

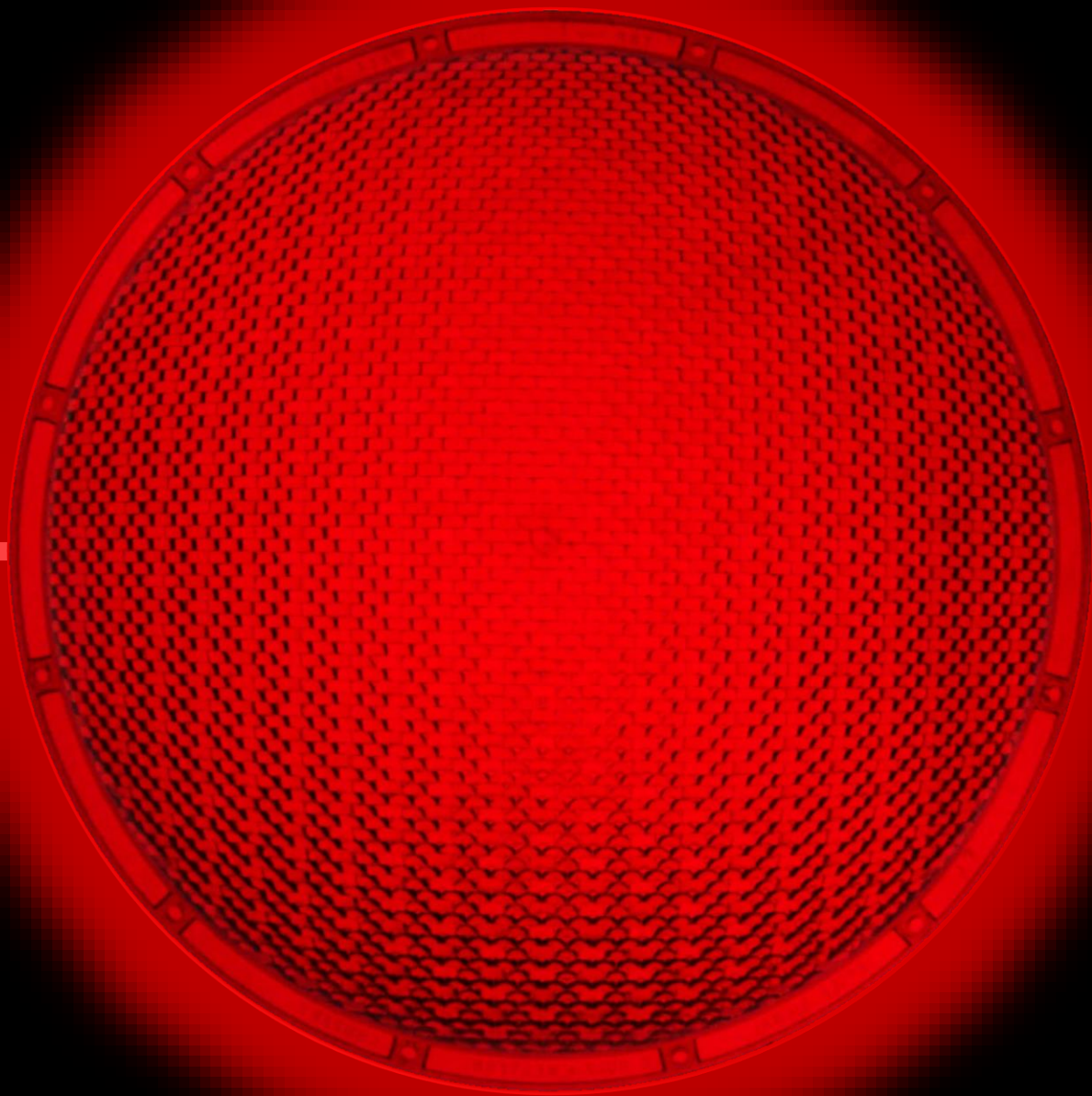


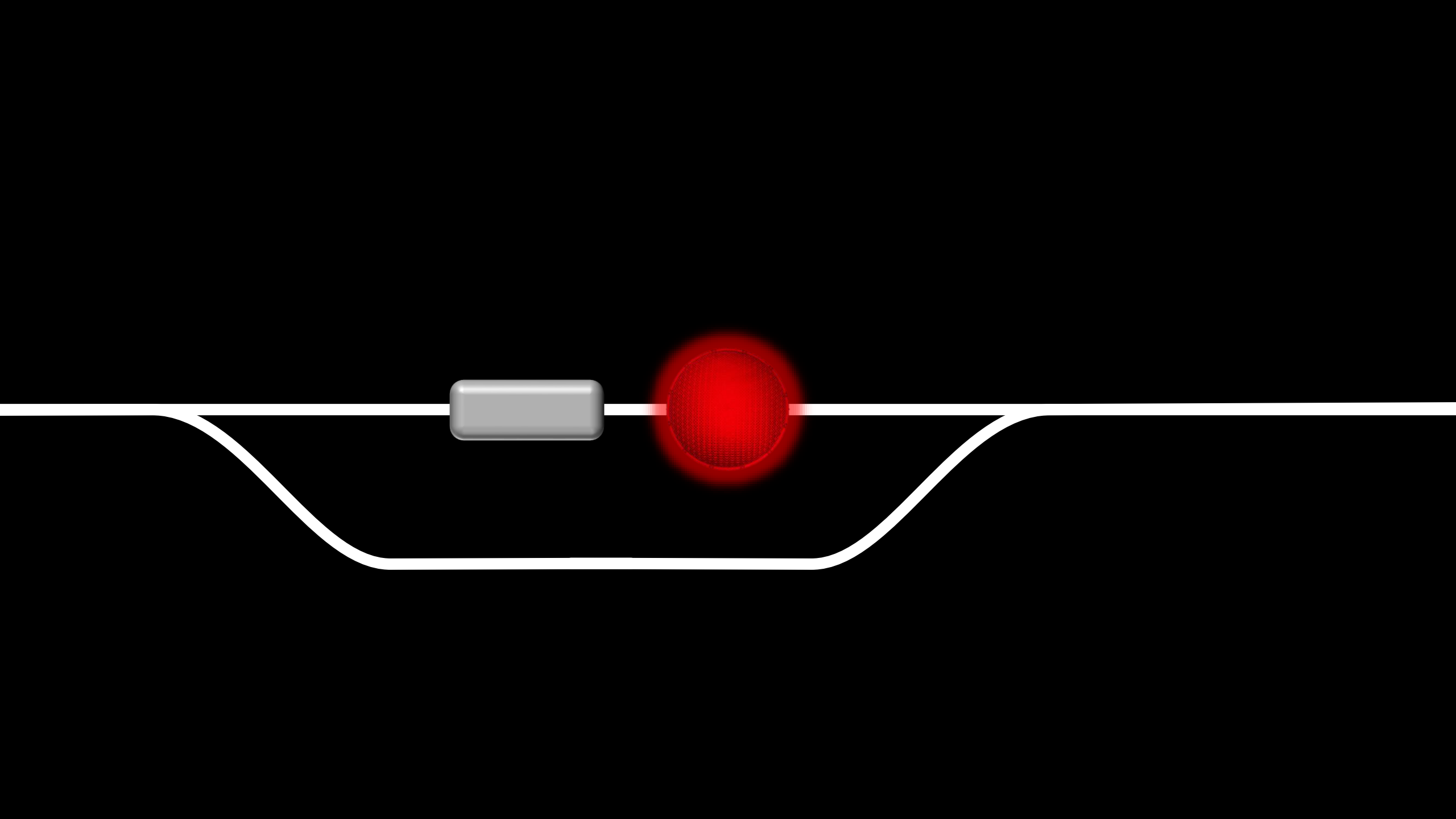
# Learning from the past

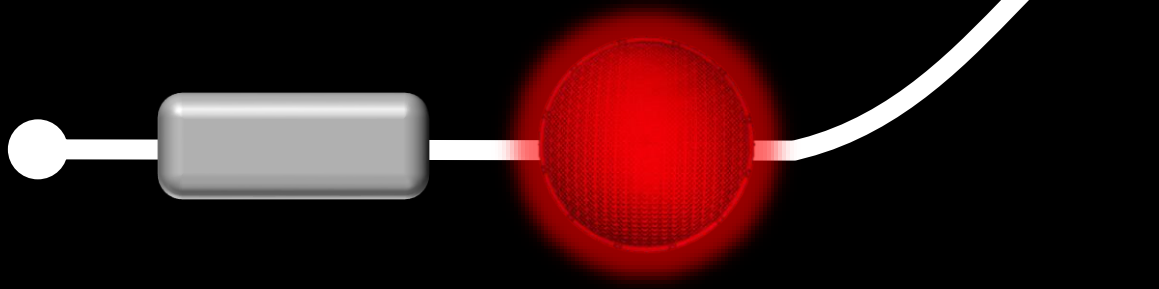


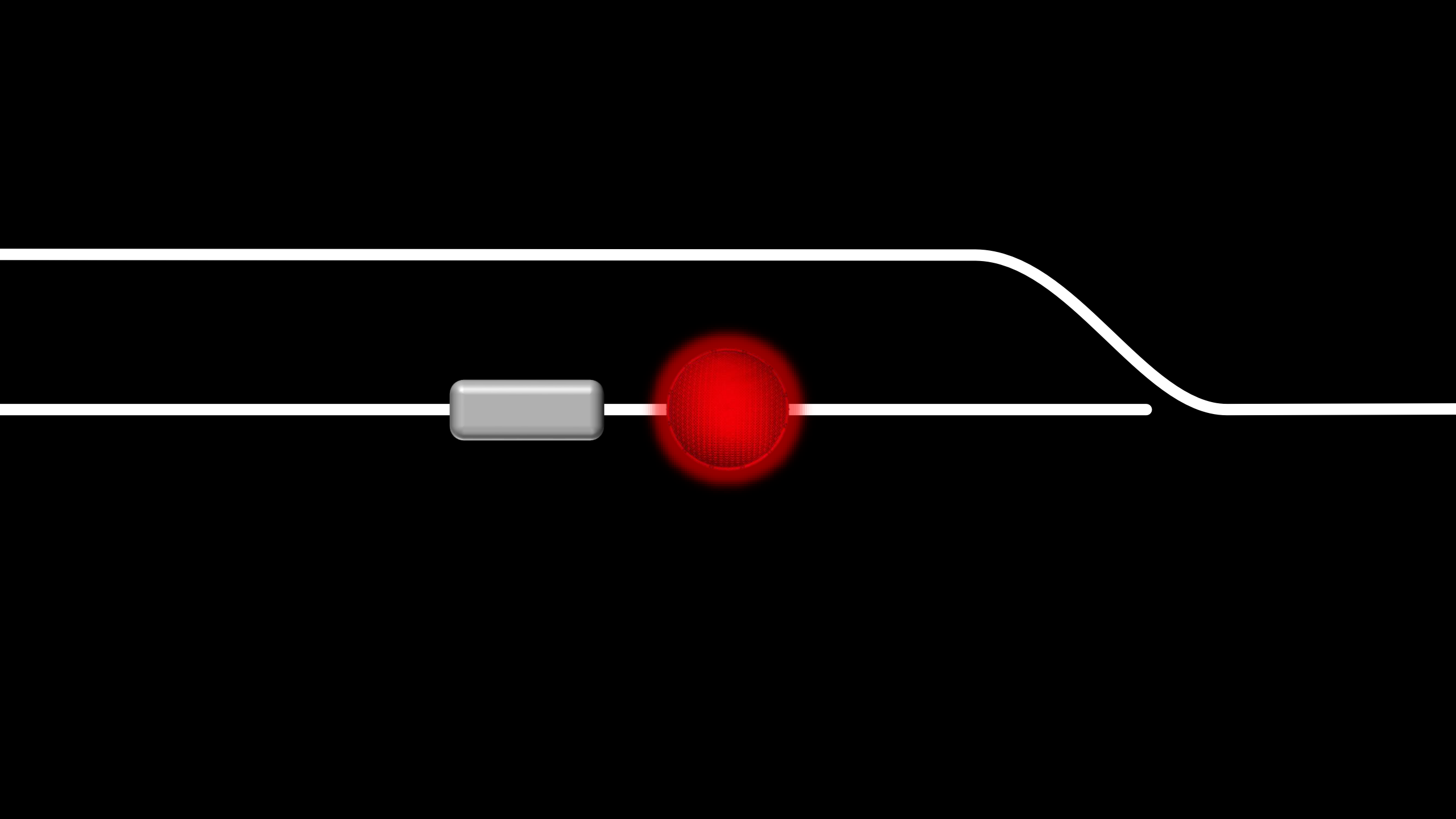
Presented by Greg Morse, RSSB  
Slides by Wayne Murphy, RSSB

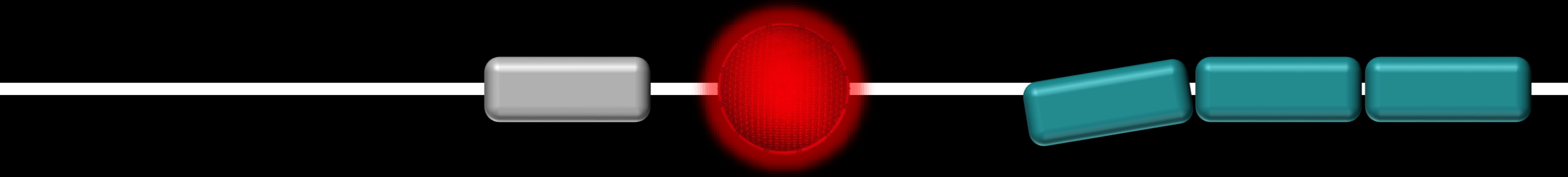




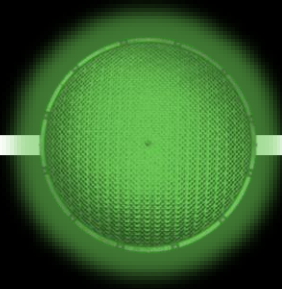




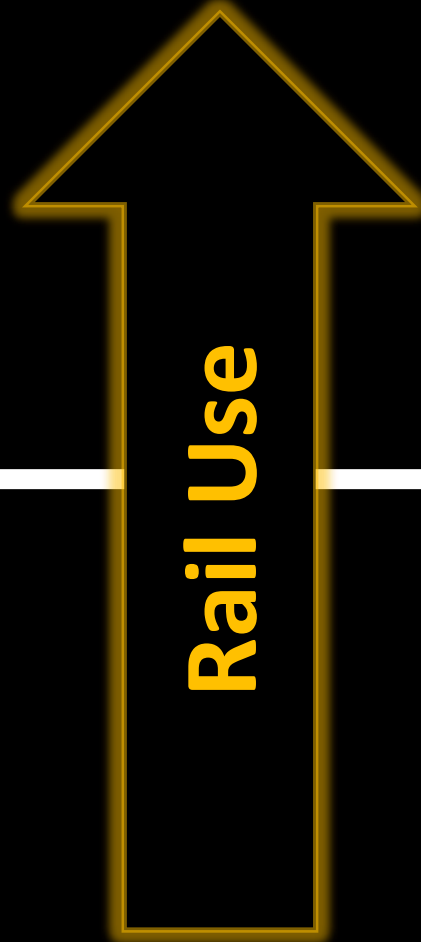












BRITISH RAIL MAINTENANCE LIMITED

Railfreight  
Distribution

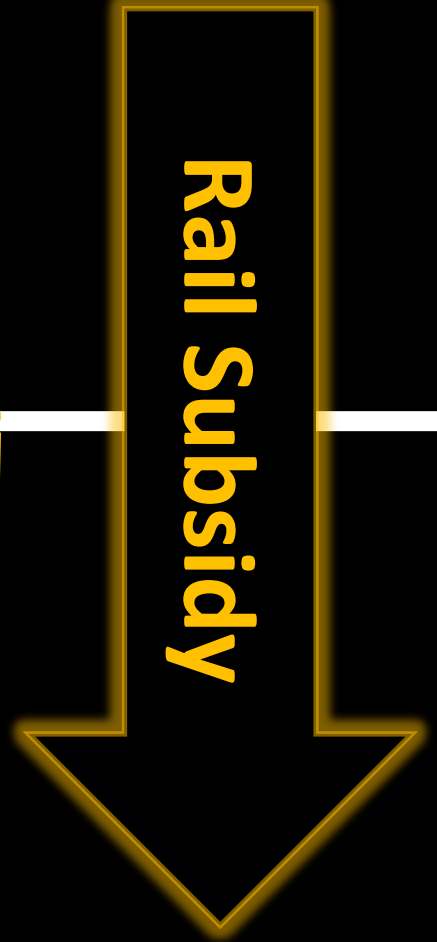
Intercity

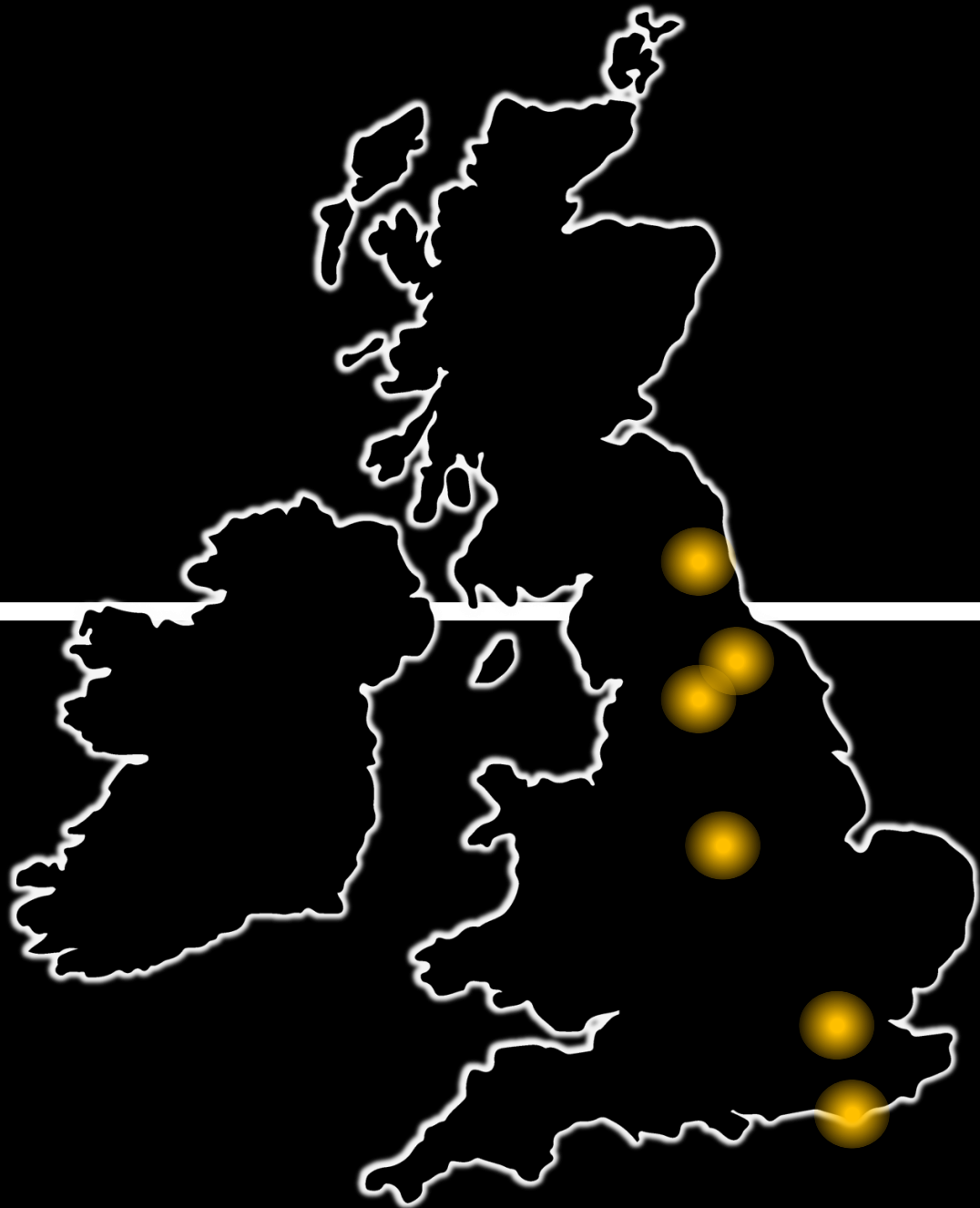
Trainload  
Freight

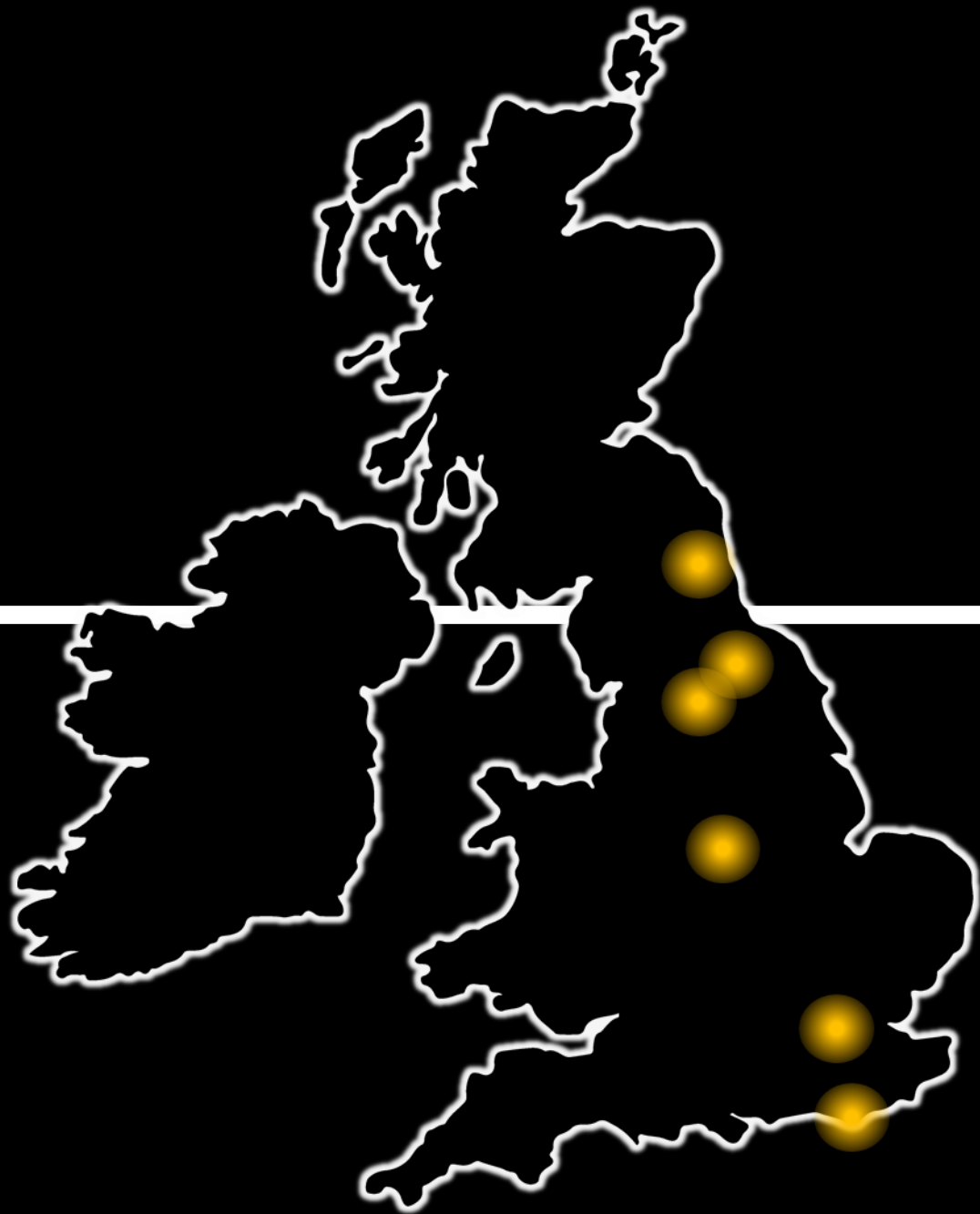
Network  
Southeast

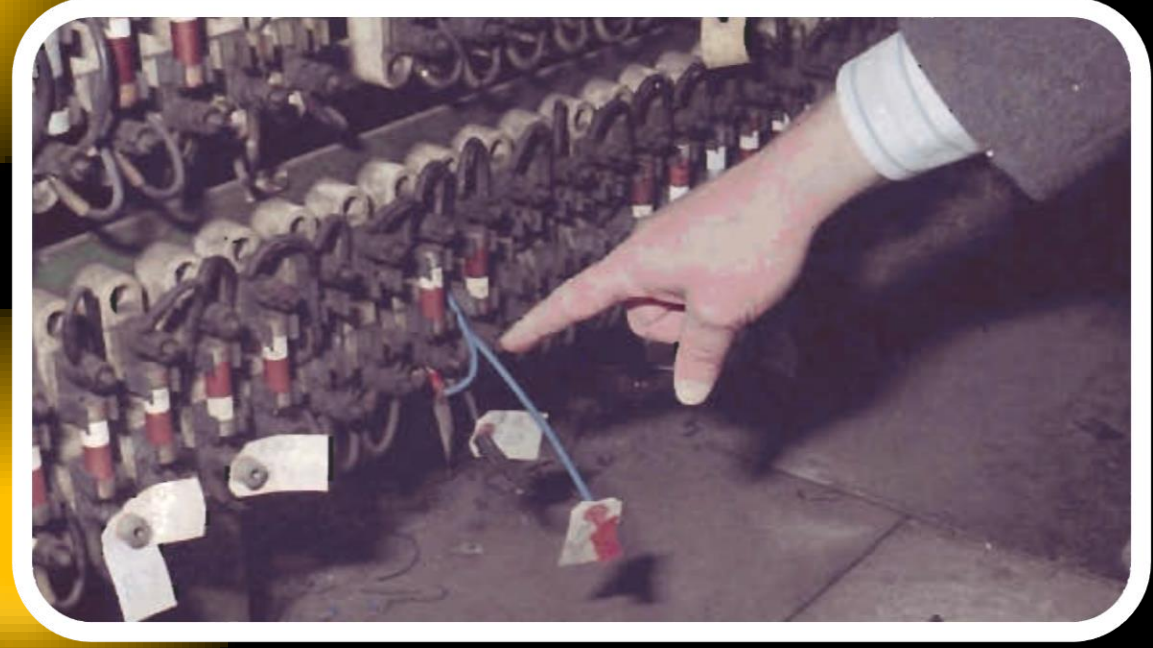
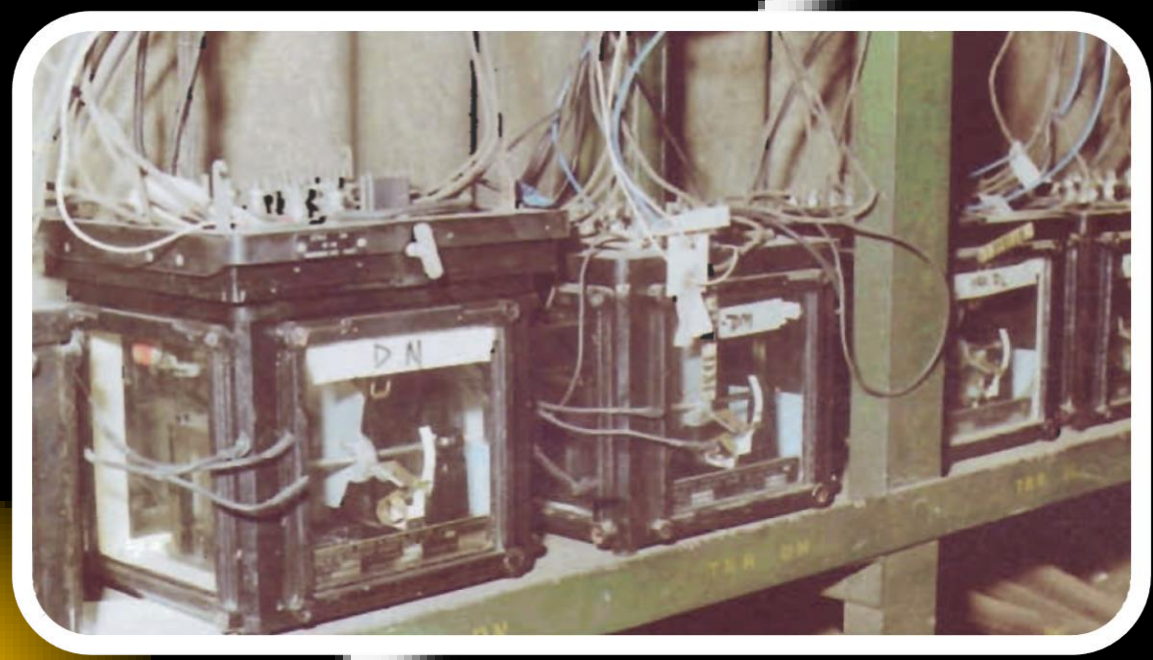
Regional  
Railways

BRITISH RAIL MAINTENANCE LIMITED

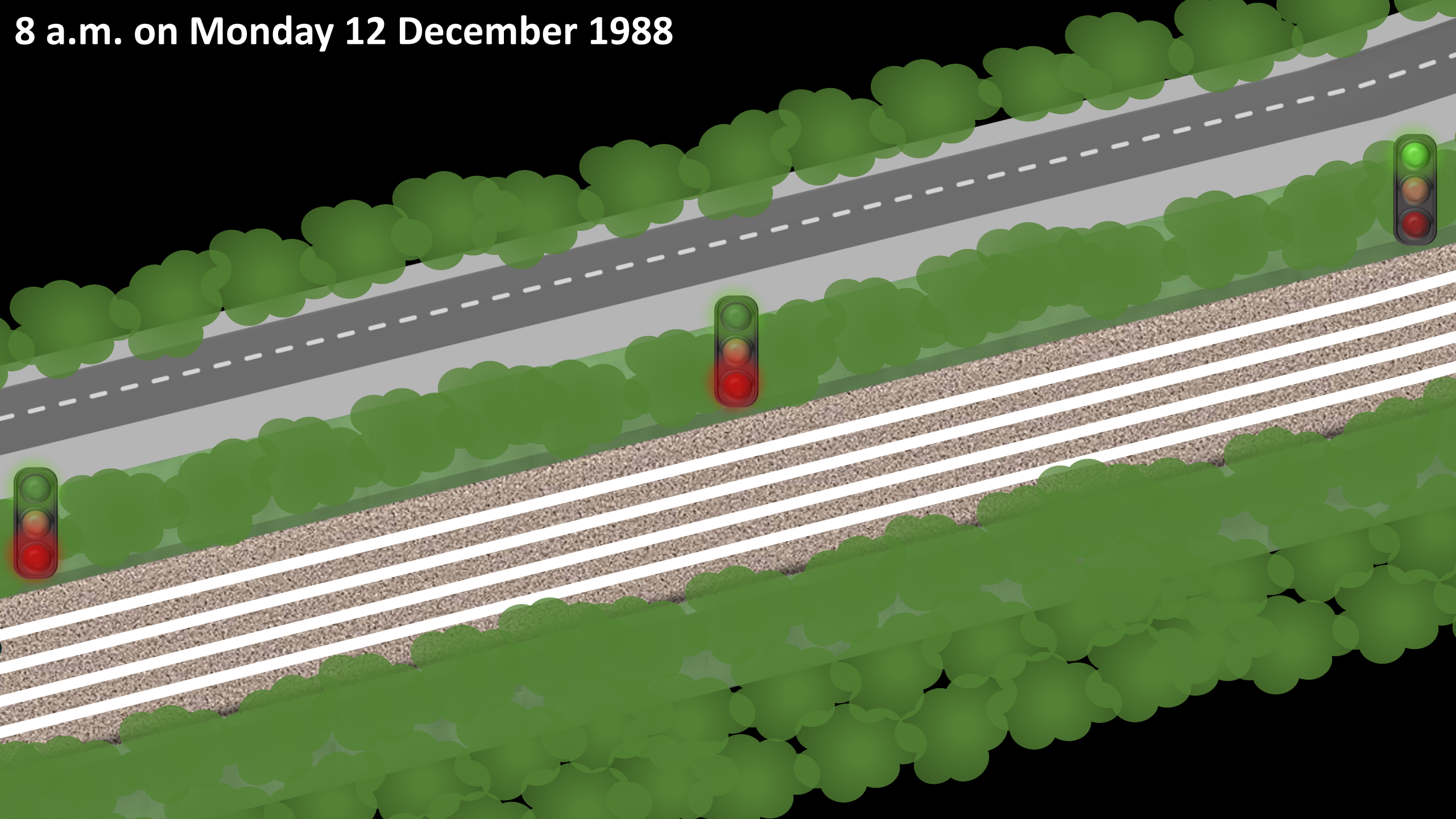




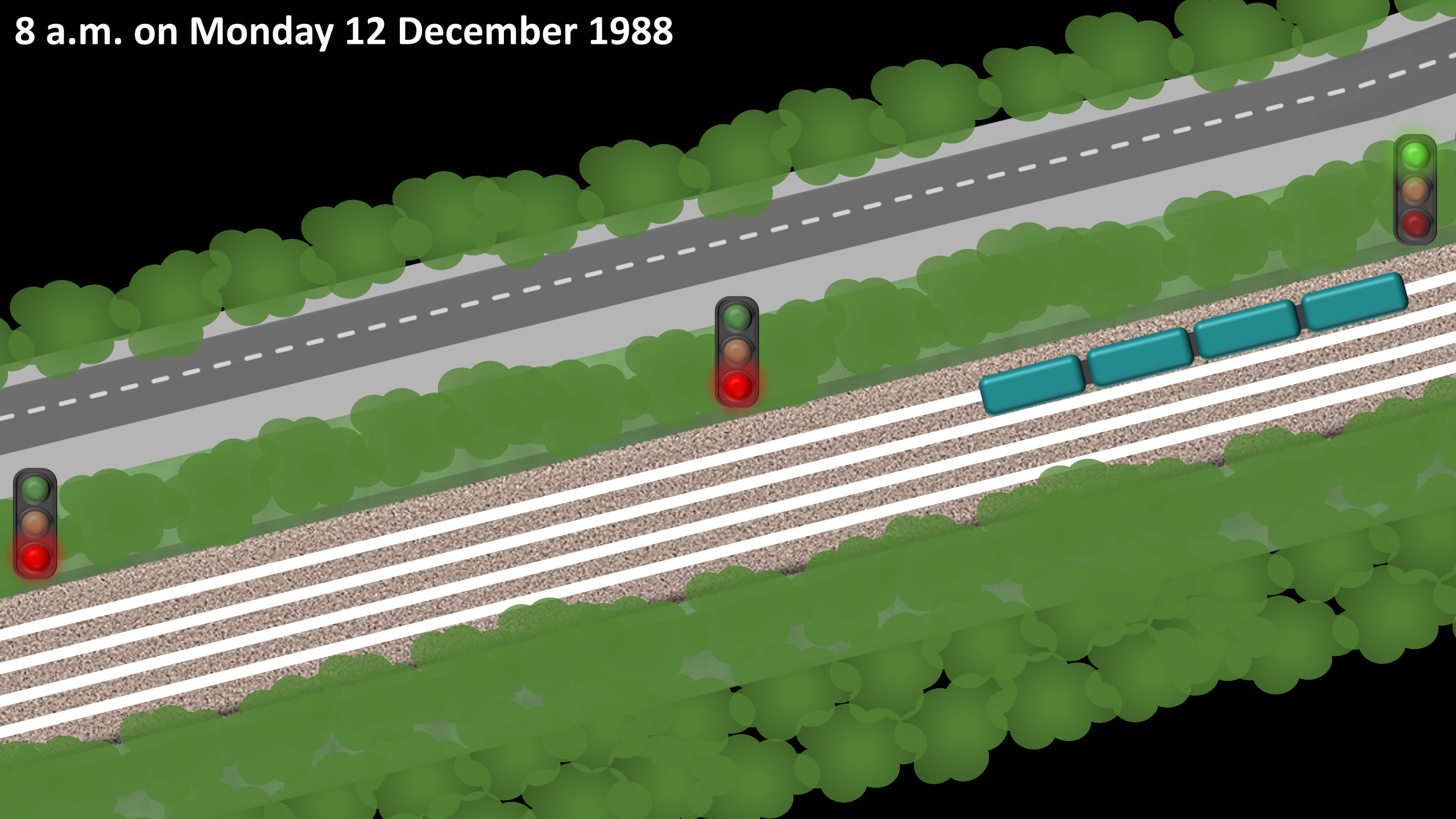




8 a.m. on Monday 12 December 1988



8 a.m. on Monday 12 December 1988



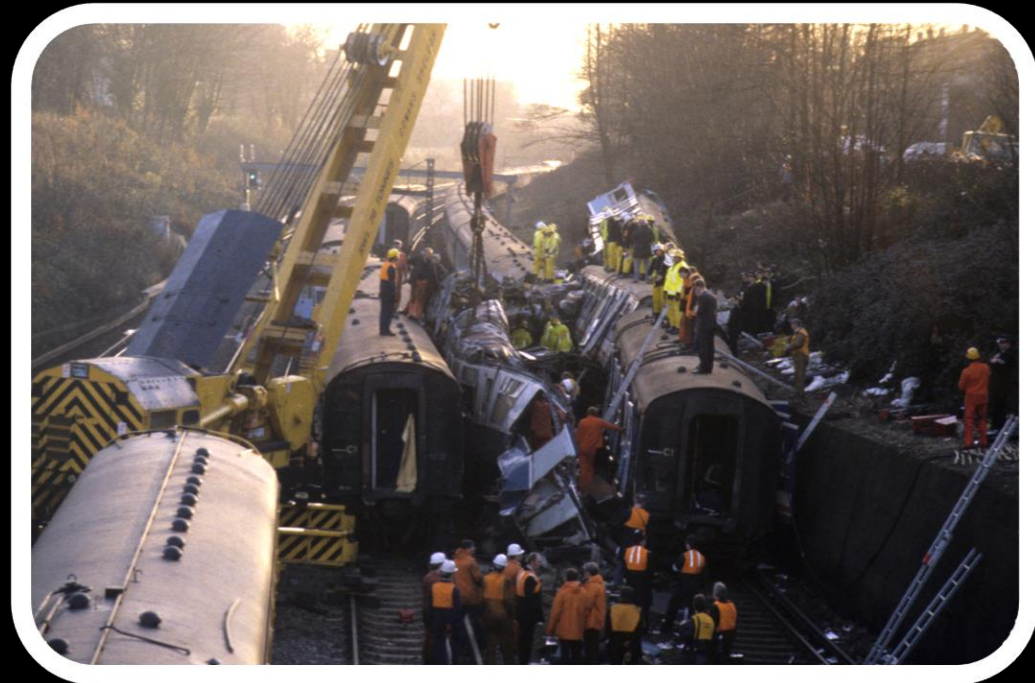
8 a.m. on Monday 12 December 1988



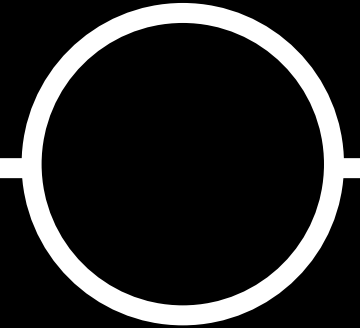
8 a.m. on Monday 12 December 1988







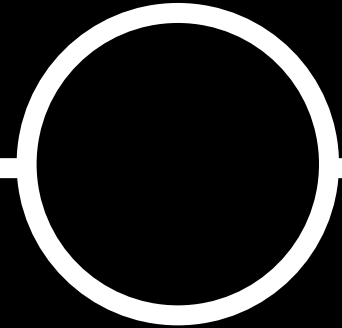
12 December 1988



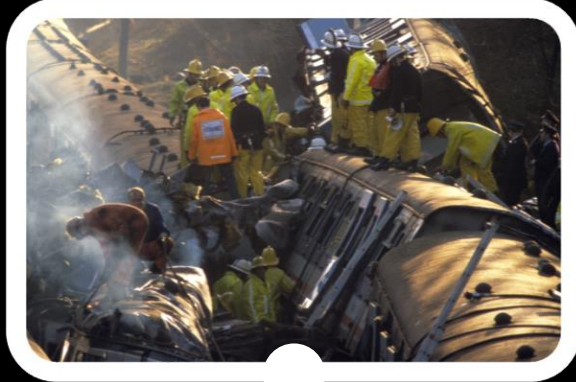
12 December 1988



Clapham Junction



12 December 1988



4 March 1989



6 March 1989



Clapham Junction

Purley

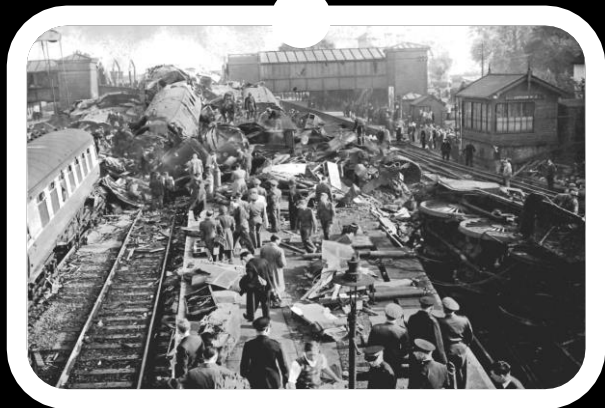
Bellgrove



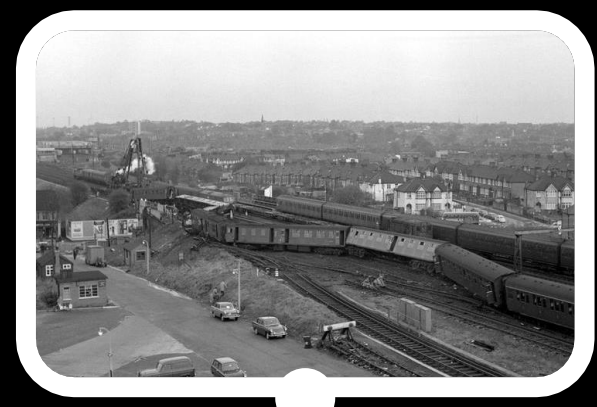
**1952**



**Harrow &  
Wealdstone**



**1967**



**Hither  
Green**





**Her Majesty's  
Railway Inspectorate**

**Tay  
Bridge**

**Hixon**

**Waterloo**







DEPARTMENT OF TRANSPORT

# Investigation into the Clapham Junction Railway Accident

Anthony Hidden QC

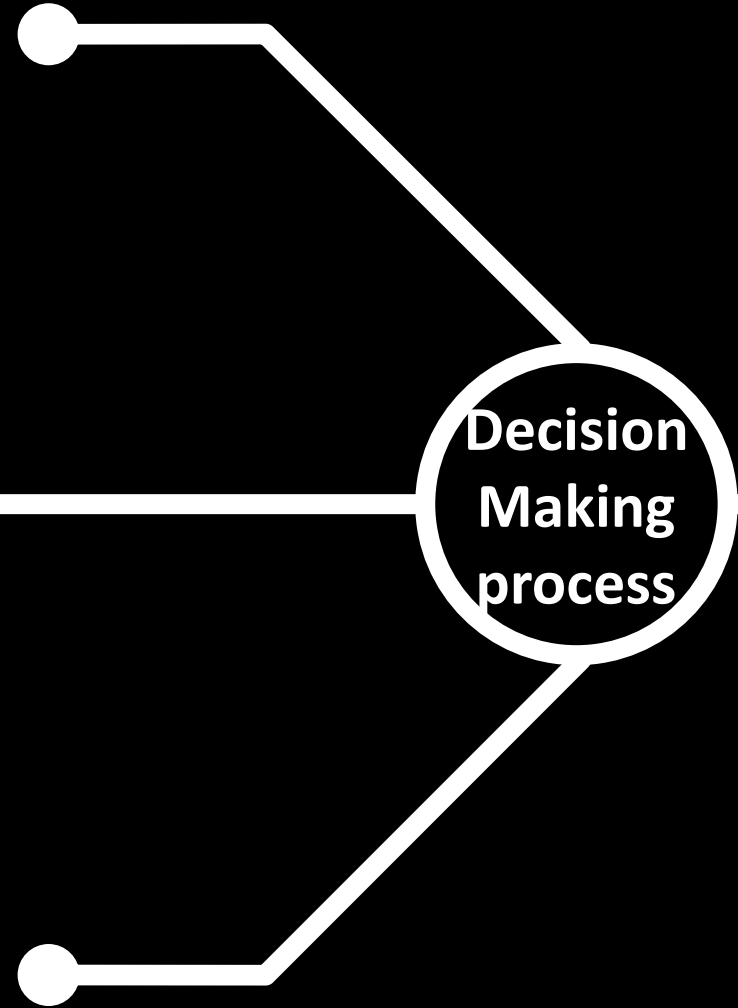


HER MAJESTY'S STATIONERY OFFICE

**Risk  
Management**

**Change  
Management**

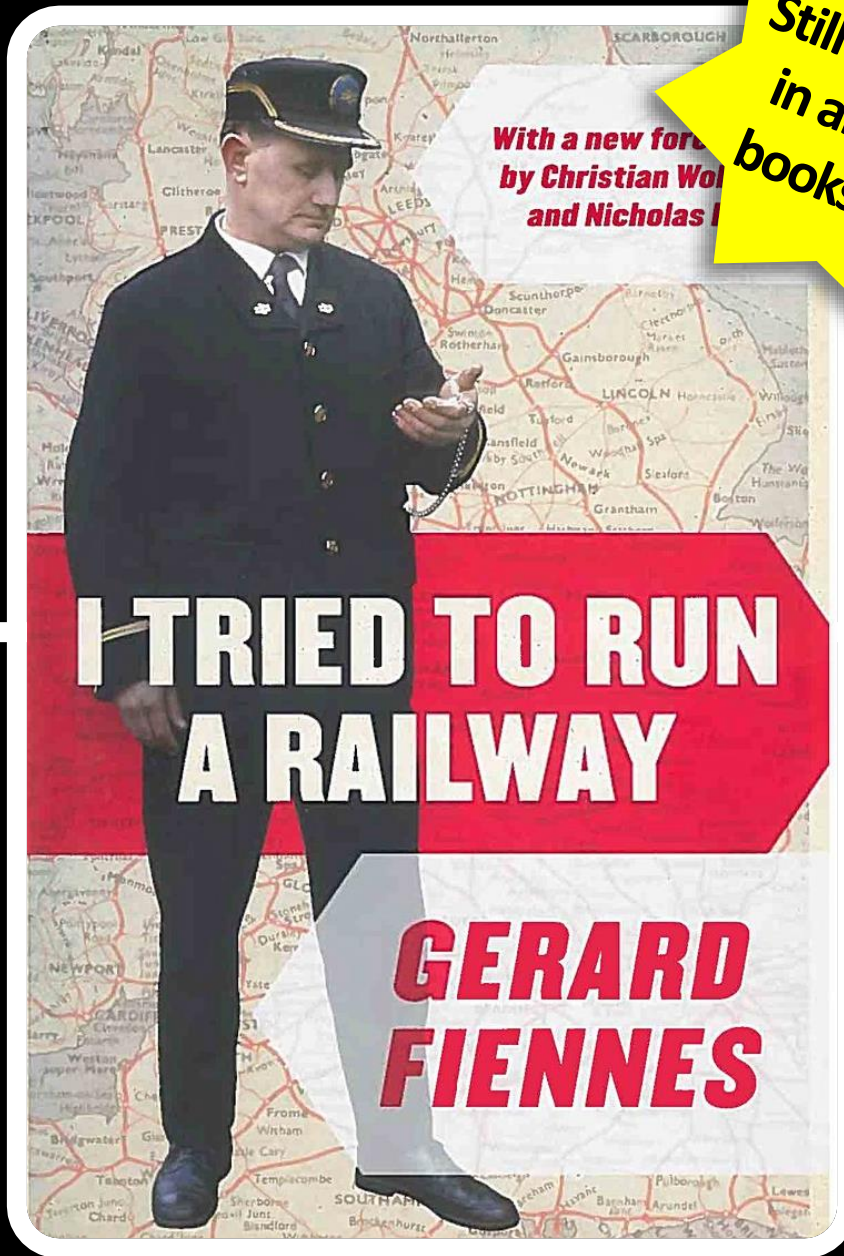
**Decision  
Making  
process**







**We combat complacency  
with continued vigilance....**



Still available  
in all good  
bookstores

With a new foreword  
by Christian Wolmar  
and Nicholas...

# I TRIED TO RUN A RAILWAY

**GERARD  
FIENNES**

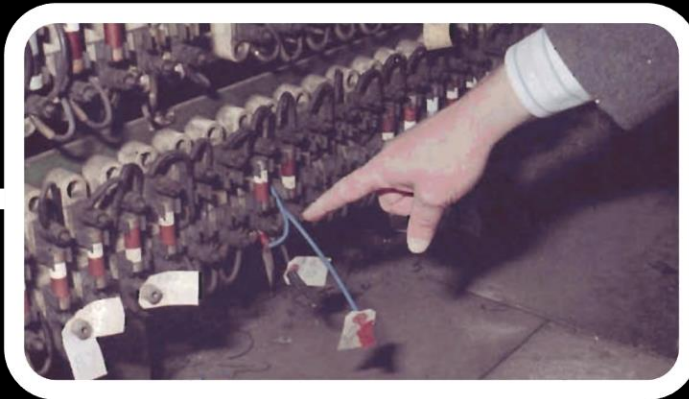
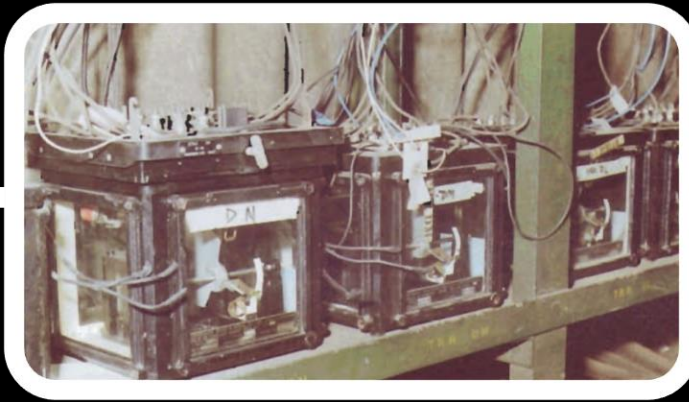
**The appearance of a proper regard  
for safety was not the reality**

**Working  
practices**

**Supervision  
of staff**

**Testing of  
new works**

**Wrong  
side  
Signal  
failure**



**Characteristic  
errors**

**Poor working  
practice**

**Poor  
Supervision**

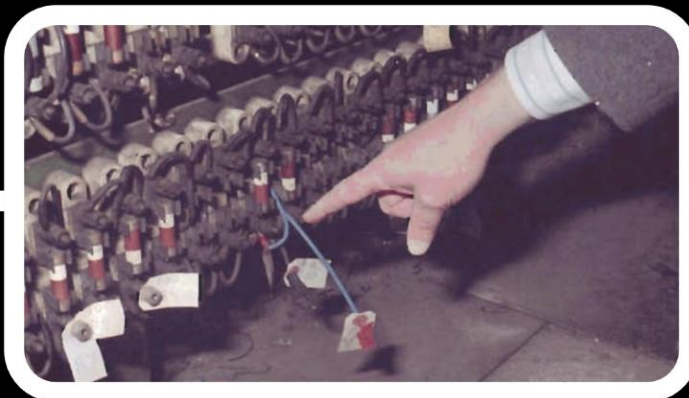
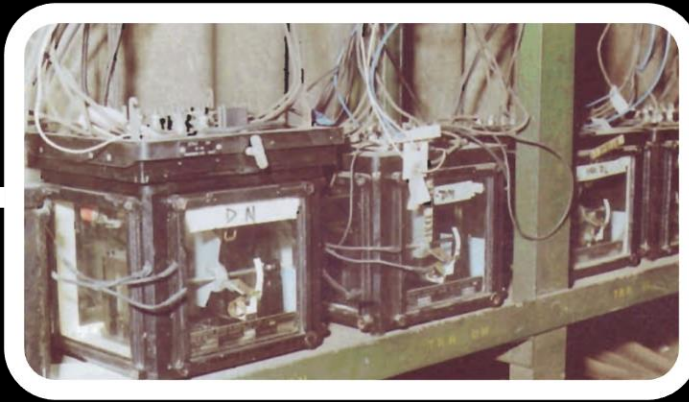
**Uncharacteristic  
errors**

**Constant,  
repetitive work**

**Excessive  
overtime**

**Hidden  
18**

**Wrong  
side  
Signal  
failure**



**Characteristic  
errors**

**Poor working  
practice**

**Poor  
Supervision**

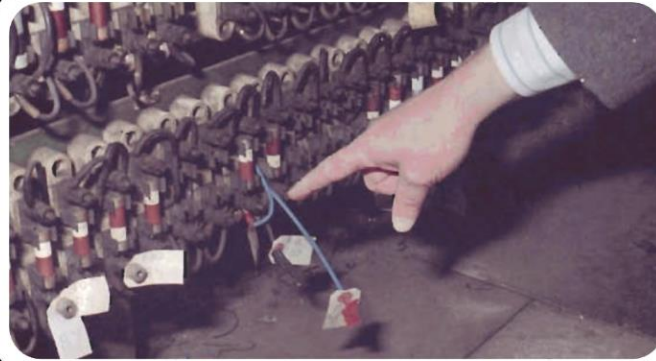
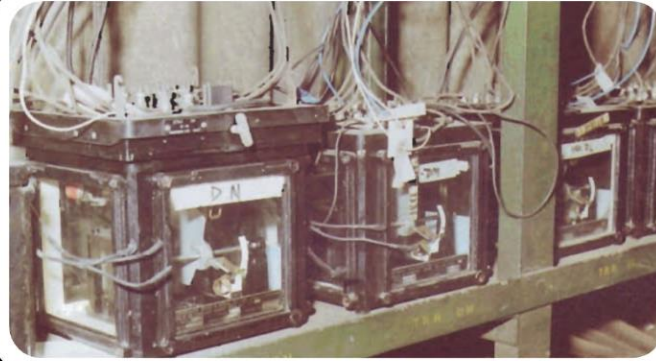
**Uncharacteristic  
errors**

**Constant,  
repetitive work**

**Excessive  
overtime**



Wrong  
side  
Signal  
failure



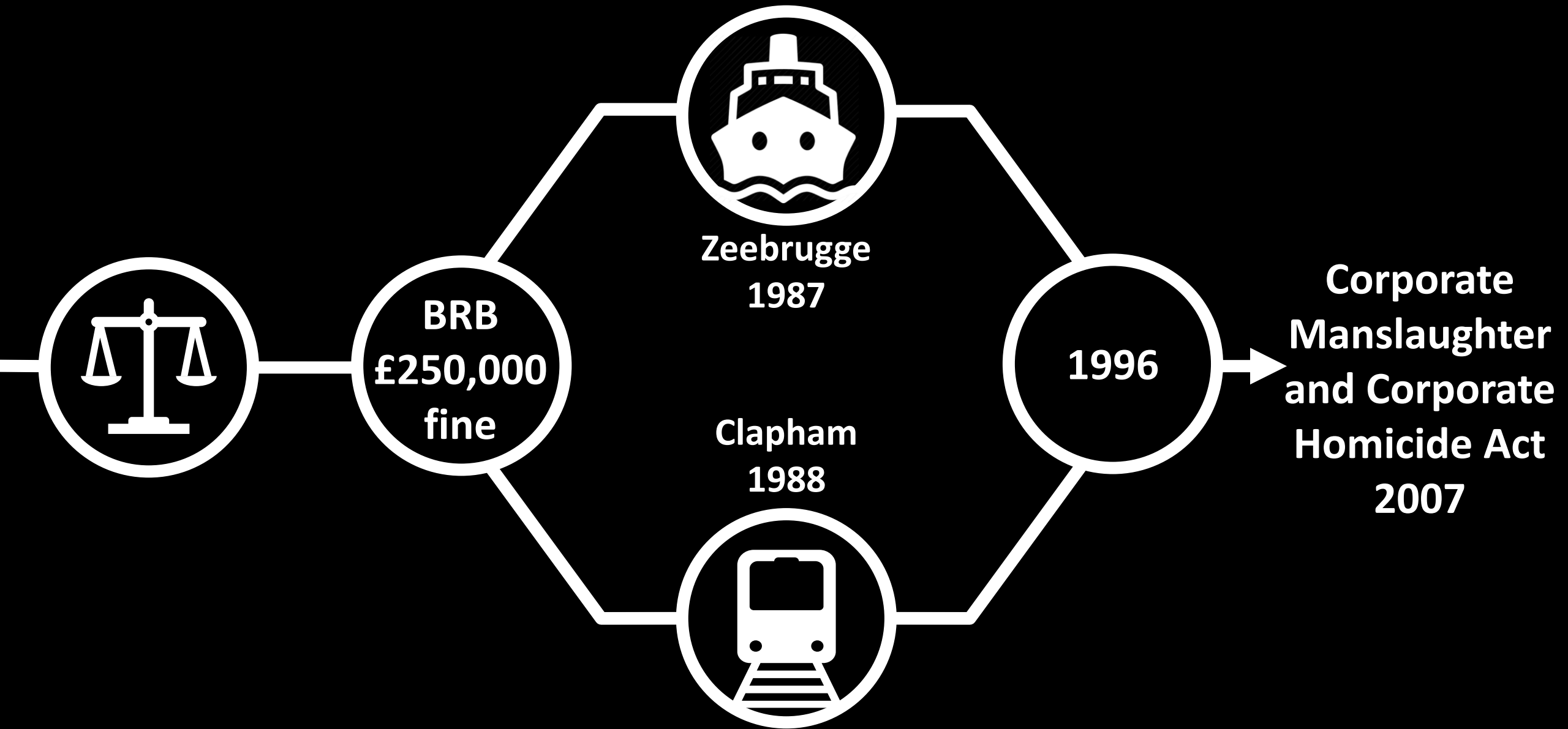
Uncontrolled When Printed  
Document comes into force 01/09/2012



## Managing Fatigue - A Good Practice Guide

Document no. RS/504 Issue 1

September 2012

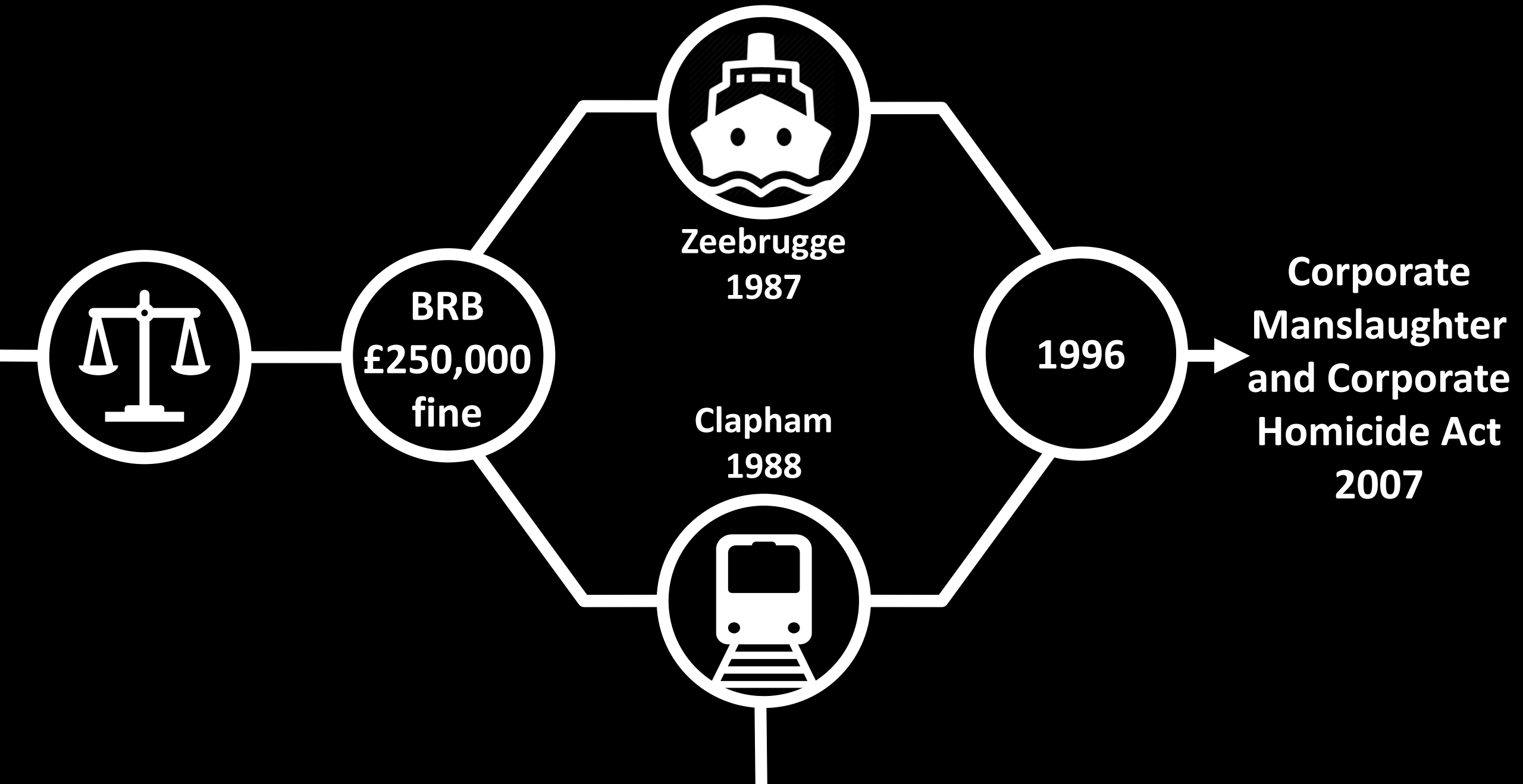


**Zeebrugge  
1987**

**Clapham  
1988**

**1996**

**Corporate  
Manslaughter  
and Corporate  
Homicide Act  
2007**



**BRB**  
**£250,000**  
**fine**



**Zeebrugge**  
**1987**

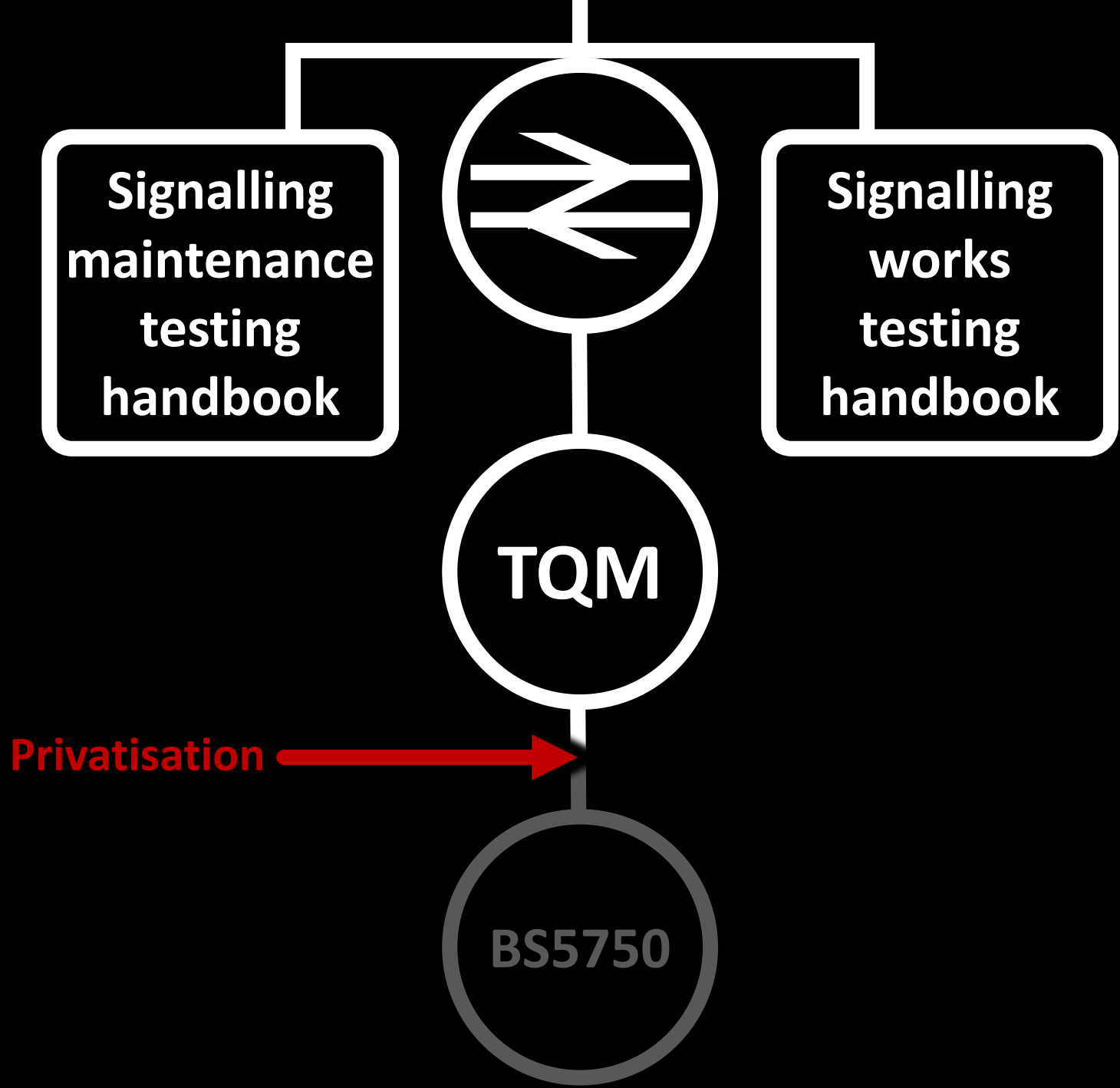


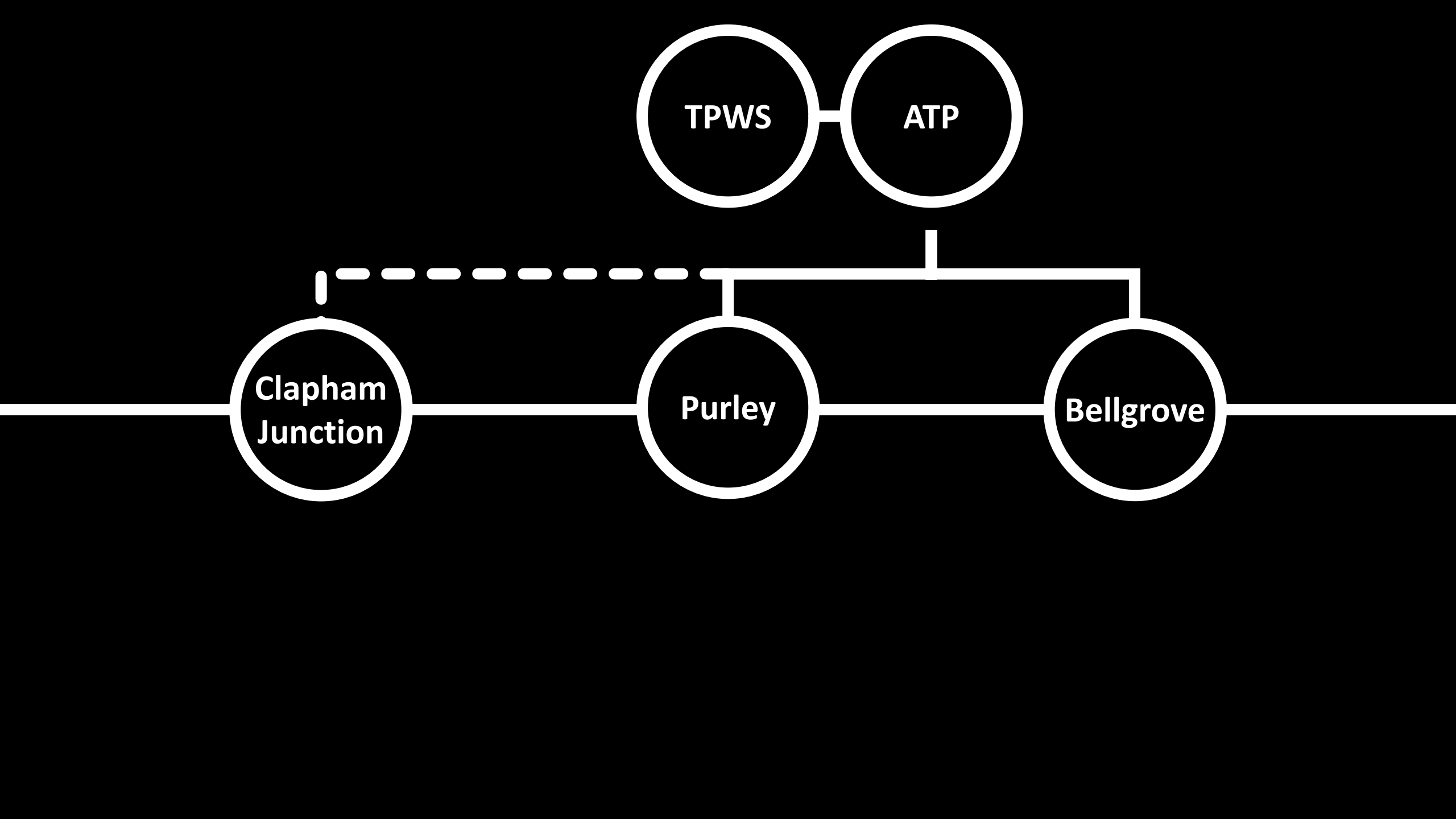
**Clapham**  
**1988**

**1996**

**Corporate**  
**Manslaughter**  
**and Corporate**  
**Homicide Act**  
**2007**







TPWS

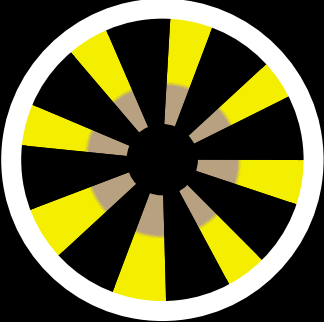
ATP

Clapham  
Junction

Purley

Bellgrove

TPWS



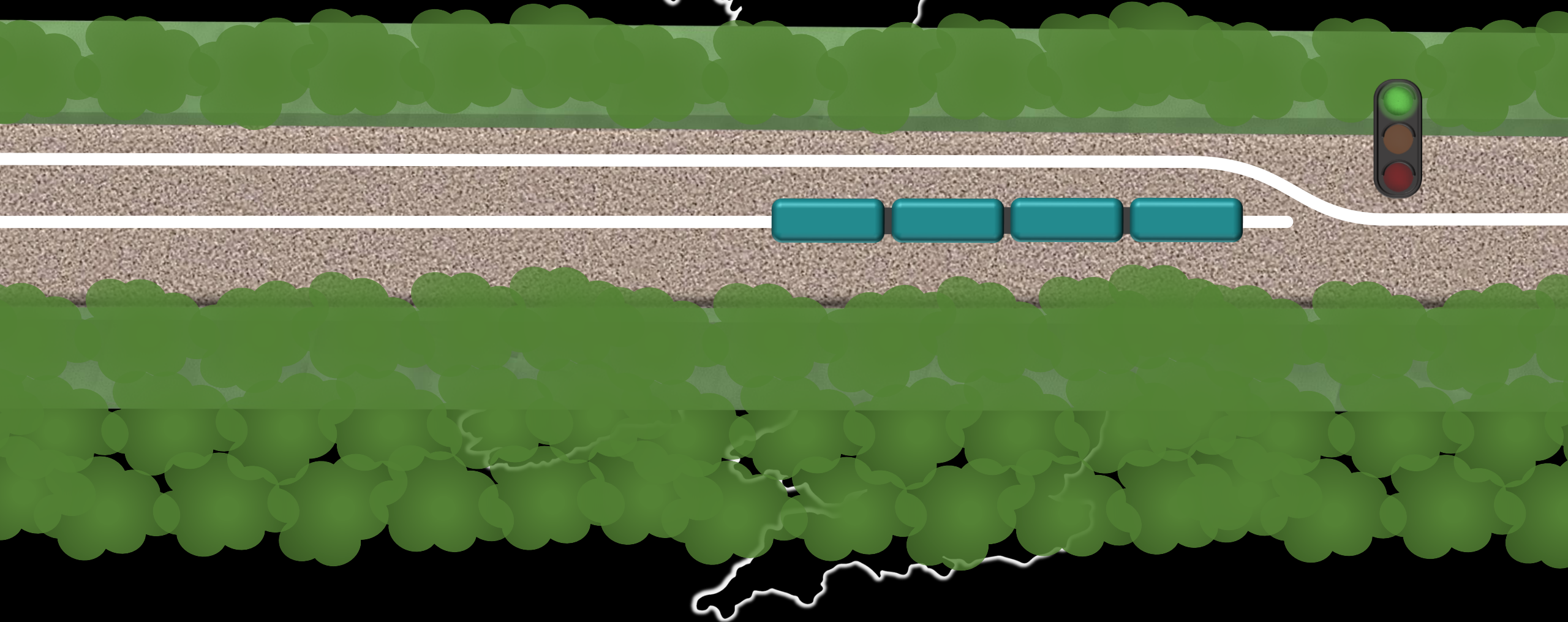
29 December 2016



29 December 2016



Treherbert →



**This alarming incident...serves as a timely reminder of how easily things can go wrong when railway infrastructure is being upgraded and renewed.'**

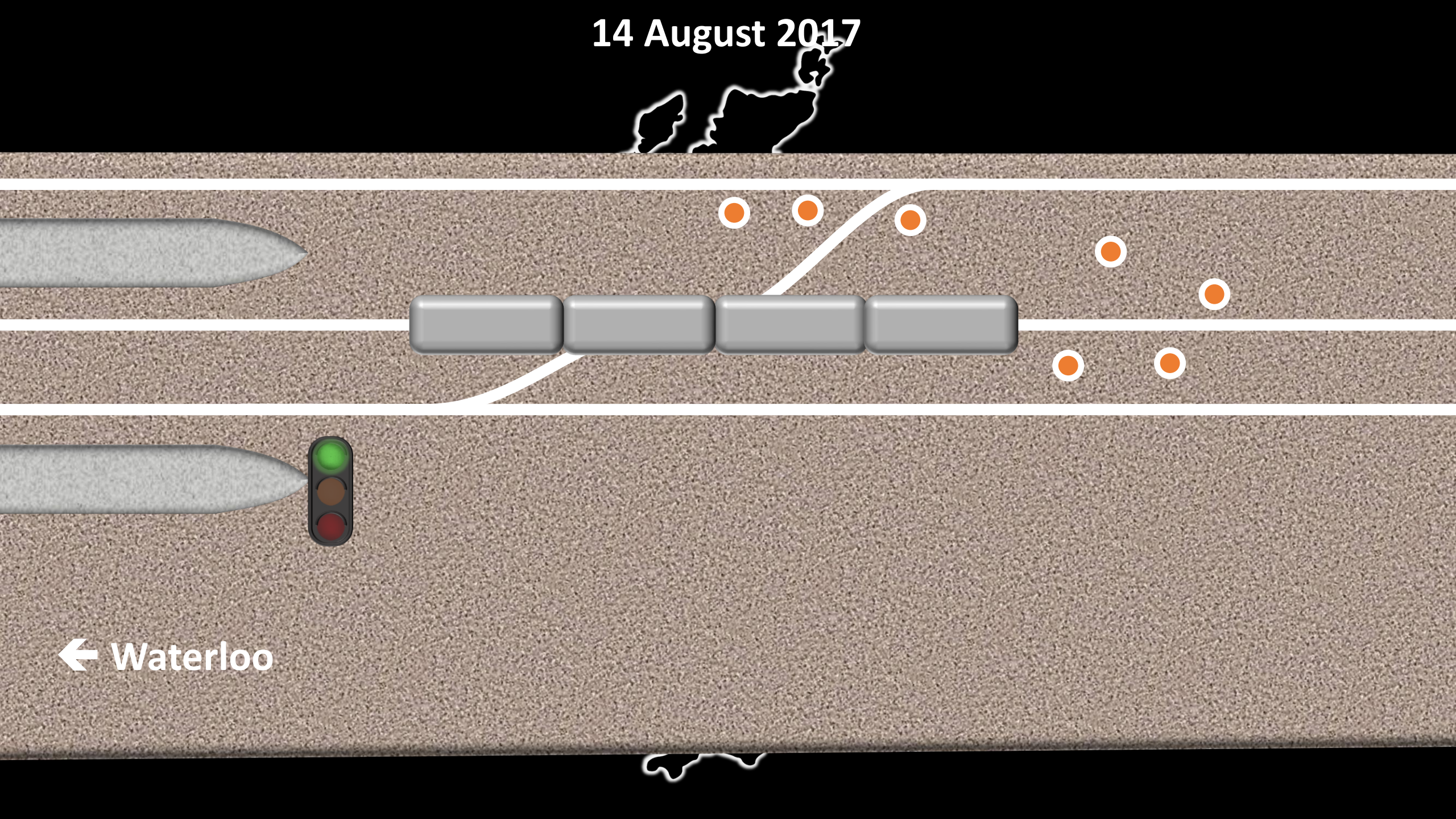
**'It is [...] important when organising intensive periods of commissioning work, to properly manage the working hours of the people doing the job. Back in 1988, the disastrous collision at Clapham Junction happened in part because working for weeks on end without any days off was part of the culture in some areas of the railway. Rightly, things have changed a lot since then. However, the events at Cardiff showed how easy it is to forget the lessons of Clapham and slip back into those habits under the time pressures of a big commissioning.'**



14 August 2017



14 August 2017



← Waterloo





**We combat complacency  
with continued vigilance....**

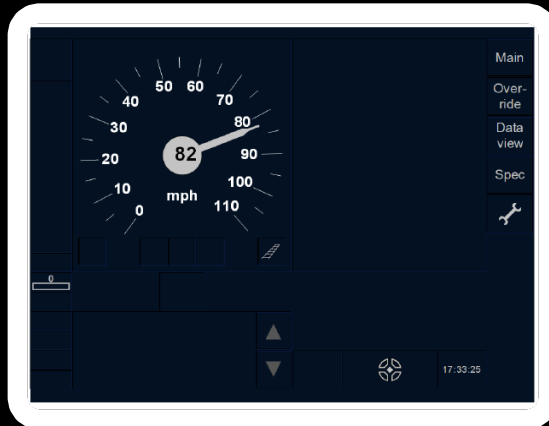
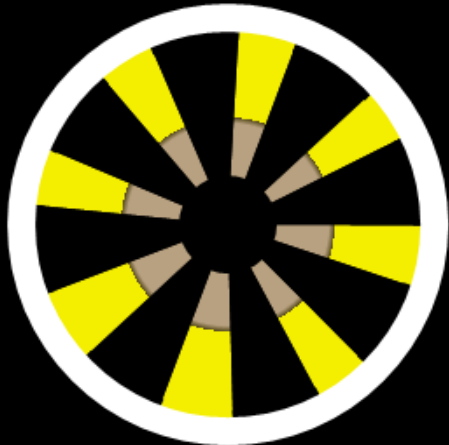


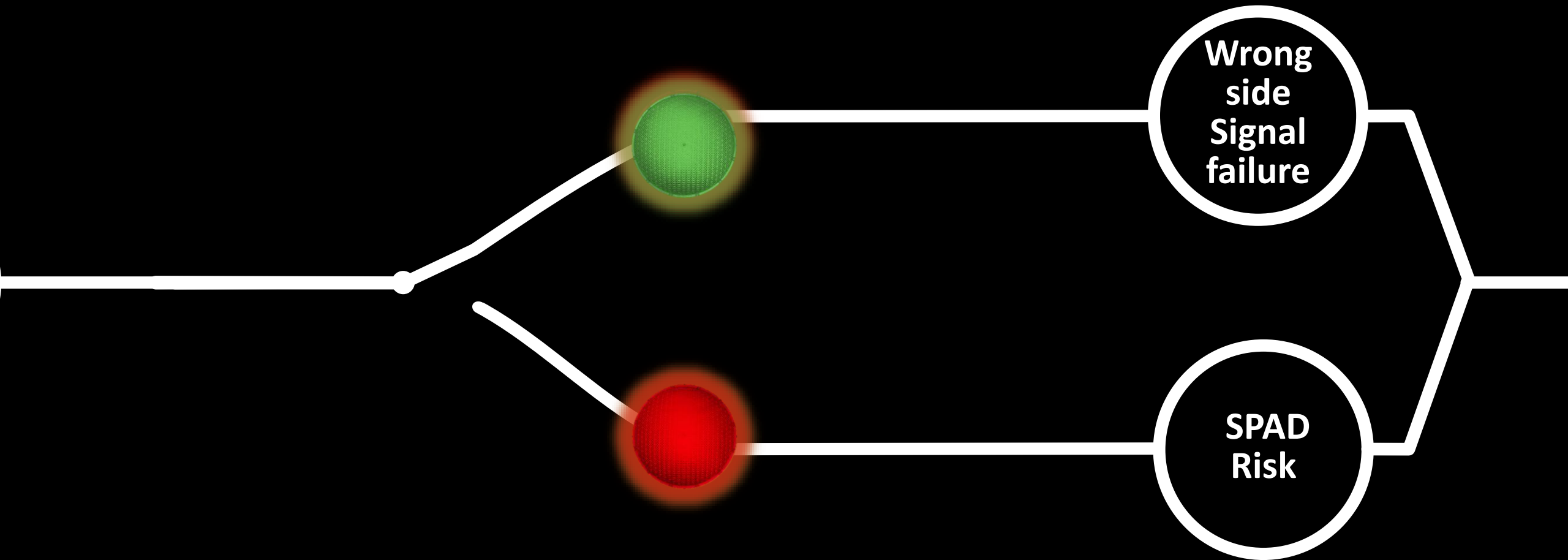
Cultural Change  
Start reading  
J.M. Coetzee

Railway System



Railway System

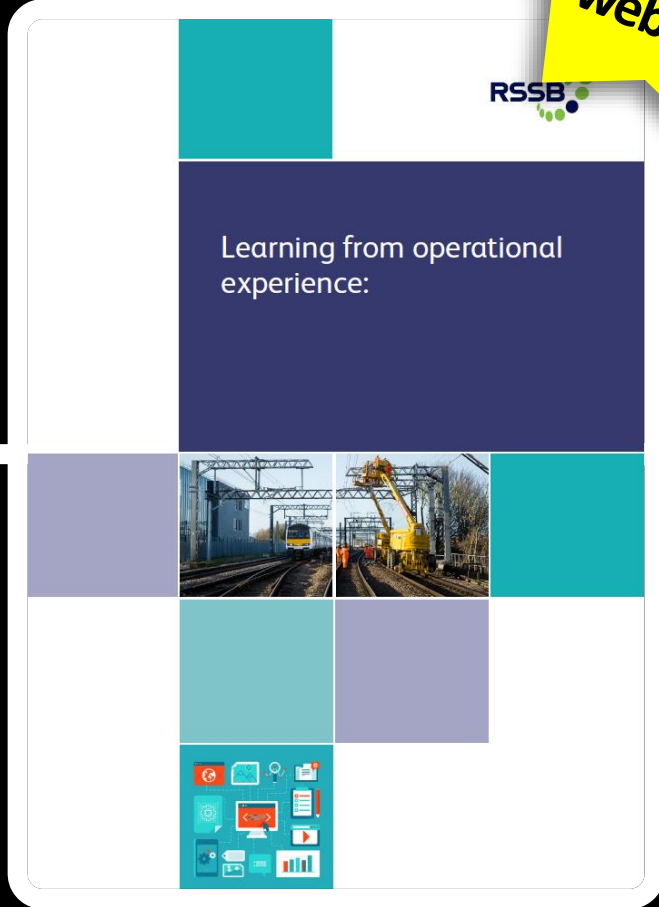




**Wrong  
side  
Signal  
failure**

**SPAD  
Risk**





Available on  
all good RSSB  
websites

BRIMS

Privatisation

SMIS

**Non Rail accidents**

**Qualitative Analysis**

**RAIB reports**

The central graphic is a square divided into a 3x3 grid. The top-right cell contains the RSSB logo. The middle cell contains the text "Learning from operational experience:". The middle row contains two images: a train on tracks and a yellow crane. The bottom-left cell contains a grid of colorful icons representing various data and technology.

**Close call**

**Quantitative Analysis**

**SMIS**



**Non Rail accidents**

**Qualitative Analysis**

**RAIB reports**



**Close call**

**Quantitative Analysis**

**SMIS**



Thank you

