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# Bicester Town Local Representatives Group

## Meeting #3

27 October 2022

# 01. Today's agenda

# Today's agenda

01.  
Welcome and today's agenda

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02.  
Housekeeping

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03.  
Review of actions from previous meetings

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04.  
Topic – Active Travel & First Mile Last Mile

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05.  
Topic – Rolling Stock and Traction Strategy

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06.  
Topics for future meetings

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07.  
AOB and closing remarks

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# 02. Housekeeping

# Housekeeping

## Thank you for joining

This is a virtual meeting.

Please display your full name as when you registered to attend – this can be done through the 'Participants' section.

To help everyone feel part of the discussion, please feel free to turn your camera on during the meeting if you can.

Please use the 'Raise Hand' function to raise a question during the meeting, found in the bottom ribbon (under the 'Reactions' option).



**Display your full name in username**



**Please use the mute function**



**Use the 'Raise Hand' function if you want to raise a point during the meeting**



**Please do put your camera on if possible**

## 03. Review of actions from previous meeting

# Outstanding actions

Meeting	No.	Action	Owner	Status
1	4	Confirm whether the bridge being constructed over the Charbridge Lane level crossing will be designed to hold a dual carriage way.	EWR Co	Ongoing



# 04. Topic- Active Travel & First Mile Last Mile

**Will Ryan**

Customer Service Delivery Executive

# 'First Mile Last Mile' approach

**Creating a seamless door-to-door experience** integrating adjacent transport modes and facilitating Active Travel, enabling real choice for our customers at the start and end of their journeys.

## Connecting customers to our stations

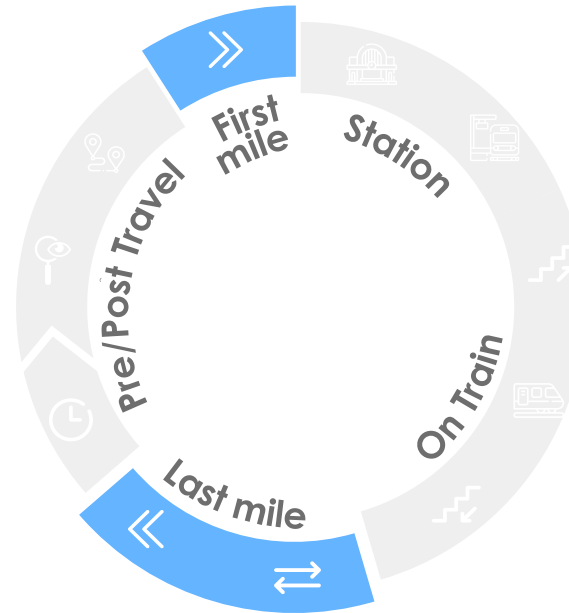
Provision of car parking facilities, but **encourage car sharing/pooling**

Partnership solutions with to provide **connectivity with adjacent public transport**

**Integrated ticketing** and services

**Availability of** taxis, buses and vehicle hire

**Mobility as a Service** (MaaS)



## Promoting Active Travel

Introducing **Active Travel routes and facilities**

Ensuring **customer and community safety**

**Improving the station realm and landscape**

Creating opportunities to **support health and wellbeing**

## Golden Threads

Technology/Digital — Innovation — Inclusivity — Personalisation — Environment — Stakeholders

# Promoting Active Travel

EWR want to develop strong relationships within the communities across the Arc to support health and wellbeing through the promotion of Active Travel.

We have identified a number of opportunities through our initial work....

Secure cycle /  
scooter parking

(e) Cycle /  
Scooter hire

Review cycle  
conveyance on  
trains

Active Travel /  
Cycle hubs

Safer foot and  
cycle paths

New Active  
Travel routes

Connectivity to  
Active Travel  
routes

Accessible  
routes across the  
railway

Public realm  
improvements

'Way showing':  
apps and realm  
design

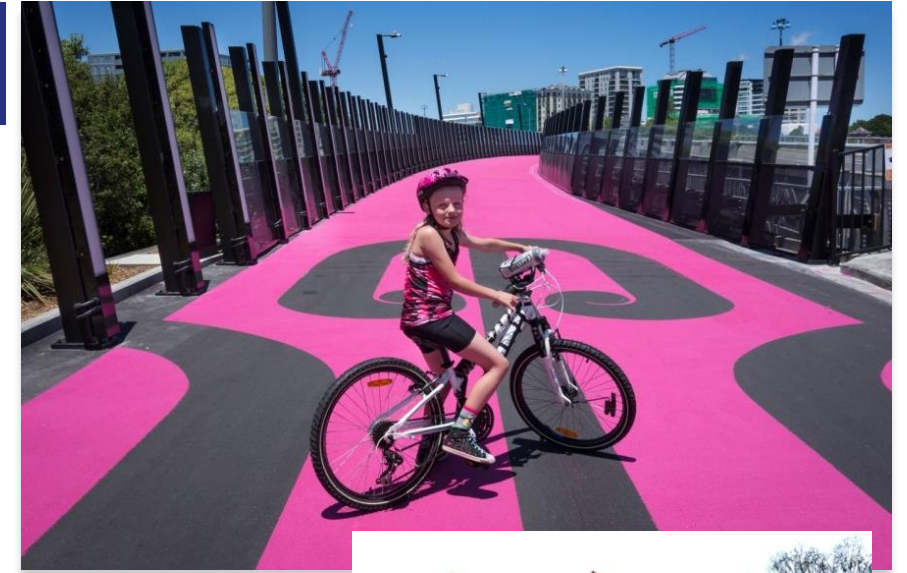
Community  
Active Travel  
facilities

Travel and  
wellbeing  
roadshows

Healthy eating  
options at  
stations

Active Travel  
Pack/Bundle

Guided activities



# Questions or comments

# 05. Topic – Traction Strategy and Rolling Stock

**Mark Foster**

Operations Executive – Rolling Stock

# EWR Initial Fleet

- Modern two-carriage diesel trains;
- Operate the initial Oxford to Bletchley with potential to extend to Milton Keynes Central service temporarily;
- Engines meet EU Stage IIIB emissions standards and use Ad Blue in the exhaust system to reduce nitrogen oxide (NOx) emissions;
- Each train has an accessible toilet, passenger information throughout, and dedicated spaces for three bikes.













# Use of different types of traction

- Initial use of diesel only trains is a temporary solution;
- This allows EWR to commence services quicker, unlocking the benefits of the new railway earlier;
- Electrification remains under consideration with EWR Co awaiting a decision from government on this;
- This allows flexibility in future power options in line with the government commitment to removing all diesel only trains by 2040;
- EWR are also investigating alternative traction power including battery power and hydrogen fuel cells.



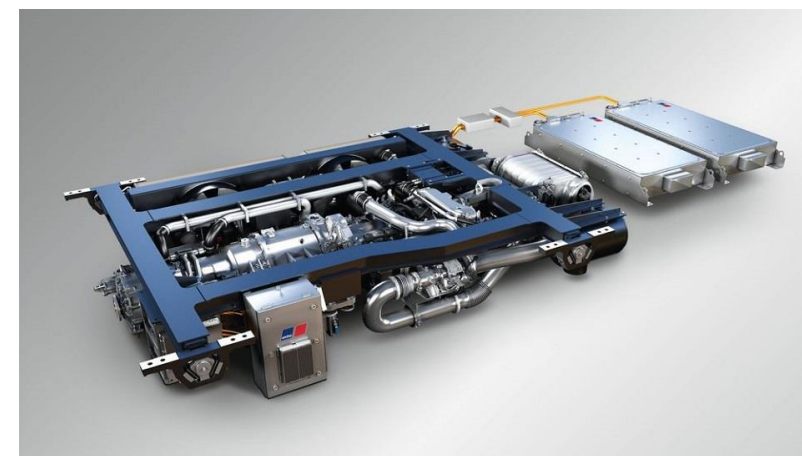
# Long-Term Rolling Stock Options

Traction Type		Carbon		Cost		Complexity	
EMU Electric Only		●		●		●	
DMU Diesel Only		●	●	●		●	
BMU Battery Only		●		●	●	●	●
HMU Hydrogen Fuel Cell Only		●		●	●	●	●
DEMU Diesel Electric Bi-Mode		●	●	●	●	●	
DBMU Hybrid Diesel & Battery Hybrid		●	●	●	●	●	●
BEMU Battery Electric Hybrid		●		●	●	●	●
HEMU Hydrogen Electric Hybrid		●		●	●	●	●



# Case study: B-DEMU Hybrid – Class 168 HybridFLEX™

- Partnership between Chiltern, Porterbrook and Rolls-Royce to develop the Hybrid concept;
- One hybrid battery-diesel train currently in service;
- Fitted with brand new engines combined with on-board batteries;
- Batteries are used at stations with diesel used at other times and capture energy lost through braking;
- Fuel consumption and CO2 emissions are reduced by up to 25%, Nitrous Oxide (NOx) emissions by over 70% and particulate emissions by over 90%, compared to the original 25-year-old engine;
- Feasibility for future use on EWR under review.



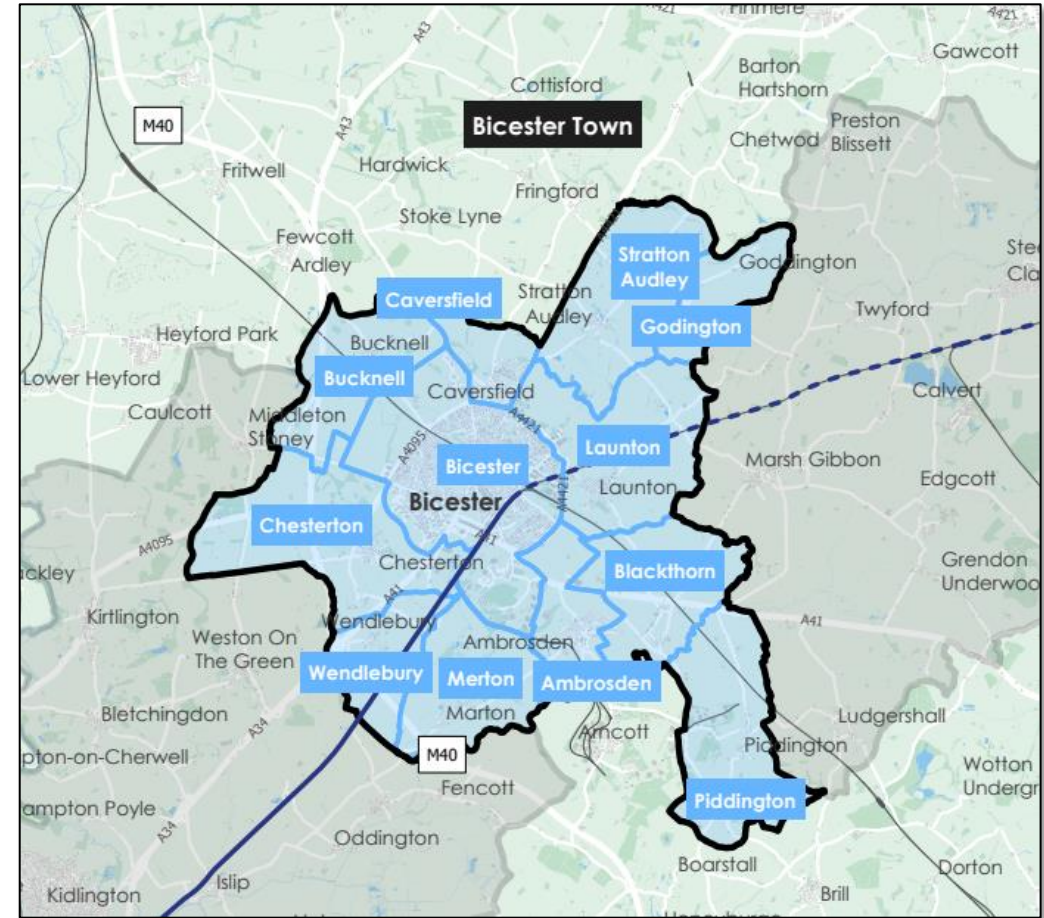
# Case study: Battery EMU Hybrid – Class 379 IPEMU

- Partnership between Network Rail, Bombardier, Abellio, Future Railway and Department for Transport (DfT) to demonstrate the viability of a battery-powered train
- Tested in passenger service for five weeks in 2015
- Electric train fitted with traction batteries on one vehicle
- Batteries were used for a 30km section and charged from overhead line electrification on the remainder of the journey;



# Bicester Town

- Diesel Fleet will operate when EWR Operation commences;
- Rail line from Bicester to Bletchley has option to install Overhead Line Equipment (OLE) at a later date.



# Ongoing Work



## Active engagement with Rolling Stock Manufactures, Owners and Train Operators...

to understand existing challenges with novel rolling stock traction types. Potential for EWR Co to lead innovation of future rolling stock to meet customer needs.



## Electrification is being taken into account...

with passive provision included in designs where appropriate.



## Continued engagement with the Department for Transport (DfT)...

to ensure EWR Co align with the decarbonisation agenda and 'The Williams-Shapps Plan for Rail'.

# Questions or comments

# 06.

## Topics for future meetings

# Topics for future discussion

**Meeting #4 onwards** – Freight / Strategic Rail Freight Interchange (SRFI) / Station design: safe and secure bicycle, e-bicycle and motorcycle storage

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**Discussion:** Other topics for future meetings

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**Agreed frequency:** Quarterly meeting

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**Outcomes:**

**Actions:**

# 07. AOB and closing remarks



# We're always here

All the Group's relevant documents will be available on its **Community Hub** site.

We will notify you when available.



# Got a question?

If you have any questions about the Group, please email:

[localrepresentativesgroups@eastwestrail.co.uk](mailto:localrepresentativesgroups@eastwestrail.co.uk)

If you have any questions about the project, please email:

[contact@eastwestrail.co.uk](mailto:contact@eastwestrail.co.uk)

Or you can also call us on **0330 134 0067**

# Creating meeting notes

