



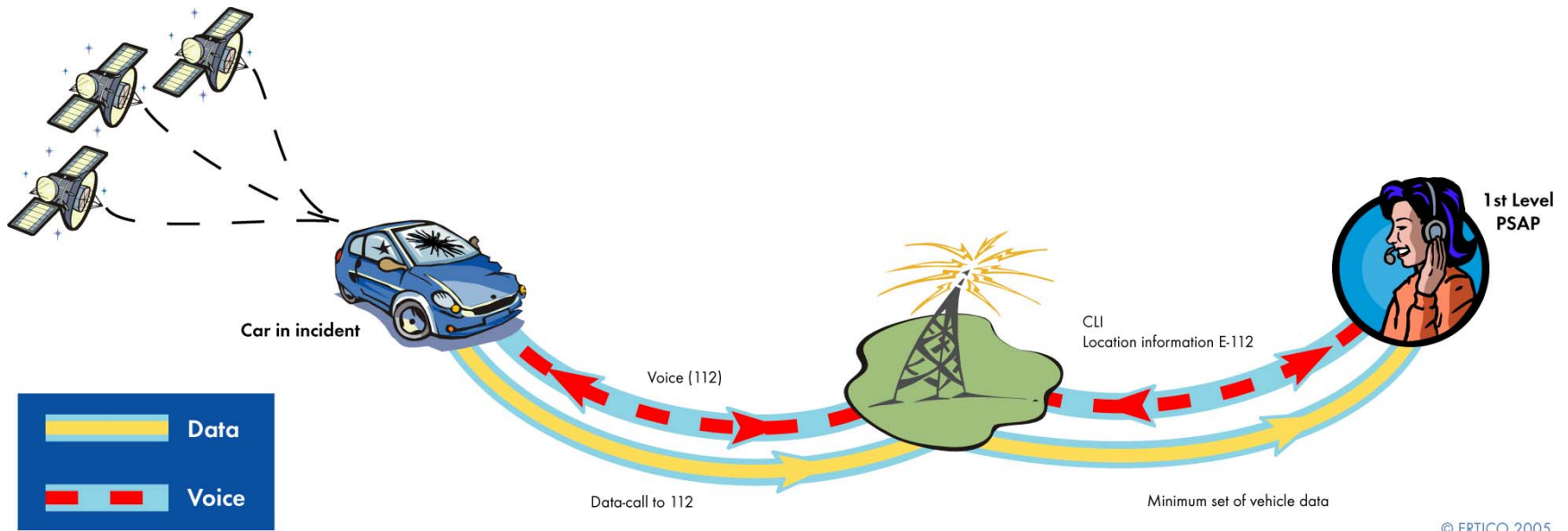
eCall performance criteria



Rasmus Lindholm
eSafety Support

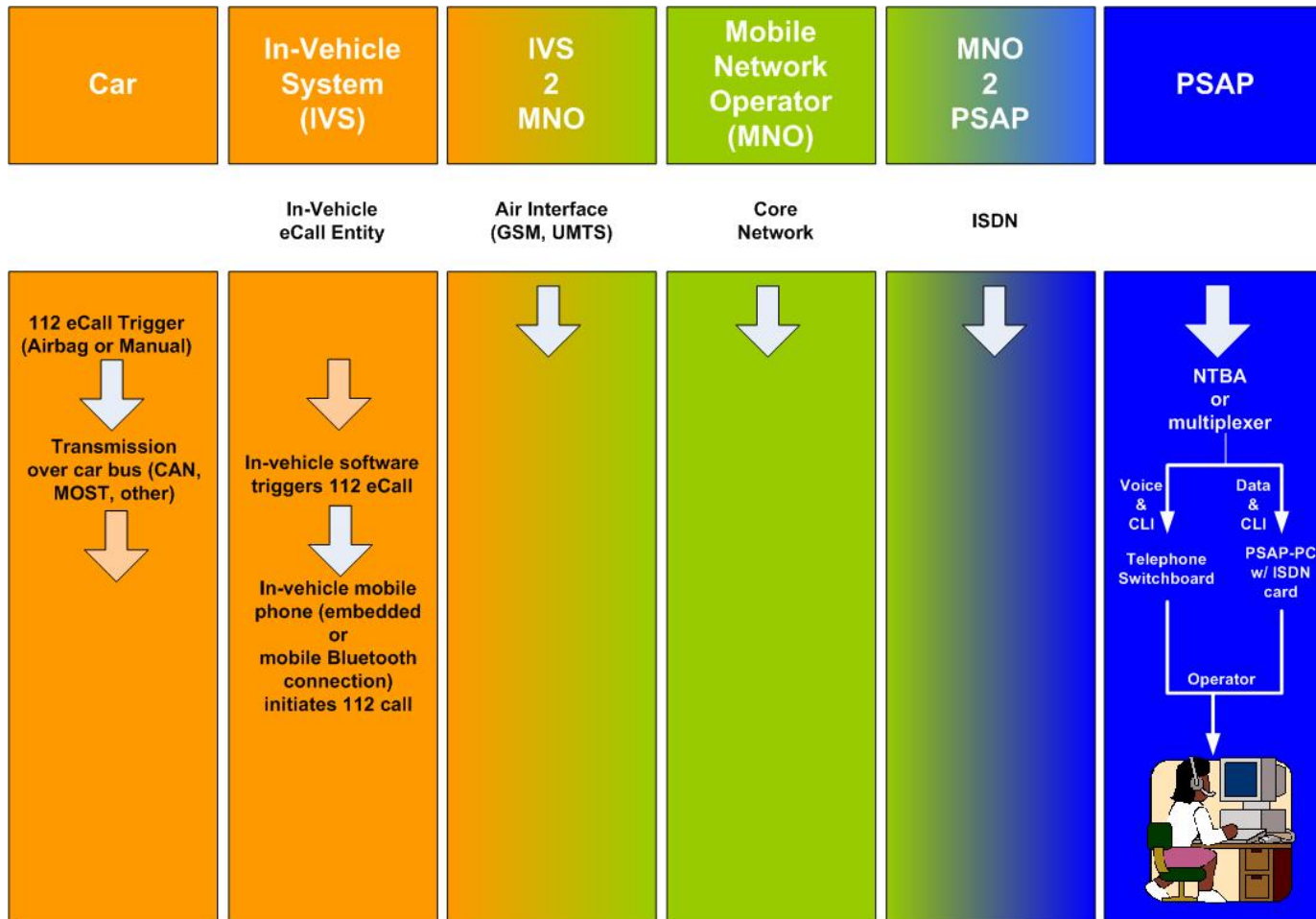
DG eCall meeting
24 April, Brussels

eCall as Public Service



Minimum Set of Data – DG eCall

eCall service chain



Suggested reliability for full eCall service chain

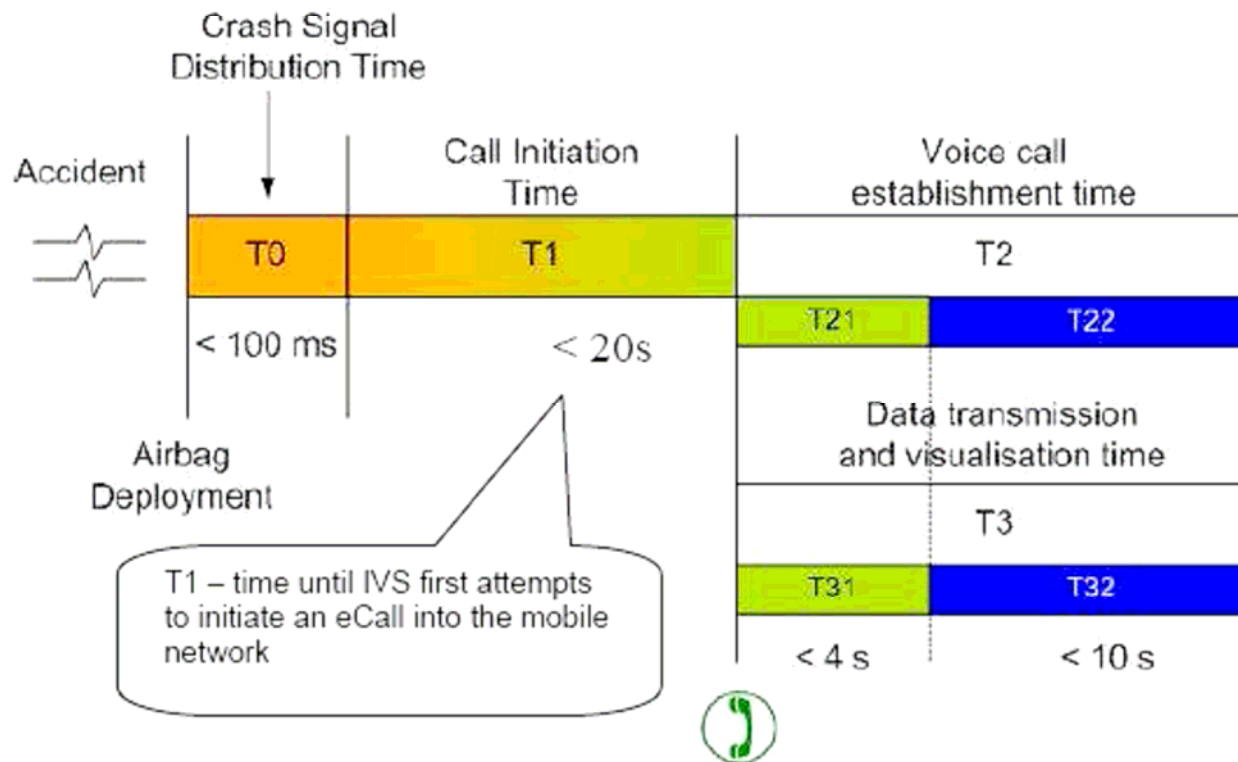
- o 90% in 2010
- o 95% in 2015
- o 98% in 2020



end2end Performance criteria



Suggested performance criteria for timing in the eCall service chain – overall < 34 Seconds



Suggested performance criteria for deploying eCall service



o Timing for triggering an eCall

- A maximum of 20 seconds from the accident has occurred to the transfer of the eCall from the In-Vehicle System to the communication modem

o Automatic triggering

- Preventing false calls by triggering based on agreed sensor deployments and thresholds

o Manual triggering

- Preventing false calls through the HMI e.g. by
 - ✓ holding the eCall bottom down for three seconds
 - ✓ push it twice within 5 seconds

o Location accuracy

- Satellite based positioning performance – currently as a minimum:
 - ✓ ≤ 50 meters (in 50% of all cases)
 - ✓ ≤ 150 meters (in 95% of all cases)
-

Performance criteria IVS - MNO - PSAP



o Same as for 112 and E112

- The emergency call should be given the highest priority through the mobile network
- Transmission time for voice and data should be no more than 4 sec - UK requirement for 112. Average today being 6 sec.
- Transmit voice and data to the nearest PSAP
- Reliability for service chain
 - ✓ 90% in 2010
 - ✓ 95% in 2015
 - ✓ 98% in 2020
- Full Roaming capabilities



Performance criteria for PSAP



o Map accuracy

- 15 meters – measured against WGS84
- Road geometry – lowest local level
- Road naming – Each road must have a name
 - ✓ In Artery category 1 to 4: 99.9% must have a name;
 - ✓ In Artery category 5: 97% must have a name; and
 - ✓ Accuracy of the road naming: each road name must be the correct.

o Operational procedures

- Answering incoming emergency calls
- Evaluation of incoming calls
- Routing calls to dispatch centres or direct dispatch of emergency unit

o Timing

- ≤ 10 Sec. for voice response
- ≤ 10 Sec. for receiving the MSD and visualising location



Thank you!



Rasmus Lindholm
r.lindholm@mail.ertico.com
www.esafetysupport.org
