

Welcome to Eastern Region Capital Delivery Midland Mainline (MML) Electrification Programme Market Briefing Event

15<sup>th</sup> June 2022

**Venue: Riverside Centre** 

10:00am – 13:00pm

THIS IS NOT A CALL FOR COMPETITION





### Welcome

Lisa Webb Principal Portfolio Manager



### Housekeeping

Lisa Webb Principal Portfolio Manager



- Please switch off or silence your mobile phones
- Fire alarms none expected today
- Slides and recording will be shared via email following this session
- This event is for the benefit of those looking to bid for the frameworks in scope

   it is not a general information event
- Questions at the end we will only take questions related to the scope of the event
- More complicated / multi-faceted questions may be answered in a post-event communication

Responses will be shared transparently





### Purpose of today

The purpose of this Market Engagement Briefing Event is to:

- Brief you in preparation for the forthcoming Market Sounding Questionnaire (MSQ) which will inform our procurement strategies
- Introduce you to our ambition for the MML Electrification Programme
- Highlight Network Rail's aspirations, including the vision, mission and outcomes
- Provide you with important context around intended operating and delivery models

#### PLEASE NOTE THAT THIS IS NOT A CALL FOR COMPETITION

- Network Rail does not guarantee that it will incorporate all or any feedback received at or following this launch event into any subsequent procurement event(s).
- Relevant launch event material (including any relevant Q&A) will be made available as part of the forthcoming procurement event documentation for background information.
- However, attendees should not rely on the contents of any launch event information (including any Q&A) for the purposes of participating in and responding to any future procurement event or otherwise; the formal procurement documentation issued as part of the relevant procurement event will take precedence over any launch event information (including any Q&A).



### Today's agenda

10:00	Welcome: Lisa Webb
10:10	Introduction & Context of the Programme: Patrick Bateson, Rob McIntosh (video), Rob Cairns
10:40	Strategic Brief & Operating Model: Lisa Webb
11:00	Delivery Model: Mike Heptonstall & Narad Bhandari
11:20	Contracting Strategy Partnership: David McBride
11:40	Partnership Framework: David McBride
11:50	Incentivisation: David McBride
12:00	Procurement Plan: David McBride
12:10	Market Sounding: David McBride
12:20	Q&A open session: All
13:00	Event Close



### **Introduction and Context**

Patrick Bateson Programme Director - Inter City



### **Introduction and Context**

Rob McIntosh Managing Director – Eastern Region





### **Introduction and Context**

Rob Cairns Capital Delivery Director – Eastern Region



### **Strategic Brief and Operating Model**

Lisa Webb

Principal Portfolio Manager, Midland Mainline Electrification

### MML Programme & Key Deliverables



Enable electric operation of a 2040 future timetable including:

- Works for the Overhead Line Equipment (OLE) extension to Sheffield & Nottingham;
- Route clearance to accommodate OLE extension, including major track and civil works; and
- Increased power supply to support electric passenger services to Sheffield and Nottingham.

London to Corby electrification has recently been completed. Electrification between Kettering and Wigston has recently been procured. The next stage of procurement is for further electrification between Wigston and Nottingham / Sheffield.

#### 



users

partner

Rail

Instinctive

industry

leader

### **Our Vision, Mission and Outcomes**





### **Mission**

To create a step change in the delivery of electrification by challenging convention and relentlessly seeking best value solutions



Outcomes

Reduction in greenhouse gas emissions and improvements in air quality along the route and around stations



Improved passenger experiences

-	P	-	3
		_	2
	E		3
	E	-	3

Reduced train operating costs



An affordable and efficient template for further electrification

### **Our Values and Behaviours**





### Values

Empower our people

Always be safe



Put teamwork at the heart of what we do

### **Behaviours**

Challenge everything Beat the target One Team Leave a legacy Resilience





### **MML Electrification Benefits Plan Mapping**





### **Operating Model**

Lisa Webb Principal Portfolio Manager



### Preliminary Market Engagement & Industry Feedback

Programme level approach

Production line methodology to deliver Rail Systems

**Defined Pre-production & Production split** 

Upfront design and integration

Partnership approach – efficient and effective working

Simple performance-based incentivisation approach

Drive continuous improvement and STK rate efficiencies

Overall general positive support for the Partnership Framework Delivery Model

From National Electrification Efficiency Panel (NEEP) and Rail Electrification Programmes Market Event in July 2021

### **Strategic Development Principles**



#### **Create Certainty**

- Fix scope and requirements
- Multi-disc design to optimise individual packages (integrated / client Led)
- Firm up master schedule & access plan in advance (deconflicted)
- Not seek to pass on strategic risk that is best manged by the client



rtaintv

#### Reduce Complexity

- Standardise (work types, then products) package similar works
- Productionise (repeatability safer, higher quality, factory model)
- Reduce interfaces; separate work disciplines and deconflict
- Design to avoid existing asset deficiency issues MVP driven across all aspects of operations



#### **Optimise Scarce Resources**

- Access; Plant; Skilled Resources; Materials level the plan & secure in advance
- Play to Strengths in the supply chain no square pegs in round holes
- Invest in technology to drive innovation and outperformance of productivity and methods
- Incentivise and support supply chain performance, creativity, innovation and productivity



#### Relentless focus on cost drivers (internal and external)

- Access; Complexity; Uncertainty; Complacency; Change; Overheads; Appropriate Risk Allocation; Quickest and Safest way of doing repeatable tasks; Enabling Productivity, Lean Focus; "Touch it once"
- Understand cost base RMM cost reporting and industry benchmarking; live real time updates to the cost plan for cost to complete certainty - Slash the indirect cost burden



### **Operating Model Context: Strategy - Golden Thread**



Easy to engage

with, efficient

& dependable

partner



### MMLE Value Propositions

"value proposition" - the value our programme promises to deliver to our customers

Performance Legacy

Our programme activities will leave a **legacy** we will prove the **affordability** of electrification and contribute in a significant way to achieving our national decarbonisation aspirations through Swift, Pragmatic and Efficient Enhancement Delivery Sustainable Outcomes

We will maximise sustainable outcomes where our delivery approach is as sustainable as the outcomes we are committed to delivering Sustainability is at our core **Outcome Confidence** 

Our teams will be set up to operate in an agile & controlled way enabling the highest levels of performance, driving opportunity by reducing complexity & increasing certainty. We will build trust & confidence in our team, our customers, and our partners *enabling* them to challenge convention and relentlessly seek best value solutions

Proud to work for Network Rail

Instinctive

industry

leader

On the side of passengers and freight users



### **Operating Model – Three Core Pillars**

#### Service

- 1. Optimal delivery approach & organisational capability
- 2. Decarbonisation solutions for other future programmes
- Build a sustainable, high performance & capability supply chain
- 4. Long-term planning



#### People

- 9. "One Team" delivery culture
- 10. Integrated, empowered and collaborative high performing programme delivery team
- 11. Innovative practices to bring step changes in productivity
- 12. What's best for the railway

#### Process

- 5. Lean ways of working
- 6. Power of Data
- 7. Empowering Governance
- 8. Performance enhancing assurance



### **Delivery Model**

Mike Heptonstall, Head of Production Integration Narad Bhandari, Programme Engineering Manager



Preliminaries - Design - Project Management - Other Costs - Risk -

-



### **Proposed MML Integrated Production Model**



#### **MMLE Integrated Production Model**



- CMS
- Piling
- Enabled via Direct Delivery



2b

#### Midland Mainline Electrification

#### 153km 421STK

- K2W (KO1A & RS1) Kettering to Wigston
- RS2 Wigston South to Syston
- RS3 Syston to Trent
- RS4 Sheet Stores to Chaddesden Sidings
- RS5 Trent Sidings to Nottingham
  - RS6 Chaddesden Sidings to Toadmoor Tunnel
- RS7 Toadmoor Tunnel to London Road Bridge
- RS8 London Road Bridge to Sheffield

### Minimum Viable Product (MVP)

Minimum 'viable' solution that meets the primary project outcomes at the lowest cost



#### What is MVP

- Focus on project outcomes
- Optimal version of product / service
- ✓ Viable to deliver
- Viable to operate and maintain: not always the lowest cost solution
- ✓ Refined from continual challenge
- ✓ Applies Validation & Verification
- Achieved through questioning & challenging

#### What MVP is not

- The minimum cheapest product
- About cutting scope
- Ignoring whole life cost
- A process to replace requirements
   / remits / made design decision
   without formal change control



# 75% Track Lower spec reduction through VCC

conjunction with VCC significantly cheaper than r	con







### MVP Case Study – VCC MML Example

- Aggressive approach to minimisation of route clearance costs
- Recognition application of some techniques
   has not yet been fully developed
- ✓ Use of Voltage Controlled Clearances (VCC) as a standard part of the route clearance toolkit
- VCC measures have been recommended for 53 bridges on MML, reducing the magnitude of track lowers and minimising the quantity and spec of structural interventions
   Use of VCC in tunnels to reduce number of
  - track lower interventions





### **Contracting Strategy Partnership Framework**

David McBride, Head of Commercial Management – CD Eastern





#### Balanced Scorecard

 Procurement Critical Success Factors (CSFs) identified using 'Rail Industry Balanced Scorecard' tool.

#### Optioneering

 Procurement model options scored against identified CSFs. Preferred option is highest scoring – Partner Framework.

#### Golden Thread

- → CSFs are used to develop a 'golden thread' linking suppliers to the MML strategic case / outcomes.
- CSFs are the basis of procurement model, evaluation criteria, and key performance indicators

#### MML Procurement Balanced Scorecard

Criticality	Critical Success Factor	Pass/Fail
	Health & Safety	Pass/Fail
	Cost Management	
High	On Time Delivery	
	Supply Chain Accessibility	
	Output / Outcome Quality	
	Production / Delivery / Construction	
	Process	
	Workforce Skills	
	Supply Chain Management	
	Energy efficiency / climate change	
Medium	impact	
	Life-cycle Costs	
	Legacy Benefits	
	Customer Experience / Disruption	
	Employment & Workforce Engagement	
	Resource & Waste Management	
	Information Security & Data Protection	Pass / Fail
	Modern slavery	Pass /Fail
Low	Supplier Organisational Learning &	
	Continuous Improvement	
	Community Benefits	



### Partnership Contract Environment Visual with Values



\* Less £132m for Route Section 1, which has already been procured.

### **Procurement Strategy**



#### **Key Features:**

- Framework Agreement
- > 5 years + up to 5 year duration
- Compliance with Utilities Contracts Regulations (UCR) 2016
- Negotiated procedure: Pre-Qualification
   Questionnaire (PQQ) / Invitation to Negotiate (ITN)
- ➢ 4 discreet lots
- > 2-4 suppliers on each lot
- Published through BravoNR
- Work package call-off contracts





NEC4 Framework Agreement

**Contract Strategy** 

- $\,\circ\,\,$  Call-offs based on NEC4 ECC suite of contracts
- All NEC4 ECC main payment and secondary options included for flexibility
- Suitably incentivised to innovate and outperform both at framework lot and call-off contract level
- Governance / Partnership Framework Board





### **Partner Framework**

David McBride, Head of Commercial Management – CD Eastern



### Proposed MML Electrification Procurement Model - Partner Framework





- 'best for programme'principle
- Partner board for coordination and optimisation
- ✓ Out of lot award for resilience
- Secondary Suppliers /
   Reserves for contingency
- Allowance for complex locations



### Incentivisation

David McBride, Head of Commercial Management – CD Eastern



### **Incentive Principles**



**Incentivisation Model** 









### **Procurement Plan**

David McBride, Head of Commercial Management – CD Eastern



### **Indicative Procurement Timescales**





### **Market Sounding**

David McBride, Head of Commercial Management – CD Eastern



### Market Sounding Questionnaire

Test market appetite and canvas views of the supply chain on the key principles of the MML Electrification Sourcing Strategy:

1 Delivery Model



Procurement Model





- Issued via email using MS Forms within a week of this event.
- Deadline for the MSQ will be circa 3 weeks following release (17:00, 8<sup>th</sup> July).
- Feedback to be analysed by project team to assist development.
- Further market sounding may be held if needed.



### **Q&A Open Session**





# Thank you very much for your attendance here today



## Appendices

