

# OHCAR, Europe and the Big Messages

**RESUS 2013  
Limerick Racecourse  
27<sup>th</sup> April 2013**

Siobhán Masterson  
OHCAR Manager  
On behalf of the OHCAR Steering Group



# OHCAR Steering Group

- Prof. Gerard Bury, UCD Centre for EMS
- Mr. Gerry Clarke, Operational Support & Resilience Manager, NAS
- Dr. Conor Deasy, ED Consultant, Cork University Hospital
- Dr. John Dowling, Director NW Immediate Care Programme, Donegal
- Ms. Jacqueline Egan, Programme Officer, PHECC
- Dr. Joseph Galvin, Cardiologist, Connolly and Mater Hospitals
- Dr. Geoff King, Director, PHECC
- Ms. Siobhán Masterson, OHCAR Manager
- Prof. Andrew Murphy, Dept. General Practice, NUIG
- Dr. Cathal O'Donnell, Medical Director, NAS
- Dr. Peter Wright, Public Health Director, HSE

# Aim

- Compare OHCAR with other European Registers
- Describe key results from OHCAR
- Suggest what can be learned from OHCAR data



# OHCAR Coverage



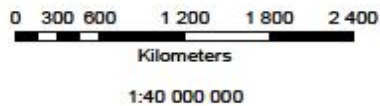
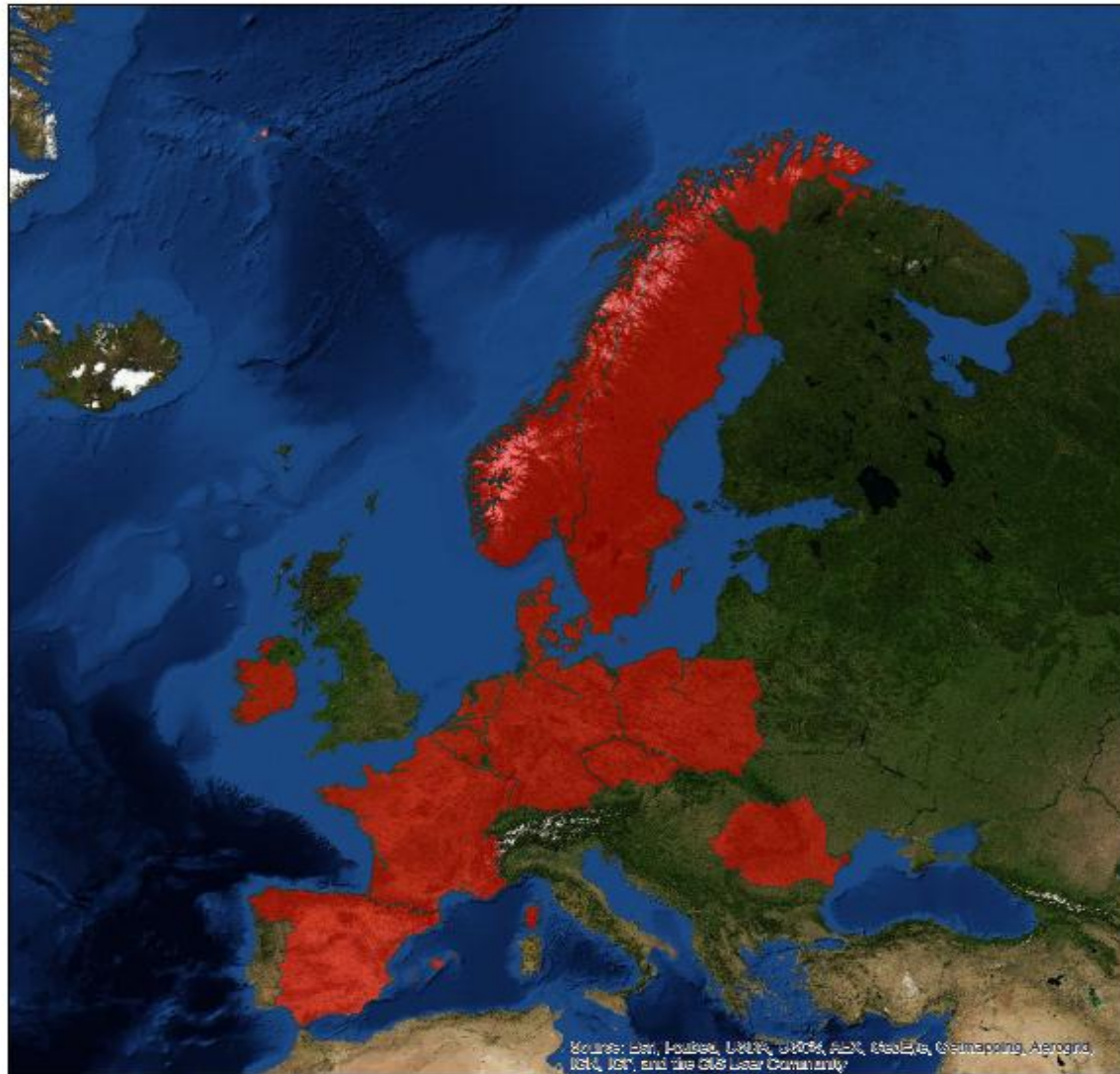
# OHCAR Inclusion Criteria

All patients who suffer a witnessed or un-witnessed Out-of-Hospital Cardiac Arrest which is confirmed & attended by Ambulance Services and resuscitation attempted.





# Today - European Resuscitation Cardiac Arrest Register



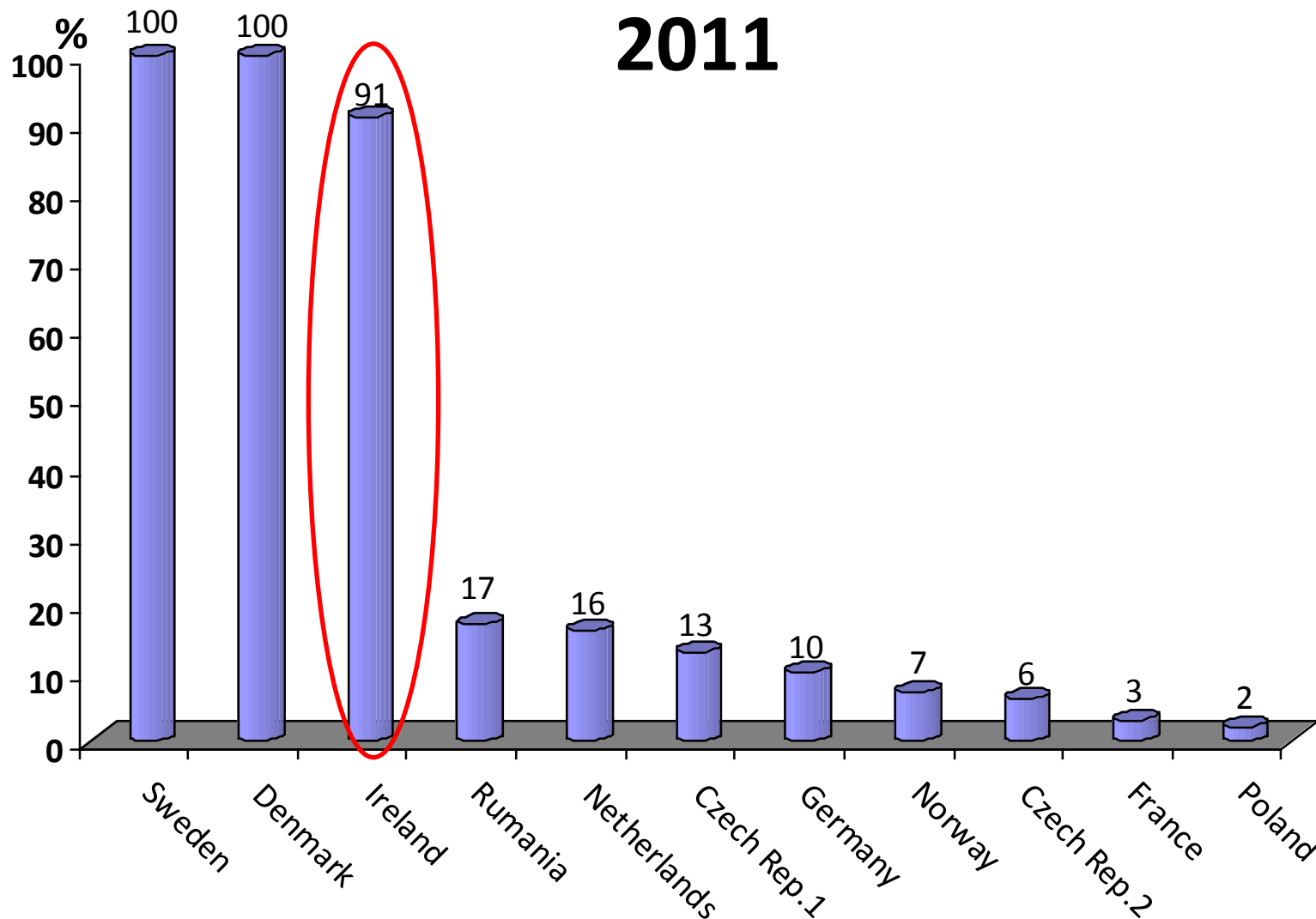
**Legend**

 EuReCA Countries



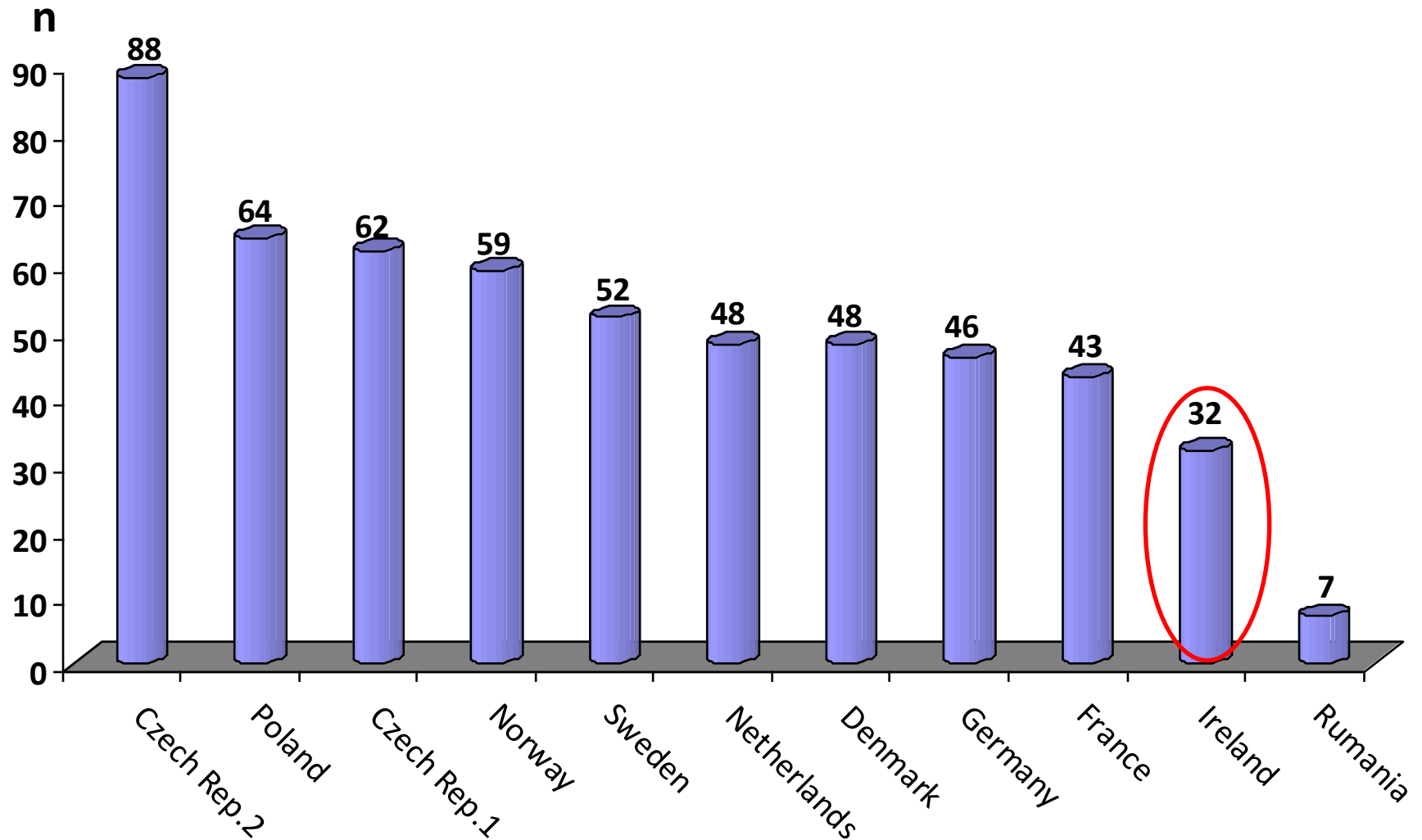
Andreas Isgren Karlsson  
Högskolan Dalarna  
2012-10-15

# Proportion of total population in the country that is covered by the register in 2011

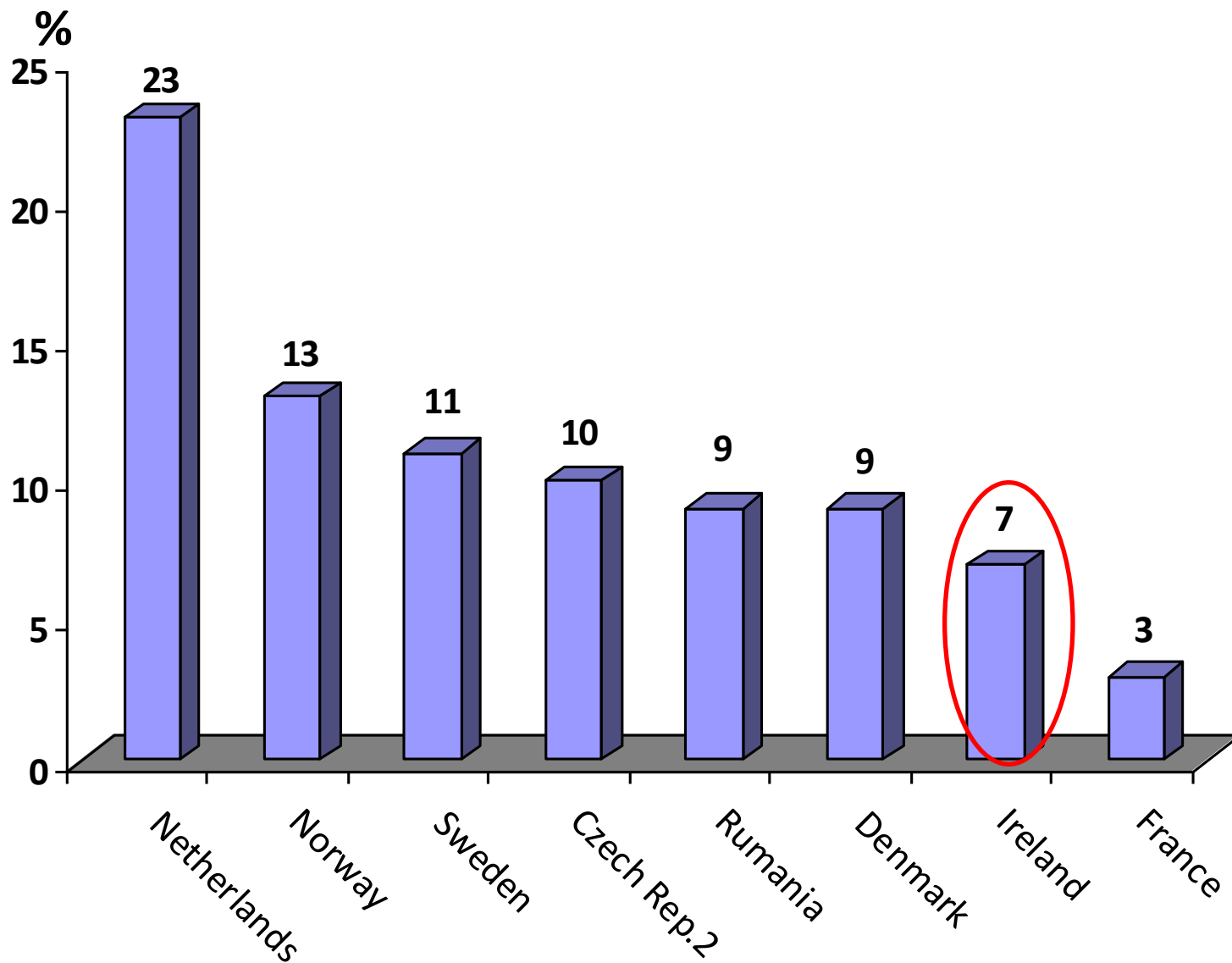




# Reported Incidence of resuscitation attempts per 100,000 inhabitants 2011



# Percentage Survival to Discharge



2011 OHCAR cases

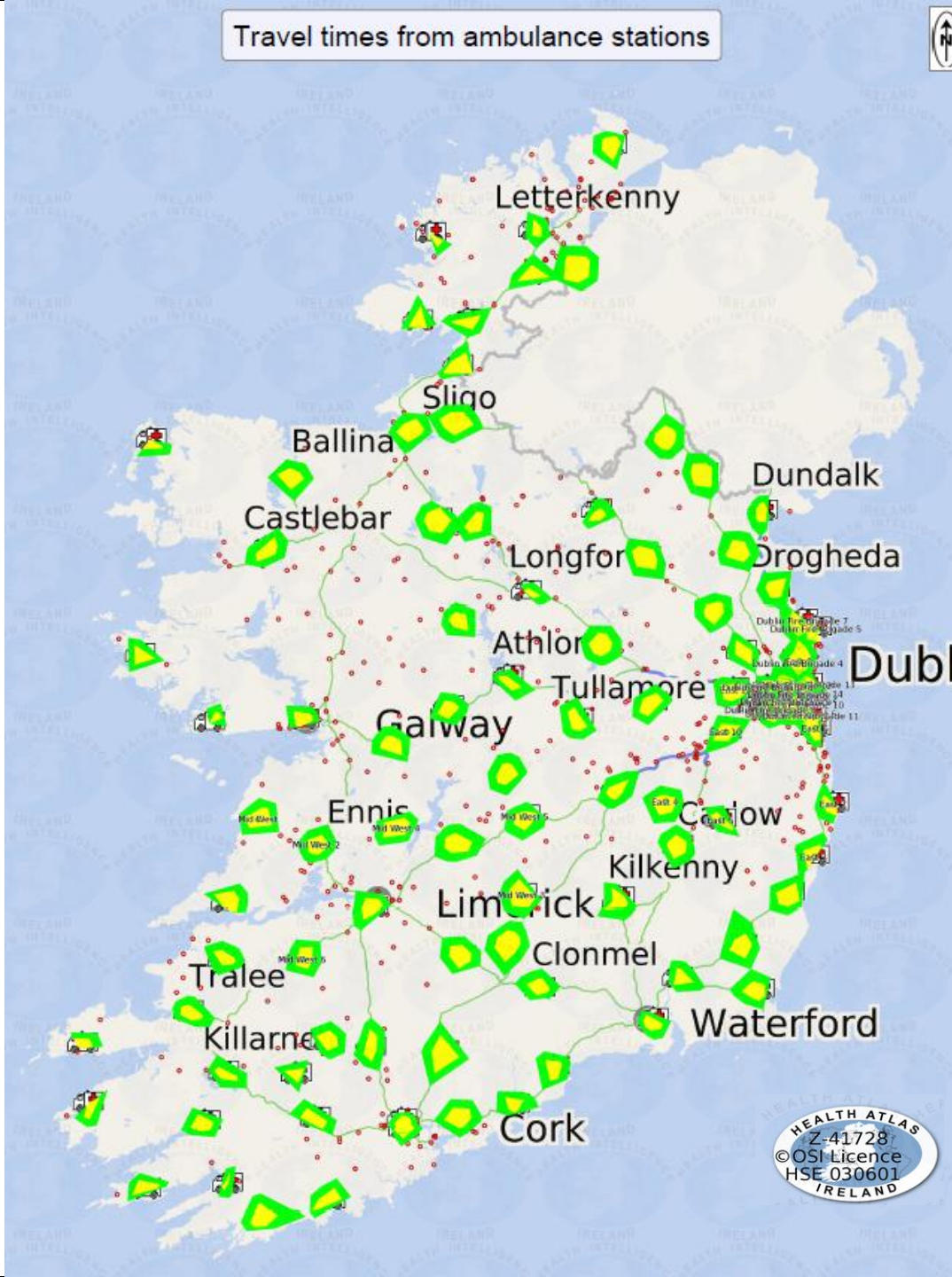


# 2011 OHCAR cases and ambulance stations



HEALTH ATLAS  
Z-41728  
© OSI Licence  
HSE\_030601  
IRELAND

# Travel times from ambulance stations

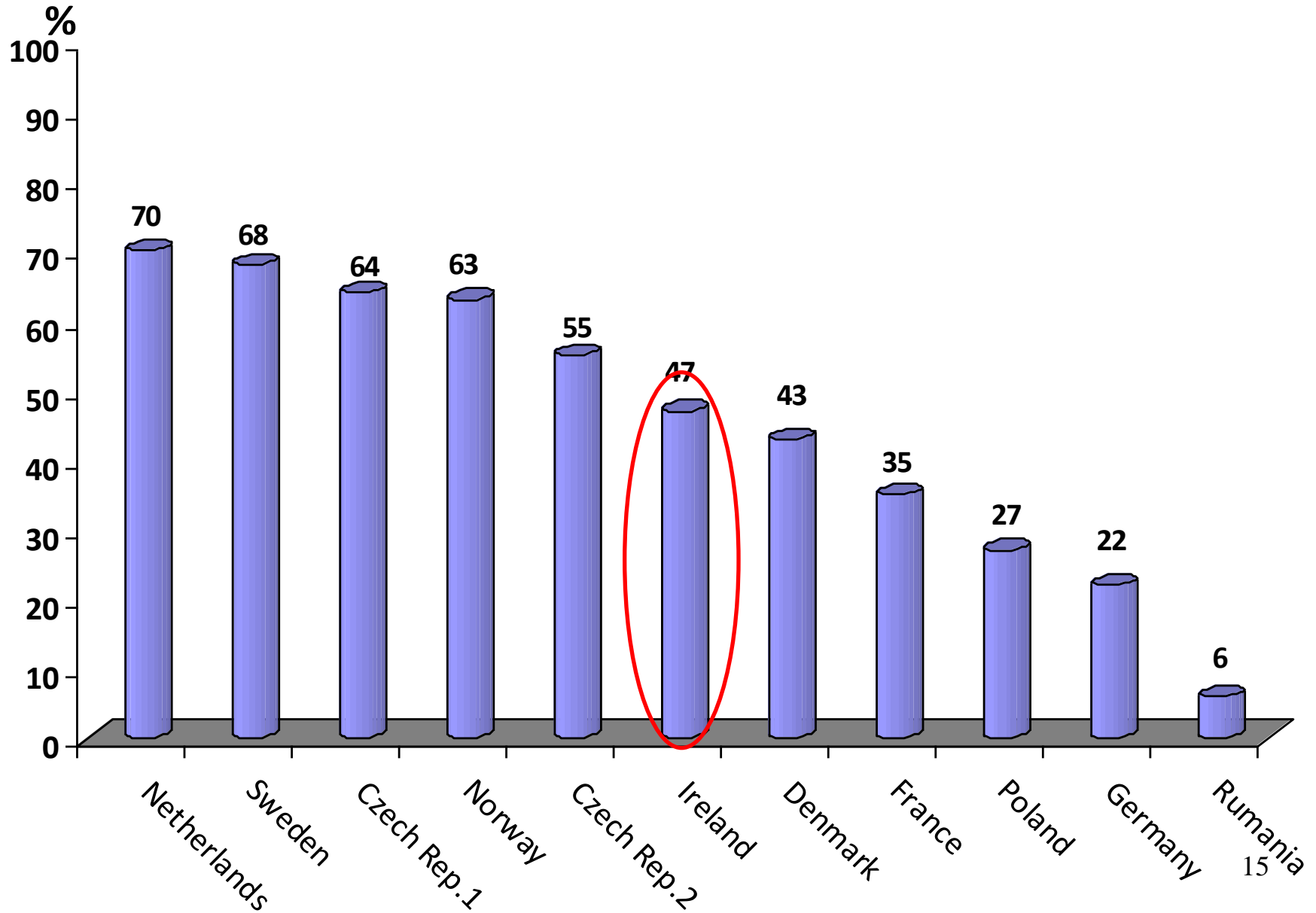


# Is Cardiac Arrest Recognised?

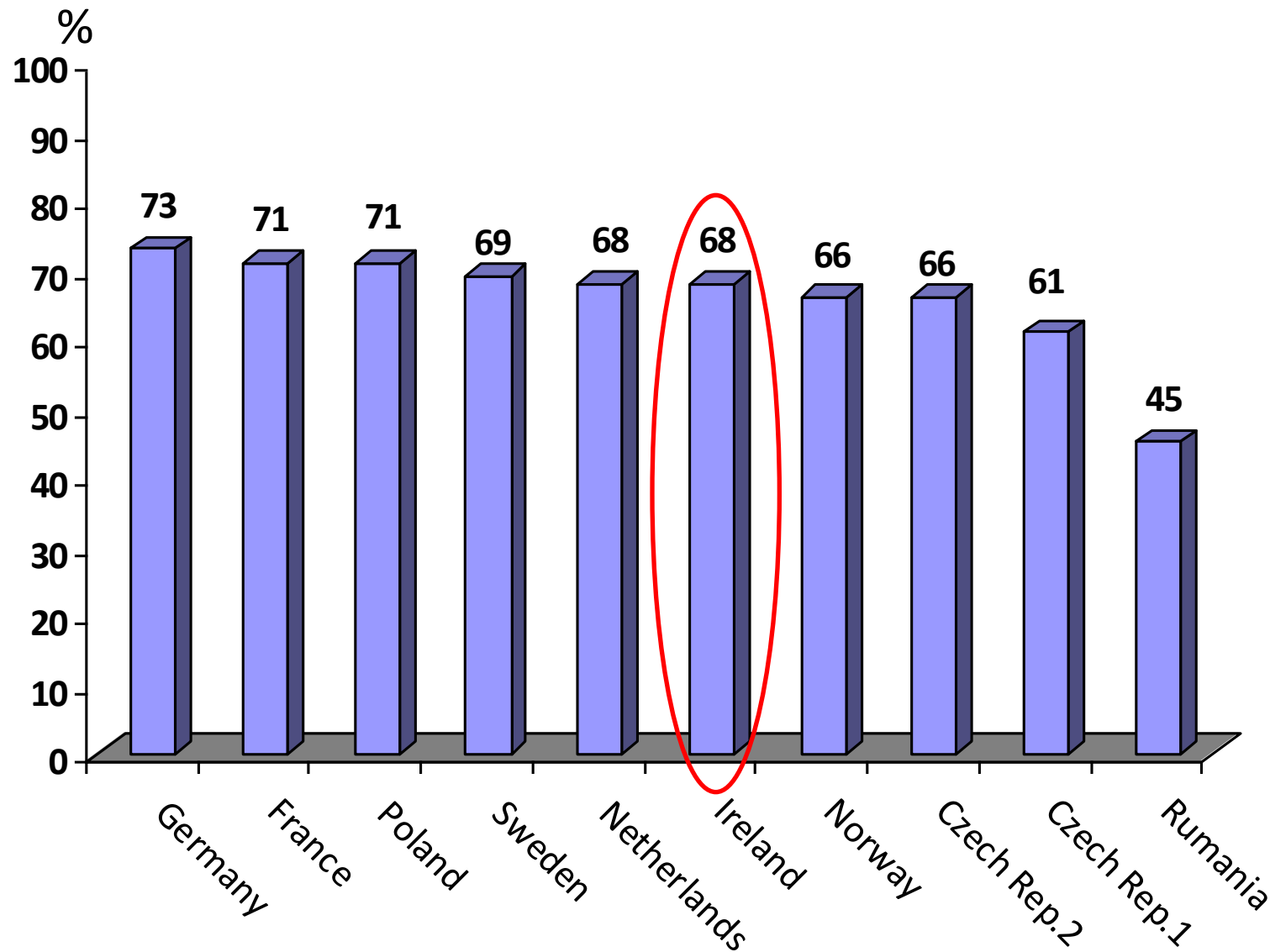
- 2011, 1337 cases, 1139 presumed cardiac (85%)
- Dispatch details available for 1087/1139 (95%)
- 'Arrest' specified at time of dispatch in 594 cases (55%)
- Overall Call-Response Interval Range (CRI) (median): 0-101mins (11mins)
  - CRI – arrest specified: 0-61 (10mins)
  - CRI – other condition specified: 0-55 (14mins)
- CRI is longer for cases where 'Arrest' is not specified at time of dispatch ( $z=-7.362$   $p\leq 0.0001$ )



# Bystander CPR



# Cardiac Arrest at Home





# First defibrillator on scene

- 2011, data available for 1287 cases
- Defibrillator pads applied before Ambulance Service arrival in 65 cases (5.1%)
- There are more defibs available than are being used



# Summary

- We now have substantial data on OHCA resuscitation attempts in Ireland
- Data quality – EuReCa
- We have a baseline from which to improve survival
- Opportunities for improving survival
  - Recognise cardiac arrest
  - Good quality bystander CPR
  - Defibrillator availability



# THANK YOU

