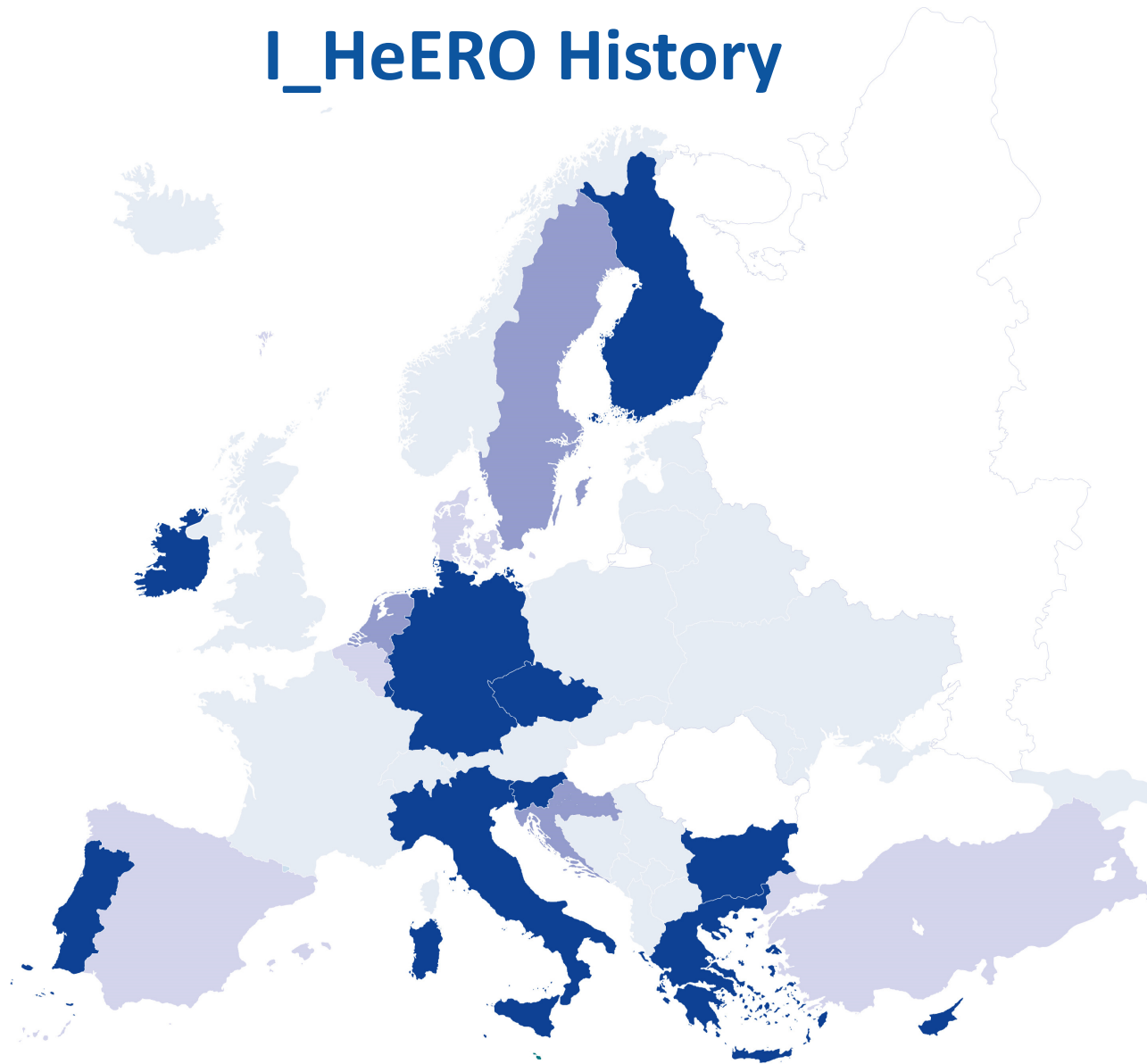- *Provide Associated Partnership*

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I_HeERO History

- *I_HeERO draws directly from the EU co-funded projects "HeERO" and "HeERO2", Harmonised eCall European Pilot*

- *These projects analysed the feasibility and robustness of the eCall service with pilot installations on both the PSAP and vehicle site*

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I_HeERO History

Legend:

- ■ I-HeERO EU Members
- ■ HeERO1 Pilot countries
- ■ HeERO2 Pilot countries

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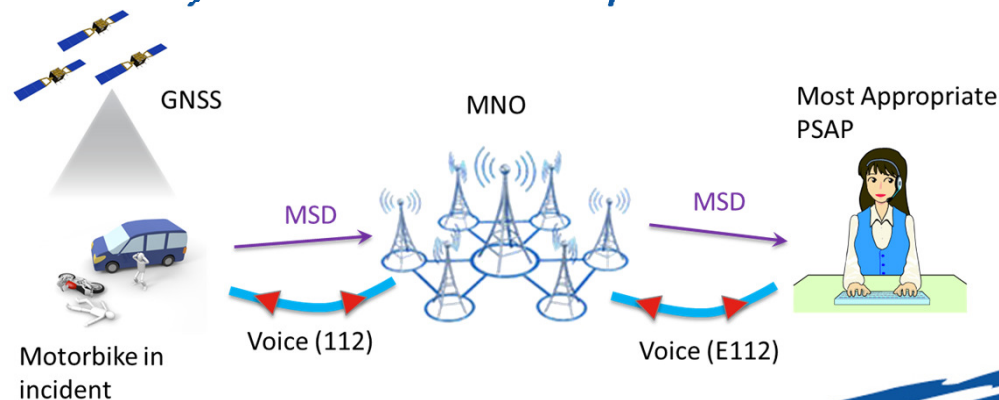
Activity 1 - PSAP Upgrade

- *11 Member States*
  - *5 Completing process*
  - *6 Advancing PSAP Capabilities*

- *State-of-the-Art-Analyses and creating blueprints*

- *Significant effort in Germany (I_HeERO lead) >250 PSAPs to be upgraded*

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Activity 2 - eCall for HGV & Coaches

- *General objective: provide specifications, prototype and recommendations for future implementation*
- *Specific objectives:*
  - *Analysis of stakeholder needs and specification of interfaces*
  - *Prototype development and interfacing to existing information sources*
  - *Development of cost-benefit analysis for each of the specific vehicle groups*
  - *Recommendations on type approval legislation and next steps towards eCall implementation*

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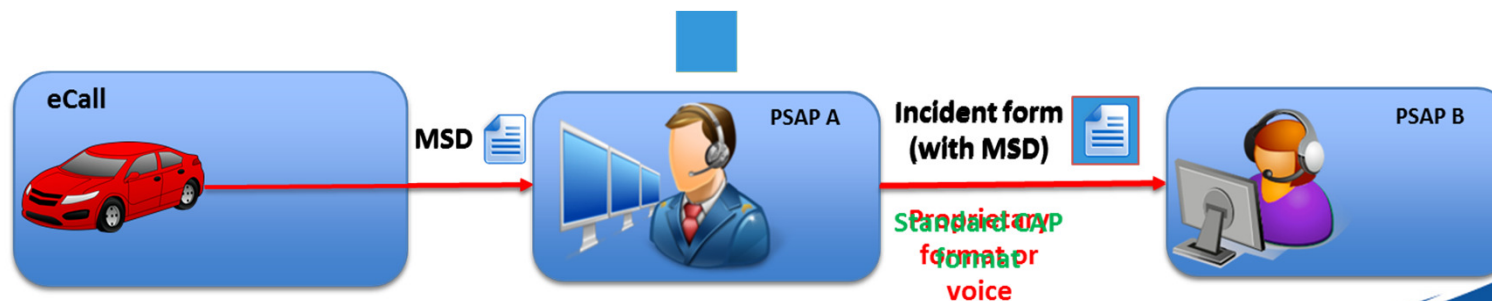Harmonised eCall European Deployment

Activity 3 - eCall for P2W

- *Define the requirements and architecture of an eCall device for P2W*

- *Define a reliable triggering mechanism for P2W*

- *Identify determining factors for accident and injury severity*

- *Define minimally complex system architecture to improve industry and market uptake*

Activity 4 - PSAP Data Integration

- *Definition of the interoperability between an MSD and a CAP message*
- *Proposal of an architecture that goes beyond the current "most appropriate PSAP" scheme*
- *Proposal of a robust scheme for eCall transmission*
- *Examples of added value data candidates and their sources, to be added to the MSD*

Activity 5 - NG112 eCall

- *Define how eCall will work in NG112*

- *Ensure a smooth migration of eCall to NG112*

- *Define additional information that should be transmitted to the PSAP for an NG112 emergency call*

- *Provide regarding vehicle installation, integration and interfaces*

- *Demonstrate aspects of NG112 eCall in Proof of Concept*

- *Ensure close cooperation with standardisation stakeholders EENA, ETSI, CEN*

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Activity 6 - Associate Partners

- *To share the experience to I_HeERO and the preceding HeERO activities with member states and commercial entities who are not I_HeERO partners*

- *Give access to I_HeERO documents*

- *Quarterly webinars on the progress of I_HeERO*

Harmonised eCall European Deployment

Value of transnational cooperation for eCall

Knowledge exchange *for safety critical applications*

Conformity assessment **harmonisation**

Interoperability *of service*

Boost MS **investment** *in the PSAP infrastructure*

Disseminate *eCall all over Europe*

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Thank you for your kind attention!