

# System Operator Planning a better network for you









# **West Sussex Connectivity**

**Continuous Modular Strategic Planning** 



## Safety first

- No alarm expected today
- Leave room and turn left back to reception
- Alternatively, turn right and follow the fire escape signs
- Fire wardens Paul Best and Simon Hulse
- Hold the handrail!
- Any problems/issues just say!





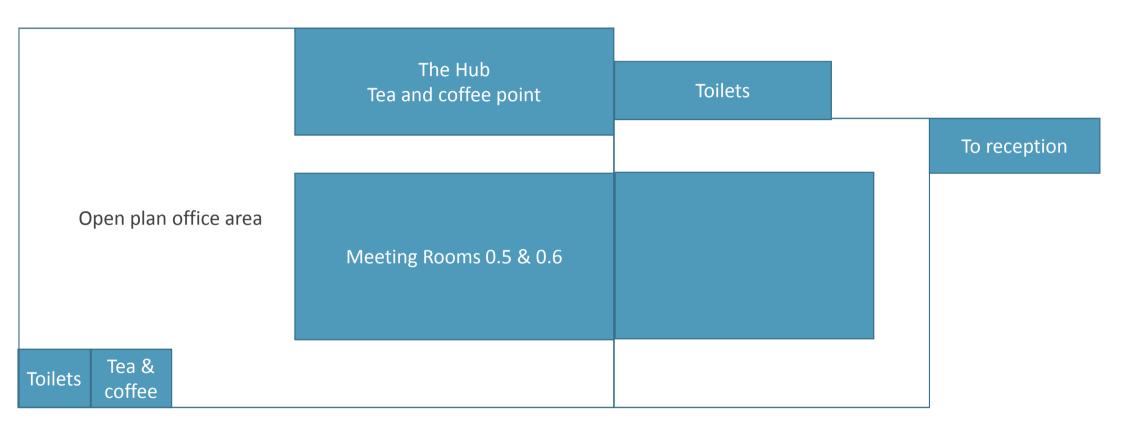
Total walking time: 2 mins (excluding ramp)



Gathering Route



#### **Comfort**



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### **Agenda**

- 09:30 Welcome and introduction
- 09:45 Introducing the Continuous Modular Strategic Planning process
- 10:00 West Sussex Connectivity
- 10:15 The Passenger Experience
- 10:45 Where does rail fit in West Sussex?
- 11:00 Tea, coffee and a chat
- 11:30 Timetabling West Sussex
- 11:45 Operating West Sussex from the ground up
- 12:15 Highways in West Sussex
- 12:30 Lunch

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- 13:00 How do we plan for housing growth?
- 13:15 Workshop 1 the impact of housing growth
- 13:45 What's happening across the border?
- 14:00 Workshop 2 what's planned nearby?
- 14:30 More stations, faster trains
- 14:35 Workshop 3 what would you like to see from rail in West Sussex?
- 15:00 Working with Network Rail to fund schemes
- 15:15 Workshop 4 who pays for what? Identifying funding streams
- 15:30 Any other issues?
- 16:00 Next steps
- 16:15 Wrap up

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#### Welcome and introduction

Mike Smith, Head of Strategic Planning (South East) System Operator, Network Rail



# Introducing the Continuous Modular Strategic Planning (CMSP) process

Alex Hellier, Lead Strategic Planner System Operator, Network Rail

#### Context





"The surge in demand over the past 20 years means we need to **invest in capacity**. To rebalance the economy and create more homes we also need to **forge new links between places**, spurring development and economic growth"

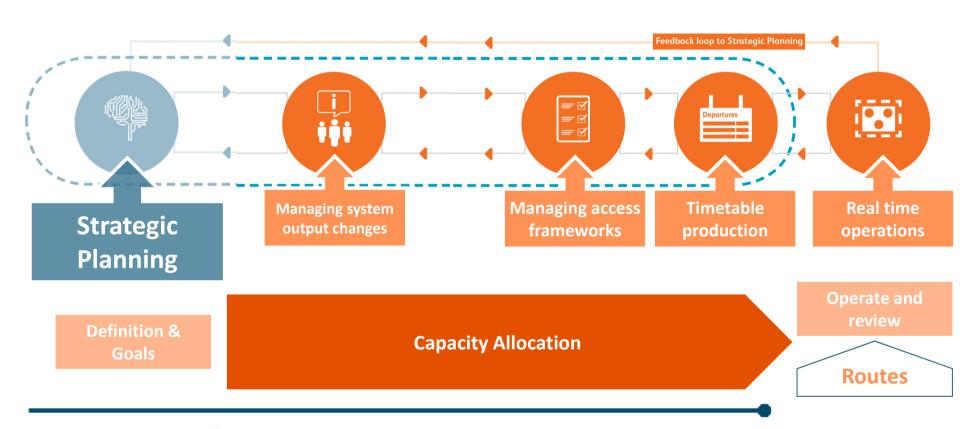
"Our challenge to our partners is to work with Government and the industry to develop compelling proposals for the next generation of rail schemes, identifying the places where rail is the right answer for local transport needs and finding the places where rail schemes fit best with housing strategies"

DfT, November 2017

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#### **Strategic planning**





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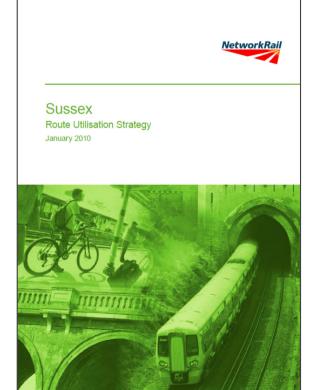
#### The context for change...

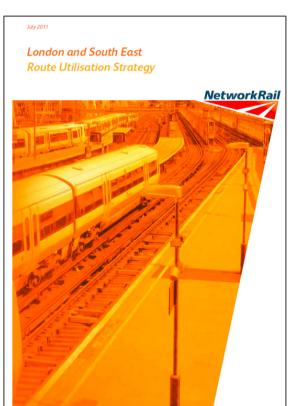


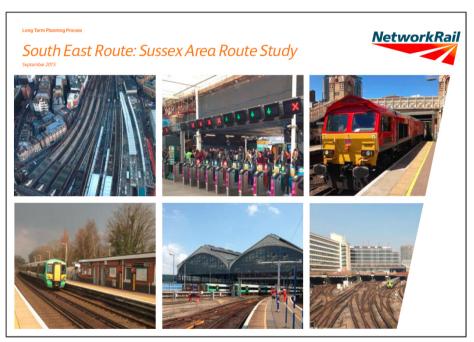
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## **Previously...**







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## Industry comments on Route Study process...

not sufficiently focused on the needs of **customers**, **passengers** and **freight users** 

various **customer and funder needs** 

do not focus sufficiently on incremental service changes

do not consistently identify significant customer intelligence

needs greater emphasis 'bottom-up' from route level

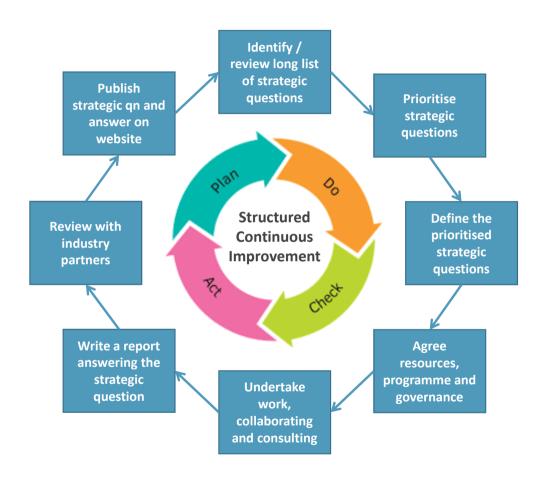
Publications can become unwieldy, outdated, and fail to fully inform industry decision-making

must become more
dynamic and its
products more easily
accessible

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## What is Continuous Modular Strategic Planning?









### The advantage of the CMSP

- We are only looking at the West Sussex area
- Brighton Main Line not the main focus
- Local issues can be investigated
- Joined up thinking
- You can have more influence
- Much shorter timescales
- Timing of refranchising
- Building on the relationships
- Looking beyond the tracks
- Local solutions

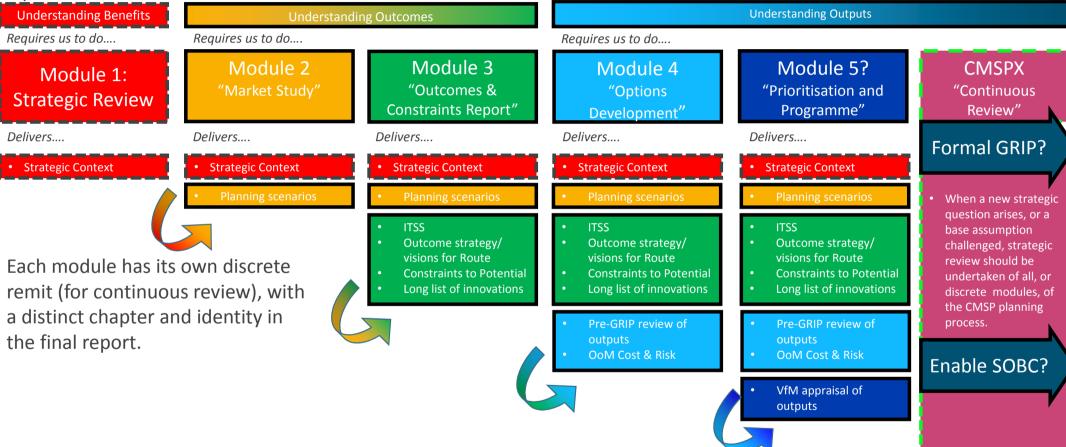
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### The challenges of the CMSP

- We are only looking at the West Sussex area
- Brighton Main Line not the main focus
- Much shorter timescales
- Looking beyond the tracks

Each study builds iteratively upon the modular products of the previous.



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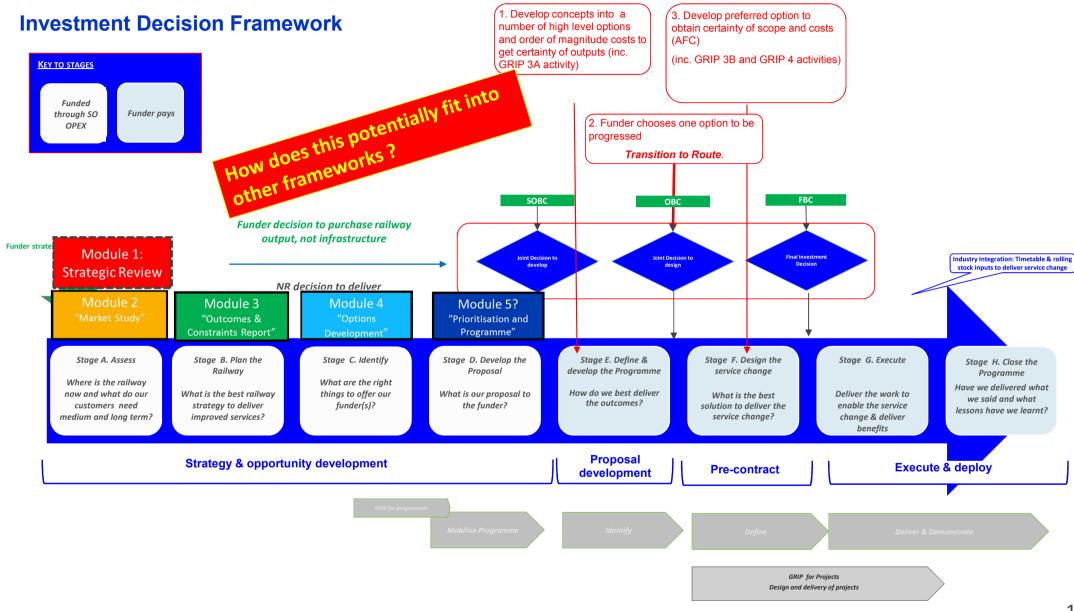
Planning a better network for you

CMSP X.0 is given to the period of

strategy is monitored in governance

'continuous review' whereby the

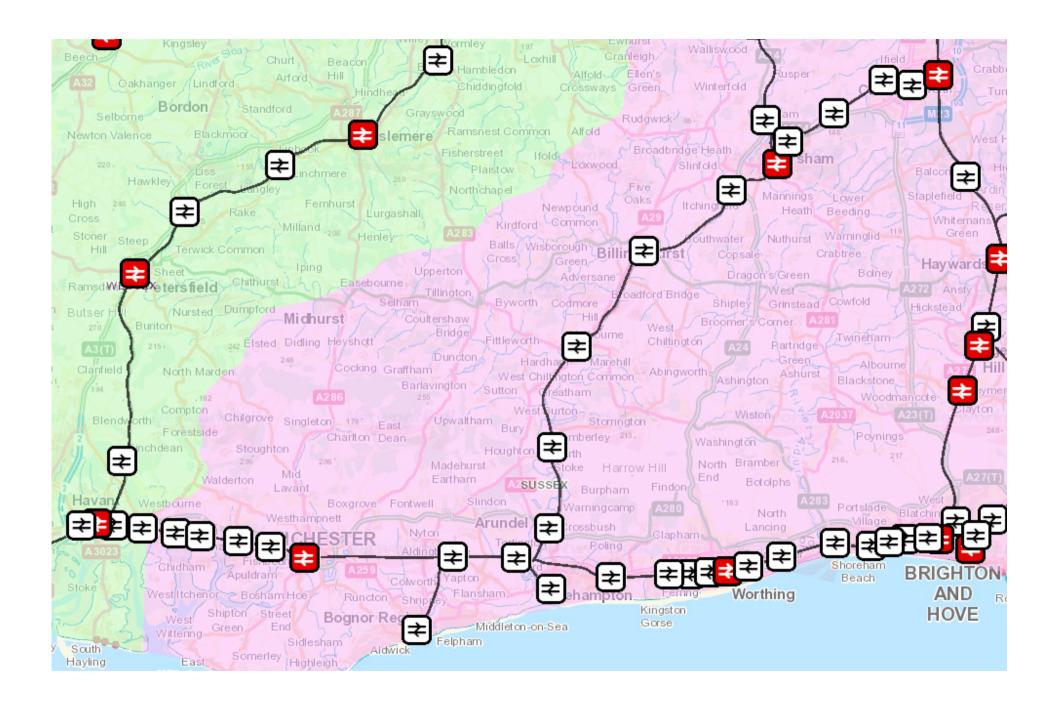
NetworkRail





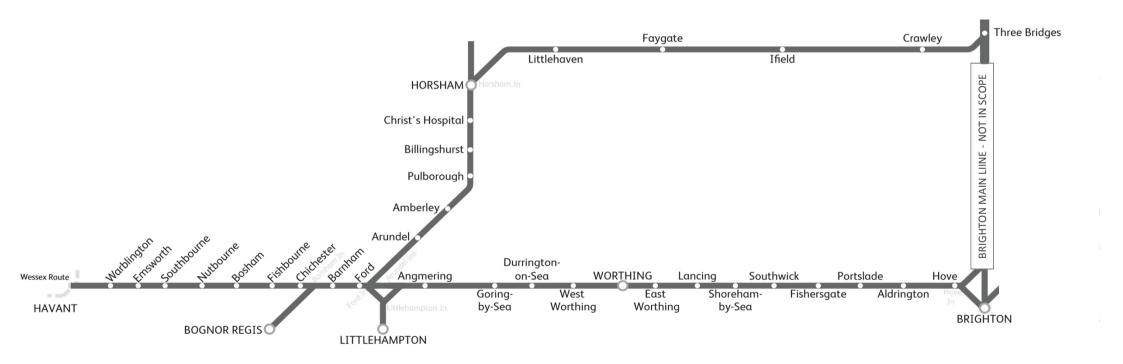
### **West Sussex Connectivity**

Paul Best, Senior Strategic Planner System Operator, Network Rail



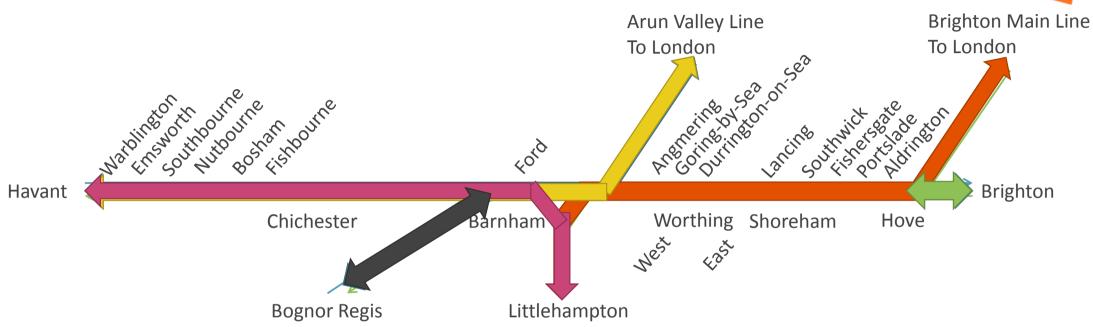
# **West Coastway CMSP**





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Each line represents a train train arriving at its destination in the The colour of the line refers to the GTR service group:

Southern

Gatwick Express

London Overground

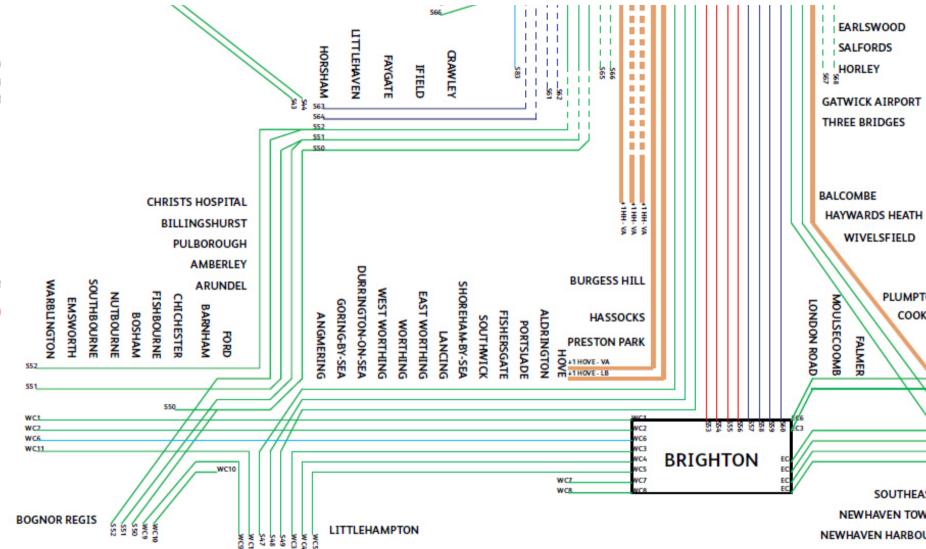
Thameslink

First Great Western

Additional BML services propos

Additional ELL services propose

(Based on DTT2011)



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#### 2043 vision

- During today we will look at the whole travel experience
- Local plans
- National plans
- Political challenges
  - Brexit
  - Priorities
  - Influence
  - Short termism vs long termism



#### **But first...**



#### The passenger experience

Kirsten Firth, Community Rail Development Manager Sussex Community Rail Partnership



## Passenger experience

Discussion

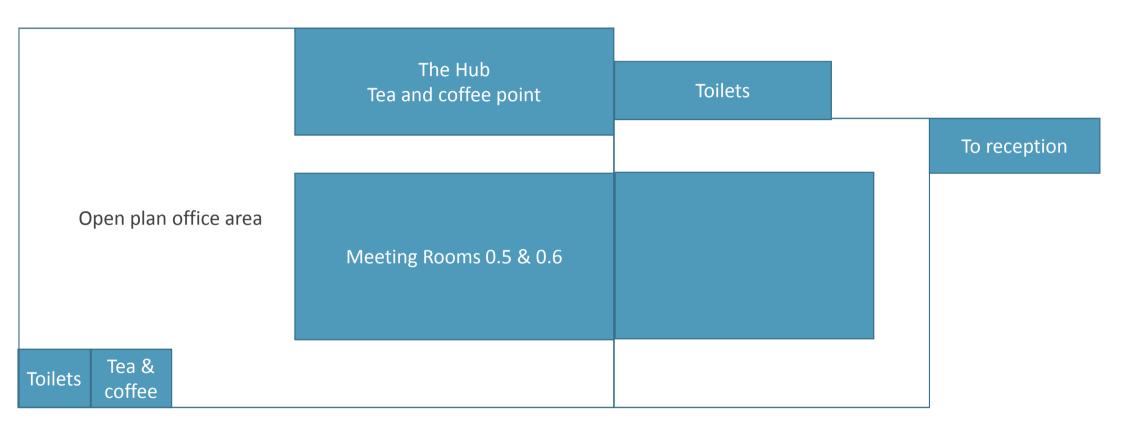


#### Where does rail fit in West Sussex?

Darryl Hemmings, Transport Planning & Policy Manager West Sussex County Council

#### **Coffee break**





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## **Timetabling West Sussex**

Phil Hutchinson, Head of Strategic Planning James Harris, Service Development Manager Govia Thameslink Railway



# Operating West Sussex from the ground up – track, signalling and level crossings

Paul Best, Senior Strategic Planner System Operator, Network Rail



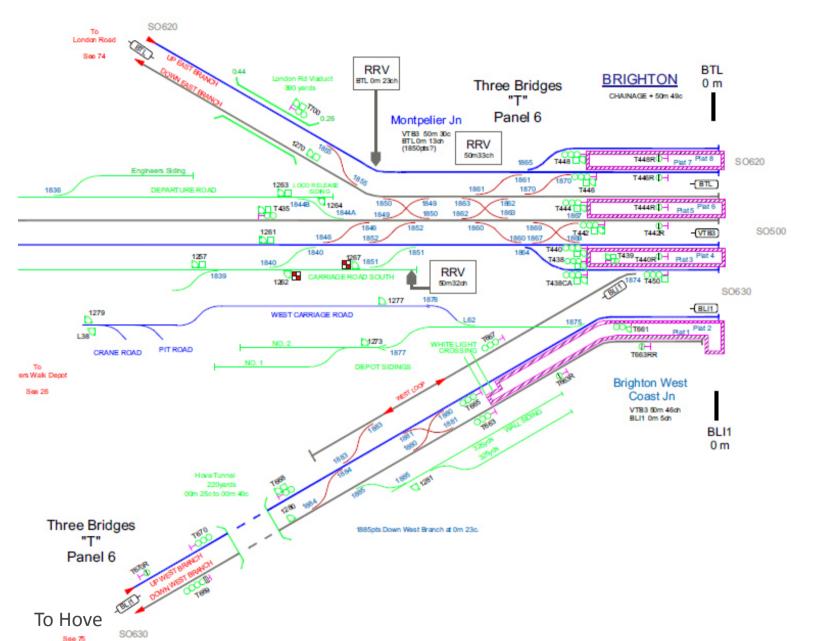
#### The basics

- Mostly two-tracks
- 750V dc third (conductor) rail electrified throughout
- Passing loops at Worthing and Barnham
- Flat junctions
- Lots of stations close together
- Differing services and markets



## **Brighton to Littlehampton**

West Coastway (East)





Only Platforms 1 and 2 are dedicated to West Coastway services

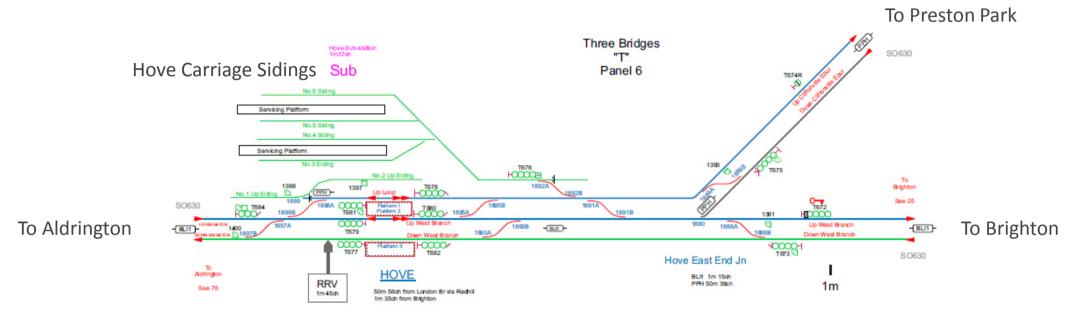
Platform 3 is accessible to West Coastway services but only up to 4-cars (20m vehicles)

Only Platform 2 can accommodate 12-car trains

A lot of interchange between the West Coastway services and Brighton Main Line/East Coastway services

65,460 passengers per day

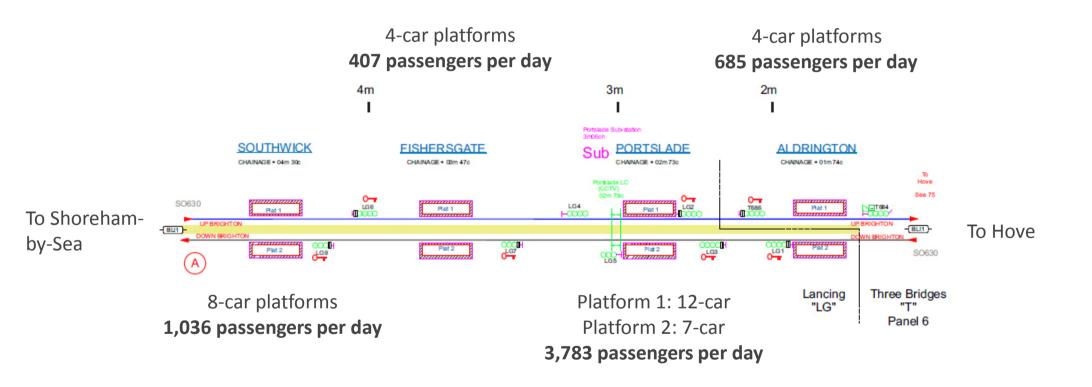




All platforms 12-car capacity **9,428 passengers per day** 

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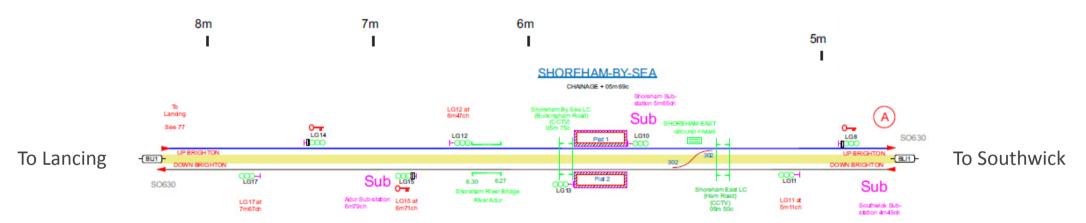




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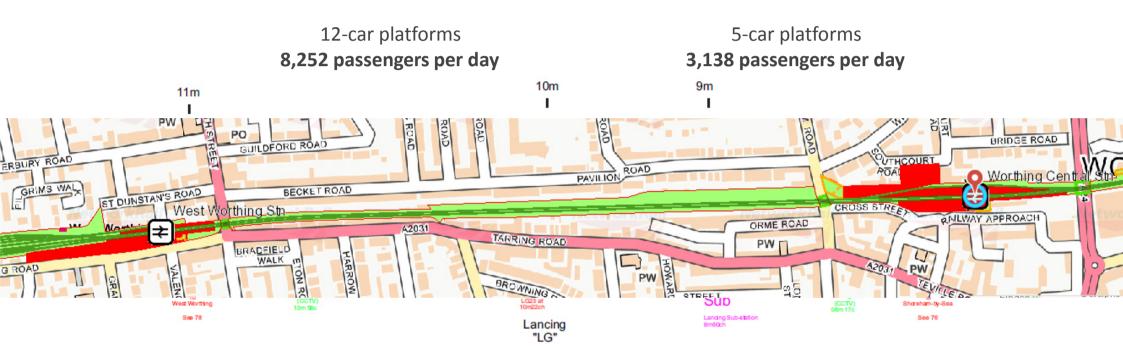


# 12-car platforms 4,365 passengers per day



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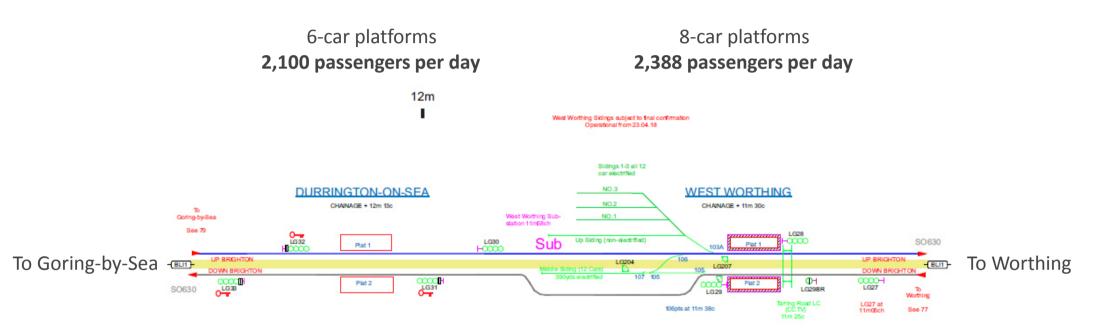


4-car platforms

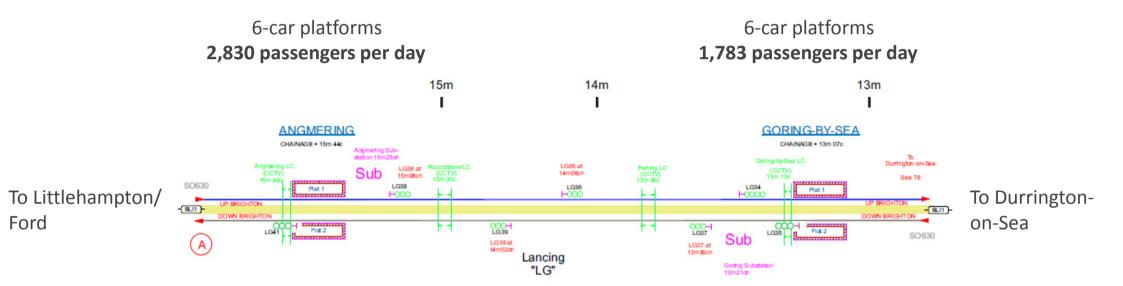
1,277 passengers per day

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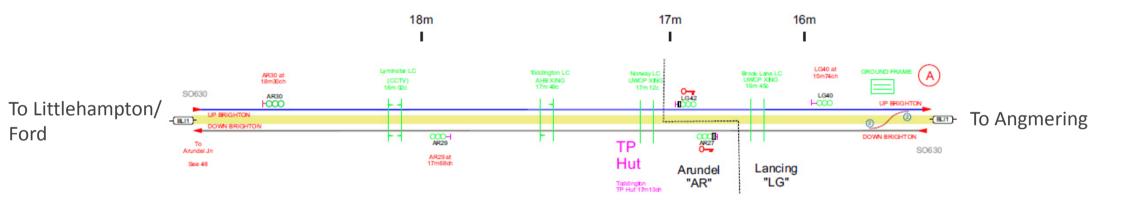


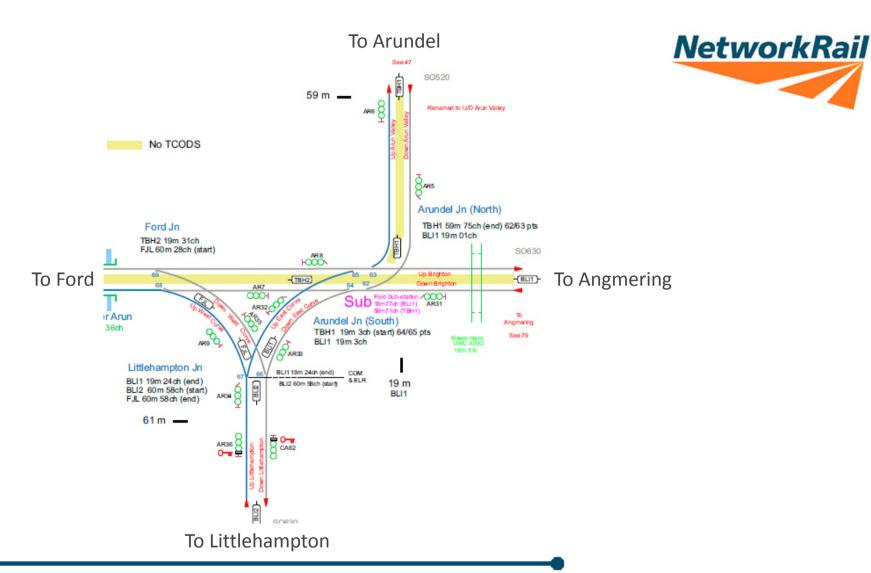






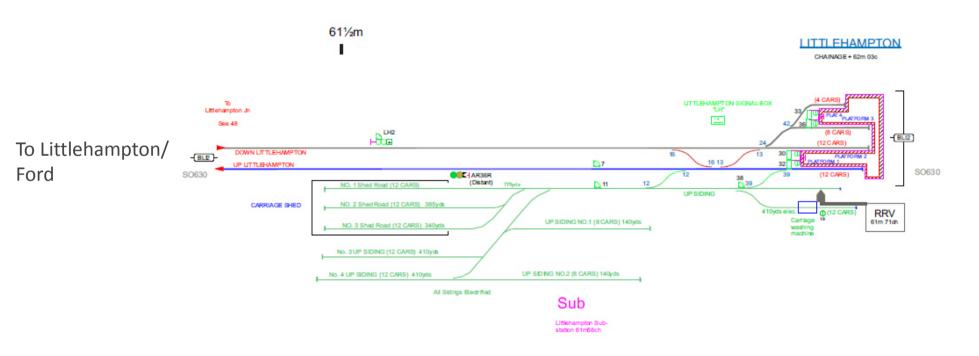








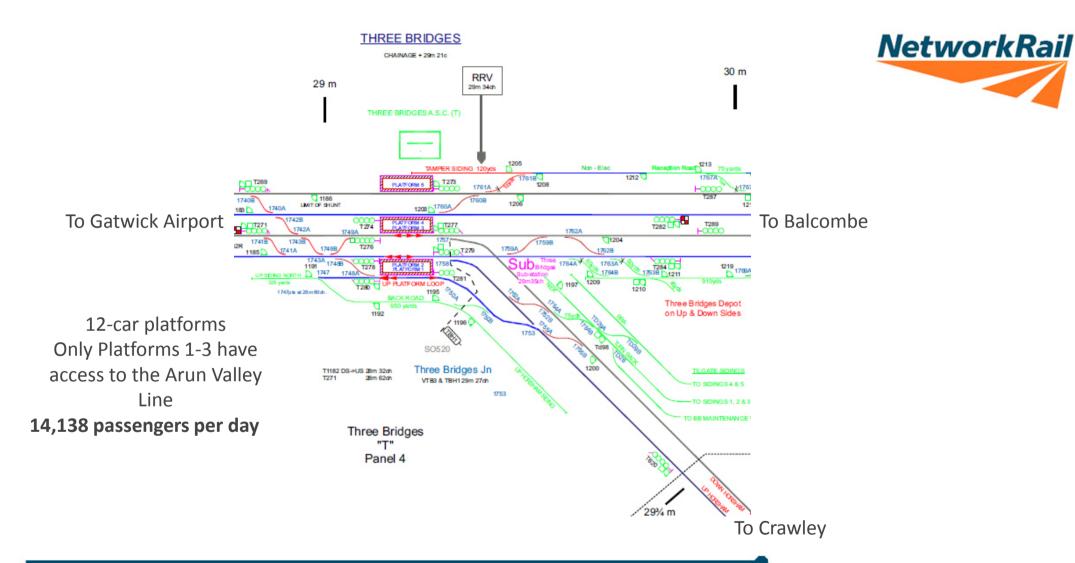






#### **Three Bridges to Bognor Regis**

**Arun Valley Line** 



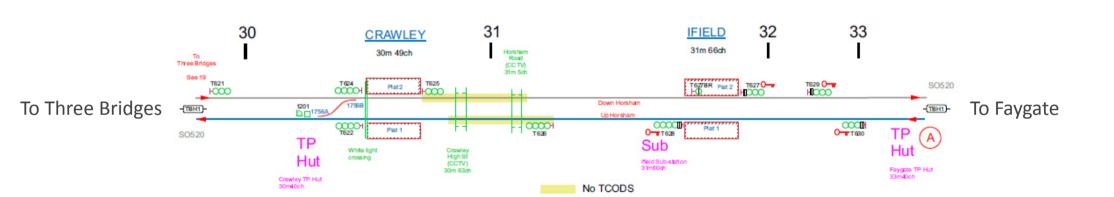




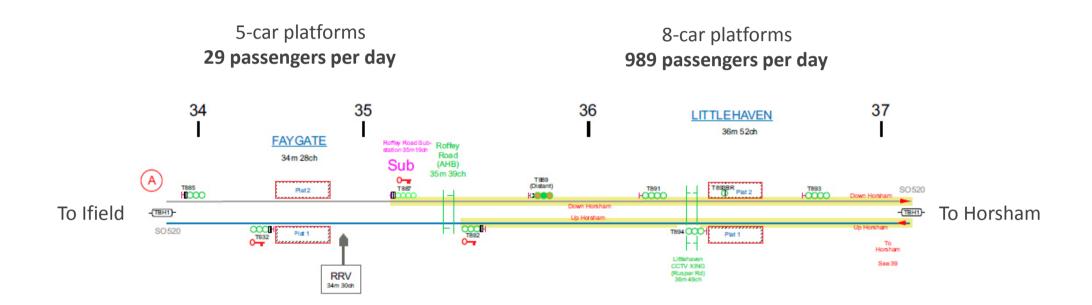
12-car platforms **6,078 passengers per day** 

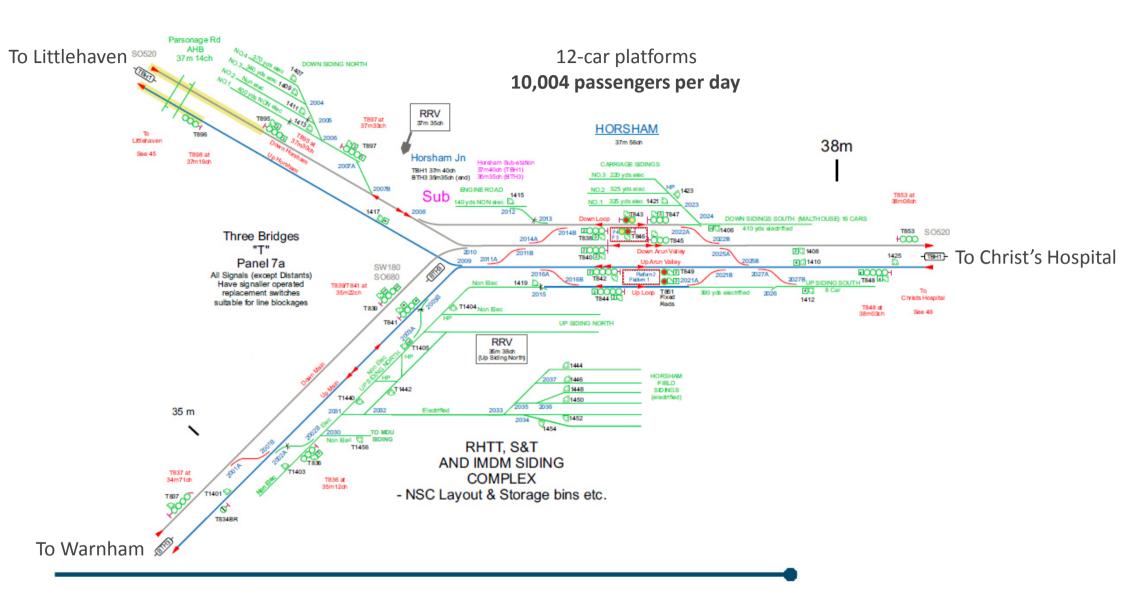
5-car platforms

1,095 passengers per day



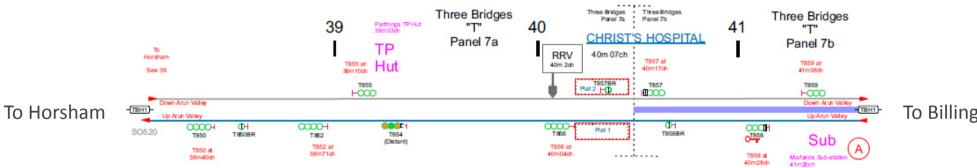








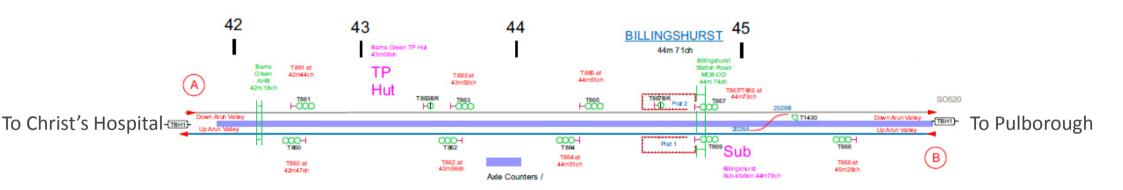
#### 7-car platforms 584 passengers per day



To Billingshurst



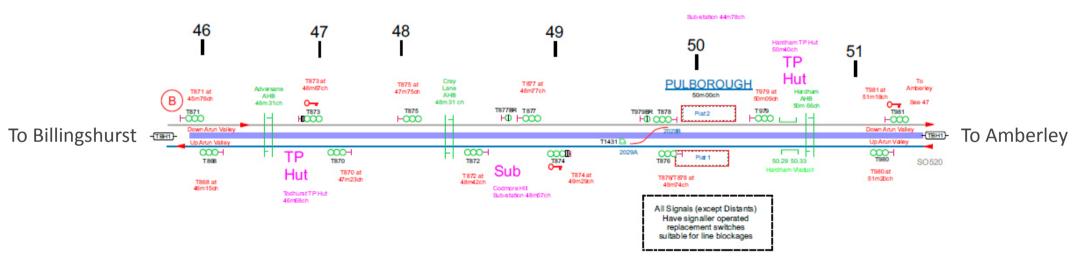
## 8-car platforms 1,621 passengers per day



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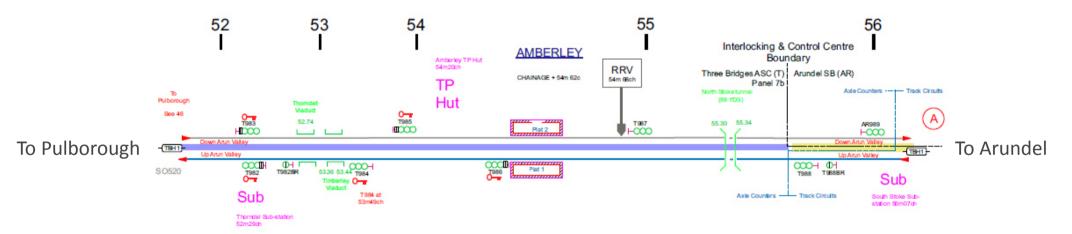
Platform 1: 10-car Platform 2: 9-car 1,299 passengers per day



System Operator



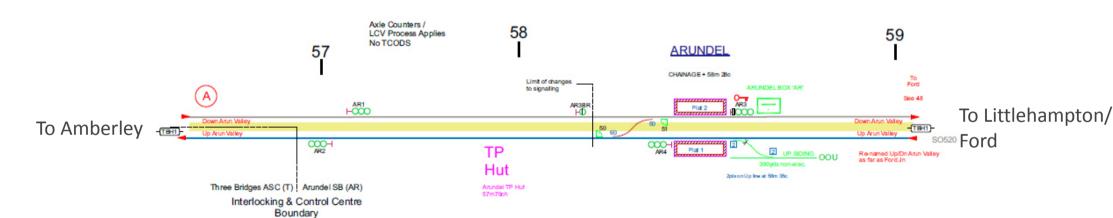
## 4-car platforms 190 passengers per day



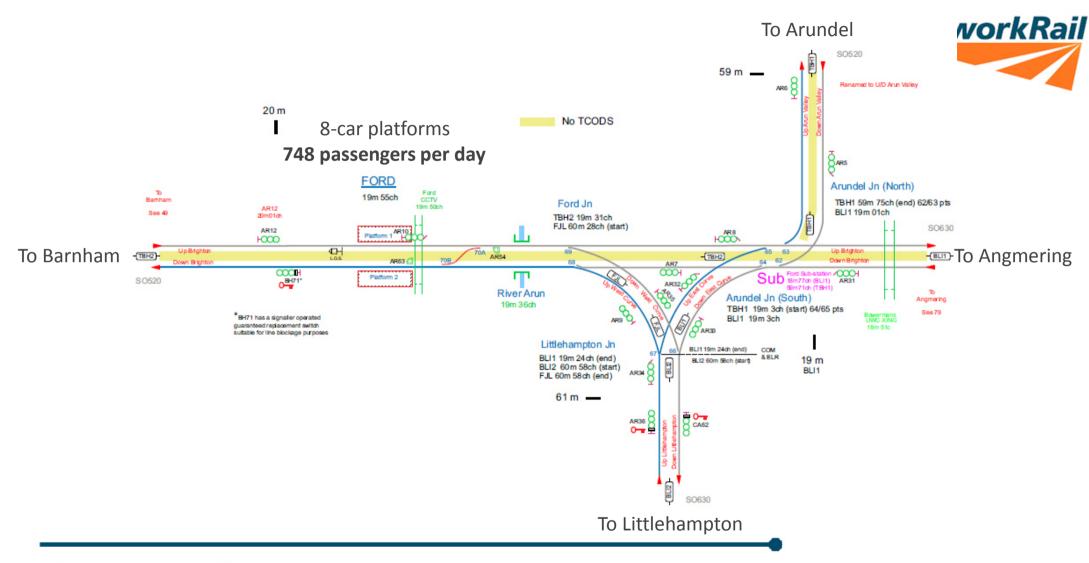
System Operator



## 12-car platforms 1,070 passengers per day

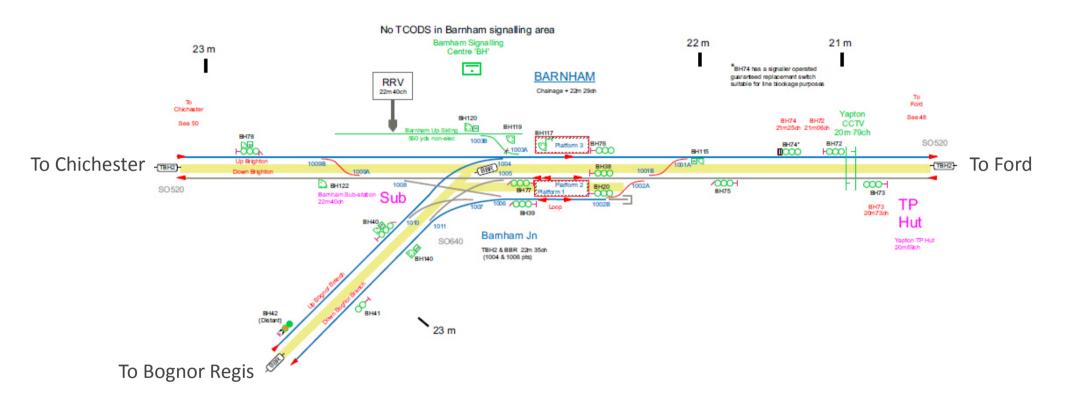


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# NetworkRail

# 12-car platforms 6,073 passengers per day



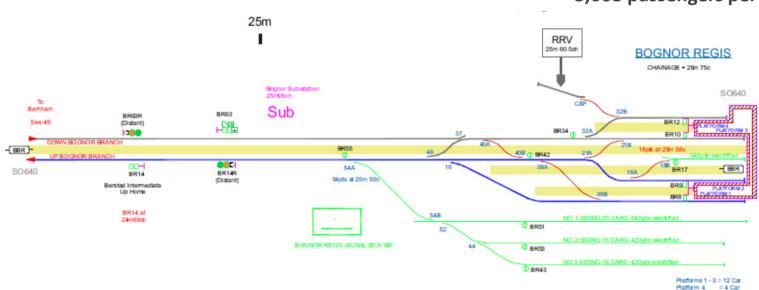
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Platforms 1-3: 12-car Platform 4: 4-car

3,668 passengers per day

Signals 8 - 10 & 12 electrically lit



To Barnham

System Operator

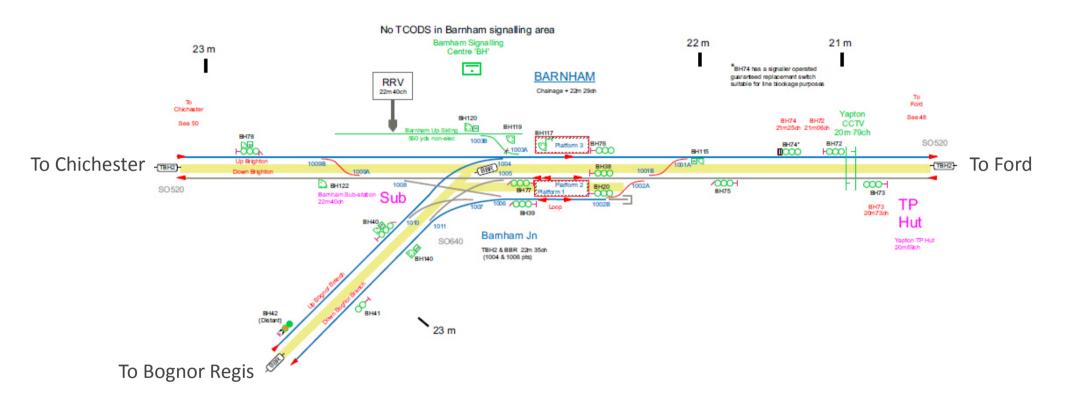


#### **Barnham to Havant**

West Coastway (West)

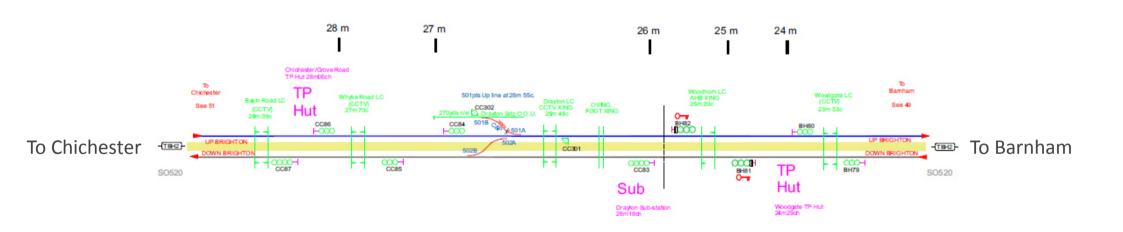
# NetworkRail

# 12-car platforms 6,073 passengers per day

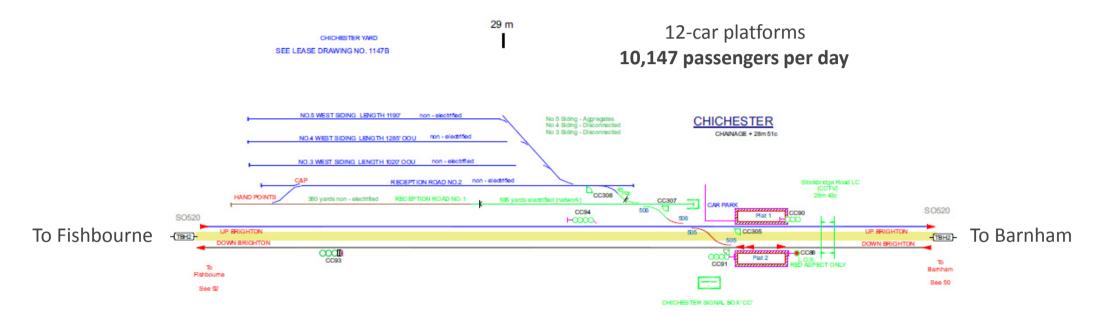


System Operator



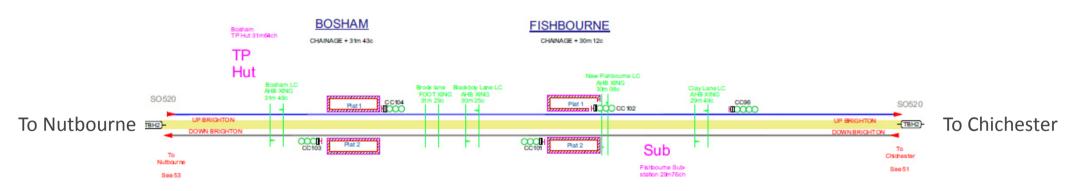




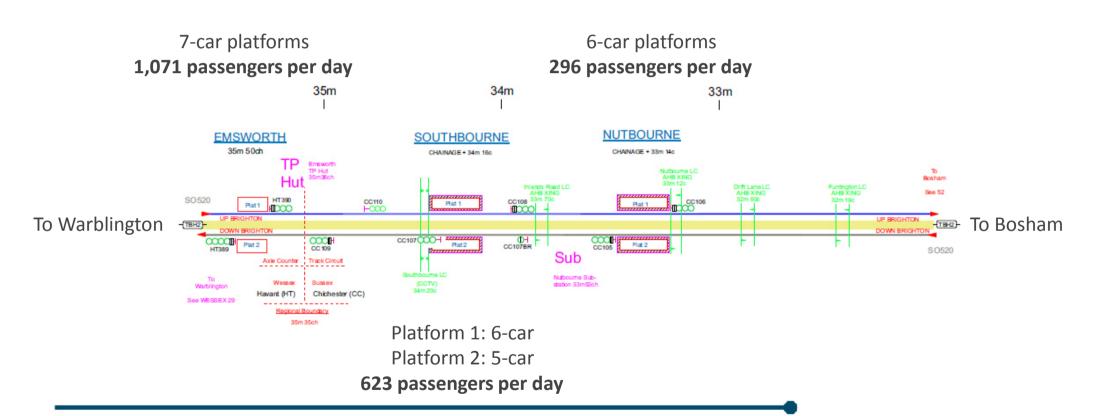








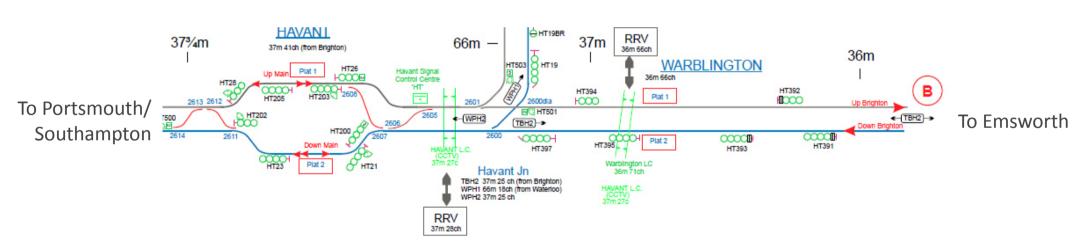








### 6-car platforms 94 passengers per day



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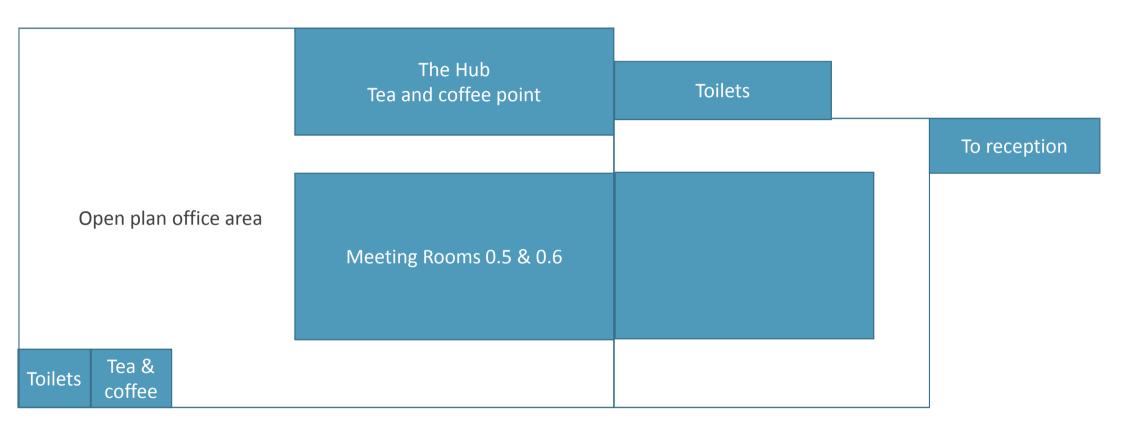


#### **Highways in West Sussex**

Peter Phillips, Route Sponsor - South Coast Central Highways England

#### Lunch





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#### How do we plan for housing growth?

James Hodgson, Senior Economic Analyst System Operator, Network Rail



#### Workshop 1: The impact of housing growth



#### What's happening across the border?

Paula Haustead, Lead Strategic Planner (Wessex) System Operator, Network Rail



#### Workshop 2: What's planned nearby?



#### More stations, faster trains

Paul Best, Senior Strategic Planner System Operator, Network Rail



# Workshop 3: What would you like from rail in West Sussex?



#### Working with Network Rail to fund schemes

John Gill, Director, Route Business Development Thomas Freeman, Project Manager, Route Business Development South East Route, Network Rail



# Workshop 4: Who pays for what? Identifying funding streams



#### Any other issues?



#### **Next steps**

- Data collation
- Long list
- Short list
- 4-weekly Working Group
- Economic analysis
- Timetable modelling
- Update meeting in the summer



#### Wrap up

Alex Hellier, Lead Strategic Planner System Operator, Network Rail



# Thank you!