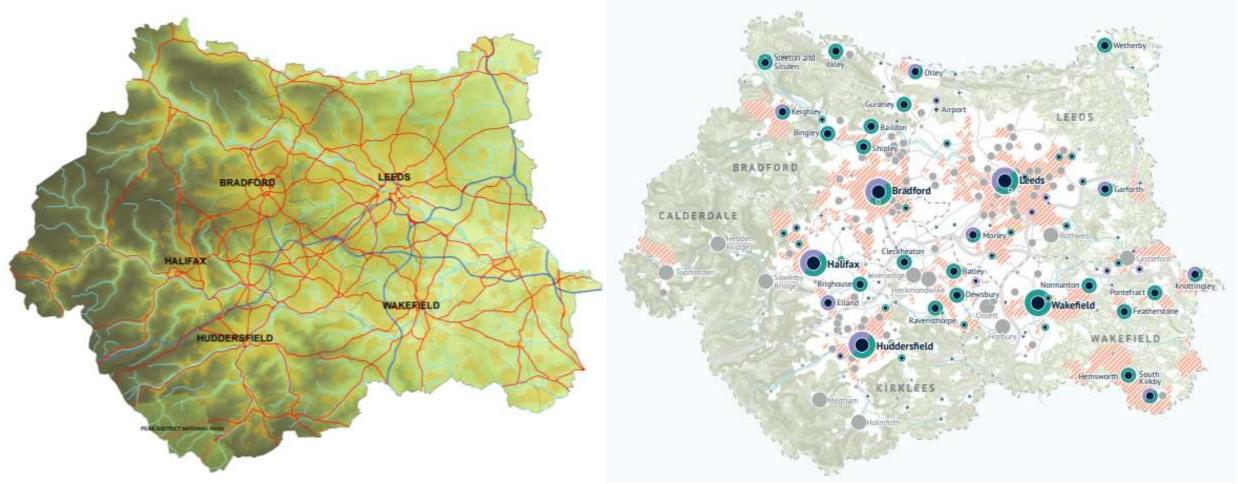


UK Light Rail Conference 2023 West Yorkshire, the Combined Authority, and Mass Transit

Luke Albanese – Director Mass Transit, 12 July 2023

Welcome to West Yorkshire



Welcome to West Yorkshire



2.3 million people 1.1 million workforce 95,000 businesses 7 universities, 91,000 students and 30,000 graduates UK's largest regional finance centre More manufacturing jobs than anywhere in the North

F

Introduction to West Yorkshire Combined Authority



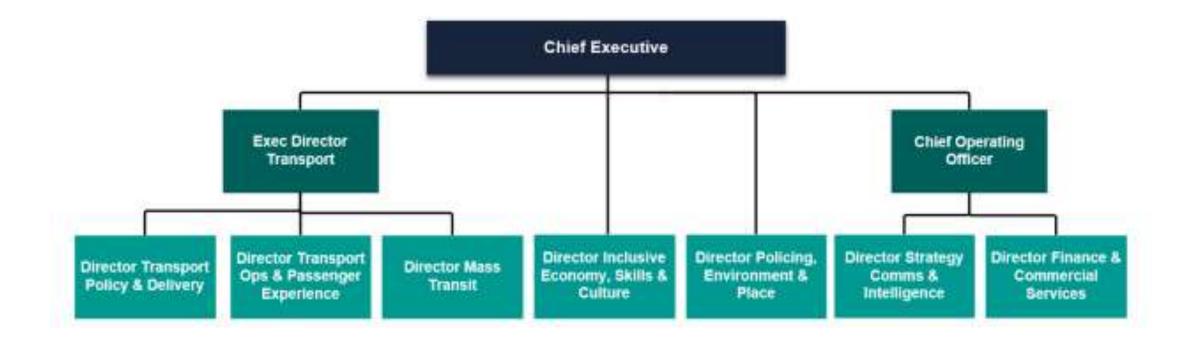
Mayor – Tracy Brabin

Combined Authority Board: West Yorkshire Mayor with Leaders and elected members of Bradford, Calderdale, Kirklees, Leeds, Wakefield Councils

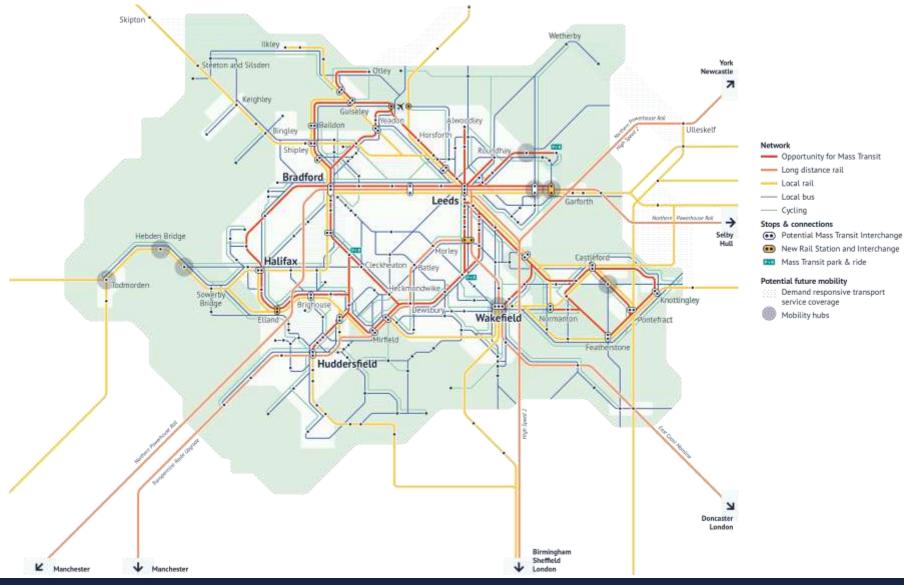
And committees covering:

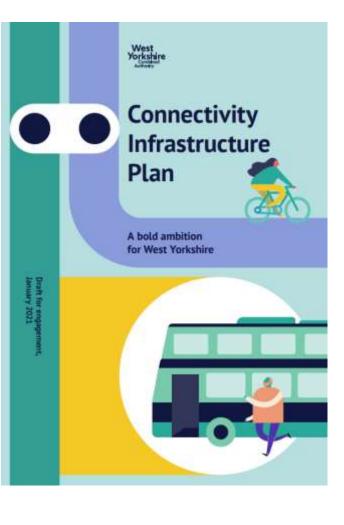
- Transport
- Place, Regeneration and Housing
- Climate, Energy and Environment
- Business, Economy and Innovation
- Culture, Heritage and Sport
- Employment and Skills
- Leeds City Region Enterprise Partnership Board

Introduction to West Yorkshire Combined Authority



Future integrated transport system





WY Mass Transit Vision





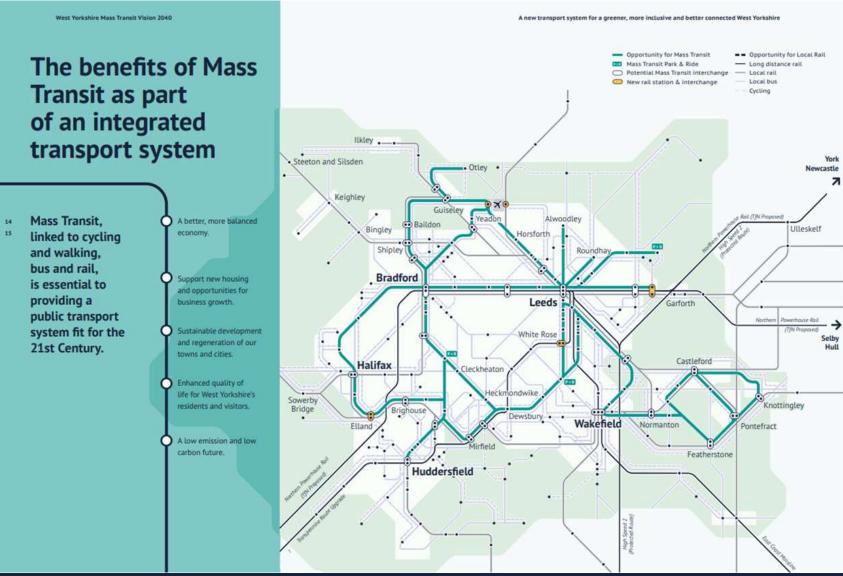
A new transport system for West Yorkshire West Yorkshire Mass Transit Vision 2040

We have a bold ambition to make West Yorkshire greener, more inclusive and better connected.

To achieve this we need an equally bold approach to public transport.

That is why we propose building a modern, world-class public transport system, using new forms of advanced Mass Transit.

WY Mass Transit Vision



WY Mass Transit Principles



16

WY Mass Transit Principles

Candidate Mass Transit technologies for West Yorkshire





Elemengham Hetro, UK, @ Wast Histansis Cambined Authority

Can run on street with other traffic and

on segregated alignments, which can

be integrated with urban realm and

Light Rail/Tram

green spaces.

Belfest Goder, Weisend, @ Albert Bridge

Advanced Bus Rapid Transit

Can run on street with other traffic and on bus-only alignments.

Rubber tyred vehicles.

Low-floor vehicles with multiple double doors for easy level boarding and alighting.

30-50 seats and an overall passenger capacity of around 120 people.

Potential to be battery or hydrogen powered.

Developing technology.

Beifast, Bogotà, Metz, Nantes.

Low-floor vehicles with multiple double doors for easy level boarding and alighting. 50-80 seats and an overall passenger capacity of around 200.

Steel wheels on steel rails.

Overhead line but doesn't need to be from end to end if battery or hydrogen powered as well.

Proven technology.

Birmingham, Bordeaux, Dublin, Nice.





Mulhissie Tierr-Tierr, Fiance

Tram-Train

Can run on street with other traffic, on segregated alignments like light rail/tram and on the same tracks as trains.

Steel wheels on steel raits.

4

Either high-floor to use existing platforms. at railway stations, or low-floor serving new platforms. Multiple double doors for easy level boarding and alighting.

50-80 seats and an overall passenger capacity of around 200.

Overhead line but doesn't need to be from end to end if battery or hydrogen powered as well.

Proven technology but interface with rail can make challenging to implement.

Karlsruhe, Mulhouse, Sheffield.

Artist impression of Covernry Very Light Rell, UK

Ultra Light Rail

Can run on street with other traffic and on segregated alignments like light rail/tram.

Steel wheels on steel raits.

Low-floor vehicles with multiple double doors for easy level boarding and alighting.

20-30 seats and can carry up to 70 people in total.

Overhead line but doesn't need to be from end to end if battery or hydrogen powered as well.

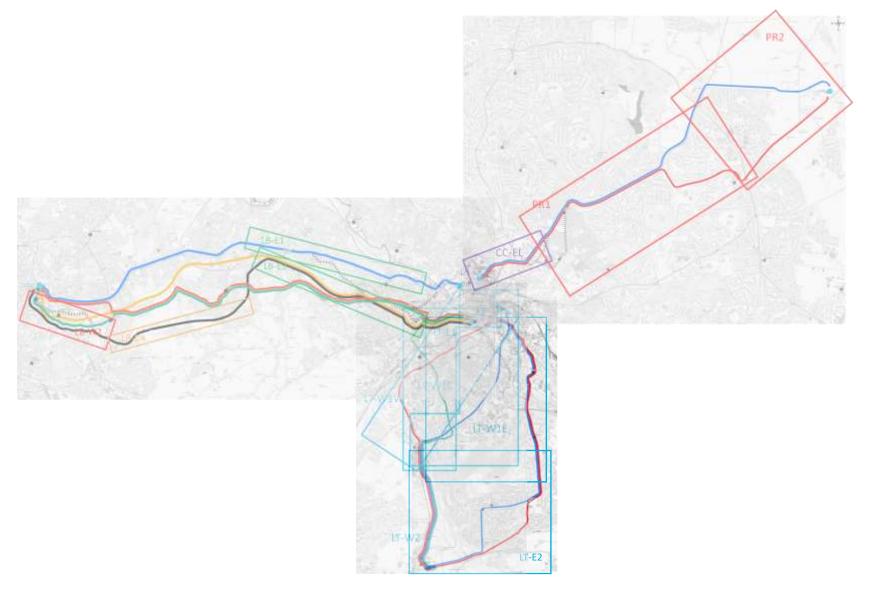
Developing technology.

None in the UK. Coventry system is in development.

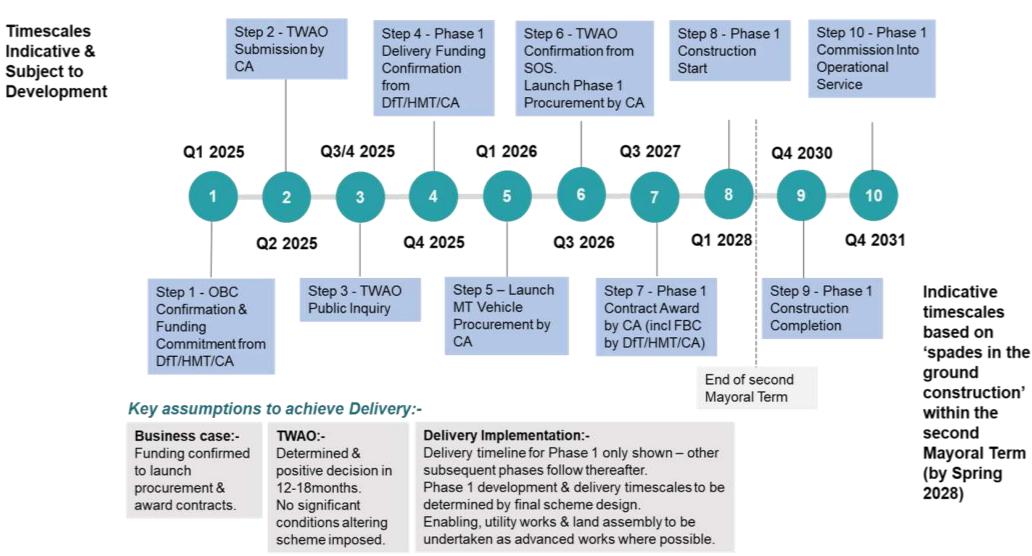
WY Mass Transit Phase 1



Corridor and route selection studies



Programme – West Yorkshire Mass Transit – Phase 1



WY Mass Transit

UK and International Examples

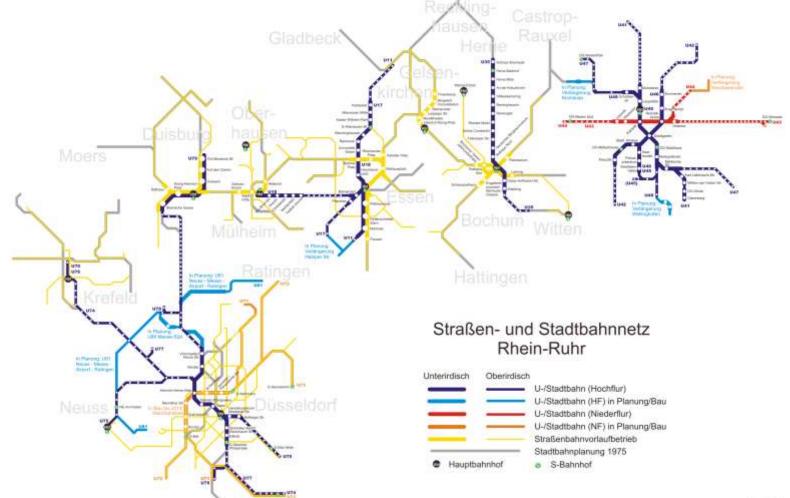


By Clic - Own work, CC BY-SA 4.0, https://commons.wikimedia.org/w/index.php?curid=83648829

WY Mass Transit - UK and International Examples



WY Mass Transit – one possible glimpse of the future?



Commission (Samuel 14)



UK Light Rail Conference 2023 West Yorkshire, the Combined Authority, and Mass Transit

Luke Albanese, 12 July 2023