



LONDON FIRE BRIGADE

Current Trends in London and 150 years of the LFB

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London Fire Brigade



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London Fire Brigade



1866 – 2016: 150 years of history



"Things were harder back then.." 1931 – Butlers Wharf



Just a few moments in recent history..

16 August 1980: Denmark Place (Soho) fire

The deadliest fire in London since 1945 when a deliberate fire claimed the lives of 37 people.

5 October 1999: Ladbroke Grove (Paddington) rail disaster

Thirty one people were killed and hundreds more injured when two passenger trains collided.

21 Jul 2004 : Bethnal Green Road

Two firefighters died after saving men trapped on burning roof.

07 July 2005: 7/7 bombings

A series of coordinated terrorist attacks in central London killed 52 people and injured hundreds.

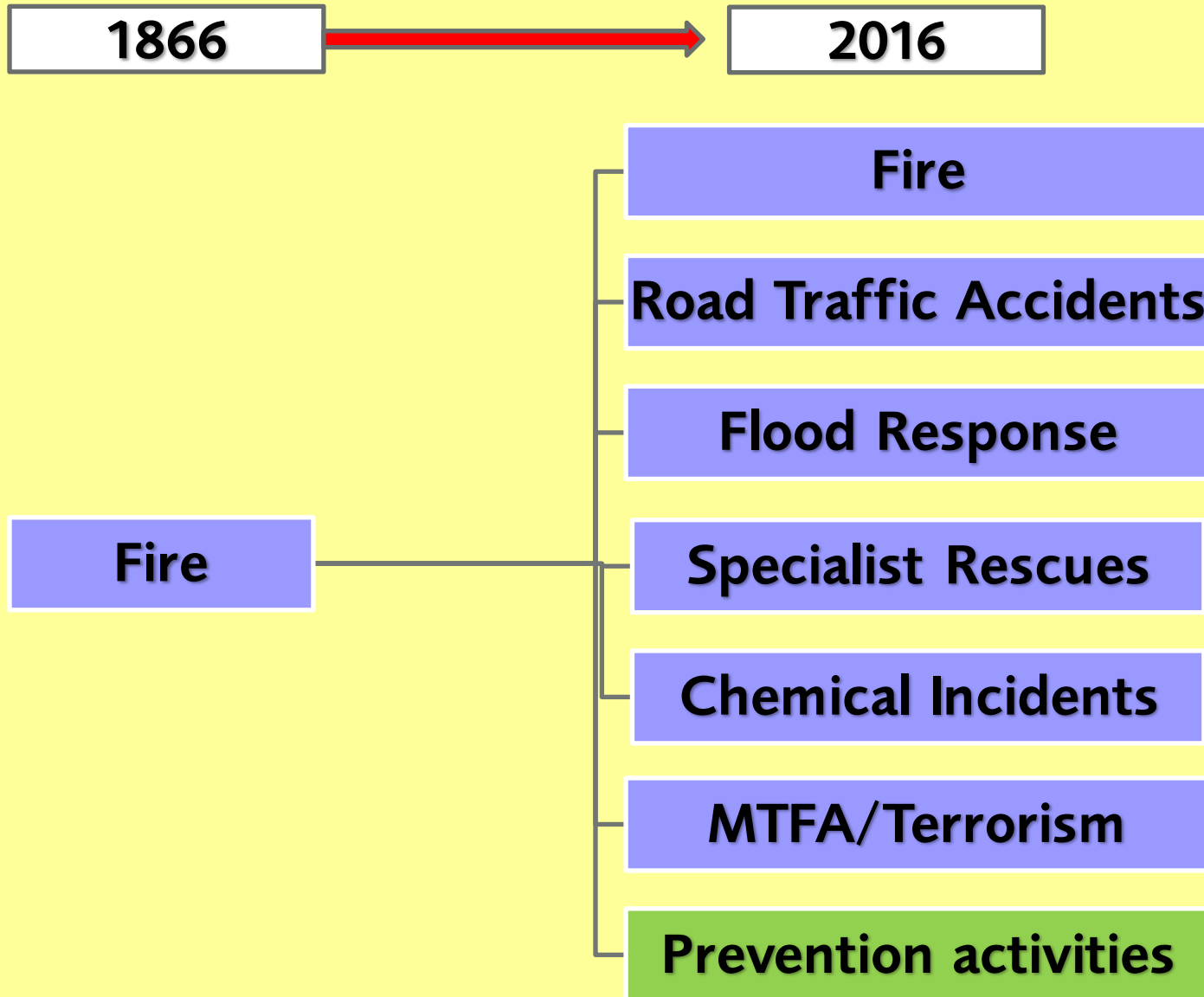
21 May 2007: Cutty Sark fire

While undergoing restoration, a blaze engulfed the famous ship.

12 August 2012: Dagenham recycling centre (?)

Smoke could be seen across the city from one of the capital's largest fires in several years.

Fire Service or Fire, Rescue & Prevention Service?



From Fire Investigation to Prevention



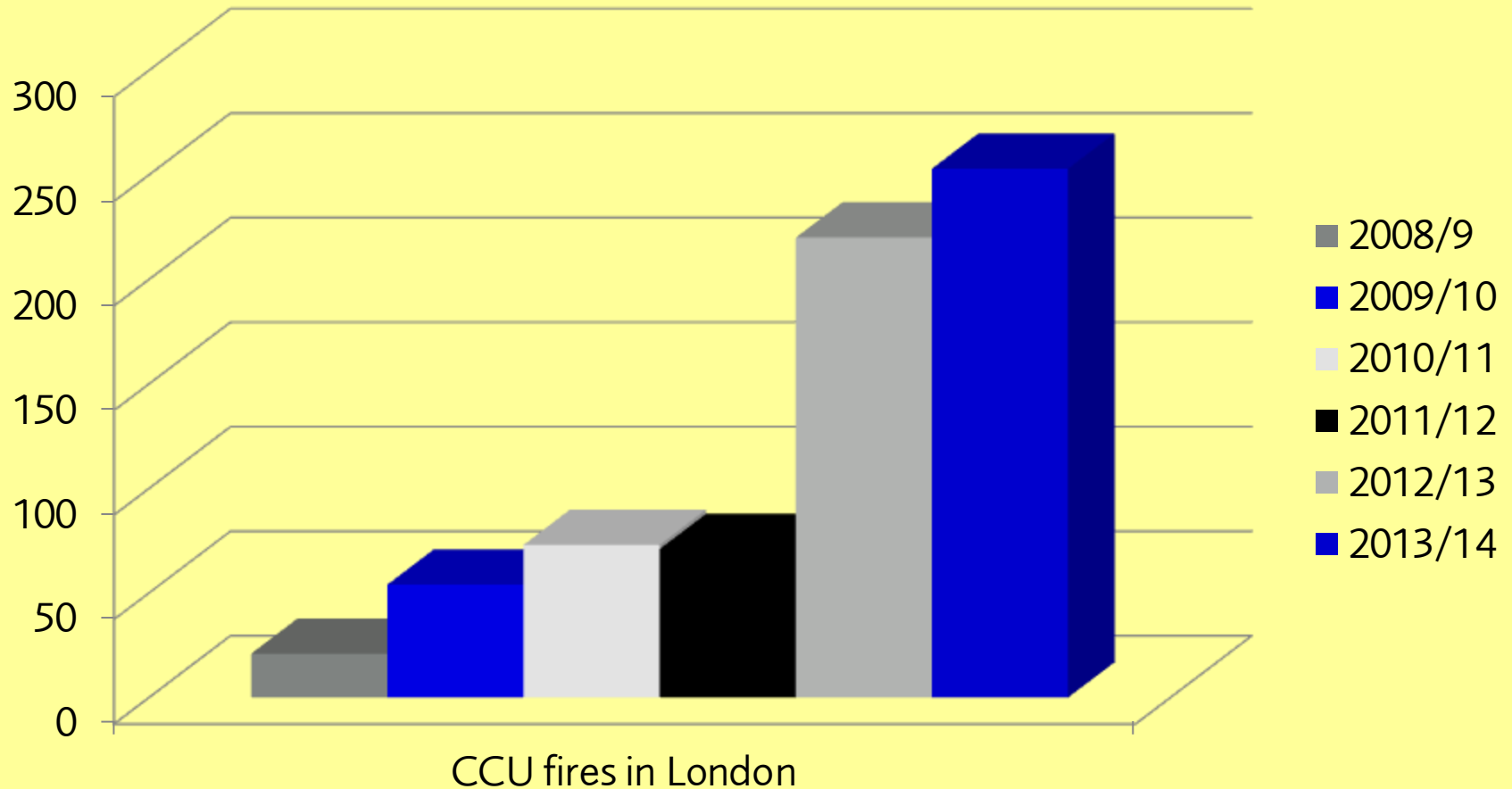
**Is information is our biggest asset?
A few examples..**

Fires in Consumer Units



Tests with LFB and Electrical Safety First

How big is the problem? Quantitative data



Qualitative data - What are the causes? Poor connections, non compliant products, containment?



Why was LFB so concerned?

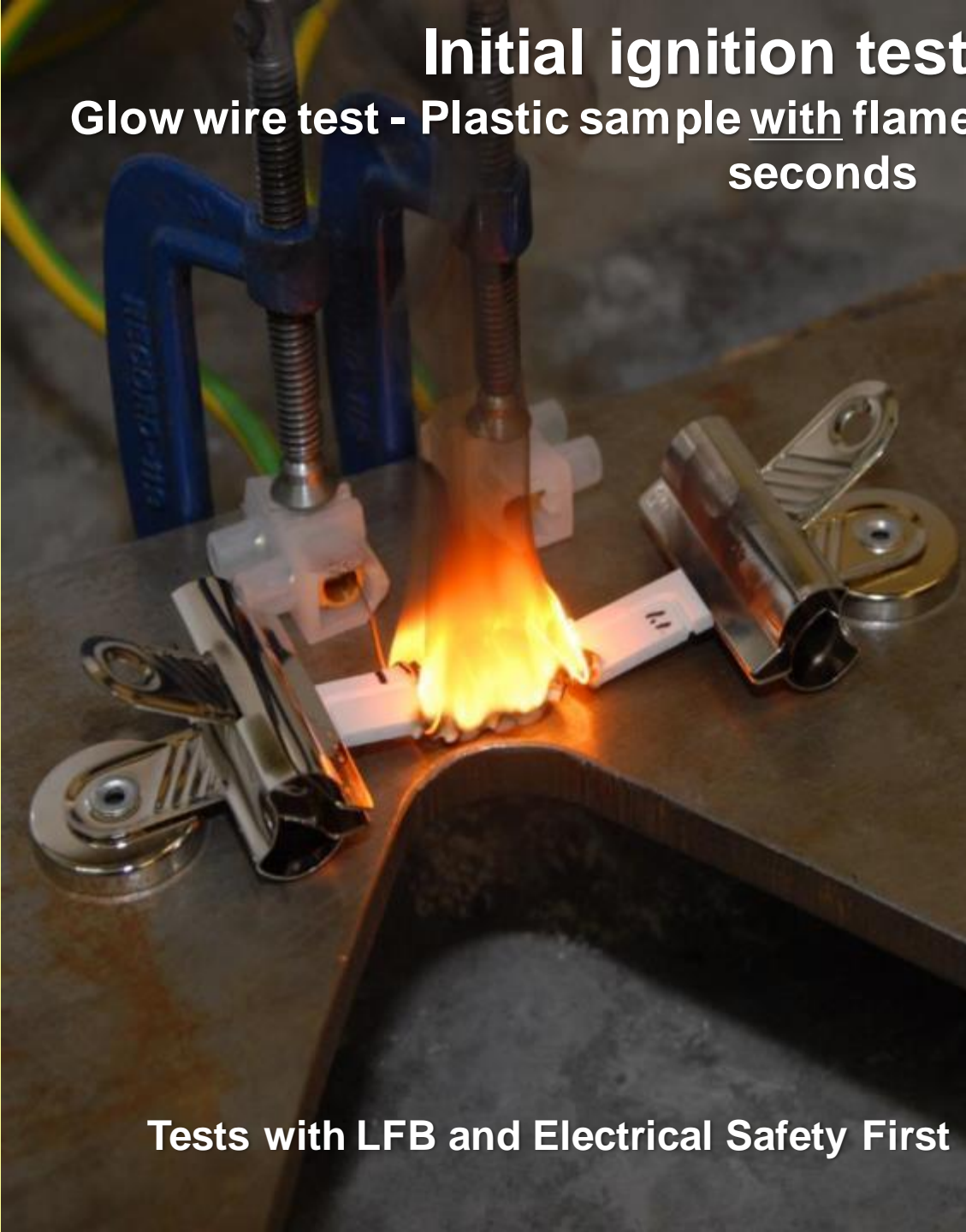
Safety problem:
Escape routes

The image shows a close-up of a heavily damaged, dark-colored metal or concrete structure. A large, irregular hole is visible in the center-left, revealing a lighter, possibly internal layer or a void. Debris, including small particles and larger chunks of material, is scattered around the hole and on the surface below. The overall appearance is one of significant structural failure or degradation.

**Safety problem:
Containment**

Initial ignition tests – 2012

Glow wire test - Plastic sample with flame-retardant – ignition after 16 seconds



Tests with LFB and Electrical Safety First





Outcomes

Further evidence: BRE report

"Both plastic consumer units caught fire and their casings became involved in the fire"... ... " Both metal consumer units contained the fire within the unit"
(Report BD2890)



Amendment 3 implemented in January 2015

Cost of fires Saving of £2,500,000+

Shepherds Bush Fire



★★★★★
“EXPLOSIVE”
nearly one fire a day in
London involves white goods

★★★★★
“TIME-BOMB ACTION”
70 per cent of people have never
checked whether their white goods
have been recalled

★★★★★
“SHOCKING”
cleaner than you would consider as
using white goods even if they
started making a strange noise

Tell people about **TOTAL RECALLS**



You can help to make white goods safer
Find out how on the news area of Hotwire

L F B
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Total Recalls: –
an ‘overnight
campaign’ or 3 years
of planning based
on 15 years of
qualitative and
quantitative data
with trend analysis?

Refrigeration issues (*insulation and more*)



Plastic backed fridge



Metal backed fridge



Ignition 0 – 5 seconds



1 minute 15 seconds



2 minutes



2 minutes 30 seconds – Fire needs to be extinguished as too intense

2 minutes 30 seconds

A quick mention of a few others..



Involving human behaviour/lifestyle



‘Hover boards’
500,000+ seized by Trading Standards..

Home Oxygen





Lifestyle issues and challenges



Hoarding and mental health behaviours





**And the
'unbelievable'..**

Unseen fire travel





Marston Way - A block of residential flats of four floors 40x20m, managed by LB of Croydon. Occupiers included tenants and leaseholders





12 flats completely lost.





Window frame being removed from room of origin (some brickwork removed)



Intrusive survey in neighbouring block
Similar window and plastic trim fitted to window return.





**No cavity closers
Fibreboard is clearly visible with trim removed.**



This purpose built block flats of 4 floors in Barking was built circa 1997. The property consisted of 4 flats per floor, totalling 16 flats

Fire first seen at 1st floor window

..Stop message sent

..Incident then made up to 10PF





Fire damage within wall on left hand side of staircase, ground floor.



Fire damage within wall on left hand side of staircase, second floor.

Data sharing challenges



DPA
Resources
Commercial sensitivity
Secure transmission
Data quality
And more..

Good or bad information in a world of social media





Any Questions?

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