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Supporting European Rail Accident Investigation

Inter national Rail Safety Conference

Sweden 29th September 2009



Supporting European Accident Investigation

Directive 2004/49/EC requires all EU Member States to have in place an independent national rail accident investigation body





Serious accidents on the railways are rare: Collision

Zoufftgen October 11, 2006

Report validated jointly France and Luxembourg and published in March 2009



- 15 people slightly injured



Serious accidents on the railway are rare: Derailment



Grayrigg UK 23rd February 2007

One passenger was fatally injured; 28 passengers, the train driver and one other crewmember received serious injuries and 58 passengers received minor injuries.



Serious accidents on the railway are rare: level crossing accident





Serious accidents on the railways are rare: Collision with an obstacle



7 fatalities (passengers)
67 injuries (1 engine driver, 4 staff, 62 passengers)

Train collision
with an obstacle
in Studenka
station in Czech
Republic

8th August 2008, 10:30

A road bridge above the station collapsed just in front of approaching Eurocity train No. 108.



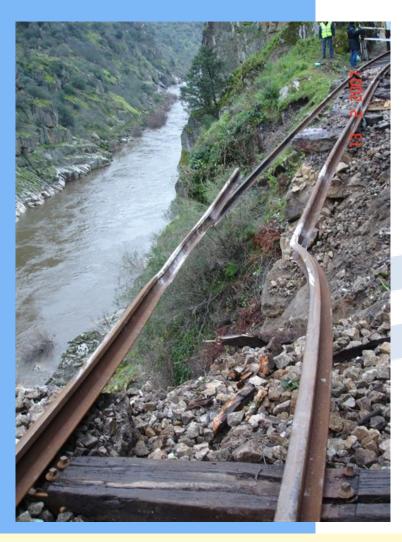


The train was carrying 130 passengers and a crew of 4, none of whom was seriously injured



On 21 February 2007, train no. 62 ran into an avalanche at Storekleven – Norway -







The accident was due to a landslide that destroyed the track just few minutes before the train passed. The train derailed and then slid down into the river.

Fatalities:

- 1 Passenger
- 2 Railway employees (driver and conductor)

2 passengers seriously injuried



Supporting European Accident investigation

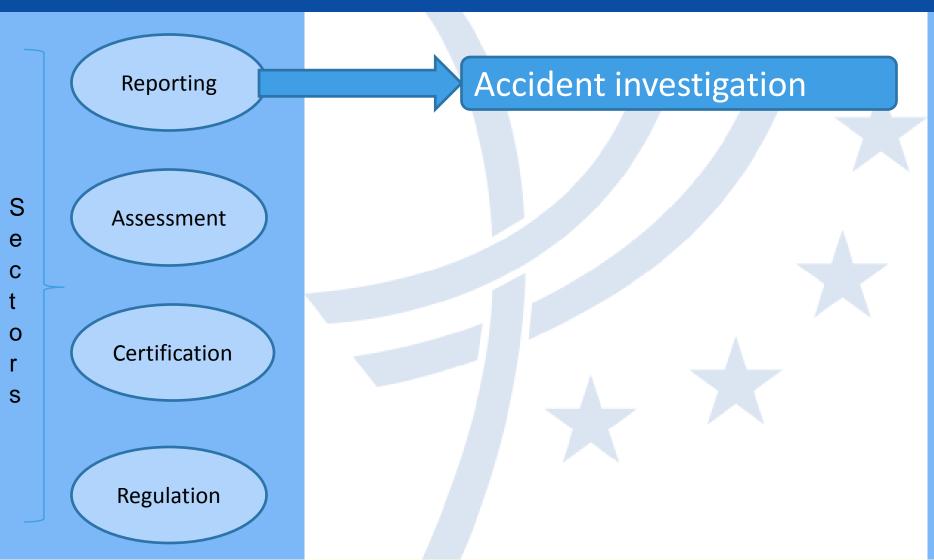
Safety Directive 2004/49 brings clear requirements for accident investigation and the national investigation body (NIB)

- Independant
- No blame
- Public notification and reporting
- Direct, underlying and root causes
- Recommendations for safety

The European Railway Agency has a role to support, faciliate and co-ordinate the learning of lessons from accidents across the EU Member States



Safety Unit organisation





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Safety Unit organisation

Reporting

Assessment

Certification

Regulation

1:Co ordination /support of NIB Network

2:Common methods and approaches

3:Reporting & monitoring safety performance

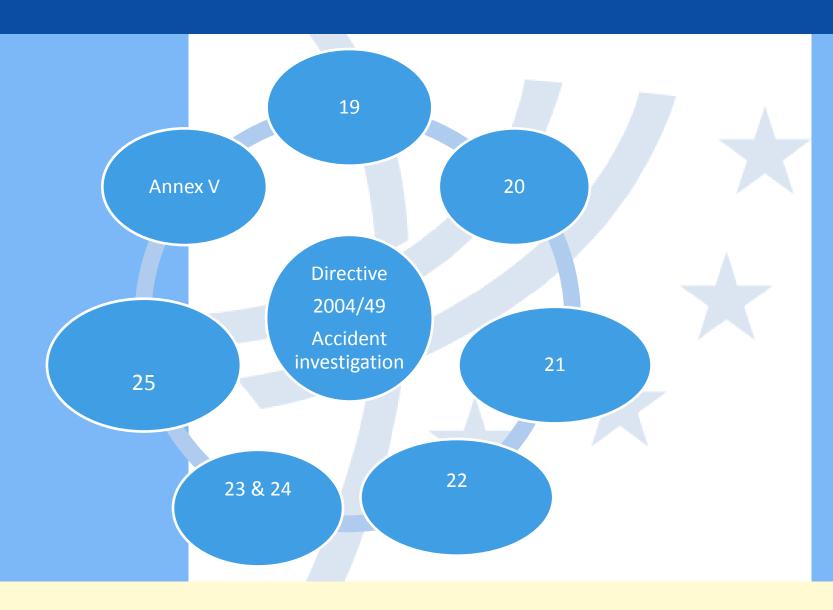
4:Common Safety Indicators

5: Safety Database

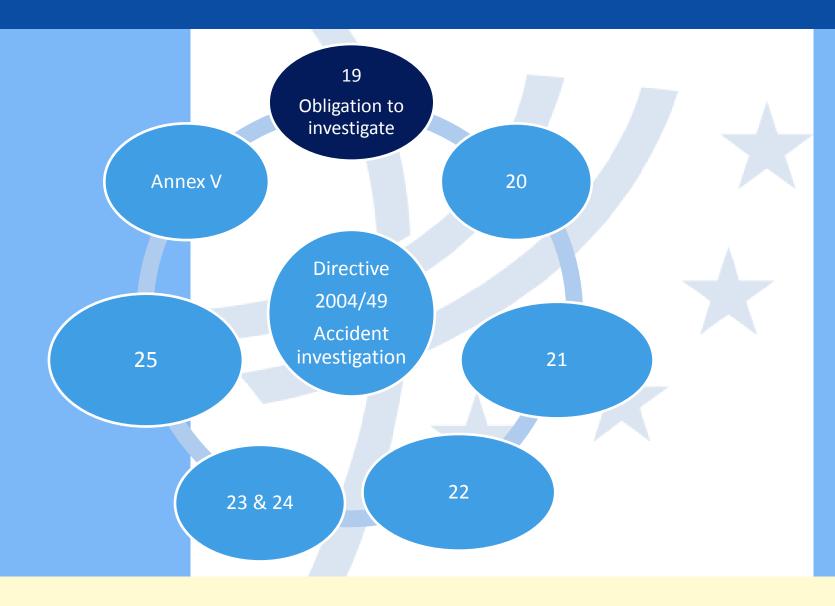
6: Safety recommendations

7. Safety Information analysis











Article 19: The obligation to investigate

All Member States and Norway (Switzerland to follow!) have investigation bodies established in legislation

Diversity:

Nature of the investigation body

In transposition of legislation

In expertise

In the understanding of what is a serious accident

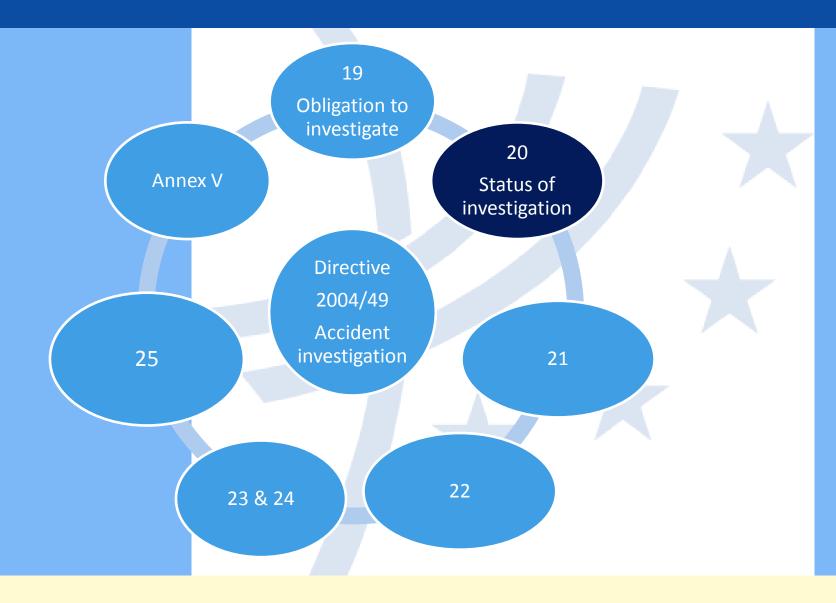
Progress:

Guidance on Article 19.1

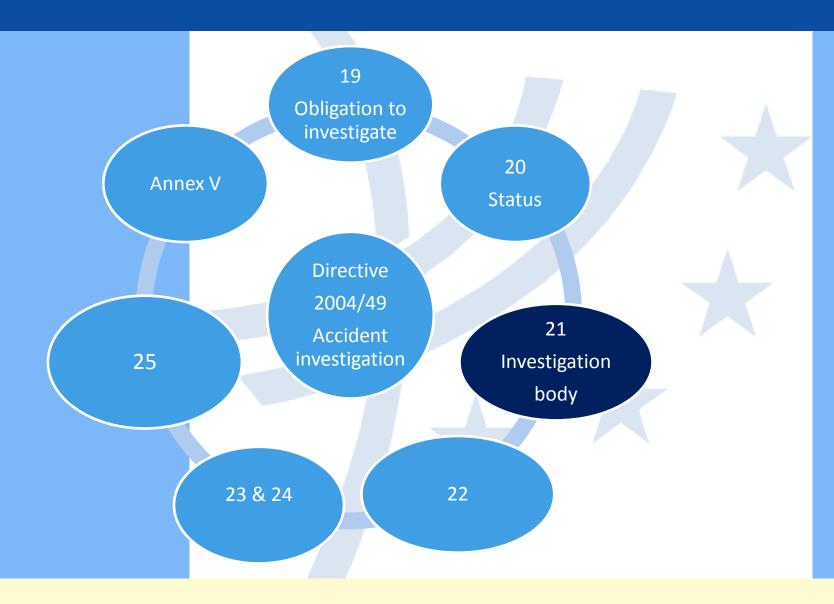
In development for Article 19.2, 3 & 4

Support through dialogue when reporting

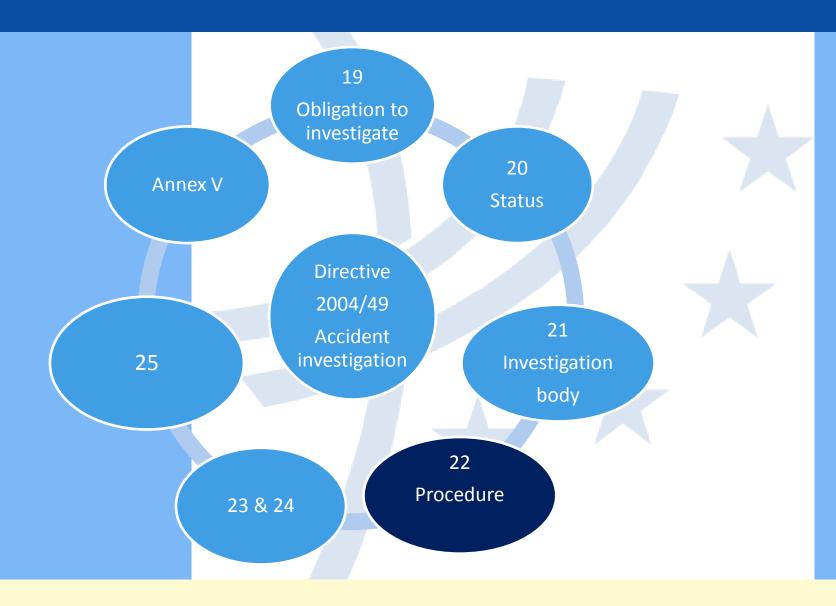














Articles 20,21 & 23: Status and Investigation body and process

Current progress:

The Agency's regulation sector is considering implementation into national law

Building a profile of each NIB to understand how independence is established and maintained, and its relationship to the judiciary

Scope of investigations and the process varies

The challenges are the different cultural contexts and to evolve an understanding of good practice and mutual support

The Agency has and is providing support for investigations

Active co-operation betwen NIBs is already happening — the next step is supporting guidance and good practice



Network of Investigation Bodies

All EU Member States – Chief /senior investigators

14th meeting – October 2009

« Active exchange of views and experience for the purpose of developing common investigation methods, ..principles for the follow up of safety recommendations and adaption to the development of scientific and technical progress »



Network of Investigation Bodies

Sharing information

Investigations in progress /recently completed

Topics covered include:

Level crossings

Relationship with judiciary

Investigation of suspected suicides

On board data recorders

Seminars, training, briefings

Trespass and suicide

Human factors

Safety management Systems

Safety Recommendations

Task Forces

TF1: Annual Reports

TF2: Causation classification

TF3: Recommendations

TF4: Investigator training and

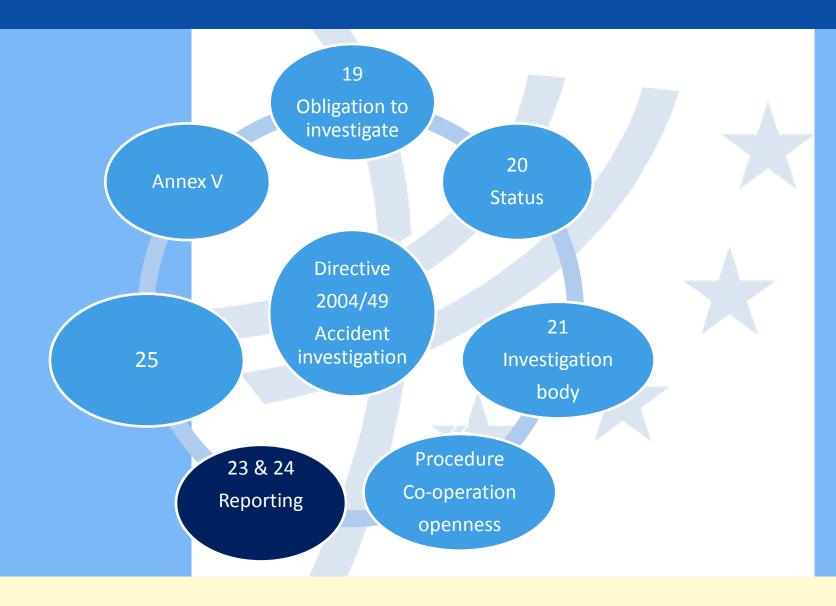
competence

TF 5: Reporting guidance

(Annex V) leading to methodology

Plus guidance and good practice











Articles 23, 24 and 25: Reporting and recommendations

NIBs report:

- Notifications
- Final accident investigation reports
- Annual reports

Reporting has given the Agency 2 years of annual reports (CSIs, NSA NIB annual reports) and 4 years of serious accident notifications to the database

In 2008 a project added an historical database of serious rail accidents (19.1) back to 1990, now the most complete database of serious european rail accidents.

Access our accident database at www.era.europa.eu



The database: 17/09/2009

Notification and investigation reports available at: http://pdb.era.europa.eu

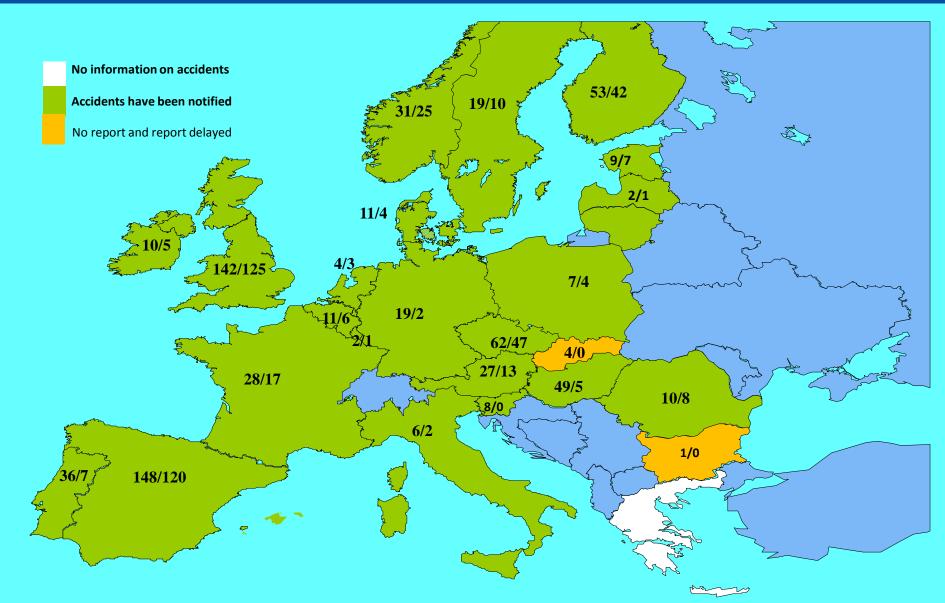
- Notifications and investigation reports now cover data from 25 countries
- Information on 688 accident/incidents have been notified
- 453 investigation reports have been completed
- •190 Notifications and 53 investigation reports received on accidents in 2008*

Of these 33 Notifications and 9 reports concern serious accidents according to article 19.1

•For 2007 serious accidents: 40 notifications but only 23 investigation reports received



Developments in the database 688 notifications 453 reports..









Annex V: Reporting and methodology

Annex V gives an outline of the content of the final accident investigation report as a 'blueprint' And supports the process

Guidance on good reporting practice in accordance with the Annex – aim to publish February 2010.

Current project to review accident investigation methodologies at each stage of investigation and what is suitable for rail

Alongside development of a structure for classifying the contributory factors /causes of accidents



The next steps: in summary

- Supporting independence and the NIB Network
- Communication and information sharing
- Facilitating cross border and co-operative investigations
- Developing the database ECCAIRS
- Safety recommendations database
- Monitoring and analysing trends identifying issues
- Quality and consistency in data
- Training and competence of investigators
- Developing common approaches from diversity

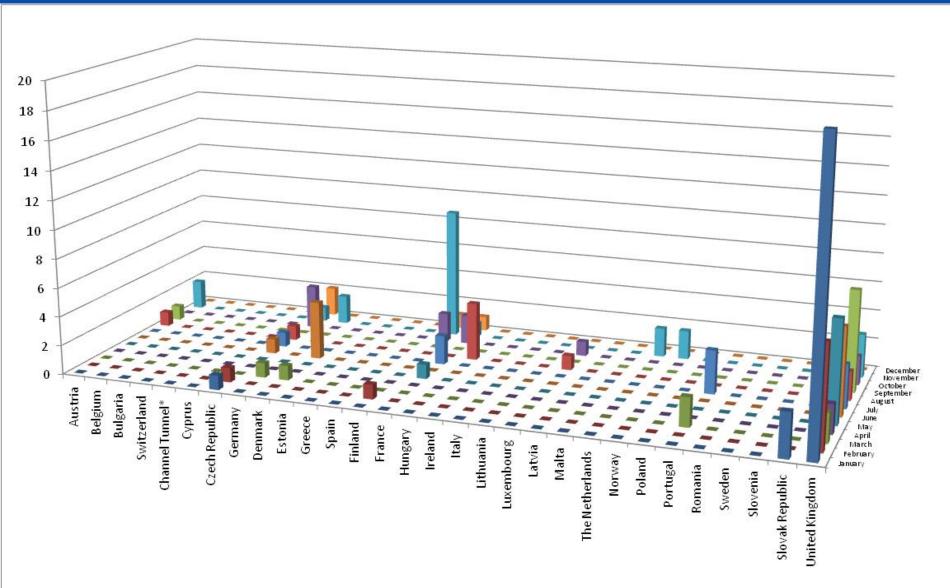




Thank you for your attention

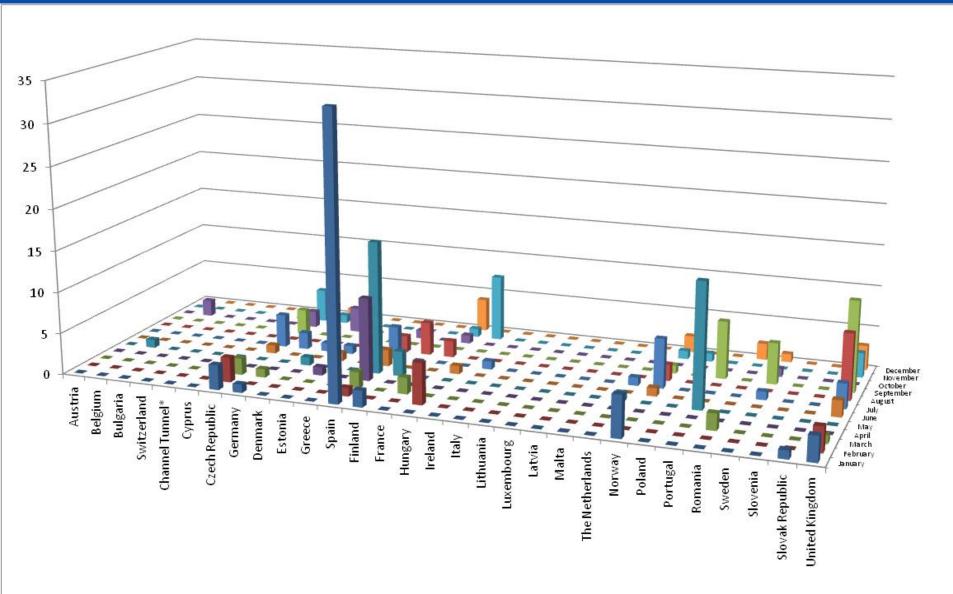


2006: 122 notifications,0 report



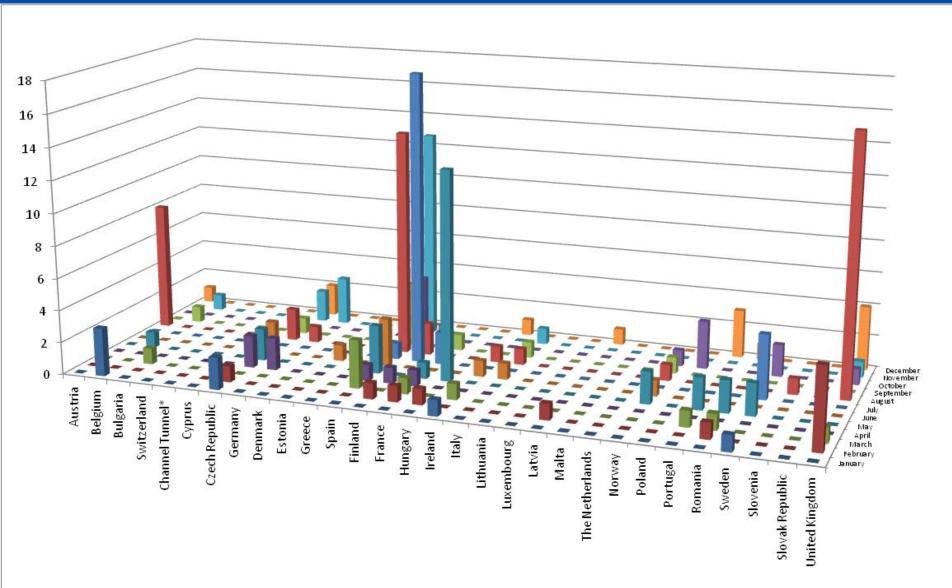


2007: 242 notifications, 104 reports



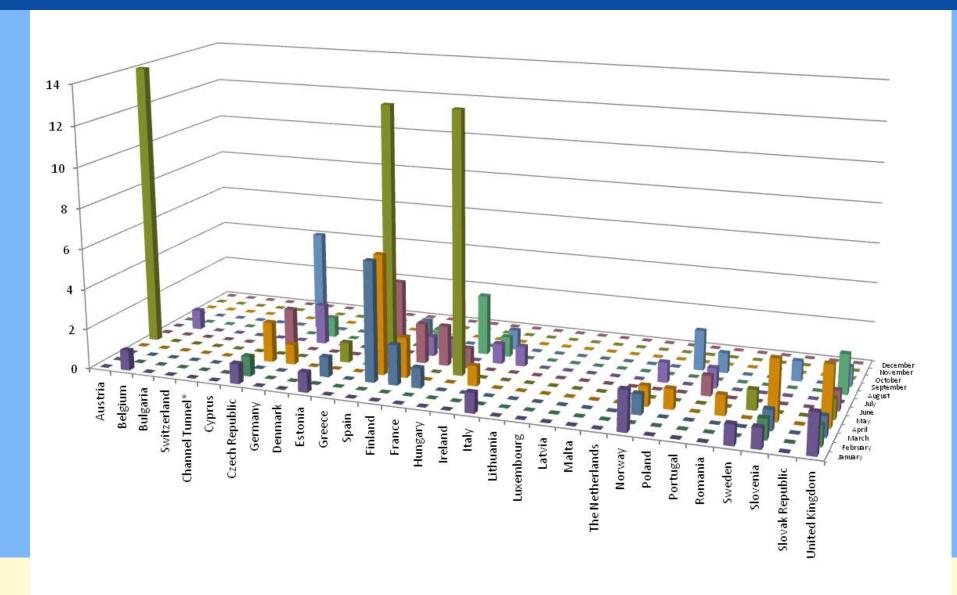


2008: 198 notifications, 186 reports



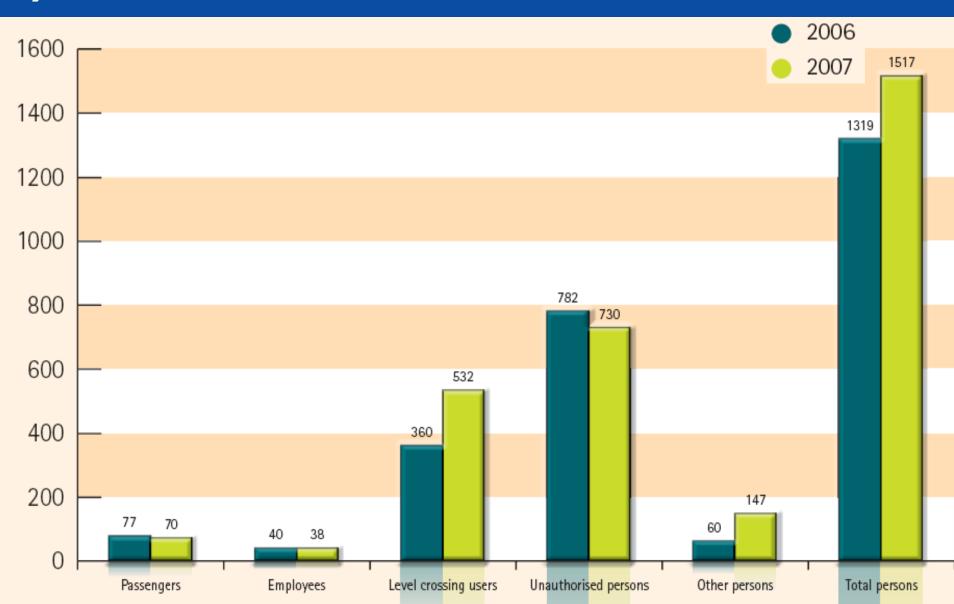


2009: 133 notifications, 163 reports





Fatalities by category of person





Safety certification

- •17 members have issued safety certificates
- •184 certificates issued in 2008
- •In total, 350 certificates issued

- DE, NL and ES have issued safety certificates for workshops
- •No certificates have so far been issued for the entities in charge of maintenance.



Accidents in Europe by type of accident

