OFFICE OF RAIL AND ROAD

ORR System Operation workshop

Initial discussion on concepts, issues and opportunities

Friday 2 October 2015

Introduction to workshop

Joanna Whittington

Introduction to today's workshop

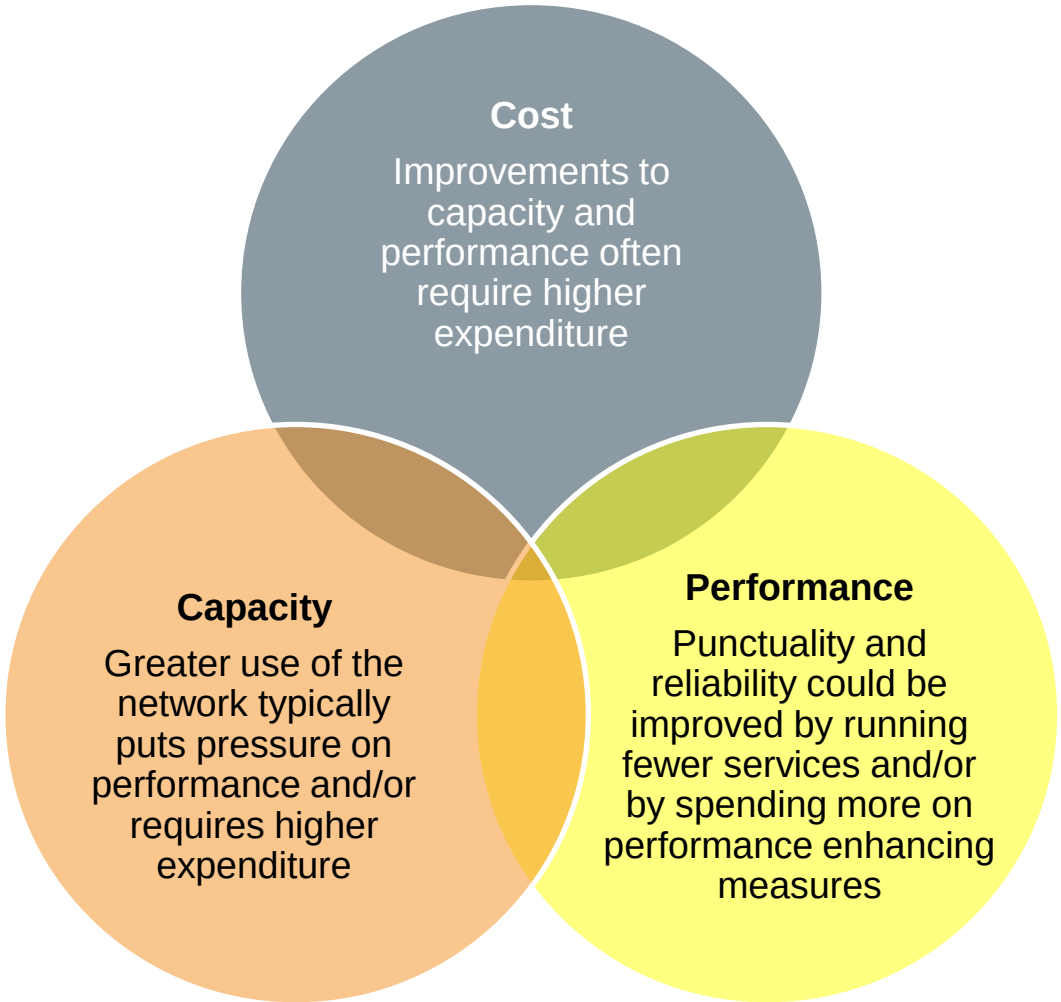
Time	Agenda item	Speaker
10.00 – 10.30	Registration Tea / coffee	All
10.30-10.40 (10 minutes)	Introduction	Joanna Whittington, ORR
System operation functions and activities		
10.40-11.00 (20 minutes)	ORR discussion on system operation	Chris Hemsley, ORR
11.00-11.45 (45 minutes)	Cross industry perspective about what system operation is and what the challenges and opportunities are	• Lindsay Durham, Freightliner • Maggie Simpson, Rail Freight Group • Graeme Hampshire, Stagecoach Rail • Garry White, Network Rail
11.45-12.30 (45 minutes)	Break-out discussion	All (in room 2, 5, 6,7, 8, and 9)
12.30-13.10 (40 minutes)	Lunch	All
13.10-13.20 (10 minutes)	Summary of break-out discussion	Alex Bobocica and Siobhán Carty, ORR
System operation dashboard		
13.20-13.25 (5 minutes)	ORR introduction to a system operation dashboard	Chris Hemsley, ORR
13.25-13.45 (20 minutes)	Network Rail discussion on version 1 of the dashboard and possible other metrics to be included	Peter Northfield and Matthew Lutz, Network Rail
13.45-14.15 (30 minutes)	Break-out discussion Mixed tables of industry stakeholders, tasked with answering set questions	All
14.15-14.40 (25 minutes)	Feedback discussion	Group representatives
Conclusions		
14.40-15.00	Wrap-up etc	Joanna Whittington, ORR

- Welcome
- House-keeping
- Purpose of today's workshop
- Agenda for the workshop

Introduction to system operation

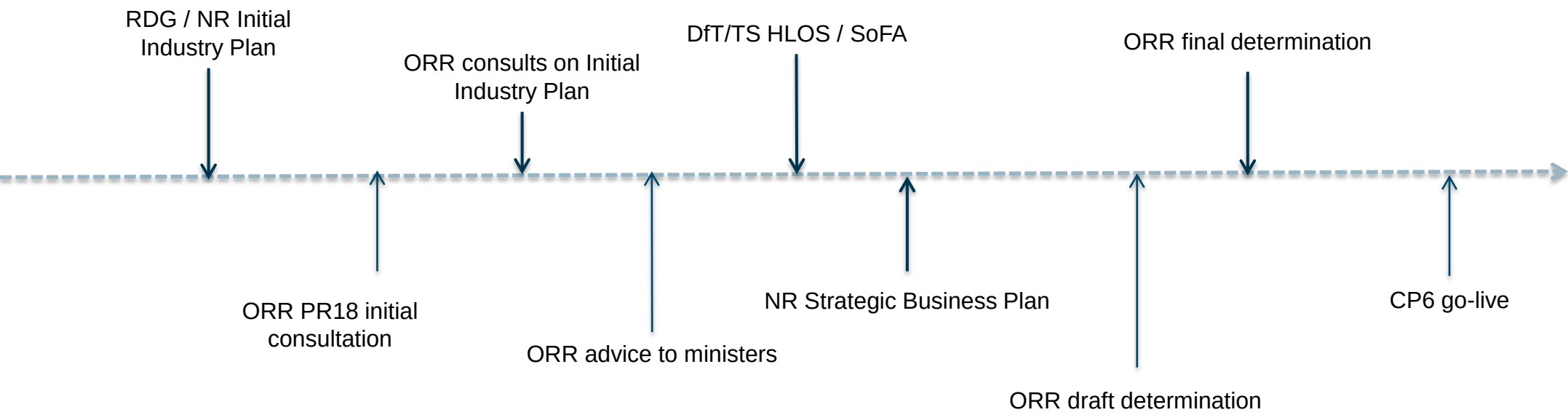
- System operation is about how Network Rail and other infrastructure managers operate the rail network and how decisions by both Network Rail and others are made about the use of this network and its expansion over time.
  - It relates to activities such as managing performance on a daily basis; timetabling; and longer-term network planning.
  - It is broader than just those activities undertaken by Network Rail.

- Fair treatment, efficient network coordination and transparency are important principles for users and funders of the network.



Context (1)

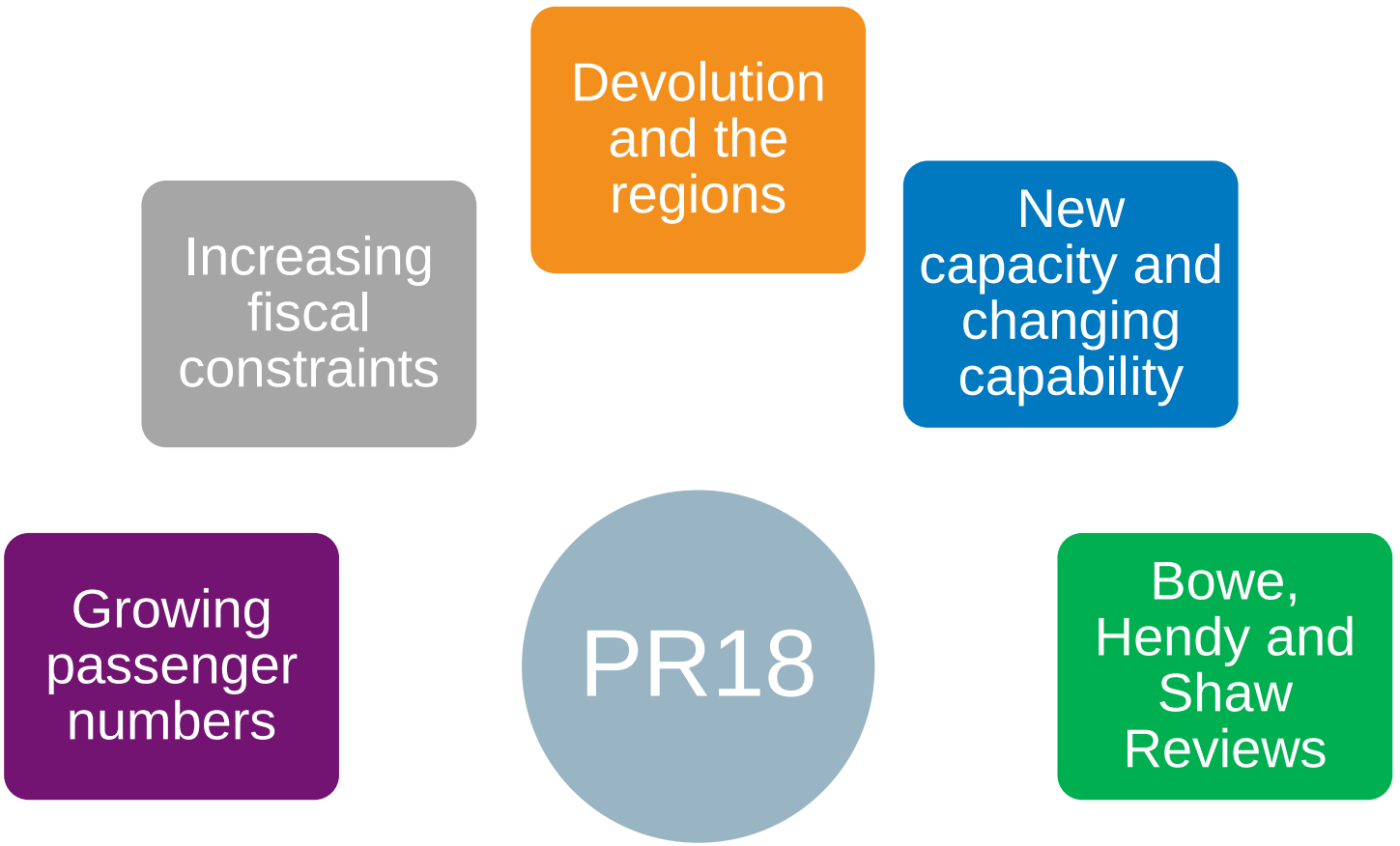
- There appears to be scope for further improvement in how system operation is undertaken (e.g. in promoting better use of capacity, ensuring operational solutions are considered alongside capital projects and in raising performance standards). This was noted in our Final determination for PR13.



- We now want to test this more fully, to understand the scope to improve system operation and how it could be delivered for PR18.
- We are considering this as part of some early preparation for PR18, alongside other elements of the regulatory framework.

Context (2)

- Wider changes also mean that system operation functions – in getting the best out of the network – is important.



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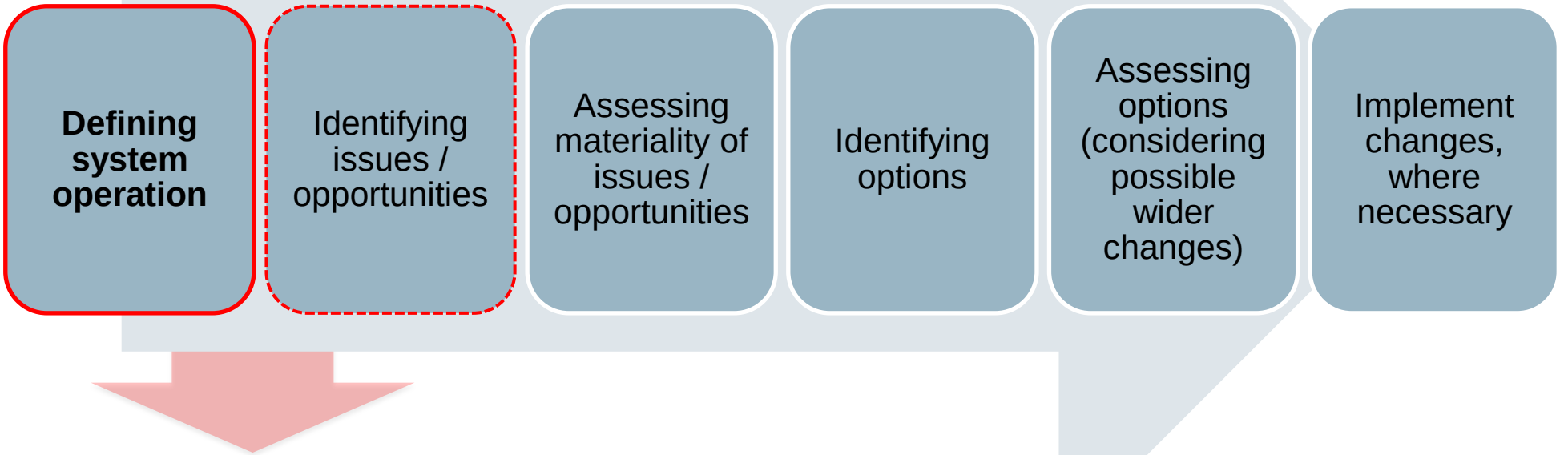
System operation functions and activities

ORR's initial views

Chris Hemsley

Approach to the System Operation work



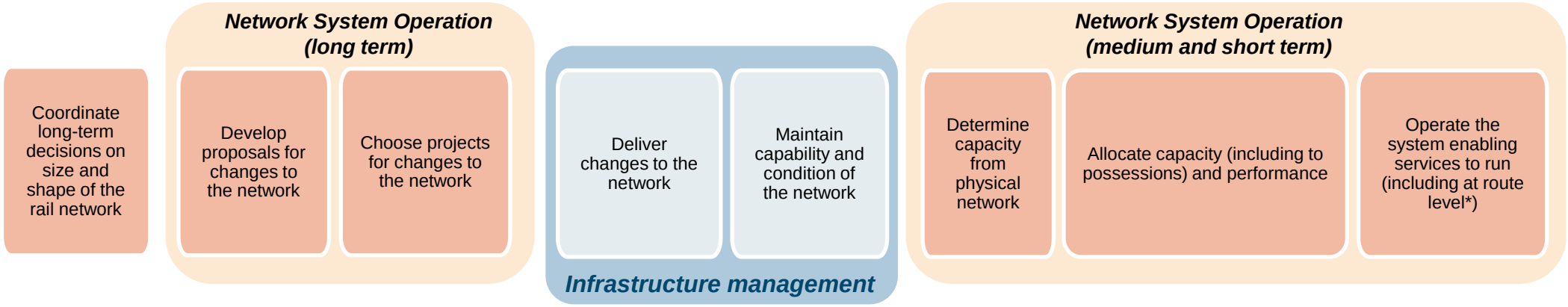
- To ensure there is consistent understanding of what we mean by system operation, the August consultation document sets out our initial view on what we mean by system operation (including the functions and activities). We want stakeholders' views on this understanding to ensure there is a broadly consistent view.
- We are also beginning to think about the issues and opportunities with the way system operation is undertaken. We also want stakeholders' views on this.

What is system operation in rail?

- The railway network brings together a number of functions delivered by different organisations (e.g. provision and operation of physical infrastructure, provision of rolling stock and running of train services) to deliver rail services for passengers and freight users.
- System operation is the set of functions that can ensure efficient delivery of the network and helps realise the benefits of its use, including to the wider economy and society.
- This is distinct, for example, from responsibility for delivering investment projects or of maintenance of assets. Reflecting this, system operation typically relates to functions where coordination and/or the fair treatment of customers are particularly important.
- A number of organisations perform functions that we see as being part of system operation.

Functions and activities within the scope of system operation (1)

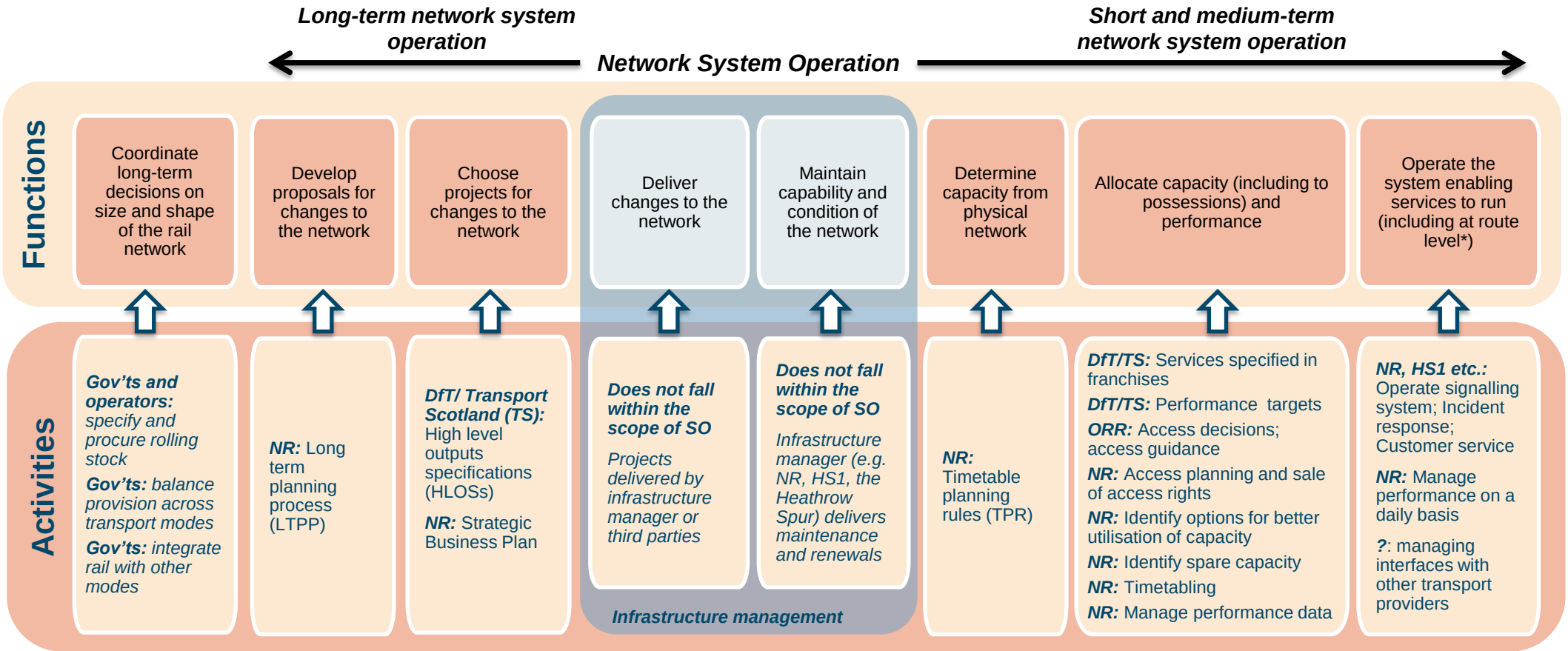
- When describing system operation in rail, we can do this with reference to the long term, the medium term and the short term:
  - in the long term it is about identifying future requirements and planning for related network expansion and enhancement;
  - in the medium term it is about capacity identification and allocation (e.g. timetabling and franchise specification); and
  - in the short term it includes day to day operation of the network, for example through the signalling activity delivered by Network Rail and managing the impact of disruptions to the network.



* This includes activities such as investigating incidents, operating the timetable and/or signalling which are currently delivered at the route level, but which fall under system operation functions.

Functions and activities within the scope of system operation (2)

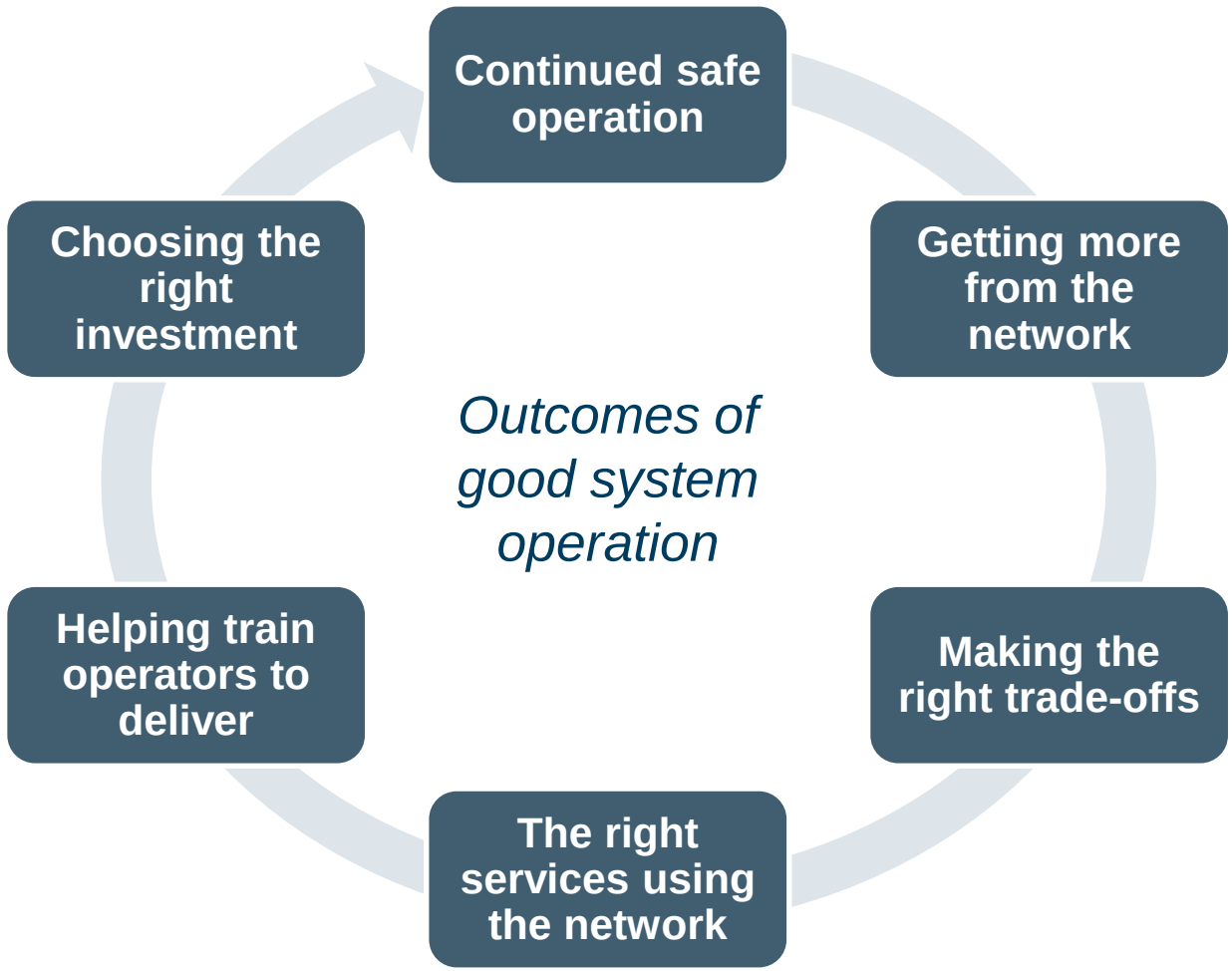
- This diagram expands on the previous one by outlining the various activities that currently deliver the key system operation functions



* This includes activities such as investigating incidents, operating the timetable and/or signalling which are currently delivered at the route level, but which fall under system operation functions.

Delivering good system operation

- In our consultation we argued that good system operation could ensure a number of important outcomes are secured from the rail system



System operation

Coordinate long-term decisions on size and shape of the rail network

Network System Operation (long term)

- Develop proposals for changes to the network
- Choose projects for changes to the network

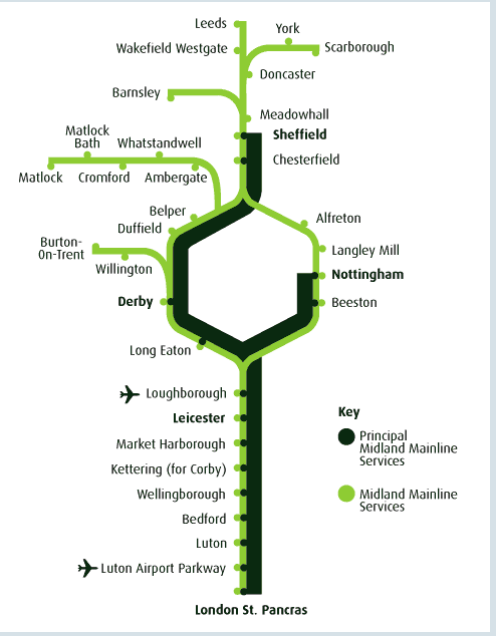
- Deliver changes to the network
- Maintain capability and condition of the network

Infrastructure management

Network System Operation (medium and short term)

- Determine capacity from physical network
- Allocate capacity (including to possessions) and performance
- Operate the system enabling services to run (including at route level*)

Market studies and Route Studies



Congestion declaration on Midland Mainline

System operation

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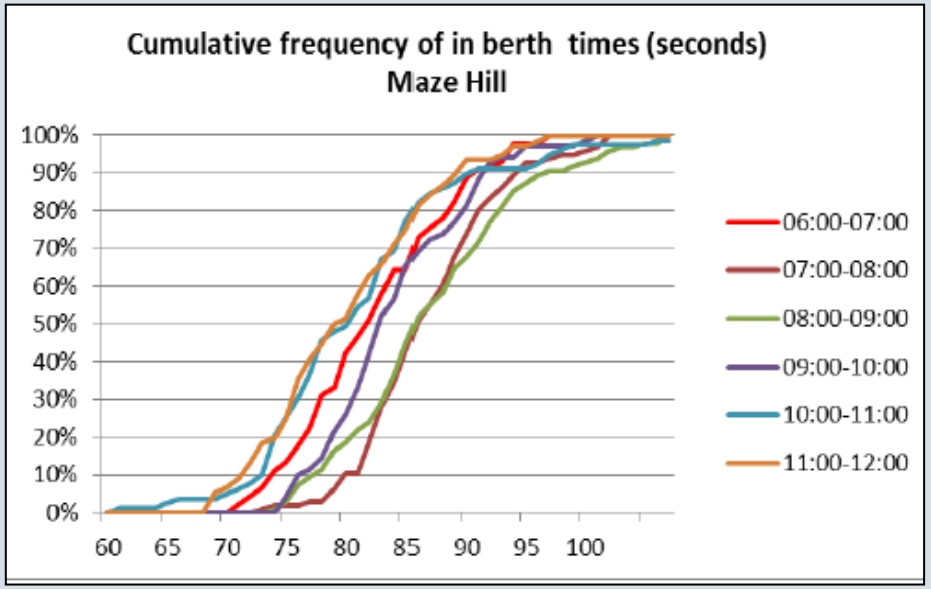
Timetable Planning Rules (TPR)



Dwell time assumptions in timetable

System operation

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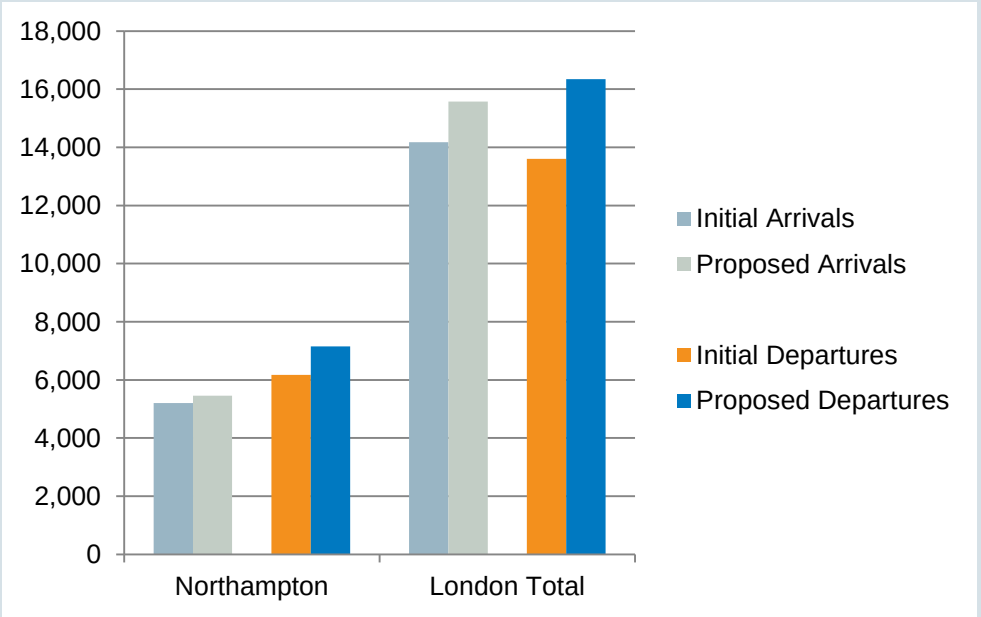
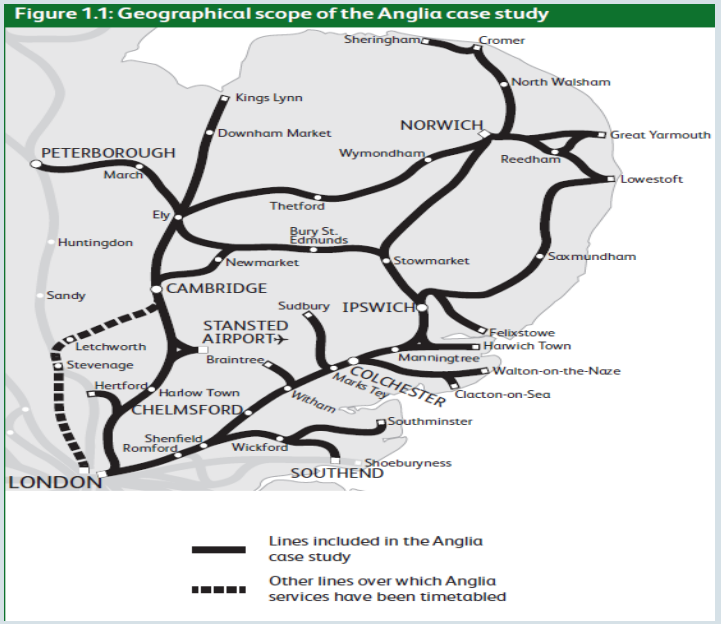


London Midland 110 project



Improving connectivity study

System operation

Coordinate long-term decisions on size and shape of the rail network

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- Develop proposals for changes to the network
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Infrastructure management

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Network System Operation (medium and short term)

- Determine capacity from physical network
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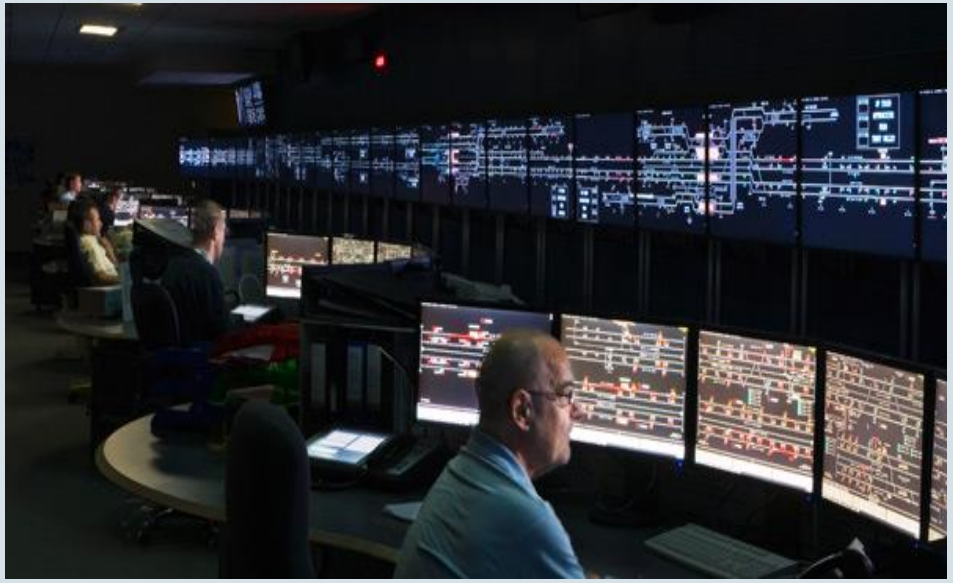

Signalling

Stakeholders' views

11.00 – 11.45

Questions for discussion (11.45-12.30)

1. What do you consider is missing, or needs to be removed, to our definition of system operation?

2. What issues and/or opportunities have you faced in the way the system is currently operated?

3. How do these relate to the different functions we have characterised?

Group	Location	ORR facilitator
Group A	Room 2	Siobhán Carty
Group B	Room 2	Alexandra Bobocica
Group C	Room 9	Joanna Wittington
Group D	Room 5	Chris Hemsley
Group E	Room 6	Lynn Smith
Group F	Room 7	Oscar Plummer
Group G	Room 8	Deren Olgun

System operation dashboard

ORR introduction

Chris Hemsley

The role of a System Operation dashboard

- The system operation dashboard is intended to provide transparency and assurance to access beneficiaries and to funders, help to promote fairness and facilitate more informed decision making.

- It should not relate only to Network Rail's functions.

- Should we want any additional system operation measures reported against for CP6, early work is required to ensure sufficient and timely data.

Measuring network system operation

Consultation workshop 2 October 2015

Peter Northfield

A network system operation dashboard

- An information tool in development
  - Purpose?
  - Audience?
  - Types of information

Purpose?

- Supporting good system operation

Purpose?

- Supporting good system operation
  - What is good?

Purpose?

- Supporting good system operation
  - What is good?
  - What is the purpose of the system?

Purpose?

- Supporting good system operation
  - What is good?
  - What is the purpose of the system?
  - How can the dashboard support this?
    - transparency
    - accountability

Audience?

- Transparency – availability of useful information to inform decisions made by system participants
  - Who? Funders / investors; train operators; terminal operators; supply chain; end users?
- Accountability – delivery of system operation activities
  - Who? Regulators; funders; end users; media; public?

Types of information?

- Outputs of the railway system
- Processes that support delivery of the outputs
- Transformation programmes to improve processes
  - Intermediate measures within the system – separate category?

- Top level data – usefulness?
  - Masks local variations

- Disaggregated data – constraints
  - e.g. train services v. infrastructure geography

- Time series – fit for the future?

Breakout discussion

7 groups, each to discuss:

- Purpose
- Audience
- Types of information

Highlight and briefly report back on top two observations from your group

Nominate contacts for follow up discussions

Group	Location	Facilitator
Group A	Room 2	Peter Northfield (NR)
Group B	Room 2	Rachel Gilliland (NR)
Group C	**Room 2 (change from morning session)**	Joanna Whittington (ORR)
Group D	Room 5	Matthew Lutz (NR)
Group E	Room 6	Scott Meadows (NR)
Group F	Room 7	Oscar Plummer (ORR)
Group G	Room 8	Garry White (NR)

Next steps

- Feedback
- Follow up with nominees from each group (starting next week)
- Set up cross-industry working groups where relevant

Wrap-up

- Concluding remarks
- Next steps
- If you would like to discuss system operation with ORR, please get in touch (ORRSystemOperation@orr.gsi.gov.uk).
- If you would like to discuss the system operation dashboard with Network Rail, please get in touch (nso.consultation@networkrail.co.uk).