



February 2016



# Welcome

### John Larkinson

Director, Railway Markets & Economics

### How we'll structure this morning

#### **PART 1 – The opportunity**

- 9.40 ORR: setting the scene
- **10.00** Transport Scotland: Charges, Incentives and Devolution: Supporting the Scottish Government's Vision for Rail
- **10.40** John G Russell Ltd: A retail perspective on ORR's review of Charges

#### 11:00 Refreshments and break

- PART 2 Consultation proposals and next steps
- **11.15 CRR**: Proposals
- **11.20 CRR**: The infrastructure costs package and the value-based capacity package
- **11.50** Round table discussion 1
- 12:20 Refreshments and break
- **12:50 □** Next steps
- **13:00** Round table discussion 2





## PART 1: Setting the scene

### **Chris Hemsley**

Deputy Director,

Competition & Markets

### Why charges matter

Working with the industry to review the structure of charges paid by train operators to Network Rail for using the network was a key PR13 commitment

### The structure of charges:

- affects the costs faced by franchise, freight and open-access train operators;
- has the potential to affect how train companies and Network Rail interact;
- affects the prospects for, and impacts of, open-access entry; and
- is one tool available to better align the incentives faced by all parties in the rail sector.



### Why review the charging structure?

- The current structure was designed when the rail industry was expecting declining demand, and emphasises charges to recover short-run variable costs.
- This context has now changed to one with sustained growth in demand for freight and passenger services and significant congestion on certain parts of the network.
- There are other limitations of the current charging structure:
  - cost-reflective variable charges only account for a small proportion or Network Rail's income (16%);
  - a further 7% of Network Rail's income comes from the fixed track access charge (FTAC), which is not linked meaningfully to costs;
  - more than 60% of Network Rail's income is forecast to come directly from a government subsidy (Network Grant) in CP5 which is not linked to costs and provides no incentives to Network Rail or operators;
  - Franchised train operators only have limited exposure to the current charges.



#### **Network Rail's income for CP5**



### What our review could help with

#### **Reduce network costs**



Supports whole industry efforts to reduce network costs

#### Improve wider decision making



Supports informed decisions e.g. around enhancements, franchising and subsidy

#### Improve network use



Improves operator and funder incentives to use the network efficiently

#### Support competition



Creates a more level playing field for different types of passenger train operators

#### Improve network provision



Supports Network Rail handling of cost, capacity and performance trade-offs

#### Facilitates understanding and response



Supports a stable business environment, reduces complexity and improves transparency



### Possible 'size of the prize'

- We commissioned consultants Steer Davies Gleave (SDG) to estimate the benefits of an improved understanding of Network Rail's costs.
- SDG's case study evidence suggests that rail decisions could be improved through a better understanding of costs (whether or not such improved information is transmitted through charges).



Even a small (1%) additional cost saving would be significant, e.g. per control period 1% opex = £134m, 1% renewals = £121m.



### Wider context

#### Legislation

Our decision will reflect our statutory duties, and also needs to comply with a number of European legislative requirements

#### Rail Delivery Group RDG's own review of charges provides useful material for our work, and we will also reflect the analysis RDG produced on Schedule 4 and 8

#### **Money Flows**

The UK Government announced its intention to channel more of the existing funding through train operators in England and Wales for CP6, reducing the network grant (the position in Scotland is a matter for Scottish Ministers).

Shaw report

This final report may lead to recommendations that affect the merits of different charging approaches Our review needs to be grounded in the rail context, join up with other changes and be practical

#### Network Rail cost attribution Network Rail has commissioned a consultant to look at ways of identifying drivers of fixed costs and to conduct a pilot study on one of its routes

#### FISG

FISG was set up by its members, including the UK Government, to secure the economic benefits generated by rail freight

СМА

CMA is considering the scope for increasing competition in passenger rail services





### Charges, Incentives and Devolution: Supporting the Scottish Government's Vision for Rail

Steven McMahon, Head of Rail Strategy & Funding ORR Workshop, 5 February 2016

### Content

TRANSPORT

- Policy context
- Role of charges
- Considerations for PR18



### **Policy context**

### **Vision for Rail**



Passenger services:

"A railway that supports this Government's aim for sustainable economic growth, by providing services that are affordable and accessible to all; offering fast, frequent and environmentally sustainable connections between our cities and our communities; and creating seamless links to other modes of transport, to allow passengers to complete their journeys with ease."

#### Rail Freight:

"A competitive, sustainable rail freight sector playing an increasing role in Scotland's economic growth by providing a safer, greener, and more efficient way of transporting goods and materials."









### **Our priorities for rail**



- Securing better value for money from investment.
- Achieving high and stable levels of performance and reliability.
- Exploiting fully the utility and capacity of the network.
- Improving journey times and connectivity.
- Improving passenger satisfaction.
- Improving sustainability and environmental performance.
- Consolidating and growing rail freight market share.
- Improving accessibility to services and stations.
- Managing change effectively.
- Strengthening accountability and whole industry alignment, including through further devolution.

### **Devolution and industry reform**



- <u>Industry collaboration</u>: Full support for ScotRail Alliance supporting cultural and behavioural change, better aligning incentives, less conflicts and better decision making.
- <u>Reclassification</u>: Risks around accountability, priorities and corporate decision making strengthen case for further devolution.
- <u>Shaw Review</u>: Recommendations on future structure and financing of Network Rail due in March. Fiscal responsibility has to be matched with local accountability and more devolved functions.
- <u>UK Government Review of Rail Regulation</u>: Needs a system of economic regulation responsive to local needs and priorities.



CARACTER STATES STATES

### The role of charges

### What's the problem and what are we trying to achieve?

- Existing charging regime provides little transparency around who is funding what and why.
- Incentive effects may be limited, so costs not being reduced.
- Risk aversion in franchise specification so TOCs held harmless to changes
- Inconsistent implementation of cost reflective charging.



### **Market reality in Scotland**



- Heavily specified franchise contracts with little appetite to change this.
- Competition for the market rather than in the market. Very distinct railway with separate rail strategy and policies.
- ScotRail and Sleeper paying all FTAC in Scotland.
- Rail freight market disproportionately affected by loss of coal and steel markets and any distance-based charges.



### Looking ahead to PR18

### **Initial thoughts**



- Recognise that the structure of charges remains a decision for ORR, and that number of options constrained by EU law.
- RDG Review of Charges provides a useful platform for discussion. Be clear on purpose.
- Need to be consistent with developments expected as part of the broader PR18 programme, including financial framework and changes in way money flows through the industry.
- Welcome improvements that can help improve transparency, improve capacity and use of network, reduce costs and improve decision making.
- Stability and predictability for rail freight.
- But need to avoid an exercise in regulatory economic theory that does not align with reality of railway market, whether passenger or freight.



### Questions

**PR18: Priorities for charges** 

Jonathan Hulme

5<sup>th</sup> February 2016

#### Purpose

- The purpose of this presentation is to provide answers to the following questions:
  - What is RDG's Review of Charges?
  - What did our review say about priorities for CP6 charges?
  - What are our next steps?

### What is the RDG Review of Charges?

- Two years ago, the industry decided to take a **fresh look** at:
  - How Network Rail should charge for access to its rail infrastructure
  - Money flows relating to network disruption
  - Incentives that seek to encourage better industry outcomes
- We wanted to do this **in advance of PR18** so that it could inform ORR's decision making so we set up the Review of Charges project
- It was made up of three phases and involved around 100 stakeholders:



#### www.raildeliverygroup.com

### **Phase 1 - RDG Vision for Charges and Incentives**

Axioms

- · System safety
- · Consistency with law
- · Funding of Network Rail efficient costs
- Allowance for market conditions
- · A single approach for the network as a whole

#### **Objectives**

- Service costs recovery
- Efficient whole-system whole -life industry net costs (balance of benefits and costs)
- Efficient long run investment decisions
- Efficient performance management
- Efficient use of network capacity

#### **Outputs**

The optimal charges and incentives mechanism will depend on the state of the world, but will result in:

- Network Rail accountability
- Non-arbitrary allocation of costs
- Optimal traffic growth
- · Aligning industry incentives
- · Value for money for funders, taxpayers and users

#### Judgement criteria

- · Predictability
- Simplicity
- Transparency
- Low transaction costs

25 RDG | Review of Charges

#### www.raildeliverygroup.com

Here, '**efficient**' means that the greatest net benefits for the whole system are delivered

### Phase 2 – Assessment of the current regime – overarching points

Our assessment highlighted a number of key points that were relevant for the whole charges and incentives regime:

- The industry should have a **broader and clearer understanding of the purpose** and aim of the regime
- The industry should be **realistic about the limits of what the regime can achieve** and how closely it can be aligned with the ideal regime
- The regime should align with: other parts of the industry's regulatory and contractual framework; public transport policies; and the needs of customers (passenger and freight users)
- The regime needs to provide stability to allow for business planning and industry investment
- Whilst the industry identified a number of gaps between the RDG Vision and the current regime, there were aspects of the current regime that the industry thought should be retained. For example, wear and tear charges and traction electricity charges were considered to be broadly aligned with the RDG Vision

# Phase 3 – Assessment of 22 different options for making changes to charges and incentives

- The initial assessment considered 22 options, primarily reflecting the gaps from the assessment of the current regime
- Each option was assessed against 19 criteria based on the RDG Vision
- We then undertook further analysis on seven of the options to explore the impacts on these options in more detail (highlight in blue)
- CEPA carried out the assessments but had the benefit of significant input from RDG representatives and the wider rail industry



#### www.raildeliverygroup.com

#### **Priorities for CP6**

- Developing a clearer and better understanding of the purpose of the regime, and each of its elements – not well understood by industry, funders and broader stakeholders
- Resolving issues with the Capacity Charge the purpose of the charge is not well understood and it is not considered to accurately reflect the financial impact of additional delay
- Developing a better **understanding of Network Rail's cost drivers**. However, there was only limited support for using such information in charges, particularly in the current State of the World
- Exploring links between **passenger compensation and the performance regime.** There was some consensus on considering this option for PR18
- Reviewing discount structure for possessions regime to address concerns that it encourages Network Rail to book possessions too early

#### Next steps

- ORR should build on the work that the industry has carried out
- We are currently **developing RDG's response** to ORR's network charges consultation
  - In this response we will ask ORR to respond to RDG's work on charges and incentives
- We are also continuing to communicate the findings of RDG's Review of Charges with stakeholders
- We will close the project at the end of March. However, RDG will continue to support passenger operators, freight operators and Network Rail throughout PR18 on this topic
  - We think that ORR should work with RDG to set-up a PR18 industry working group to continue the positive engagement

### Any questions?

For more information about RDG's Review of Charges and to view the documents that we have published as part of the review, please visit: <u>http://raildeliverygroup.com/what-we-do/our-work-programme/contractual-regulatory-reform/review-of-charges.html</u>



### **Kenneth Russell**

Freight's perspective on ORR's review of charges

5<sup>th</sup> February 2016

# **Russell Overview**

- Privately owned, Scottish based company
- Employing over 600 staff across 14 UK locations
- Core business lies within transport and logistics
- Over 250 vehicles, 600 trailers and 1000 containers







# Importance of Industry

- Transport plays an important role in today's economy and society
  - Large impact on growth and employment
  - Efficient and cost effective flow of goods



# Freight's perspective on ORR's review of charges



# Road and Rail

- Recognition of the competitive market
- Road costs excluding fuel have been stable
- Passenger operators protected from changes to access charges, freight not protected


## Benefits of Rail Freight

- Economic
  - Full trains burn less fuel per load than road
- Environment
  - Reduce carbon emissions
  - Reduce road congestion
- Reliability
  - Consistently deliver to the timetable
- Safety



# Charging Regime for Freight

- No appetite from freight industry on current regime
  - Too complex and isolated
  - Need for holistic charging regime
  - Simple charges and simple incentives
- Need to spend our energy winning traffic
- Important Transport Scotland issue clear guidance





## Thank You



ken.russell@johngrussell.co.uk



## PART 2: Our proposals Vlada Kolosyuk

## **High-level options**



#### Supporting packages

#### **Competition options**

We are considering whether some open access operators should make a greater contribution to network costs, particularly where capacity is scarce and most valuable.

#### **Complexity options**

We think that complexity could be limiting the effectiveness of existing charges and we have considered what proportionate changes might improve the ease with which charges are understood.



## Illustration of geographic attribution

We have developed the following example to illustrate the concepts behind the packages in our consultation.

We use the example of geographical disaggregation of cost, but the general principles would apply to other forms of changes to better reflect cost/value in charges.

#### **High-level assumptions:**

- TOC 1 operates A-B
- TOC 2 operates A-C
- TOC 3 operates A-D
- Each path is the same distance
- Each TOC runs same the vehicle types and number of trains





Type of costs	Consider the impact if	Under current approach	Under an alternative approach	Potential benefits
Fixed costs (e.g. FTAC)	<ul> <li>Section X-D has higher fixed costs than paths X- B and X-C</li> </ul>	<ul> <li>Under the current FTAC methodology, each TOC would pay the same level of charge as fixed costs are recovered at route level and then allocated to operators based on simple metrics (primarily train miles).</li> <li>Information on cost differences largely absent</li> </ul>	<ul> <li>Under the infrastructure cost package, costs would be allocated to TOCs on the basis of their use of each part of the network.</li> <li>Since TOC3 is the only one using path X-D, it would pay a higher charge than TOC1 and TOC2.</li> <li>Improved information about cost variations</li> </ul>	<ul> <li>TOCs would be allocated the costs of the parts of the network they actually use.</li> <li>Improved understanding of costs and ability to reduce them.</li> <li>Improved capacity use.</li> </ul>
Short-run variable costs (e.g. VUC)	<ul> <li>Section X-D has higher wear-and-tear costs compared to other sections of the route</li> </ul>	Under the current approach each TOC would pay the same variable usage charge as it is calculated based on a network-wide average rate for each vehicle type.	<ul> <li>Under an alternative approach where the VUC is geographically disaggregated, TOC3 would pay a higher VUC rate compared to TOC1 and TOC2 that do not use section X-D</li> </ul>	This could lead to similar benefits as with the infrastructure cost package, but smaller in magnitude.
Value- based capacity costs	There are no spare paths on track section X-D	<ul> <li>Current charges do not reflect the value of train paths on different route sections</li> <li>Under this approach TOCs pay charges to recover fixed costs and short-run variable costs.</li> </ul>	<ul> <li>Under a value-based capacity approach, TOC 3 would be faced with a value-based charge to continue using track section X-D</li> <li>TOC1 and TOC2 would not face value-based charges because they are not using capacity constrained section of the route.</li> </ul>	<ul> <li>Incentives for TOCs to re-time, re-route or withdraw services in order to make the best use of the network capacity.</li> </ul>



## The infrastructure costs and value-based capacity packages

Alex Bobocica



## **This session**

- In this session, our goal is to ensure everyone has a good understanding of the infrastructure costs package and the valuebased capacity package and their potential impacts.
- In this session we will set out:
  - what we mean by each of these packages and the rationale for them;
  - the high-level options under each of these packages;
  - Impacts of each of these packages

45



## Infrastructure costs package: scope



### Infrastructure costs package: high-level options

The primary objective of the infrastructure costs package is to develop a charging structure in which the costs currently captured by fixed charges (i.e. the costs which are fixed or vary only in the medium to long-run) are recovered in a way that better reflects their cost drivers

#### Sub-option 1: an improved attribution of Network Rail's infrastructure costs

This would lead to a step-change in the industry understanding of these costs and what drives them. Sub-option 2: exposing operators to charges which reflect an improved attribution of infrastructure costs

This would lead to a step-change in the industry understanding of these costs and what drives them, together with the resulting development of a more cost-reflective charging structure on the basis of this attribution.

These changes could be implemented over more than one control period



2

## Infrastructure costs package: development (1)

#### Illustration of the process for developing more cost reflective charges:

Scope		we attributing? costs that are fixed or var e. all costs excluding SRV	<i>, ,</i> , , , , , , , , , , , , , , , , ,	
Attribution of costs	<ul> <li>Level of geographic disaggregation</li> <li>National</li> <li>Regional</li> <li>Route-level</li> <li>Route or track section level</li> </ul>	<ul> <li>Service type disaggregation</li> <li>Peak vs. off-peak</li> <li>Stopping vs. non- stopping</li> <li>Freight vs. passenger</li> <li>Train weight</li> </ul>	<ul> <li>Capacity usage type disaggregation</li> <li>Time on track</li> <li>Time at station</li> </ul>	Network Rail cost attribution pilot
Allocation and charging	Passenger metric (e.g. passengerversus luijourneys)• Recalcula		arge (what metric)	



## Infrastructure costs package: development (2)





## Infrastructure costs package: development (3)

The next phase of our work is focused on developing more detailed options and understanding their relative merits.

The development of these more detailed options will also depend on the outcome of Network Rail's cost attribution exercise, as shown below.



# Value-based capacity package: rationale and options

- Demand for capacity may be above the level of capacity available on some parts of the network. In a competitive market, a shortage in supply will ultimately result in higher prices, which would ration demand to those willing to pay a premium.
- Network Rail cannot adjust its charges in order to reflect a shortage of capacity and provide information and incentives to operators and/or funders.
- As a result, users who place a higher value on capacity may be unable to access the network.

At a high level, the value-based capacity package is a broad approach that would result in a charging framework which reflects the value train operators place on scarce capacity through the charges they pay to access the network.

#### Least to most complex options (in terms of implementation)

#### Capacity utilisation charging

A charge varying based on capacity utilisation, to act as a proxy for the value of paths on a specific part of the network.

A measure of capacity utilisation would be used to vary charges (either existing charges, or a new capacityspecific charge).

#### Auctioning

Auctioning slots could reveal the value of capacity to different operators. This approach would overcome the difference between the information held by DfT/Transport Scotland/ORR/Network Rail and train operators as to the relative value they place on train slots.

### Scarcity charging reflecting opportunity cost

Scarcity charges would reflect the opportunity cost of using capacity where demand is constrained.

This would require a calculation of the value (private and social) of train paths to different users. The outputs of this calculation would then need to be converted into charges.



## **Assessment of packages**

- The evidence base for the proposals set out in our consultation was summarised as part of three impact assessments (one for each of our main high level packages)
- The impact assessments look at each package of options individually. They do not compare the packages to each other
- In this section, we set out the key impacts of the infrastructure costs and value based capacity packages – the incremental improvement package will be discussed separately later today







## Impacts of the infrastructure costs package (1)

#### An improved attribution of Network Rail's infrastructure **Sub-option 1** costs **Benefits** Challenges Support Network Rail and ORR Would require collecting as regulator in reducing network more granular data than is costs currently needed/available Support better franchising decisions using better information Require engagement of on the costs of using the network significant resources to Inform investment decisions develop Improve decisions made by For benefits to be realised, Network Rail and ORR on the the information will need to allocation of access rights. be used so we need to ensure sufficient awareness Increased transparency of governments allocation of funding and understanding of methodology Support devolution through more accurate attribution of costs

between regions



## Impacts of the infrastructure costs package (2)

#### Sub-option 2

## Exposing operators to charges which reflect an improved attribution of infrastructure costs

#### Benefits

(in addition to those of sub option 1)

Further support lower network costs. A more cost-reflective charging structure will provide operators with better incentives for efficient decision making

Further support lower network costs by allowing operators to better hold Network Rail to account

#### Challenges

If charges were levied on a variable basis, this would reduce the predictability of charges for operators and would increase the variability of Network Rail's income

Distributional impacts – charges levied on some parts of the network on some operators would go up, while charges to other would go down

Familiarisation costs for the industry – this could be reduced by having a sufficiently long lead-in period



## Money flows and the infrastructure costs package



## Value-based capacity package

(passing information into charges)

Benefits

Better information used by Network Rail and ORR to improve allocation of paths. It could also be used by funders at the time of re-franchising

Benefits (better information only)

Support lower network costs by highlighting areas of particularly high value, which helps Network Rail to allocate its resources more effectively between different parts of the network

Improve decisionmaking by funders, Network Rail and ORR on options for enhancing the network Improve use of the network by providing an incentive for capacity to be used by services with the greatest commercial and social value

Value-based capacity charges could send price signals to Network Rail in terms of the most efficient way to allocate capacity to operators, as well as encouraging it to accommodate additional requests in general

<u>Challenges</u>

Without a better understanding of the drivers of network costs, value based charges could result in volatility in charges and unintended incentive effects

A greater degree of flexibility in franchising would be needed in order to make these charges effective, so that train operators and Network Rail are able to respond to the incentives provided

Implementing could be complicated and costly. A redesign of the billing system might be needed for example to accommodate different charge rates at different times of day (not currently possible)

A charge underpinned by complex economic models would require the industry to incur costs to understand and be able to respond to these new charges



## **Questions for roundtable**

#### **Proposals**

Would you expect the infrastructure costs package to deliver more (or fewer)benefits than the value-based capacity package at this stage and, if so, why?

#### Infrastructure costs package

- What costs and benefits do you see with this package?
- To what extent do you think the benefits of this package can be realised through more information, rather than through the use of charges?

#### Value-based capacity package

- What costs and benefits do you see with this package?
- To what extent do you think the benefits of this package can be realised through more information, rather than through the use of charges?



# The package of improvements

Mary Davies Head of Regulatory Economics



## **Package description**

- We are proposing to continue work to identify improvements to address known weaknesses with:
  - the current method of recovery of short-run variable costs; and
  - the volume incentive and the route-level efficiency benefit sharing (REBS) mechanism
- Aspects of this package could be combined with the infrastructure costs package and the value- based capacity package.



## **Rationale for package**

Evidence suggests our current charges and incentives have some successes in reducing costs and improving decision- making. For example, the 2014 Credo report cites:

cites:

Variable usage charge:

Operators, rolling stock owners and train manufacturers state that they respond to the VUC.

**Electric current for traction charge:** 

Operators investing in eco-driving programs, considering train temperature strategies, stopping patterns and regenerative braking to reduce their EC4T charge.

However, we know that some charges are not fully cost-reflective. For example:

VUC does not reflect any variation in the cost across different locations.

The coal spillage charge is paid by every operator carrying coal, regardless of whether coal is spilt.

We did not fully pass through all costs to some operators for CP5.



### Impacts of improvements to current charges

#### Benefits

Strengthened incentives on operators and Network Rail -Improved cost-reflectivity means operators and Network Rail face more accurate costs, allowing more efficient decisions

**Closer alignment of industry incentives** - More incentives on TOCs to work together with Network Rail to drive down costs

Reduce the funding requirement from governments Cost reductions would drive efficiencies and reduce taxpayer support Challenges

Scale of impacts – The charges in this package account for less than 20% of Network Rail's income. Impacts will be limited

**Difficulty in setting the right incentives** - The potential for incentivising behaviour will depend on the level of exposure TOCs have to any changes

Transition costs to Industry - Any costs incurred by industry in understanding, engaging and responding to changes should be proportionate

## Next steps for the improvements package

# Long list of options

- High-level criteria for assessment
   RDG's
- assessments

# Initial list of options

Draft proportionate impact assessment using detailed criteria for assessment, drawing on RDG material

### Final list of options for consultation



## **Proposed criteria for assessing options**



e.g. will it encourage more efficient decision making to support lower network costs? e.g. are there any constraints and does it support effective competition? e.g. are there impacts on the environment, or the equalities groups?

Is it legally consistent?



## Long list of options for initial consideration (1)

Current charge	Options	
Variable usage charge (VUC)	<ul> <li>Ensuring full recovery of costs that vary with traffic</li> <li>Disaggregation to reflect cost drivers</li> <li>Improve robustness of VTISM for VUC</li> </ul>	
Capacity charge	<ul> <li>Further disaggregation to improve cost reflectivity</li> <li>Recovery of costs through other mechanisms/charges</li> <li>Methodological changes</li> <li>Review wash-up mechanisms</li> </ul>	
Electrification asset usage charge (EAUC)	<ul> <li>Combine EAUC with another charge, such as VUC to reduce complexity</li> </ul>	
Electric current for traction	<ul> <li>Update methodology around transmission losses, modelled rates and partial fleet metering</li> <li>improve incentives for metering</li> </ul>	
Coal spillage charge	<ul> <li>Increase incentive property of the charge</li> <li>Recover costs elsewhere or combine with VUC</li> </ul>	

This is a long list of options that have come from RDG's long list, previous commitments or ideas that have otherwise been put to us either formally or informally.

## Long list of options for initial consideration (2)

Current charge/incentive	Options
No charge currently recovering these costs	<ul> <li>Externality charges e.g. for noise, environment</li> <li>Charge for biomass spillage or effluence clear up</li> <li>Average cost charge</li> <li>Occupancy charge/ Capacity utilisation charge</li> <li>Reservation charge</li> </ul>
Volume incentive	<ul> <li>Improve the payment rates (e.g. by improving evidence base for calculation)</li> <li>Geographic disaggregation</li> <li>Improve NR internal transmission mechanisms</li> </ul>
Route- level efficiency benefit system (REBS)	<ul> <li>Methodological improvements to REBS</li> <li>Revisit TOCs' exposure to Network Rail's costs</li> <li>through charges and REBS</li> </ul>

This is a long list of options that have come from RDG's long list, previous commitments or ideas that have otherwise been put to us either formally or informally.



## Charges review next steps

#### Indicative dates, at this stage





## **Questions for roundtable**

#### Improvements package

- Are there other options you wish to see in our long list?
- What areas do you see as a priority for this package?
- What costs and benefits do you see with this package?
- Are there any challenges you see with regards to implementation?

#### Next steps for the charges and incentives regime

How would you like us to engage with you as we progress work on this regime?

