

I_HeERO Ostrava

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Agenda

- I_HeERO Member State Update
- Where could eCall go?
- Is technology an Issue?
- It's a brave new world!

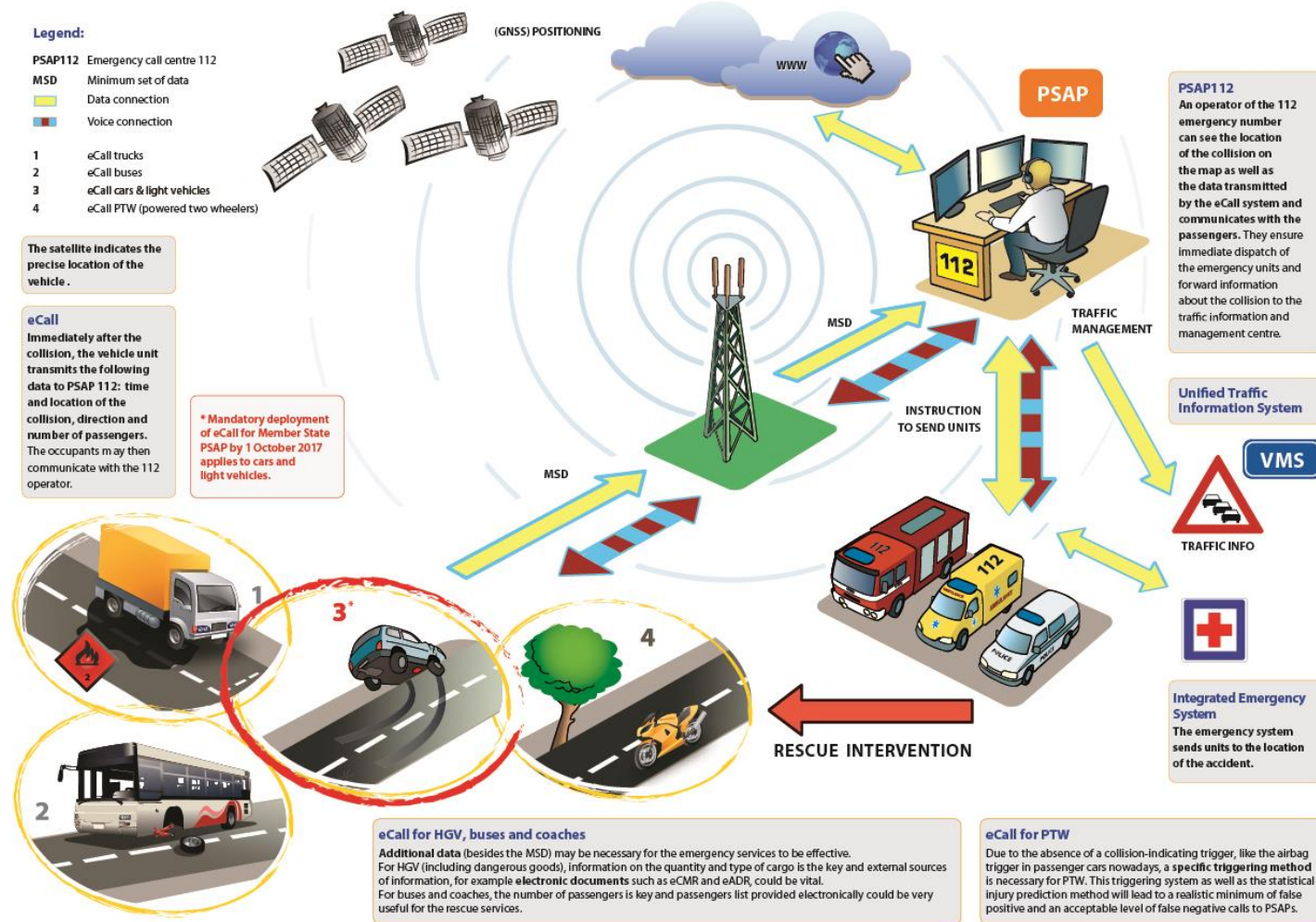


Where is eCall now?

- Public Safety Answering Points in Europe should be ready now (1st October 2017)
- New types of cars and lights trucks will be equipped after 1st April 2018
- Significant increase in private eCall systems being offered
- This is the first mandated Internet of Things (IoT) deployment in Europe, possible the World



eCall architecture one more time!



Member State: *Bulgaria #1*

- MS Status upgrade completed – In progress
- How many PSAP enabled for eCall – Sofia PSAP installed equipment
- Conformity Assessment completed – Under contract



Member State: *Czech Republic*

- MS Status upgrade completed – Yes 1st September domestic legislation came to force eCall flag is now obligatory in Czech Republic. MNOs must evaluate this parameter and route the call accordingly.
- PSAP infrastructure, complete and being tested –
- The Computer Aided Dispatch (CAD) now complete after a 9-month modernization program
- All the eCall functionalities are part of this new release. The change over for CAD application is planned for 20th September which will include the connection to Central Car Registry and EUCARIS as well as the National Traffic Information Centre
- Anticipate to start eCall operations for public 112 on 26th September
 - The requirements of Decision No. 585/2014/EU will be met.
 - Between October 2017 and February 2018 we will run more tests (stress tests, cross-border tests.)



Member State: *Cyprus*

- MS Status upgrade completed -
- How many PSAP enabled for eCall - 1 + 1 Backup
- Conformity Assessment completed – Yes
- Problems identified
 - Involvement of the MNO Regulator is crucial for MNO implementation of eCall flag
 - Total lack of a computerized PSAP
 - Collecting information from the PSAP operator (Police)
 - Coordination with the PSAP operator
 - Public Procurement Processes causing considerable delay in implementing the upgrade
- Unresolved Issues
 - Conformity Assessment Tender assignment



Member State: *Finland*

- MS Status upgrade completed - **Yes**
Target is to get eCall ready by 1 Oct 2017
- How many PSAP enabled for eCall - **6 PSAPs and 1 test PSAP**
- Conformity Assessment completed - **No**
Target date for the Conformity Assessment end of Oct 2017
- Problems identified - **None**
- Unresolved Issues - **None**



Member State: *Germany #1*

- More than 250 112 PSAPs
- Different regional responsibilities and regulations within 16 Federal States
- Variety of technical infrastructures from “outdated” to “brand new”
- Many PSAP planned to install “new infrastructure” in 2019, 2020, 2021...
- The I_HeERO team had 1:1 talks and conferences with all 253 German PSAPs...

Germany Status Sept 2017

- 75% of PSAPs will finish upgrade in Sept 2017
- Missing 25% will finish upgrade until Dec 2017
- Variety of upgrade infrastructure from „totally integrated“ to „temporary solution“
- Conformity assessment by self declaration and functional on-site tests
- eCall flag handling working in all networks
- eCall in Germany may be complicated, but we have hit the Gordian knot!



Member State: *Greece*

- MS Status upgrade completed - **Yes**
- How many PSAP enabled for eCall - **One**
- Conformity Assessment completed - **Tests completed, we are expecting the Hellenic Accreditation System 's response on the Authority responsible to issue such a certificate**
- Problems identified - **No**
- Unresolved Issues - **No**



Member State: *Ireland*

- MS Status upgrade completed – In progress
- How many PSAP enabled for eCall – 1 on 1/10/17
- Conformity Assessment completed – In progress
- Problems identified – Delay in finalising contract for new call answering system led to revised approach to eCall deployment. eCall hardware has been delivered, built and installed. Software development commenced deployment 11/09 with completion expected 22/9. Testing is scheduled for the week beginning 25/09, with the PSAP enabled for eCall on 1/10/17
- Unresolved Issues – New PSAP operator yet to be nominated



Member State: *Italy*

- MS Status upgrade completed - Yes
- How many PSAP enabled for eCall - 1 PSAP
- Conformity Assessment completed - No but being arranged
- Problems identified - None
- Unresolved Issues - We are waiting to have a confirmation about the identity of the Italian Competent Authority for eCall



Member State: *Luxembourg*

- MS Status upgrade completed - **Yes**
- How many PSAP enabled for eCall - **1 PSAP**
- Conformity Assessment completed - **Yes**
- Problems identified - **None**
- Unresolved Issues - **None**



Member State: *Portugal*

- Member State Upgrade completed - Yes
- How many PSAP enabled for eCall – 2 PSAP enabled for eCall, one in Porto one in Lisbon end to end testing also completed.
- Conformity Assessment completed – Not yet, estimated conclusion - 31st October.
- Problems identified - Misconfigured handsets, generated a large amount of false eCall calls. Workaround solution is already in place
- Unresolved issues, - The new CEN standard for the Conformity Assessment of the PSAP will be approved and published shortly, we will use for this purpose the reference documents developed in the scope of I_HeERO, based on the standard EN 16454.



Member State: *Slovenia*

- MS Status upgrade completed - Yes
- How many PSAP enabled for eCall - 13
PSAP
- Conformity Assessment completed - Yes
- Problems identified - None
- Unresolved Issues - None



Member State: *United Kingdom*

- Member State Upgrade completed - Yes
- How many PSAP enabled for eCall – 5 PSAP enabled for eCall,
- Conformity Assessment completed – Not yet, being arranged with a UK based Testing House
- Problems identified - Misconfigured handsets, generated a large amount of false eCall calls. Investigations continuing
- Unresolved issues, - Passing the information to the emergency services. The current solution is a tactical solution which will not fully decode the MSD



Where could eCall go?

- Mandated eCall is a start but it does not address significant groups of roads users at real risk **BUT** it is a start!
- eCall Commercial Vehicles
- Powered Two Wheeled Vehicles
- What about existing vehicle owners?
- Traffic Control Centres –
 - Individual cameras
 - Big Data – opportunity to exploit data



Is technology an Issue?

- Existing eCall technology is older than most networks being deployed across Europe
- 2G and 3G Networks slowly being shut down across Europe
- 4G and then 5G will become the norm.
- Backward compatible solutions for eCall being developed now
- 4G eCall will look different to eCall now



It's a brave new world!

- New types of eCall:
 - Agricultural vehicles
 - Commercial Vehicles
 - Powered 2 Wheel
- 4G technology increases the opportunity for different sensors and data
- BUT who will decide what sensors are best for the emergency services?



Any Problems? #1

- Existing
 - Fake eCall older mobile handsets
 - SIM purchases, Where in the world!
 - SIM profile M2M may not be the answer!
 - Conformity Assessment who is doing yours?
 - Procurement a difficult process!
 - Certification of IVS units



Any Problems? #2

- Future
 - New Standards required
 - After-Market 262 million vehicles could this be a business opportunity?
 - Next Generation of IVS, what will they look like?
 - Connected and Autonomous Vehicles
 - Standards and Specifications do not always keep pace with technology
 - Network evolution – Future proof?



Questions



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