



Steven Hails

Crossrail

Whispering Health and Shouting Safety in the Construction Industry

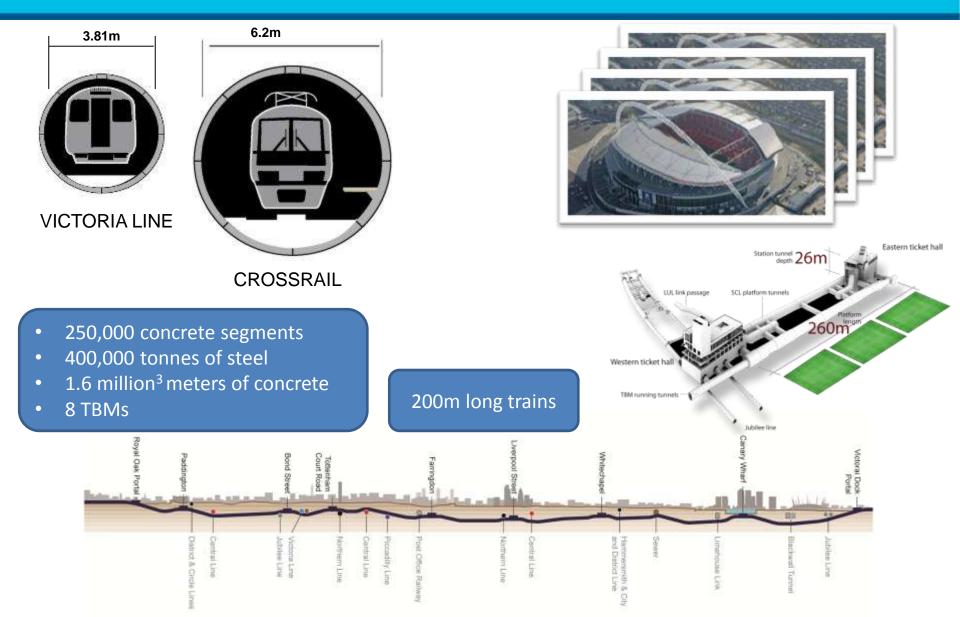


■ Whispering Health &Shouting Safety in construction

- **◀** Steve Hails
- **◀** Health and Safety Director

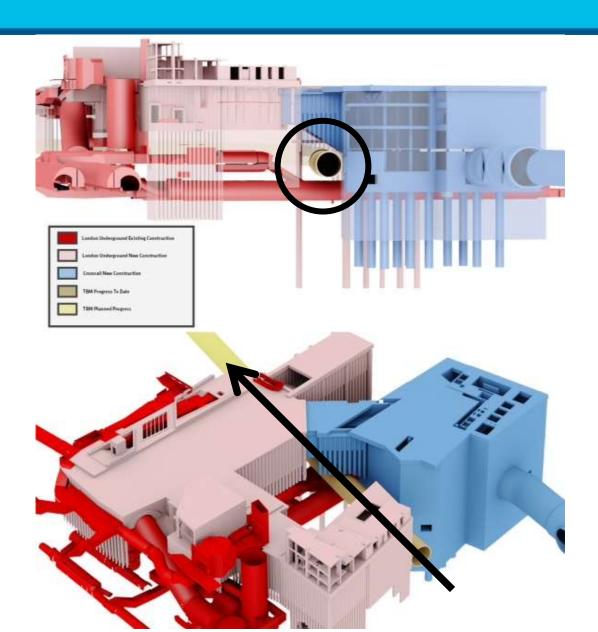
The Challenge





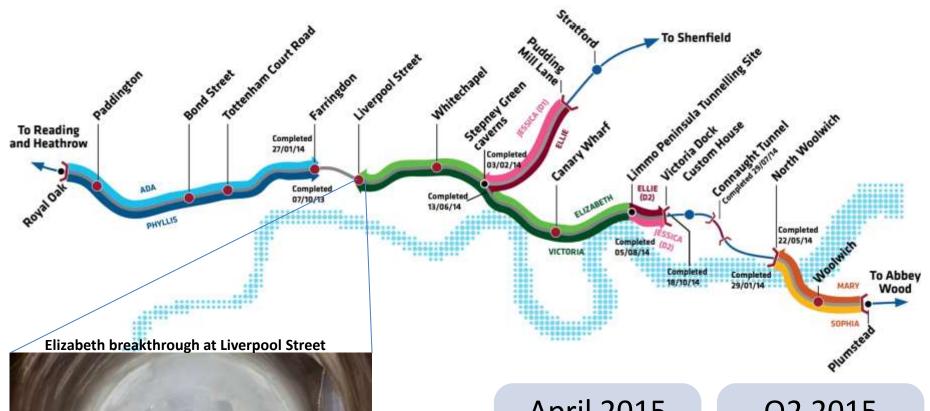
Complexity





Tunnelling progress





April 2015

Over 40km

97% complete

6TBMs complete

Q2 2015

42km

100% complete

8 TBMs complete

Tunnels – Sprayed Concrete Lining





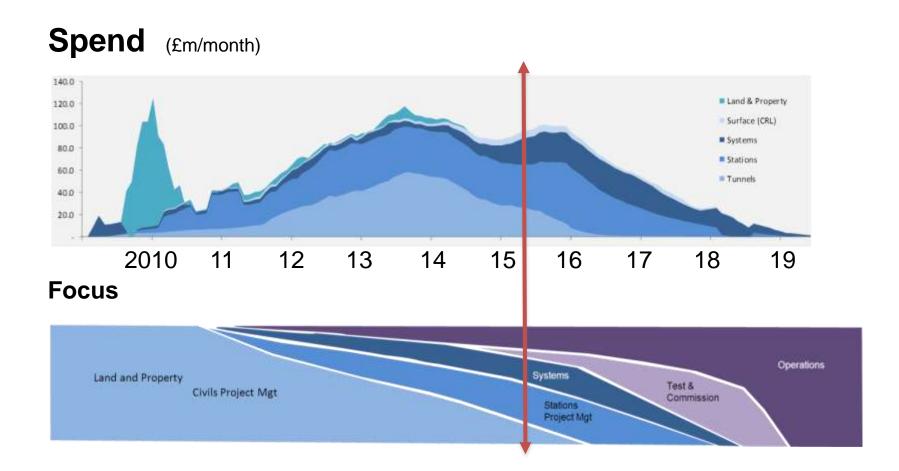
Stations





Our focus is changing





The second half - Delivering a World Class Railway

















◀ Work-related III-Health

The Problem



99%

The Problem





The Problem



Deaths from Occupational Disease



x 25

Deaths from Occupational Cancer



x 15

Deaths from COPD



8 x

New Cases of Occupational Cancer Diagnosed



x 27

Health and Safety compared Source: HSE



Safety	Health		
133 workers killed at work	2535 mesothelioma deaths		
87% reduction since 1974	Asbestos-related death increased year-on-year from 1974 to 2012		
78,000 other RIDDOR injuries	1.2 million work-related illnesses		
77% reduction since 1974	Broadly flat since late 90s		
28.2 million working days lost			
£14.2 billion estimated cost of injury and ill health			

Work-related III Health



Common Health Conditions

Stress 244,000 new

487,000 total

MSDs 184,000 new

526,000 total

Dermatitis 950 cases (new low)

Long Latency Conditions

Asbestos 5,000 deaths per year

8,000 deaths per year

Vibration 100 new claims per year

> NIHL 18,000 new cases

Cancers

Respiratory 4,000 new COPD

Source: HSE

Construction Industry



5% of working population

32% of fatal injuries to workers

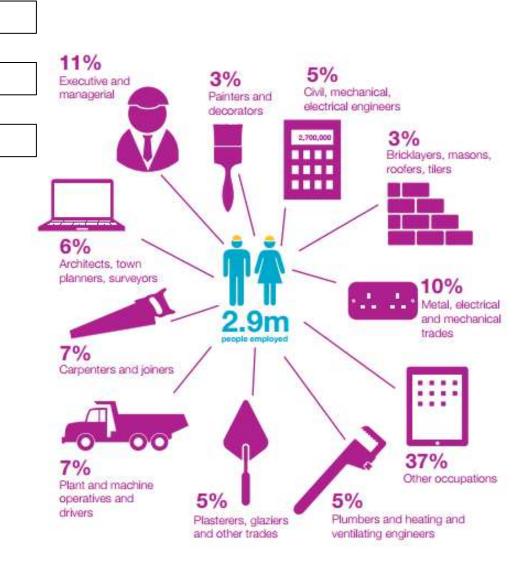
42% of occupational cancers

76,000 cases of work related ill health

2.3 million working days lost in 2013/14

- 1.7 million to ill health
- 592,000 to workplace injury

Injuries and new cases of ill health costs society £1.1 billion per year





Top 10 Industry Sectors attributed to Occupational Cancer Deaths L Rushton/HSE

Rank	Sector	No. of Deaths
1	Construction	3457
2	Personal & Household	556
3	Shiftwork	552
4	Land Transport	416
5	Metal workers	284
6	Painters & Decorators	254
7	Printing	243
8	Mining	228
9	Retail & Restaurants	211
10	Manufacture of Transport Equipment	155
9	Retail & Restaurants	211



Top 10 Industry Sectors attributed to Occupational Cancer Registrations L Rushton/HSE

Rank	Sector	No. of Deaths
1	Construction	4668
2	Metal workers	1252
3	Personal & Household	670
4	Shiftwork	552
5	Land Transport	498
6	Roofers, Road Surfacers & Paviors	471
7	Painters & Decorators	334
8	Mining	296
9	Printing	282
10	Public Administration & Defence	273



Top 10 Causes of cancer deaths attributable to occupational carcinogens L Rushton/HSE

Rank	Sector	No. of Deaths
1	Asbestos	3909
2	Silica	789
3	Diesel Engine Exhaust Emissions	652
4	Mineral Oils	566
5	Shiftwork	552
6	Painters	334
7	Tobacco Smoke	249
8	Tetrachlorodibenzodioxin	231
9	Radon	184
10	Welders	152



Top 10 Causes of cancer registrations attributable to occupational carcinogens

L Rushton/HSE

Rank	Sector	No. of Deaths
1	Asbestos	4216
5	Shiftwork	1957
4	Mineral Oils	1730
10	Solar Radiation	1541
2	Silica	907
3	Diesel Engine Exhaust Emissions	801
9	Coal Tars and Pitches	545
6	Painters	359
8	Tetrachlorodibenzodioxin	316
7	Tobacco Smoke	284



◀ Health like Safety

Why bother



WHO workplace framework:

- → The right thing to do: Business Ethics
- → It's the Smart thing to do: Business Case
- → It is the legal thing to do: The Law

CONIAC



- Inspection campaign
 - 853 inspections
 - ◆ 107 improvement notices COSHH (46), manual handling (16), Noise & vibration (18), others (27)
 - 13 prohibition notices COSHH (8), manual handling, lead and others
 - 239 contravention notices under FFI Regulations
- Ongoing campaign using philosophy of "Health like Safety"



◀ Hygiene, Health or Wellbeing

Occupational Hygiene

Protecting People from Workplace Health Risks

Occupational Health

Managing Health of Workers

Wellbeing

Promoting
Healthy Lifestyle
Choices



◀ Health at Crossrail

Health & Safety framework



Principles

We helieve that all harm is preventable



Pillars

Golden Rules



High Risk Activities







Confined spaces

Railway Operations



Breaking Ground



Lifting Operations





Four cornerstones for health





Healthy company



Activities

- Visible commitment to national and industry campaigns PHRD, NTTL, TTC
- Setting Standards and good practice
- Improve understanding of occupational health
- Robust management system
- Audit and assurance



Fitness for work



Activities

- Medical assessment
 - Pre-placement
 - Management referral
- Drug & alcohol testing
- Clinical standards



Health risk management



Activities

- Managing key risks
 - Air quality
 - Fatigue
- Monitoring
 - Occupational hygiene
 - Health surveillance

Protecting our workforce from inherent risk and ensuring Zero harm

Wellbeing



Activities

- Health & wellbeing survey
- Monthly toolbox talk
- Health campaign mental health
- Lifestyle assessment 2 yearly



A health legacy







- Building on the work of the ODA...
 - Occupational hygiene & health standards
 - Employee wellbeing
 - Public Health Responsibility Deal

In Summary



- Health needs parity with Safety
- Occupational Hygienists' expertise are required
- Help us make this transition quickly
- It is not either/or with health and wellbeing
- We must act now and decisively

Moving London Forward



