# Romanian Pilot Site

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# Summary

- Strategy for the e-Call Deployment in the country
- Main stakeholders (Consortium)
- Test Site description
- Overview of the current testing activity
- Main result of the tests
- Main issues and proposed solutions/countermeasures
- Plans for the future
- Dissemination

# Strategy for the e-Call Deployment in the country

- Seamlessly integrate the eCall service in the existing 112 system without changing the current system architecture

- Integrate eCall at national level in the 112 PSAPs and in all the emergency agencies

- Use a centralized approach

- Present the incoming eCalls to the 112 operators in the same interface as normal 112 calls, updated with data from MSD

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# Project Consortium

- National consortium
  - ITS Romania – national coordinator / dissemination
  - STS – 112 PSAP administrator / WP3 coordinator
  - RNCMNR – traffic management centre
  - UTI Systems – VIN processing & MSD decoding subsystems
  - ELSOL – 112 PSAP–TMC interface
  - RAU – dissemination
- Supporting partners
  - IVS: Civitronic, Cinterion
  - MNOs: RDS-RCS, Orange, Vodafone
  - DRPCIV – national EUCARIS database

# Test site description (1/2)

- The eCall system implemented in Romania is centralized (all the calls are received in Bucharest and then routed to the county emergency agencies)

- 2 different IVSs were used for the majority of tests

- eCall flag was implemented by one MNO in all the counties where tests were made and only in test cells by other 2 MNOs

- Interoperability tests:
  - Croatia: completed in both ways (HR IVS -> RO PSAP, RO IVS -> HR PSAP)
  - Italy: on-going

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# Test site architecture
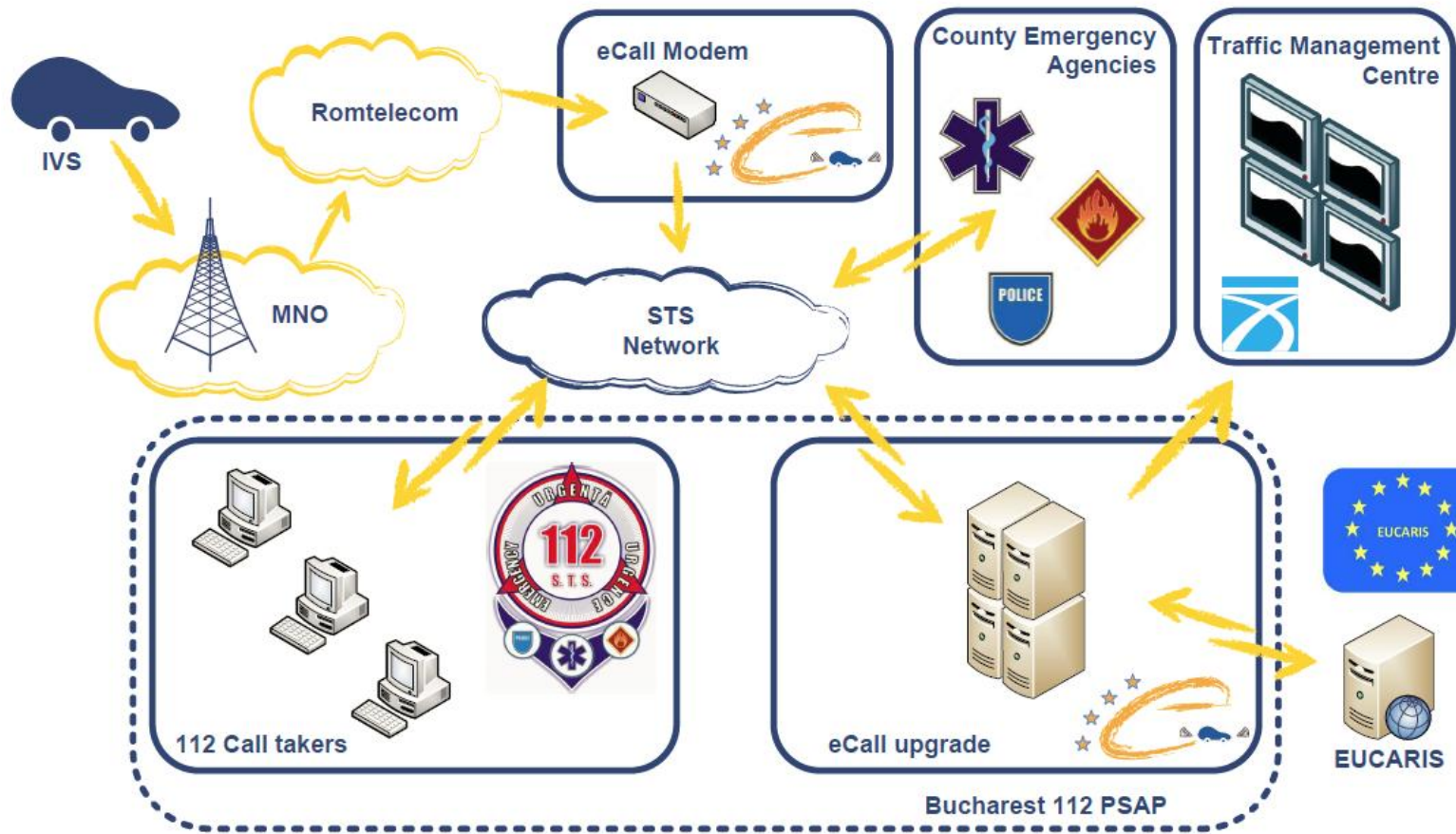
# Test site description (2/2)
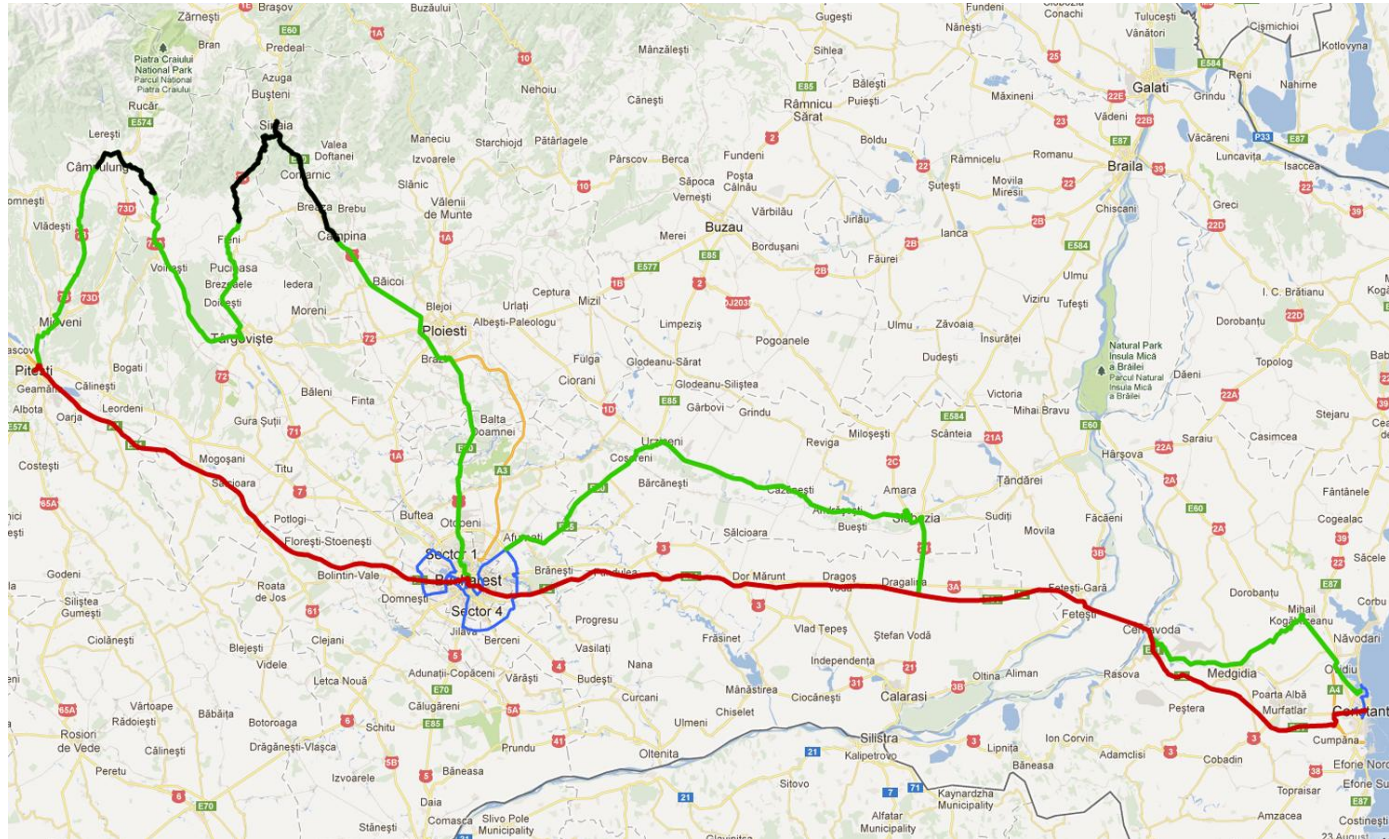


Legend

**Motorway**
**Rural**
**Urban**
**Mountain**

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# Overview of the current situation (1/2)

- Most of the tests were done in the live 112 system using the 112 number and eCall flag

- During the tests a real 112 operator was answering the calls

- Tests covered the distribution chain from the vehicle to the real live 112 PSAP and to a simulated emergency agency (to avoid disturbing the real ones)

- Tests included driving sessions and different types of areas from where eCalls were generated (urban area, rural area, mountain area and highway).

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# Overview of the current situation (2/2)

- Besides the regular chain for eCall, two additional functionalities were tested:
  - Interface with EUCARIS: the emergency agency operator has the ability to query the database to get more information from the VIN (the 112 operator hasn't got this option)
  - Interface with Traffic Management Centre: the TMC receives data about the incidents at the same time as the emergency agencies

# Main outcomes of the tests (1/2)

- Over 30 test sessions between May and July 2012

- Over 1000 real life tests were done

- 3-4 seconds to present the call to the 112 operator (mean value)

- 15 seconds to present the MSD content to the 112 operator (mean value)

# Main outcomes of the tests (2/2)

- Conclusions
  - The in-band modem seems to have a slightly lower robustness than the voice call itself due to low radio coverage.
  - The eCall in-band modem seems to work quite well when voice coverage is good.
  - Because EUCARIS information is requested automatically by the system when the MSD is received, when an operator tries to view it, the information is displayed almost instantly.

# Main Issues

- Problems with IVS switching in another network when the signal is weak

  **Solution**: We are discussing with our IVS suppliers to    change this behaviour.

- Call-back isn't possible when the IVS calls from other network than the native one

  **Solution:** We are discussing with the national regulation authority for communications about    implementing national roaming.

# Public / User Acceptance

- Public Acceptance
  - First impressions are positive
  - The public is concerned about privacy
  - A questionnaire for analyzing the level of acceptance will be distributed in the first part of 2013

- User Acceptance
  - National fleet services providers receive requests for eCall on their vehicles
  - Users are interested in buying aftermarket devices for their current vehicles

# Plans for the future

- Plans for the future towards deployment
  - Defining the EUCARIS data fields that are required by the emergency agencies
  - Transferring calls to the real live emergency agencies and involving them in the operational tests
  - Test eCall flags with the other MNOs
  - Defining procedures for using eCall data in TMC
- Dissemination
  - International HeERO Conference planned for November 2013

# Thank for the attention

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# Questions ?