HeERO 112

Harmonised eCall European Pilot

Deployment enablers and barriers

Matti Roine & Armi Vilkman

HeERO International conference

15th November 2012

Zagreb

Opportunities for eCall

- Good cooperation with the stakeholders in all pilot sites
- Real efforts to make the whole chain work

1st eCall Interoperability testing event, 21th May 2012

Content

- Approach of WP6 ”Barriers and enablers”
- Tasks and timing
- Framework for the analysis
- Further actions

Cooperation

- WP6 Leader/coordinator: Matti Roine/Armi Vilkman – VTT
- WP6 Manager: Aki Lumiaho – Ramboll
- WP6 participants:
  - ERT, ITSN, ADAC, OCN, NC, NXP, CONT, ITSRO, MINGR
  - PCM, CRF, TI, NPRD, STA, RWS, KLPD, EENA

- WP6 resources: 72,1 mmonths

FI eCall Leader: Anu Laurell – MinTC Finland

Objectives

Enablers and berriers - Opportunities

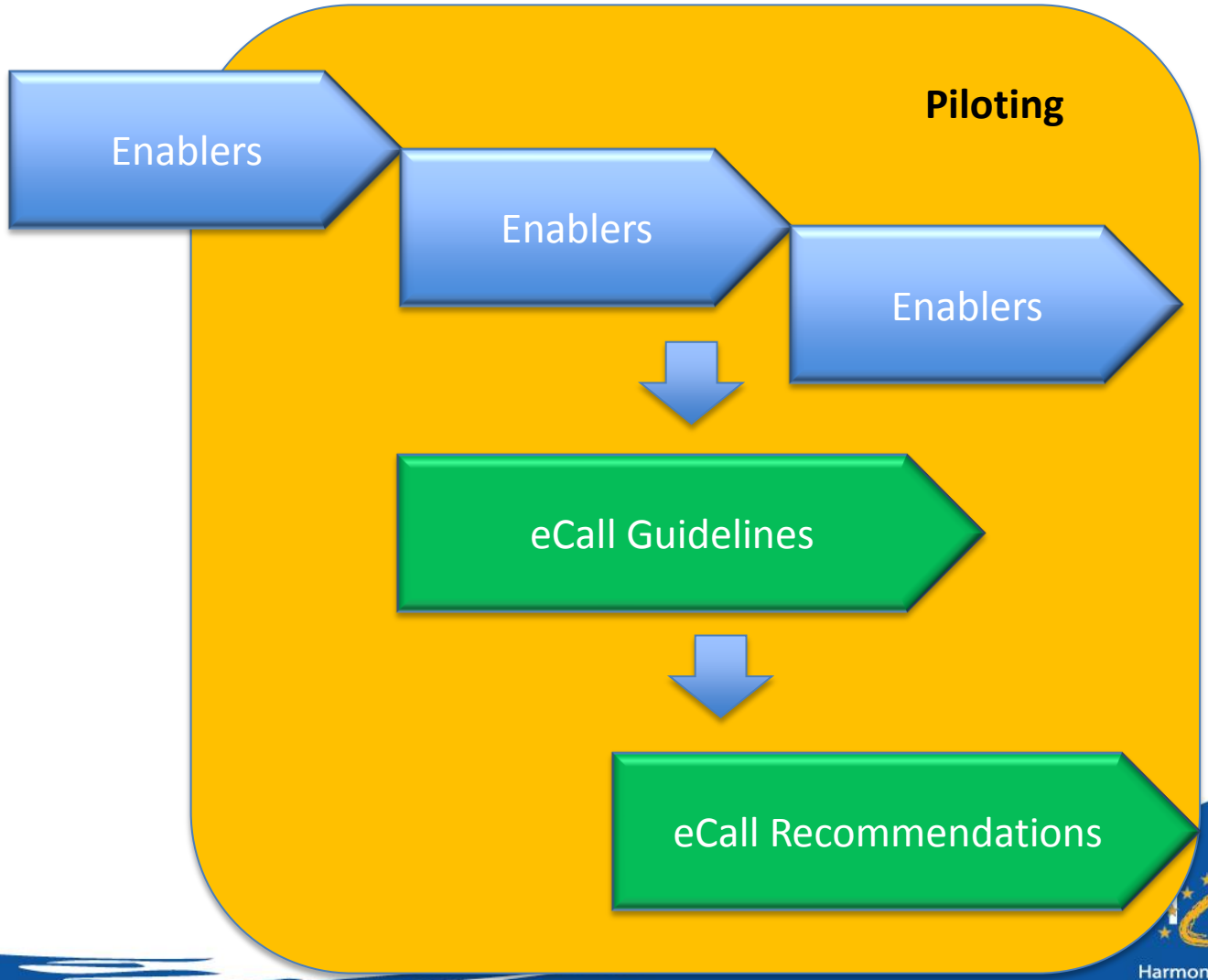
- Investigates in details enablers, barriers and solutions towards fast implementation of pan-Euroean eCall

- In detail:
  - To identify deployment barrires at specific local but also common to all MS, including legal ones, and propose measures to overcome them
  - To identify deployment enablers relevant to industrial parteners, relevant to authorities and relevant to end-users
  - To identify possible use of eCall system for public/private value added services
  - To identify needs for certification and define recommendations for certification procedure
  - To define the eCall Deployment Guidelines
  - To produce recommendations for eCall implementation and operation in European Member and Associated States

Tasks

- Identification of deployment barriers, enablers and solutions
  - 1., 2. and Final version
- Steps for certification
- eCall deployment guidelines
- Recommendations for eCall implementation

Enablers and berriers - Opportunities



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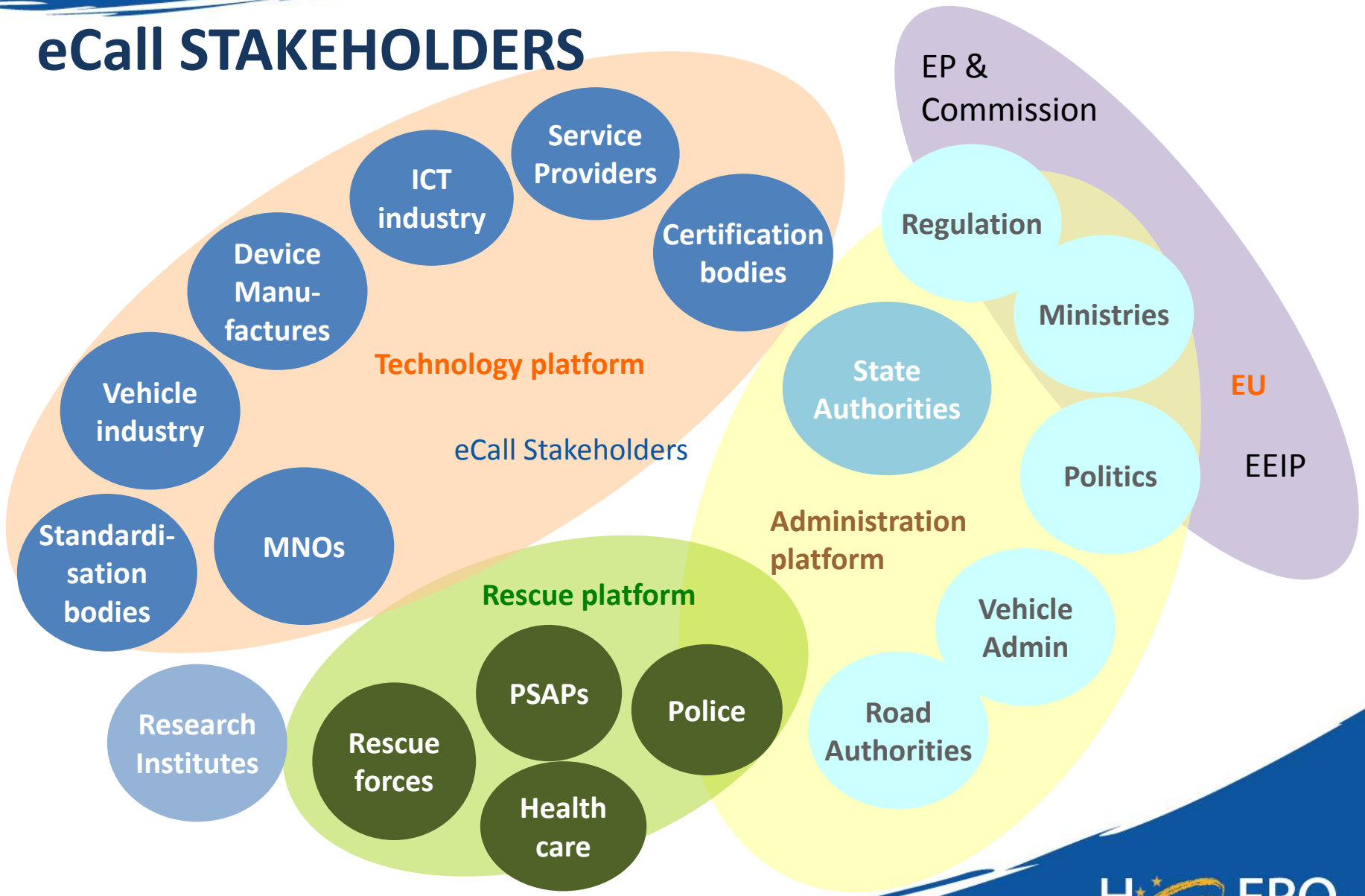
eCall STAKEHOLDERS



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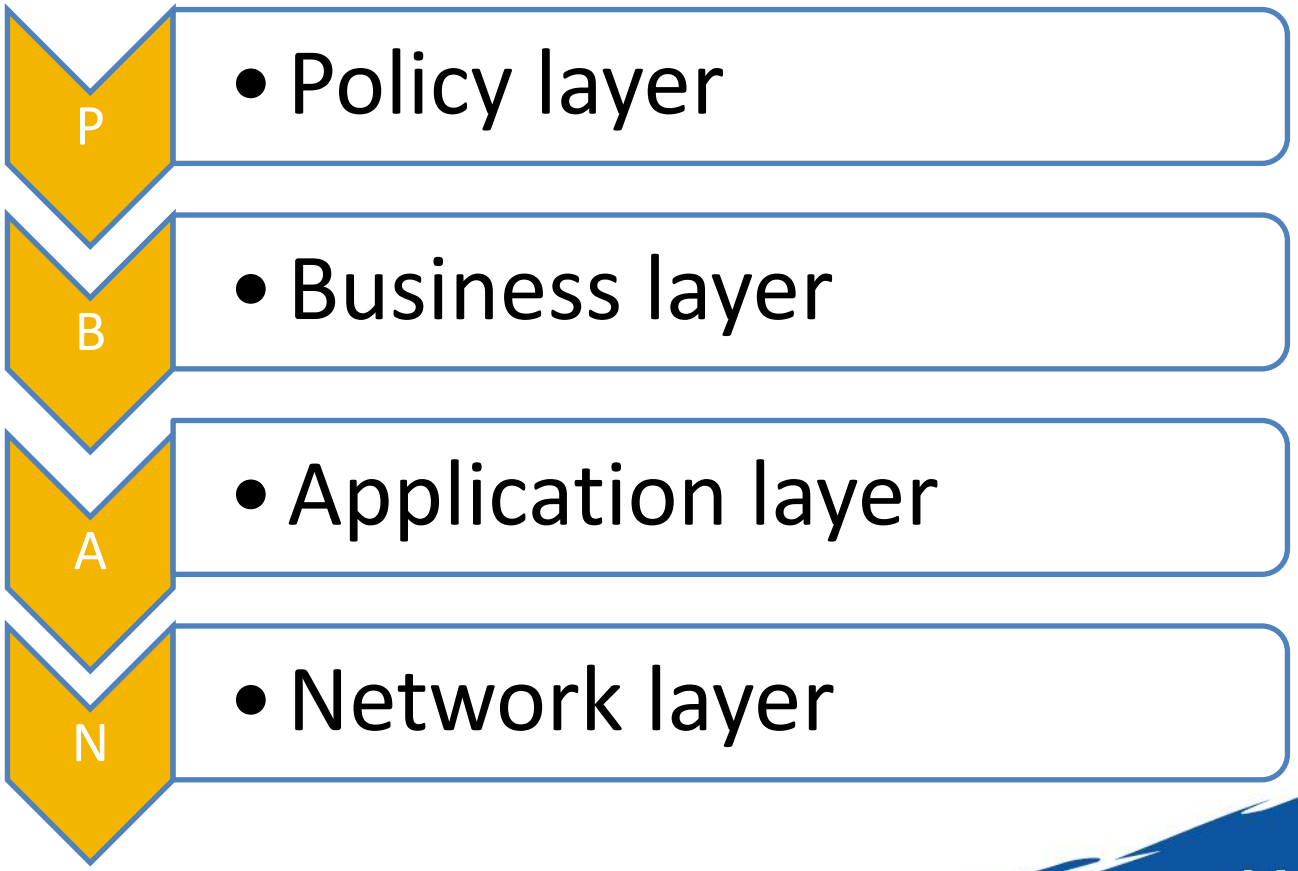
Overview of the situation

- “Barriers, enablers and opportunities” insights gathered from partners before the piloting phase started in 2011, reported
- Second phase integrating situation after the first piloting phases: solutions and experiences, started
- “Steps for eCall Certification” in process, to be finalised soon
- “Guidelines for eCall deployment” starting
- “Recommendations”, starting later on in 2013

General Framework for eCall analysis

1. Phase



General Framework

- **Policy layer** (eCall policies and implementation, national policies and implementation, general regulation e.g. privacy and safety)
- **Business layer** (all administrative, financial and organisation issues, identification of the stakeholders/actors, regulation affecting the markets and roles, issues related to user - needs and feedback, service and business architecture, markets)
- **Application layer** (technical architecture of the service, interfaces between systems, technical service quality, user interfaces and devices etc.)
- **Network layer** (all communication between systems and stakeholders, interoperability, shared communication protocols and physical components of the system, the mobile communication infrastructure)

Policy situation

- Clear commitment from EP (e.g. the EP resolution in July 2012) and Commission
- 29 countries signed eCall MoU (+107 companies)*
- Are all stakeholders & authorities within MS in the same line? (Road-PSAP-Rescue-Health etc.)
- Emergency rescue services and PSAP structures vary a lot in the countries > tailored specifications and implementations needed
- Certification process to be set up

*Situation 10/2012

Business situation

- Financing the upgrading of systems (PSAPs, MNOs etc.) need state regulation
- IVS market develops faster when the demand is formed up in piloting
- Retrofit one of the new working area
- Smartphone discussion opened
- TPS & value added services need a common policy - eCall and other services on the same platform?
- Costs/ Benefits for the value chain: are costs rightly distributed?

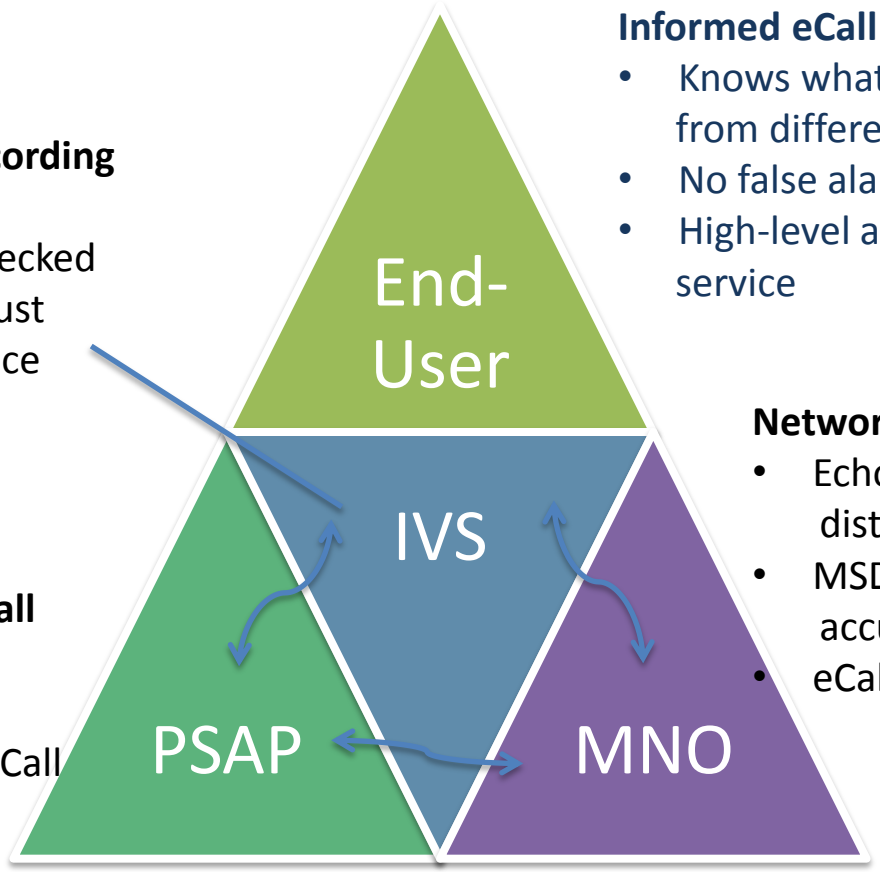
Applications/Networks situation

- Piloting brings up the weak and strong links in the chain (see next slide)
- Standards are still insufficient and may also include faults: tasks to the HeERO TF
- Tailoring required in piloting phase because of the variety of PSAP system environments
- MNO and eCall flag implementation required, regulation progressing
- MNO´s have also clear expectations for the well functioning service

eCall building blocks

Informed eCall users
- Knows what he/she gets from different options
- No false alarms
- High-level and guranteed service

Works properly according standards
- Certified and checked
- Enduring & Robust
- Long maintenance cycle



Network Coverage adequate
- Echo & voice handling does not disturb eCall
- MSD & eCalls with priority speed, accurracy nd quality
- eCall flag

System updated for eCall
- Receiving correctly
- Operators trained
- Processes back up eCall

D6.3: Table of contents 1/3 - Preliminary

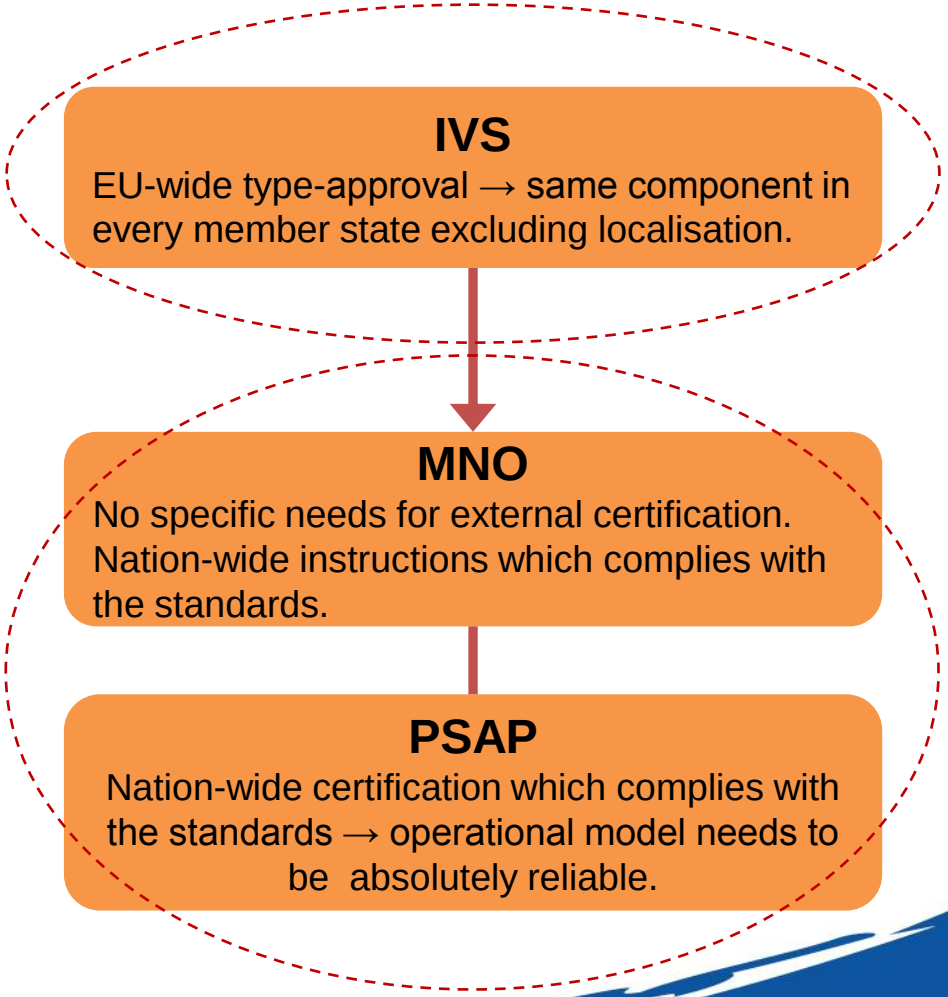
D6.3: Table of contents 2/3 - Preliminary

D6.3: Table of contents 3/3 - Preliminary

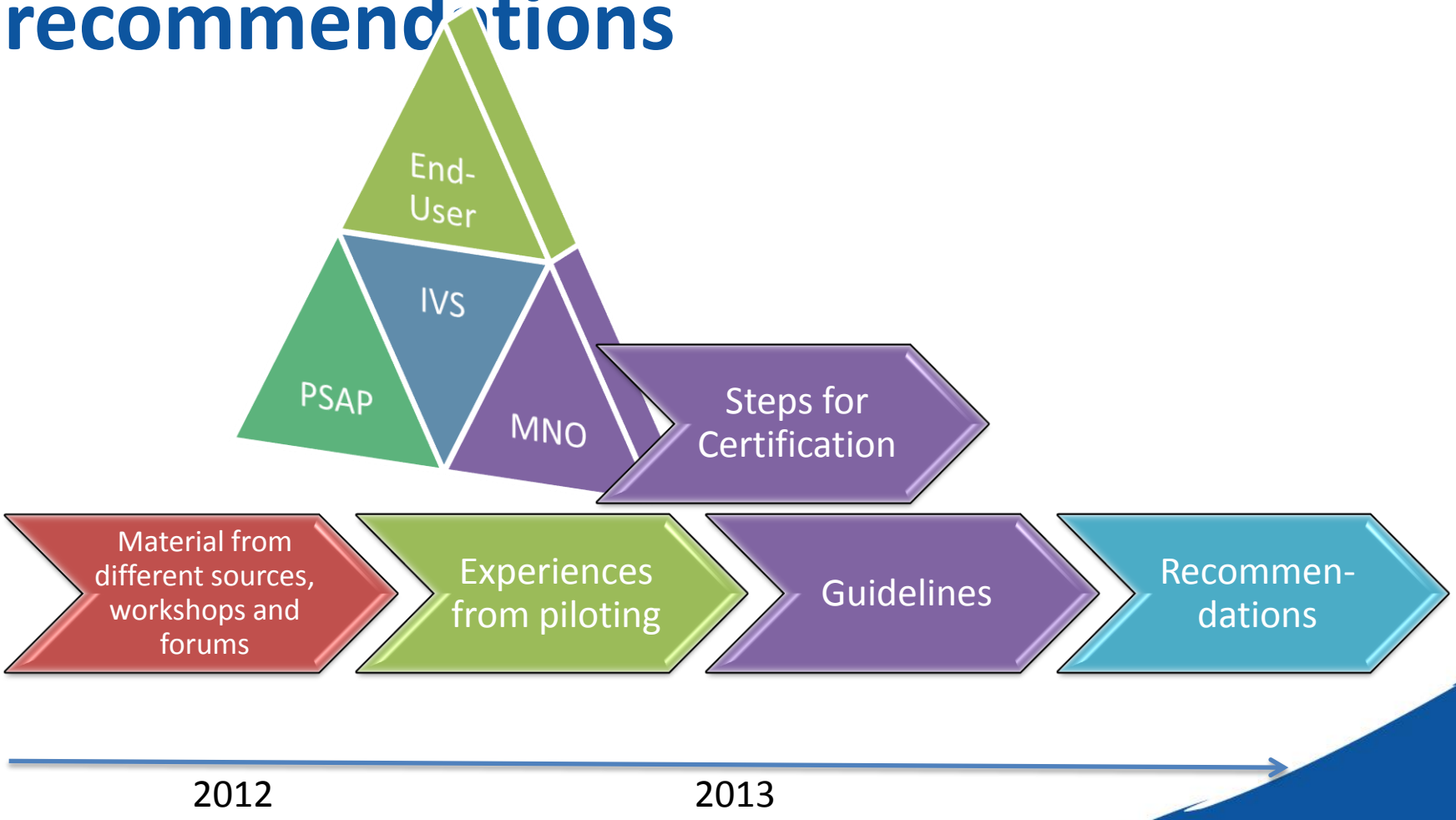
D6.3: Needs for eCall Certification – two suggested solutions - Preliminary

Own type-approval certification

Common certification possibility



Preparing the guidelines and recommendations



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“Guidelines for eCall deployment”

- **Why** – to help eCall implementation and deployment
- **For whom** – identification of all main actors and their special needs
- **How** – timeline related to eCall deployment and e.g.
  - Organisation, roles and management
  - Issues related to standards
  - Specifications
  - Certification procedure
  - Financial issues
  - Technology innovations
  - Connections: bCalls /TPS eCall, TMC

EEIP Pan-Eu eCall implementation Guidelines

(Last revision 3th February 2012)

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Directions to Guidelines?

- **Why?**
- Better safety for road users in Europe
- Faster and more effective take-up and deployment in MS
- Choosing strategy, overcoming problems and avoiding errors, min financial burden

- **Whom?**
  - Decision or/and operational levels
  - MS not piloting yet
  - IVS, MNO, PSAP organisers and operators
  - Other stakeholders
- **How**
- Existing eCall and other material
- HeERO pilot exeperiences and solutions to identified problems
- In cooperation with main stakeholders

- **When**
- By May 2012

Recommendations

- Integrating all piloting experiences of piloting towards implementation
- Transfering major experiences to solutions and recommendations
- Recommendations seen as reaching the best-practise
- Avoiding loss of resources and reaching high-level pan-European interoperable eCall service implementation

Thank you for attention
Questions ?