



# Our fleet – now and into the future

**Stakeholder Conference**

November 2025



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# Introduction

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# Our fleet

379 units (960 vehicles) – 278 'legacy' units, and 101 new units

A blue and yellow train with the number 150/0 on its side, stopped at a station platform.

150/0

A blue and yellow train with the number 150/1 on its side, stopped at a station platform.

150/1

A blue and yellow train with the number 150/2 on its side, stopped at a station platform.

150/2

A blue and yellow train with the number 155 on its side, stopped at a station platform.

155

A blue and yellow train with the number 156 on its side, stopped at a station platform.

156

A blue and yellow train with the number 769 on its side, stopped at a station platform.

769

A blue and yellow train with the number 158 2-car on its side, stopped at a station platform.

158 2-car

A blue and yellow train with the number 158 3-car on its side, stopped at a station platform.

158 3-car

A blue and yellow train with the number 323 on its side, stopped at a station platform.

323

A blue and yellow train with the number 333 on its side, stopped at a station platform.

333

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A blue and yellow train with the number 170 on its side, stopped at a station platform.

170

A blue and yellow train with the number 195 on its side, stopped at a station platform.

195

A blue and yellow train with the number 331 on its side, stopped at a station platform.

331



# New Trains Programme update

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# New trains

There are three separate ‘lots’ that can all be won by different manufacturers

- Electric Multiple Units
- Multi Mode Units (Tri-mode (electric, fuel, battery))
- Battery Electric Multiple Units (BEMU)

	Lot 1 - EMU		Lot 2 - MMU		Lot 3 - BEMU		Total (units)	Total (cars)
	3-car units	4-car units	3-car units	4-car units	3-car units	4-car units		
Phase 1	12		48	63		8	131	464
Phase 2 Indicative	34	16	30	20		24	124	432
Phase 3	To be developed							

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(3 car or 4 car Unit)



Lot 1 – Electric Multiple Units (EMUs)

The most straightforward design

Lot 2 – Multi-mode Multiple Units (MMUs)

Our Phase 1 Class 15X replacement trains will be MMUs. These are futureproofed to allow conversion to BEMU or EMU when the network infrastructure permits

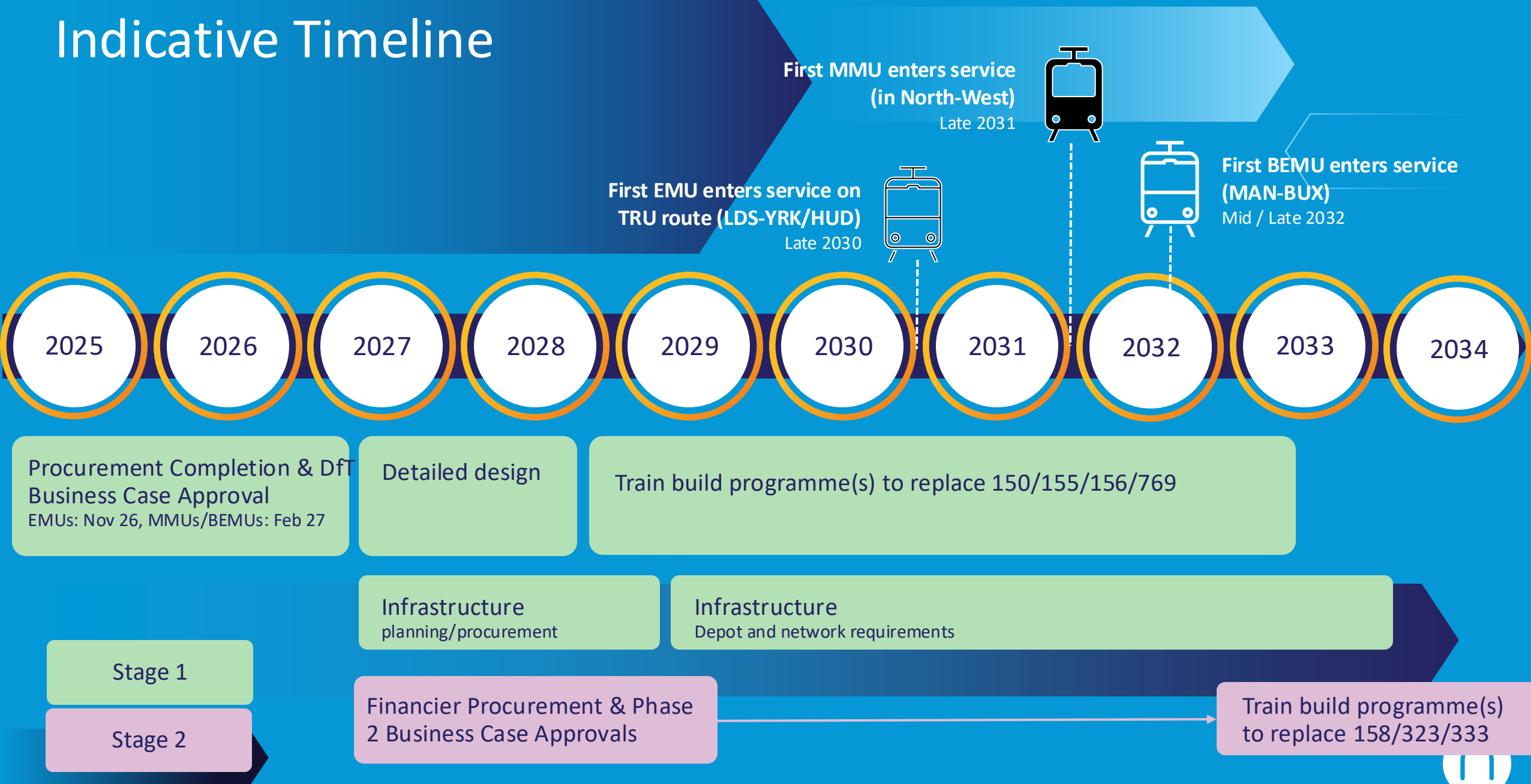
Lot 3 – Battery Electric Multiple Units (BEMUs)

Requires charging infrastructure.

These allow conversion to EMU when the infrastructure allows



# Indicative Timeline



\*Current plan, based on ISFT requirements

# Development of the Train Technical Specifications (TTS's)

- First iteration of the TTS was developed in 2022 in conjunction with internal and external stakeholders
- Iterative amendments have been made since to reflect additional arising NTL needs, and feedback from the manufacturers
- NTL RSS team have engaged extensively to ensure the TTS's are fully fit for purpose
  - **Internal:** Operations, Customer Experience, Safety, IT, Engineering, Training, Environment
  - **External:** Transport Focus, Network Rail, DfT, NTL Stakeholder Groups; and ORR
- Lessons from previous fleet introductions have been captured
- NTL's TTS deliver best practice to Key Train Requirements



# Customer Experience and assuring Manufacturer focus

What we've been working on:

Procurement discussions  
and interim submissions  
with/from  
manufacturers clarifying  
Technical and Customer  
Specs.

Ensuring our  
specification remains  
customer focused.

Delivering industry  
best practice - Key  
Train Requirements  
and NTSN Accessibility  
compliance.

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# Customer Experience and assuring Manufacturer focus

Key next steps for 2025:

**Final manufacturer submissions:** November 2025 – February 2026

**Proposal evaluation period:** February – May 2026

**Contract award:** Post-evaluation

**Next phase:** Core stakeholder engagement begins with design review



# Fleet headline characteristics

Characteristic	MMU		BEMU	EMU	
Cars per unit	3	4	4	3	4
Car / Unit lengths	23 m / 69 m	23 m / 92 m	23 m / 92 m	24 m / 72 m	24 m / 96 m
Seating capacity / Unit	191 pax	265 pax	265 pax	191 pax	265 pax
Maximum speed	100 mph	100 mph	100 mph	100 mph	100 mph
ETCS	Yes	Yes	Yes	Yes	Yes
NTSN ACC	Yes	Yes	Yes	Yes	Yes
Unit end gangways	No	No	No	No	No
Inter-vehicle gangways	Wide	Wide	Wide	Wide	Wide
Toilets – UAT / standard toilet	1 + 1	1 + 1	1 + 1	1 + 1	1 + 1
Multi-Use / Purpose spaces	Yes	Yes	Yes	Yes	Yes
ASDO – door operation	Yes	Yes	Yes	Yes	Yes
Class Reservation – Worldline (RS)	Class 780		Class 781	Class 382	



## 3 Involving Stakeholders - Post Contract Award

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# Design Review Process – NTL & Stakeholder involvement



# Questions & discussion

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