



## Managing Risks at Level Crossings RIAC - 7 July 2004

### Level crossings

- Network Rail – responsibilities
  - operation
  - maintenance
  - renewalof the existing railway infrastructure



### Scotland's level crossings

- private level crossings - 599
- public level crossings - 109



### Level crossings – right of usage

- **Public level crossings**
  - Have a reserved right of vehicular and/or pedestrian access
- Private level crossings
  - Usage determined by legislation that facilitated the construction of the railway or subsequent legal agreements and is site specific



### Public level crossings



### Public level crossings



© Photograph courtesy of Phil Hannah



## Public level crossings



Network Rail

## Public level crossings



Network Rail

## Risk assessments, etc

- Legally based
- ALARP
- Many factors considered e.g.
  - Speed of trains
  - Sight lines
  - Vehicle approach to crossing
  - History of crossing
  - Volume of rail and road traffic
- If risk score worse than 1:100,000 then we take action

Network Rail

## Possible actions to manage/reduce risk can range from:

- Build a bridge/underpass to
  - Improving sight lines to
    - Upgrading barriers to
      - Closure

Network Rail

## Types of public crossings

- Manned full barriers
- CCTV with full barriers
- Automatic half barriers
- Automatic barriers controlled locally
- Automatic open crossing controlled locally
- Open Crossings

Network Rail

## Level crossings – right of usage

- **Private level crossings**
  - Usage determined by legislation that facilitated the construction of the railway or subsequent legal agreements and is site specific
- Public level crossings
  - Have a reserved right of vehicular and/or pedestrian access

Network Rail

## Level crossings

- East Haven level crossing



## Level crossings

- Kilchurn Castle crossing access

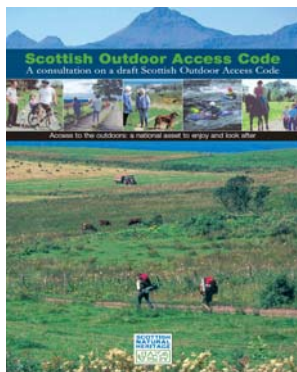


## Level crossing signage



## Other safety measures at private crossings

- Signs
- Phones
- New technology



## Governing legislation

- Railway Safety (Miscellaneous Provisions) Regulations 1997. Regulation 3 provides "so far as is reasonably practicable, a person in control of any infrastructure of a transport system to which this regulation applies shall ensure, where and to the extent necessary for safety, that unauthorised access to the infrastructure is prevented."



## Summary

- Network Rail's key responsibilities:
  - Safety of all level crossing users
    - Rail, road and pedestrian
  - Comply with legislation



Questions