

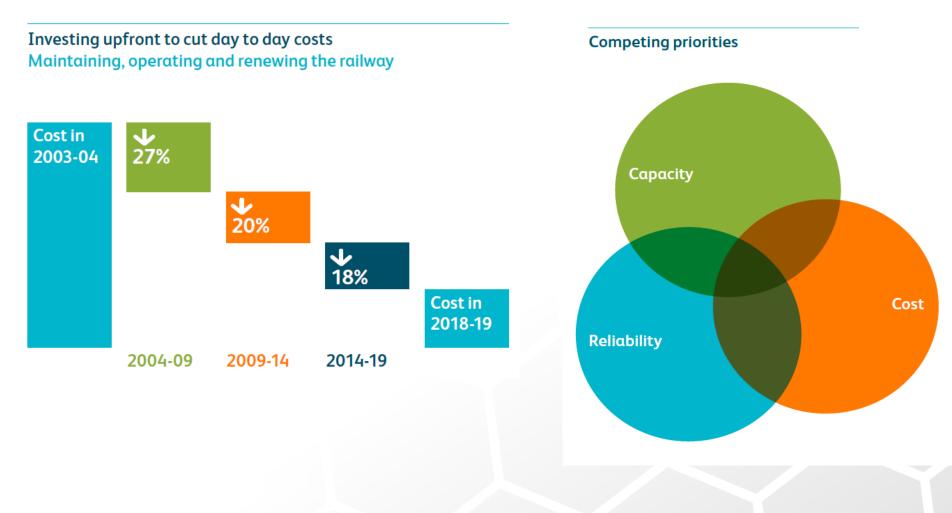
Capacity Planning

# Welcome to Capacity Planning

SAFE AND RELIABLE COMMITTED TO QUALITY MASTERFUL PLANNING	CAPACITY
INTUITIVE COMMUNICATIONS METICULOUS DETAIL • RESPONSIVE FLEXIBILITY RESPONSIVE FLEXIBILITY	PLANNING













# Today's reality? Perceptions?



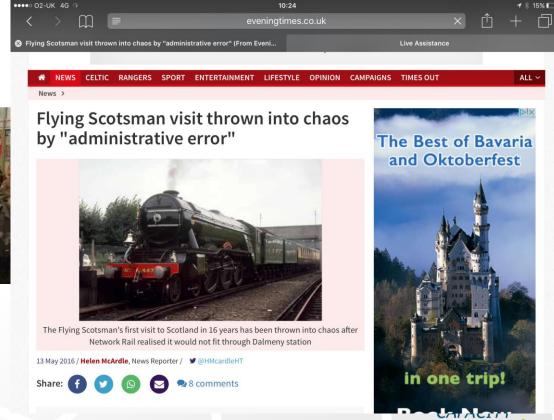
#### News > Transport

#### London Bridge delays: 100 more timetable changes in bid to halt disruption

DICK MURRAY | Tuesday 28 April 2015 | 💭





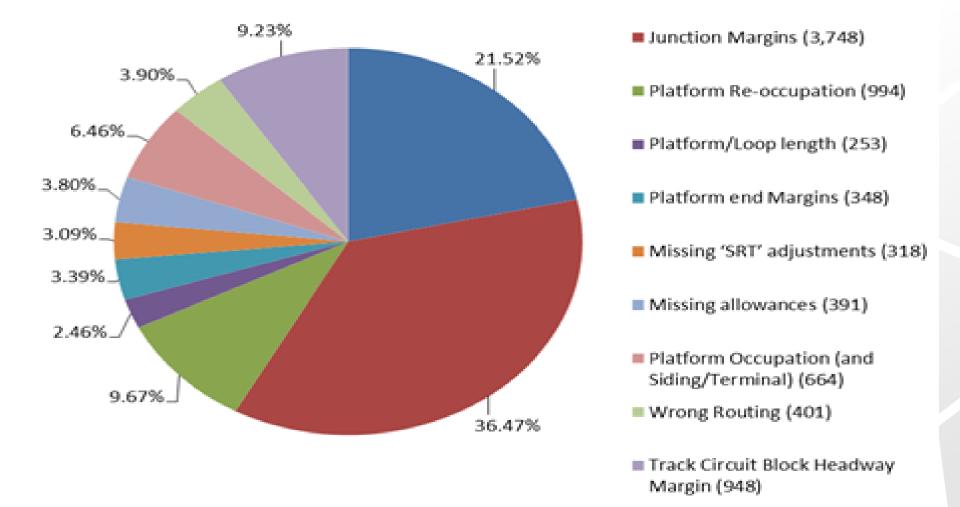


PLANNING

# **Performance challenge**

Incidents caused by known planning errors (Period 1 - Period 13) Headway Margins (2,211)

NetworkRail





# A changing environment

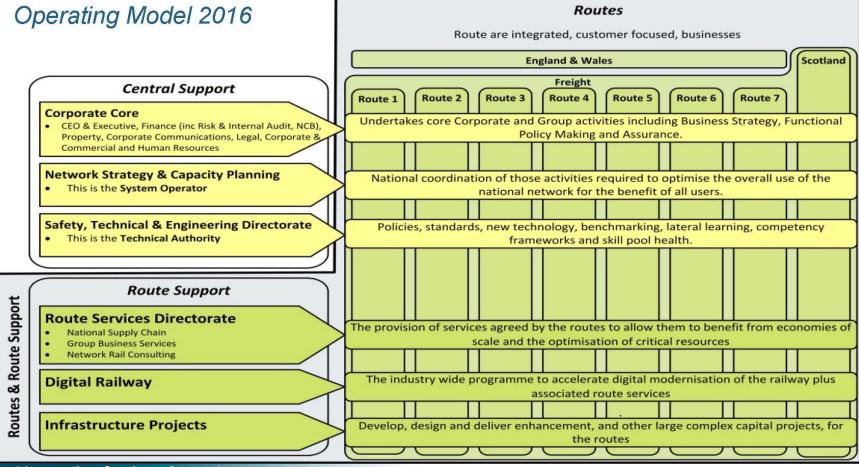
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CAPACITY PLANNING



### An evolving role...



A better railway for a better Britain... better every day





# **Capacity Planning – Who Are We?**











# Leadership team...





# Strategic focus

- New timetable
- New Service
  Specification
- New Rolling stock
- New TPRs

- Existing Infrastructure
- New Infrastructure
- New Signalling

Can we achieve

• More

Capacity

- Better
  Performance
- Improve Journey Times





**1** ∦ 13% 🕞

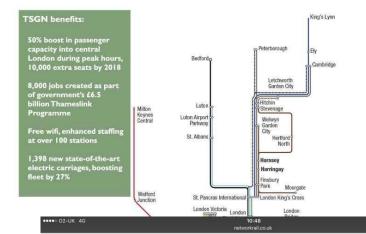
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# Massive investment



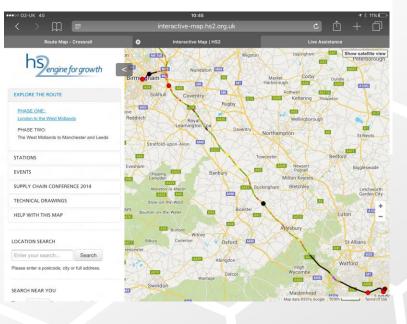
crossrail\_regional\_route\_map\_march\_2014 24 May 2016, 10:38





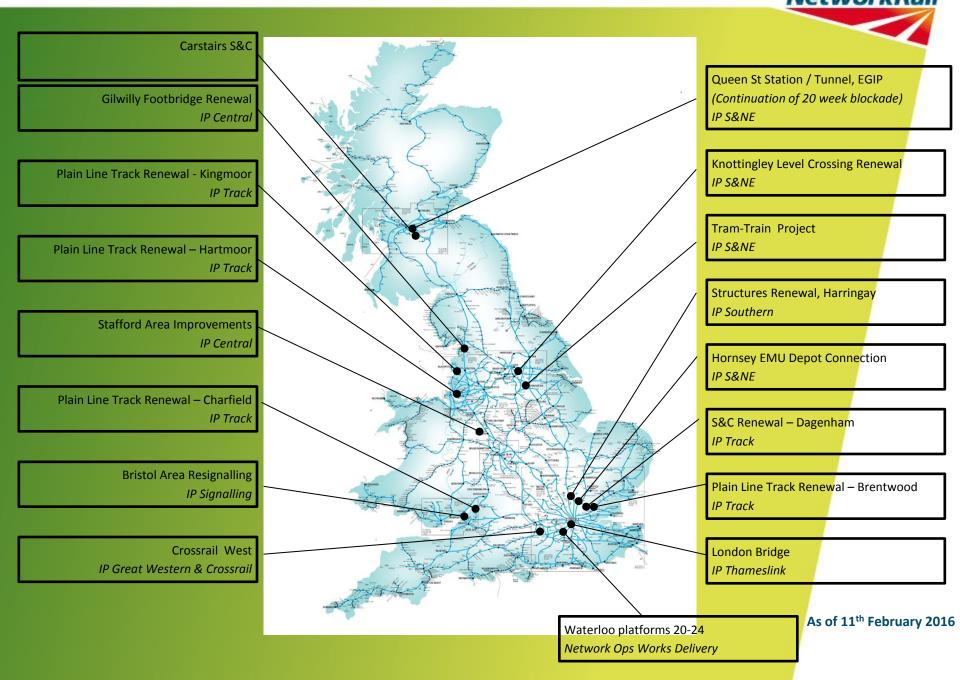
Modernising the Great Western route







# Tactical - 2016 TT Year – Late May Bank Holiday NetworkRail







## **Operational Challenges of Planning Trains**









CAPACITY PLANNING



# Deliver a Zero Defect Timetable



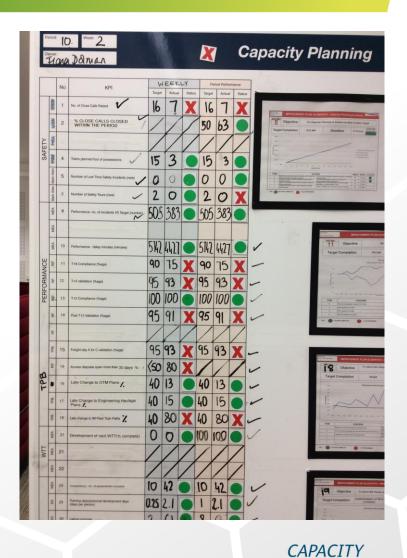




PLANNING















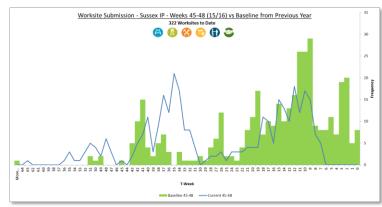


**NetworkRail** 

### IAP - 4 projects available to you...

### 

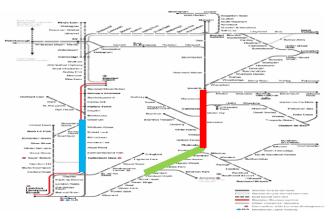
#### T-26 lockdown...



#### Engineering trains in the timetable



#### Better long term planning



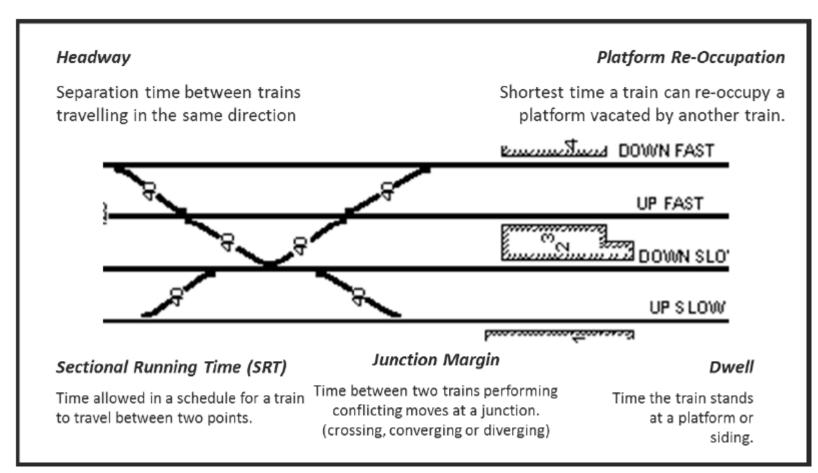
Olympic timetable



# What is TRIP?



The Timetable Rules Improvement Programme (TRIP) is undertaking a systematic review of the 5 key building blocks of the timetable at key areas of the network.



### TRIP areas and CP5 National PPM benefit

	Benefit from Dec	Benefit from Dec	Benefit from Dec	Total Benefit at 31 March
Туре	16	17	18	2019 *
Northern	0.032	0.013	0.001	0.046
Western	0.022	0.000		0.023
Wessex	0.024	0.018		0.042
Anglia	0.020			0.020
West				
Midland		0.104	0.000	0.104
South				
East		0.129	0.061	0.148
National				
SRTand				
Dwell				
Analytics		0.100		0.100
Annual	0.098	0.365	0.062	0.482

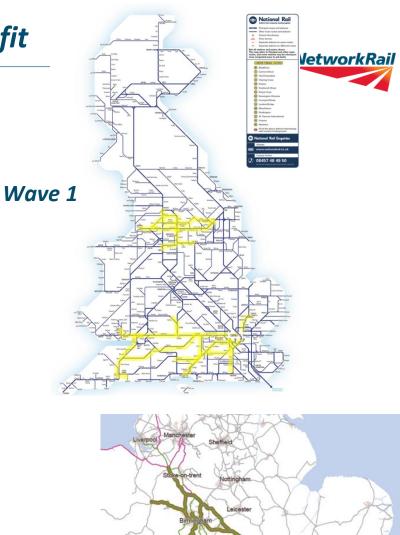
#### **TRIP CP5 National PPM Total = 0.48%**

Wave 2

Caerdydd

Bournemouth

\*Total by 31<sup>st</sup> March equates to total Dec 16, & 17 benefit and 112 days of Dec 18 benefit

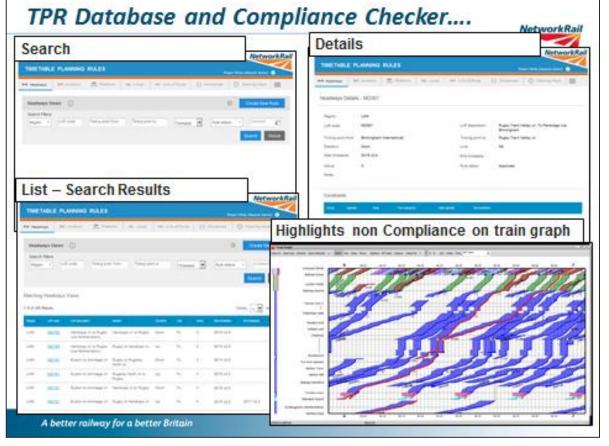


### **Timetable Rules Database - Compliance**



### 1. TPR Database – A open industry access database of TPRs.

- Better change control of TPRs
- Improved visibility of change rationale
- Easier access to TPRs
- Ambiguities resolved
- Opportunity to add additional tools in the future, e.g. sensitivity analysis.
- 2 Timetable Compliance Tool Effective identification of where the timetable has not be planned using live TPRs correctly.
  - Facilitates the removal of these noncompliances thus reducing delays and improving customer satisfaction
  - A positive move towards Zero Defect Timetable





# Deliver a Zero Defect Timetable











