

# Deployment enablers and challenges & Final Recommendations

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# Agenda

- Enablers and challenges
- New emerging topics
- Recommendations

# Framework for eCall analysis

- Policy Layer
- Business Layer
- Operative Layer
- Technical/Technological Layer
- User Layer

# eCall main issues

## MNOs

- eCall Flag implementation
- Network coverage

## PSAPs

- PSAPs upgrade
- False calls

## IVS

- Complete type approval legislation

## End users

- Inform end users on eCall  
(data protection)

# Policy Layer I

- **IVS:** Proposal 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
- **PSAPs:** Decision 585/2014/EU: EU Member States have to install the eCall infrastructure required for the handling of all eCalls on the EU territory not later than 1<sup>st</sup> October 2017
- **MNOs:** Recommendation 2011/750/EU

# Policy Layer II

## Challenges

- PSAP need help with procurement
- There is no regulation on the implementation of eCall Flag
- Compliant with standards and conformity assessment required for filtering instance

## Enablers/Solutions

- P4ITS guidance (Procurement for ITS)
  - Introduce call for tenders to select the best PSAP technology provider
- Develop an eCall implementation roadmap
- Complete legislation on type approval

# Business Layer

## Challenges

- Extra costs for OEMs
- Funding of the filtering instance
- Funding of PSAPs upgrade

## Enablers/Solutions

- Offer additional ITS services with eCall
- Establish working groups to explore business models to upgrade PSAP
- Managed arrangements such as diverting eCall to one call taker
- I\_HeERO (CEF funding)

# Operative Layer

## Challenges

- Silent eCalls
- Training of operators

## Enablers/Solutions

- Use voice connection, MSD data, positioning, technical IVS specification
- Use EeIP guidelines
- Use HeERO2 training manuals



# Technical/Technological Layer

## Challenges

- IVS performance and interoperability
- Need to ensuring a good antenna performance

## Enablers/Solutions

- Homologation process that certifies interoperability
- Use fractal antenna technology to develop small antennas which fit inside the IVS and have good performances

# New emerging topics: P2W

- **Wearable eCall system**
  - must be linked to the vehicle (i.e. to determine the number of occupants)
- **IVS**
  - standardised accident detection system needed (i.e. sensors at the front end, at the rear end, side, oblique, etc.)

Testing solutions are needed

# Recommendations (European Level)

- Complete regulation on new type-approvals
- Introduce regulations on retrofit devices
- Further research and related road-mapping work on the long-term evolution of eCall
- Regulation on eCall Flag implementation (due 31/12/2014)

# Recommendations (Member States)

- Introduce call for tenders to select the best PSAP technology provider
- Develop a national eCall roadmap or a national eCall implementation plan
- Information between PSAP should be shared and updated
- Training of PSAP staff using training manuals produced in HeERO2

# Recommendations (eCall truck and dangerous goods)

- Define standards for integration of dangerous goods information into eCall
- Standardise how 112 centers interpret additional MSD information
- Need support from logistics companies to support eCall

# Recommendations (retrofit devices)

- Ensure correct installation
- Define clear requirements, standardisation and procedures for certification
- Introduce an independent body for certification
- Define a number of configurations templates for different combinations of retrofit devices and vehicles models
- Clarify liability aspects
- Analyse the location of the unit

# Recommendations (GNSS)

- IVS positioning system shall be equipped with GNSS multi constellation receivers
- IVS positioning system shall rely on inertial measurements unit

# Thank you for your attention!

## Questions?

Contact details:  
Selini Hadjidimitriou  
[selini@icoor.it](mailto:selini@icoor.it)  
ICOOR