





West Yorkshire Mass Transit Vision 2040

A new transport system for a greener, more inclusive and better connected West Yorkshire



West Yorkshire Mass Transit Vision 2040

What is Mass Transit?

Mass Transit is a large-scale public transport system in a metropolitan area. With its own brand and identity, typically Mass Transit would use one or more of modern high-capacity buses, trams and tram-train vehicles.

We have a bold and ambitious plan for a new form of transport for West Yorkshire. Alongside cycling and walking, and bus and rail, we see Mass Transit as essential to help our communities thrive and our economy flourish, bringing people and places closer together.

Mass Transit will require significant investment, but will deliver substantial benefits to West Yorkshire. It will support levellingup. Mass Transit will:

Help combat climate change and provide climate resilient infrastructure.

Connect West Yorkshire's important places.

Support levelling up and help rebalance the economy.

Improve health & well-being.

Support economic recovery.

By offering a new public transport option, which increases capacity and provides an attractive alternative to car travel, Mass Transit will support and facilitate:



A low emission, low carbon, inclusive future.



A bigger, stronger and rebalanced economy – increasing access to jobs, education and training.



Enhanced quality of life for West Yorkshire's residents and visitors.



Inclusive growth through improving transport for up to 675,000 people within the top 20% most deprived communities within West Yorkshire.



Sustainable development and regeneration of neighbourhoods, district centres, towns and cities – connecting up to 35 housing growth areas, 17 employment growth areas and five hospitals.

Our ambitious plans for Mass Transit

As Mayor and Leaders of West Yorkshire, we are committed to making public transport work for West Yorkshire, to connect more people with jobs, training and education opportunities, and to tackling the climate emergency on our way to becoming a net-zero carbon economy by 2038.

West Yorkshire Combined Authority has been developing a vision for the region's future transport system, engaging with communities so we know what people want and need.

Significant progress has already been made in addressing years of underinvestment in transport in the north. Now, with devolved powers, we can do even more.

Our plans for Mass Transit will help us to further redress this balance by enabling us to deliver a new integrated and inclusive transport network developed by people in West Yorkshire for people in West Yorkshire. Our plans set out how we can start delivering a new, high quality mass transit system, such as a tram, which will connect people across our region by 2040.

Transport emits the most carbon in West Yorkshire, with more than 90% of transport emissions coming from cars and vans. Enabling more journeys by public transport will be integral to us achieving our ambition to tackle the climate emergency and improve the quality of our air.

Mass Transit will be fully integrated with our ambitious plans for the future of our bus network, enabling us to make buses work for people by improving journey times and reliability.

Travel on foot and by bike has incredible potential to meet the demand for shorter journeys: 80% of us live in towns and cities, and car journeys of a mile or less can be walked in about 15 minutes. Walking is also a great way of travelling to mass transit stops and train stations as part of a longer journey.

Our vision is not just about investing in more of the same, it is about making transport more accessible and more inclusive. Everyone in our region has something to give and we need to make sure people can access jobs, education and training opportunities, which enable them to increase their skills and earn good incomes.

This goes beyond getting people from A to B. It is about getting all of us — our people, our communities, our businesses to where we want to be as a region.



Tracy Brabin - Mayor of West Yorkshire

Cllr Susan Hinchcliffe

Leader, City of Bradford Metropolitan District Council

Leader, Borough Council of Calderdale

Cllr Interim Leader Leader, Council of the Borough of Kirklees



Leader, Leeds City Council



Leader, Council of the City of Wakefield

A new transport system for West Yorkshire

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.

Mass Transit, linked to cycling and walking, bus and rail, is integral to our vision for a sustainable public transport system fit for the 21st Century.

It will support the clean growth of our region. It will help us meet the demands of growing capacity and increased connections so our communities can better access jobs, education and opportunities.

This high-tech, seamless, sustainable Mass Transit system will connect West Yorkshire's cities, towns and district centres, serve areas of new housing development and employment growth, and provide links to inter-city rail services.

Mass Transit will help our communities to thrive and our economy to flourish, bringing people and places together. It will improve the look and feel of our towns and cities and reduce pollution.

Engagement

We published a draft of the Mass Transit Vision in January 2021, as part of the wider West Yorkshire Connectivity Infrastructure Plan. We wanted to know what West Yorkshire residents thought of our Vision and how we plan to implement it.

The public and stakeholder engagement ran from 27 January to 4 June 2021. It featured:

- Online questionnaire survey for views on proposals for all modes
- Detailed Mass Transit Survey for views on proposed corridors
- Interactive map to place comments on issues and propose changes
- Focus groups with young people, disability and interest groups
- Social media campaigns.

There were 430,000 social media views of the engagement material. We received 7,800 responses to our surveys, polls, the interactive map and other stakeholder feedback. It is the largest consultation response of its type the Combined Authority has received.

We are grateful to everyone who took the time to consider our plans and to respond. We have analysed and considered all the responses carefully – thank you.

Overall, the support for our Mass Transit Vision was strong. Around 80% of respondents said they supported the Vision, either fully or in part. Feedback can be broadly grouped as:

- Those who supported the Mass Transit vision and felt that it should have been delivered years ago.
- Those who suggested that Mass Transit was no longer needed due to changes to travel demand as a result of the pandemic.
- Those who were concerned around deliverability or the affordability of Mass Transit.
- Those who wanted Mass Transit to connect parts of West Yorkshire not identified within the Vision, or simply wanted greater investment in bus and rail.

Based on the feedback received, we have made a number of changes to the Vision, including:

- Placing greater emphasis on the role Mass Transit can play in addressing equality, diversity and inclusivity for communities across West Yorkshire.
- More clearly identifying Mass Transit's role helping to meet our climate and sustainability ambitions.
- Reviewing the Places to Connect by Mass Transit, particularly around Wakefield, north Bradford and
- Refreshing how we will deliver
 Mass Transit, in the context of the
 Government's 2021 Integrated Rail Plan
 and City Region Sustainable Transport
 Settlement announcements.

Let's continue the conversation on Transit

This engagement exercise was the first time we have taken the views of West Yorkshire residents on our Mass Transit Vision. As the Vision is developed there will be further opportunities for residents and business to set out their views and for these to feed into the on-going development process.

Between 24 October 2022 and 16 January 2023, a further consultation was carried out with statutory consultees to gather initial feedback on the revised Vision.

A detailed report of the analysis of engagement responses has been published on the Combined Authority's website alongside this updated Mass Transit Vision.



Investing in West Yorkshire's future

Our vision for West
Yorkshire is to be
recognised globally
as a great place to
live with a strong,
successful economy.
Where everyone can
build businesses,
careers and lives,
supported by a
superb environment
and world-class
infrastructure.

Our four priorities:

Boost productivity



Enable inclusive growth



Tackle the climate emergency



Deliver 21st century transport



West Yorkshire Mass Transit is integral to delivering our priorities by helping to address our region's challenges.

Our Connectivity Infrastructure Plan is our broader plan for a modern, integrated transport system for West Yorkshire. It sets out how improved walk, cycle, bus and rail networks will help us meet our challenges, and the role that Mass Transit can play.

Our cities and towns have outgrown our transport system. Our reliance on the car is damaging business, the environment and people's health. Many in our most disadvantaged communities have not benefited from car travel and suffer most from its impacts.

Our transport networks are under increasing pressure. Roads are congested. Public transport can be overcrowded. Journeys can be unreliable. These are all costs to our economy.

They limit opportunities for people to access work, for businesses to connect with their customers and their suppliers, and how communities interact. Pollution from congested roads worsens serious public health and environmental problems.

A "business as usual" approach to transport will mean economic opportunities are not fully realised and effective action is not taken to decarbonise our economy.

Our three challenges

Covid-19

West Yorkshire has been hit hard by the pandemic and by its economic and social impacts. Better public transport is central to our plan for supporting post-pandemic recovery in the longer term.

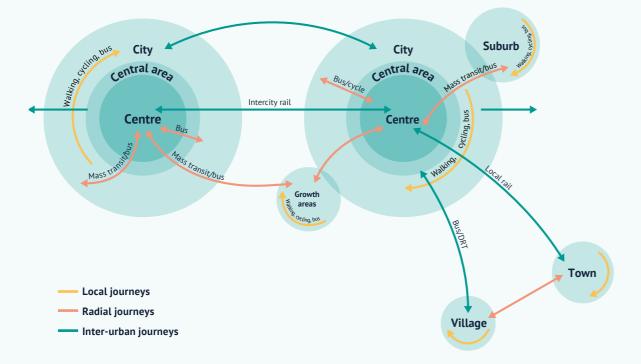
Connecting everyone

Not everyone has benefited from past economic growth and there is a risk that they will fall further behind as the country emerges from the Covid-19 pandemic. We need to overcome the transport barriers that limit access to jobs, training and essential services.

Climate change

The Combined Authority has committed West Yorkshire to reduce its carbon emissions to 'net zero' by 2038. Transport must decarbonise quickly. To enable clean growth, people will need to travel less by car and more by sustainable forms of transport.

One connected door-to-door journey



A flourishing, connected, low-carbon region is only possible with a modern, integrated transport system, of which Mass Transit is an integral part. We need transport options that work in harmony with each other and meet the specific needs of the different types of journey made in West Yorkshire.

We need to provide the right transport options in the right places, whether it's rural to urban, inter-city, between towns, for work or school, shopping or social, daily or occasional.

The best transport networks in other regions and countries integrate different forms of transport together, catering for all journey types and communities, while meeting local economic challenges and needs.

Some forms of transport are best suited to high volumes of travel, others are best for lower flows. Some are best for short journeys and others better for longer ones.

Our goal is to create an integrated and seamless transport system that best meets the needs all of the different journey types. A network that provides the right connections and right capacity, where it is needed while also providing a clean and low carbon way to travel.

We're committed to delivering a system which works for everyone. We will continue to work with people with disabilities, of all different ages and backgrounds to make sure that it's as inclusive as possible.



Our Connectivity Infrastructure Plan sets out how Mass Transit will be integrated within an improved door-to-door transport system for West Yorkshire.

Walking is popular for short everyday journeys. Safe, convenient and appealing walking routes to bus, Mass Transit and rail make public transport a more accessible and attractive option.

Cycling is an affordable and healthy way to travel for many. We plan to extend the network of on-street and dedicated cycle routes to better connect with Mass Transit.

Micro-mobility (e.g. e-bikes) creates new opportunities for shorter journeys.

Bus is best for many public transport journeys. Some bus services will be redesigned to connect with Mass Transit. Buses and Mass Transit will share infrastructure if needed and where practicable, while avoiding competition.

Mass Transit will provide fast, high capacity and direct connectivity, linking major current and future employments sites, areas of significant new housing, Park and Ride sites and areas of regeneration.

Rail and Mass Transit will serve different travel markets. Rail will be best for many longer public transport journeys. Mass Transit will connect with local rail services, inter-city services and Northern Powerhouse Rail.

Mass Transit will be an appealing alternative to **car** travel. Park & Ride will offer access to town and city centres. Road space may need to be reallocated from cars to allow Mass Transit to run free from congestion.

How Mass Transit addresses challenges



Our regional objectives

Boost productivity

Helping businesses to grow and invest in the region and their workforce, to drive economic growth, increase innovation and create jobs.



Enable inclusive growth

Enabling as many people as possible to contribute to, and benefit from, economic growth in our communities, towns and cities.



Tackle the climate emergency

Growing our economy while cutting emissions and improving our environment.

Our challenges

West Yorkshire's productivity is lower than the rest of the country. We need the economy to grow. We need to share better the benefits of growth.

West Yorkshire's population and the number of people working is forecast to grow. More people means more travel. We need new housing and new places for people to work.

Transport needs to add to people's quality of life, not detract from it. Traffic noise and congestion affect day-to-day lives. Traffic blights local communities.

Poor transport limits what people can do.

There is an urgent need to reduce transport's greenhouse gas emissions. Transport contributes to poor air quality. We need cleaner air.

Our Objectives for Mass Transit

Connect West Yorkshire's important places. Help people travel to jobs and education in a reliable, efficient and affordable way. Increase the job and training opportunities

people can easily get to.

Support economic recovery. Improve connections between areas of housing growth and employment, education, health and leisure opportunities. Improve connections to new employment sites.

Improve health and wellbeing.

Make travelling around West Yorkshire a more pleasant experience. Support improved public realm. Provide an attractive alternative to car travel.

Support levelling up and help rebalance the **economy.** Reduce transport barriers which limit travel horizons and so increase access to employment, education, health, leisure and other services. Improve connections to local and district centres. Be fully accessible to all. Support redevelopment and regeneration.

Help combat climate change, provide climate resilient infrastructure and improve air quality by being low emission and providing an attractive and sustainable alternative to car travel.

An evidence led approach to identifying transport investments priorities

Our Connectivity
Infrastructure Plan
identifies how we
need to improve
transport to benefit all
our communities.

Our Connectivity Infrastructure Plan focuses on how transforming connectivity can help raise productivity, living standards and environmental quality for all.

The Plan's scope covers the whole of West Yorkshire: the local authority districts of Bradford, Calderdale, Kirklees, Leeds and Wakefield.

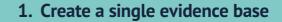
Our Plan builds on the existing West Yorkshire policies as well as local, pan-northern and national priorities.

It's been developed with input from the National Infrastructure Commission and reflects their October 2020 principles for effective urban infrastructure.

In the Connectivity Infrastructure Plan, we identify the important places we need to connect. Based on the evidence, we identify the areas where there is opportunity for Mass Transit.



How we developed the Connectivity Infrastructure Plan:





- 2. Identify the key communities to connect
- 3. Identify the best transport for local communities
- 4. Identify options for improving connectivity
- 5. Sift options against our objectives

Our evidence base

- Socio-economic characteristics
- Economic need (Index of Multiple Deprivation)
- Known transport constraints
- Forecast changes to travel demand
- Planned changes to transport networks
- Anticipated land use changes (new employment growth zones, major housing opportunities, etc)
- Transport-related environmental problems
- Local district plans



Our plan for regional growth

Understanding our places now and in the future is central to planning an effective and efficient transport system.

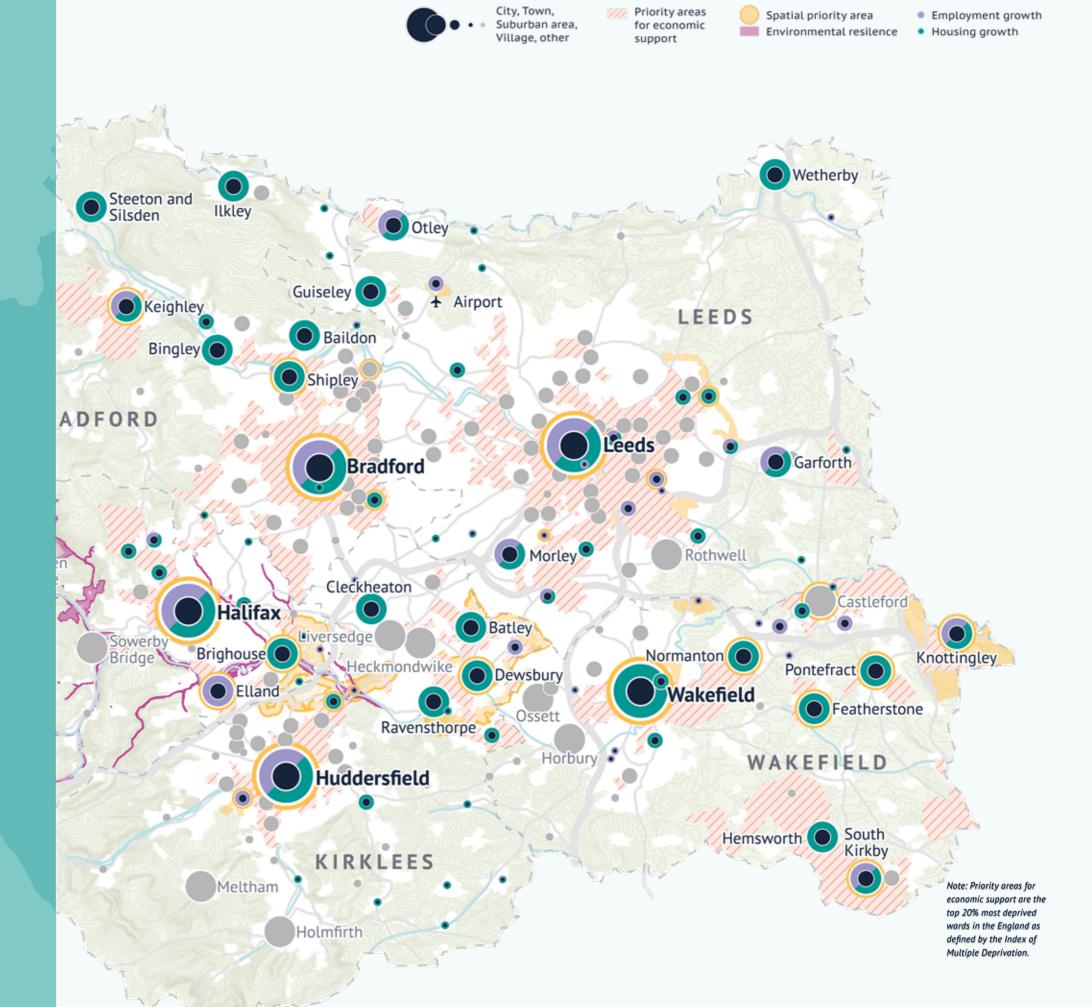
At the heart of northern England, West Yorkshire is a thriving place to live. It is increasingly attracting highly skilled, knowledge-intensive service sector workers, as well as new tourism, cultural and leisure opportunities.

However, transport congestion is limiting growth and air quality is a problem.

Transport is the largest carbon emitting sector in West Yorkshire.

In order to develop an effective transport system, we need to understand each and every one of our places and communities. Then we can make sure everywhere and everyone is seamlessly connected.

Leeds is the largest city in our region.
West Yorkshire is also home to the cities of
Bradford and Wakefield and the large towns
of Huddersfield and Halifax. Alongside
our other town and district centres, West
Yorkshire is a great place to live.



The benefits of Mass Transit as part of an integrated transport system

4 Mass Transit,

linked to cycling and walking, bus and rail, is essential to providing a public transport system fit for the 21st Century.

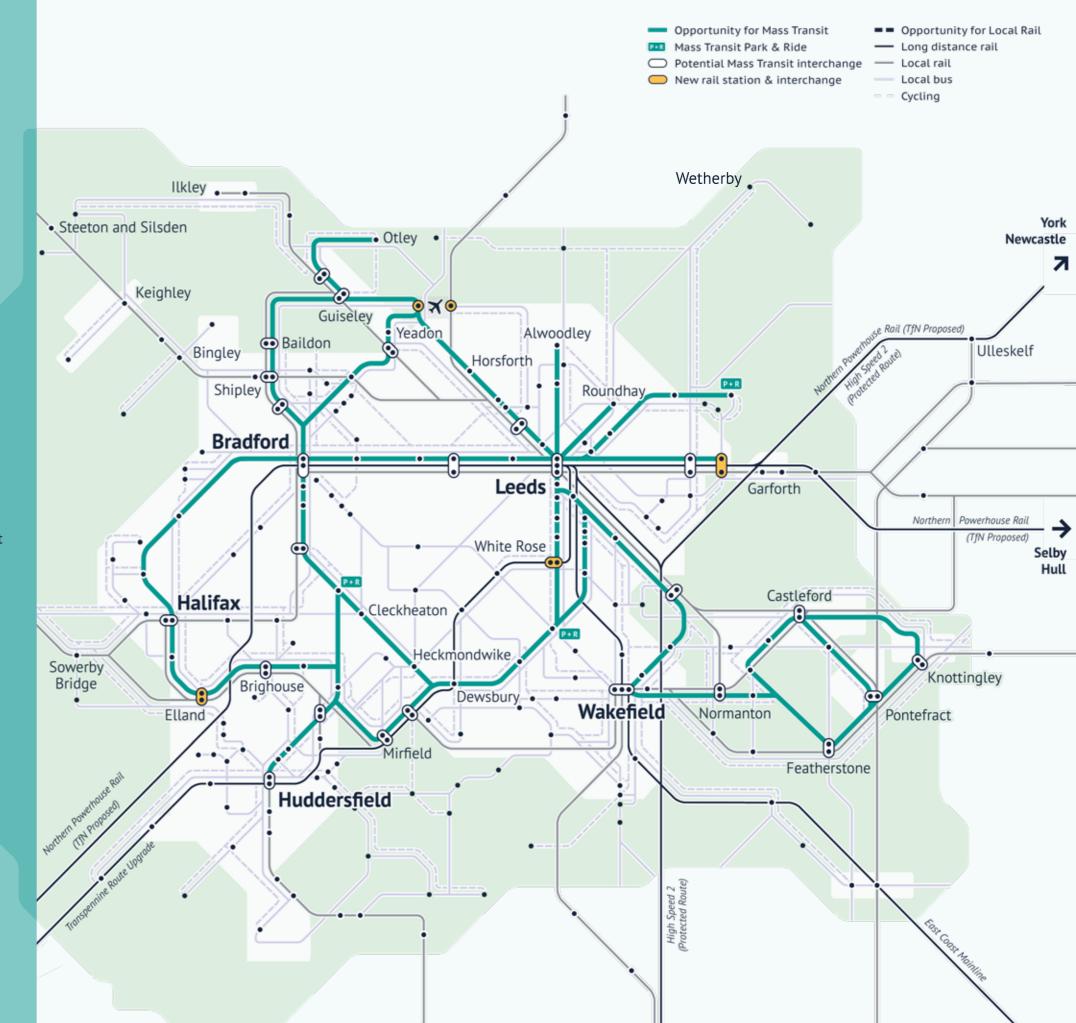
A better, more balanced economy.

Support new housing and opportunities for business growth.

Sustainable development and regeneration of our towns and cities.

Enhanced quality of life for West Yorkshire's residents and visitors.

A low emission and low carbon future.



A bold ambition for a new West Yorkshire transport mode

Mass Transit will be a new form of transport for West Yorkshire. It will be integrated into the urban fabric of every community it serves.

Our design principles have been shaped by our goal to create a 21st Century transport system. Helping us meet our priorities to tackle the climate emergency, boost productivity and enable inclusive growth.



Our four design principles







Environmental responsibility

Designed for people of all ages and abilities, and safe and secure for all.

Zero-emission at the point of use.

Reflect the region's diverse communities and cultures.

An attractive alternative to car travel.

Easily accessible low-floor vehicles with multiple doors for quick and easy boarding.

Infrastructure resilient to climate change.

Inclusive safe spaces around stops.

Landscaping to promote biodiversity, improve air quality and overall health.

Affordable, easy to use, enjoyable and stimulating.

Sustainable management of surface water.







Better connected

Celebrating West Yorkshire

Integrated with local bus services.

Bus and Mass Transit will share infrastructure where needed and practicable, while avoiding competition.

Celebrate our built and natural environment.

Connected to local rail services, yet independently operated. Link to HS2 and Northern Powerhouse Rail.

Add to, and enhance, our urban spaces and support regeneration.

Cycleways that complement Mass Transit routes.

Respect existing spaces and neighbourhoods, building on their strengths.

New and enhanced Park & Ride.

Build and retain skills.

A sense of permanence and ease of use.

Be a symbol of pride for West Yorkshire.

Mass Transit will be inclusive and accessible to all. Level boarding through multiple doors will mean it can easily be used by those with mobility impairments. It will be fully accessible to people who use a wheelchair and to people with a pram or a buggy. On the vehicle, there will be audible announcements and visual displays that tell passengers which stop is next. As well as being visually attractive, vehicles will be designed to avoid sensory overload.

Stops will be visually distinctive while complementing the local built environment. They will have shelters and real time displays. We will look at a wide range of new innovative ways providing real time information. Stops will be integrated with local walking and cycling routes. Some key stops will have dedicated cycle parking and charging facilities for e-bikes and maybe e-scooters too, subject to future legislation.

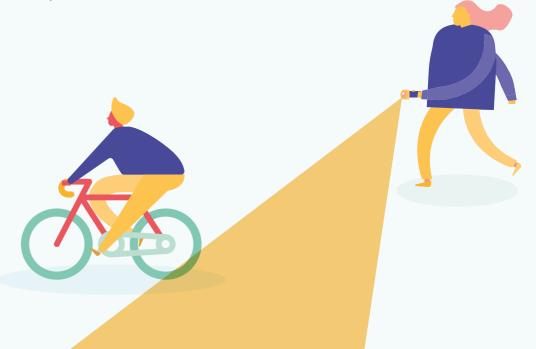


Mass Transit will be designed to be safe and secure. Ensuring the safety of all users will be at the heart of how Mass Transit is designed and operated. There will be particular consideration of safety for women and girls. Vehicles and stops will be monitored by CCTV, will be well lit and designed to be welcoming for all.

As well as being affordable, ticketing will be straightforward. People will be able to pay electronically or by cash, as they prefer. We want Mass Transit fares and ticketing to be integrated with bus and rail with no undue cost penalty when making a journey that needs a change from one type of public transport to another.

Our network will be designed to serve a wide range of communities acknowledging their unique needs, including those that have previously not benefited from a high capacity, quality public transport options. We will take a collaborative and partnership approach to the development our ambitious plans, to ensure communities and groups have a strong voice in shaping design of our Mass Transit system.





Environmental responsibility

Mass Transit is a key part of our pathway to net zero. It will be built to be resilient to climate change, and will provide a high quality sustainable travel alternative to the car





To limit the impacts of climate change, we have to reduce carbon emissions. In West Yorkshire, our target is to reach 'net zero' by 2038 and to make substantial progress towards this target by 2030.

Transport is the biggest carbon emitting sector of the West Yorkshire economy. To meet our target, we must reduce transport's carbon emissions, and Mass Transit will play a key role in achieving this.

Mass Transit will be powered by electricity, either from overhead lines or from batteries. We are also considering emerging technologies like hydrogen power. However the system is powered, we are committed to using green renewable sources of power.

Electric cars will help us reach net zero, but we know that alone they are not enough. We all need to travel less by car. As part of an integrated public transport network, Mass Transit will be an attractive, clean and affordable alternative to travelling by car. As well as helping meet our net zero target, this will help improve air quality too.

Mass Transit will be linked to a wider network of cycling and walking infrastructure and other modes of public transport, meaning people will be able to make end to end journeys without needing to use a car.

We are actively investigating how to minimise the life cycle carbon and environmental impacts of building and operating Mass Transit and the materials, technologies and techniques that are used to minimise the impact of its construction.

Mass Transit is a key part of our pathway to net zero. It will be built to be resilient to climate change, and will be designed to help reduce flood risk.

The environment and nature will be integral to our design approach. We will design Mass Transit to support biodiversity, increase urban greening, support nature recovery and help West Yorkshire residents access open spaces.

Learning from industry

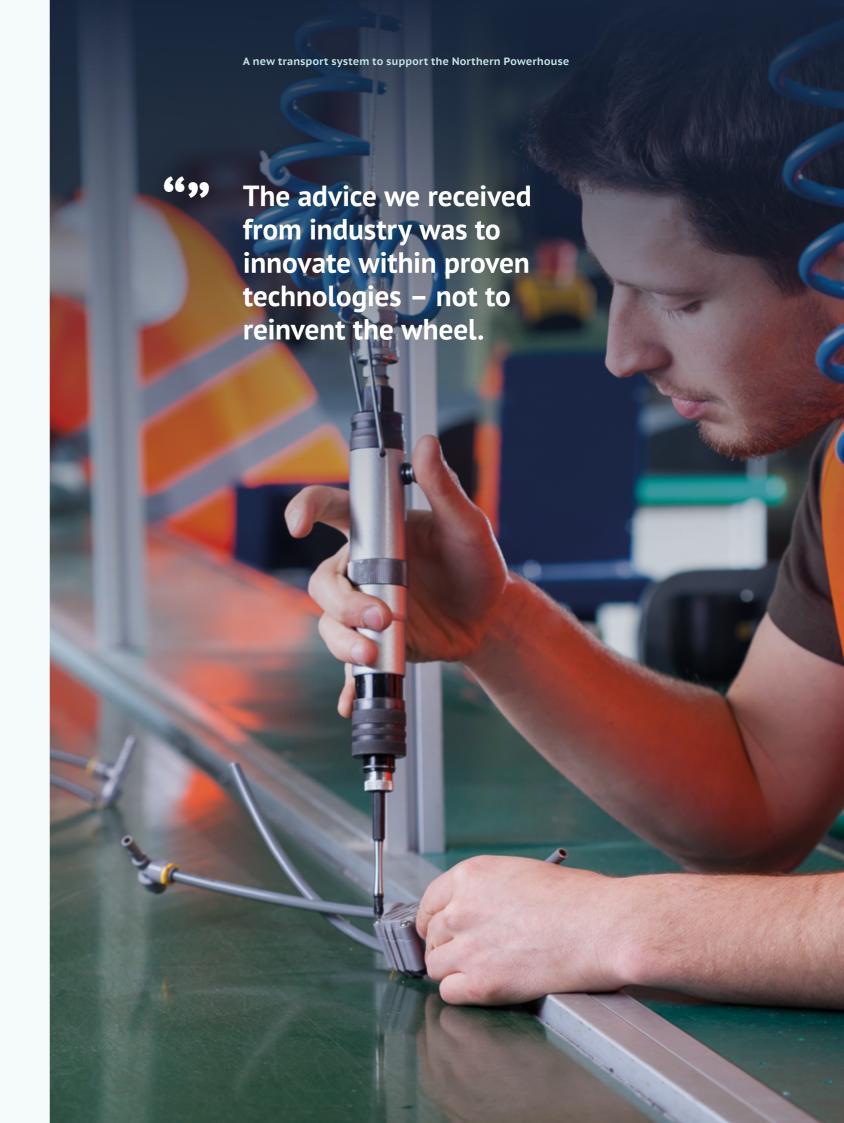
We will continue to research innovative technologies that deliver the best solution for West Yorkshire.

The Advanced Urban Transit Technologies – Worldwide Market Testing report can be found on the West Yorkshire Combined Authority website.

westyorks-ca.gov.uk/mass-transit

What we learned:

- Segregation from general traffic is important for journey reliability.
- Bus, Mass Transit and rail will each be important as part of an integrated transport network - the preference depends on the capacity need and the ambitions of the region.
- Technologies exist for autonomous operations, but only in a fully segregated environment. Mass Transit systems which require interface with car and/or pedestrians will continue to need a driver for safety and passenger assistance
- Battery technologies are advancing rapidly and it is realistic to plan for systems without overhead wires.
- World-leading cities are investing in modern Mass Transit alongside bus and rail, sometimes with more than one type of Mass Transit technology.



A blend of Mass Transit technologies, new to West Yorkshire







Birmingham Metro, UK, @ West Midlands Combined Authority

Advanced Bus Rapid Transit

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

Can run on street with other traffic and on segregated alignments, which can be integrated with urban realm and green spaces.



Rubber tyred vehicles.

Steel wheels on steel rails.

Light Rail/Tram



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

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



Potential to be battery or hydrogen powered.

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



Developing technology.

Proven technology.



Belfast, Bogotá, Metz, Nantes.

Birmingham, Bordeaux, Dublin, Nice.



Mulhouse Tram-Train, France



Artist impression of Coventry Very Light Rail, UK

Tram-Train



segregated alignments like light rail/tram and on the same tracks as trains.



Ultra Light Rail

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



Steel wheels on steel rails.

Steel wheels on steel rails.



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.

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



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

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.

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.

Developing technology.



Karlsruhe, Mulhouse, Sheffield.

None in the UK. Coventry system is in development.

A skilled local labour force to deliver and operate Mass Transit

A modern Mass Transit network needs a skilled labour workforce to build and operate it. We need successful employers that provide good quality jobs and which invest in their workforce. This is essential to boosting productivity, increasing social mobility and enabling inclusive growth.

These jobs are in high demand, while the skills are in short supply. This creates a unique opportunity for new skilled jobs. We want as many people as possible from all walks of life across West Yorkshire to benefit from this opportunity. We will partner with and support development of small and medium-sized enterprises (SMEs) and other local businesses, ensuring they have skills and expertise required to participate in our supply chain.

Building and then operating Mass Transit can help us achieve our skills and employment goals by:

- Supporting innovation and productivity through higher-level skills.
- Working with industry to provide training and technical education, including re-training.
- Creating a culture of investment in workforce skills and supporting career progression.
- Providing an opportunity for a local world-class training capability.



How Mass Transit can support business growth

6699

Mass Transit is more than a transport project.

Mass Transit can help attract inward investment and business growth. Providing fast, reliable and attractive public transport links between where people live and where there are jobs can help increase the job opportunities available to people looking for work. For businesses, it can help them get the right person into the right job. It also makes businesses more accessible to customers.



Further ways businesses can benefit from a Mass Transit scheme include:

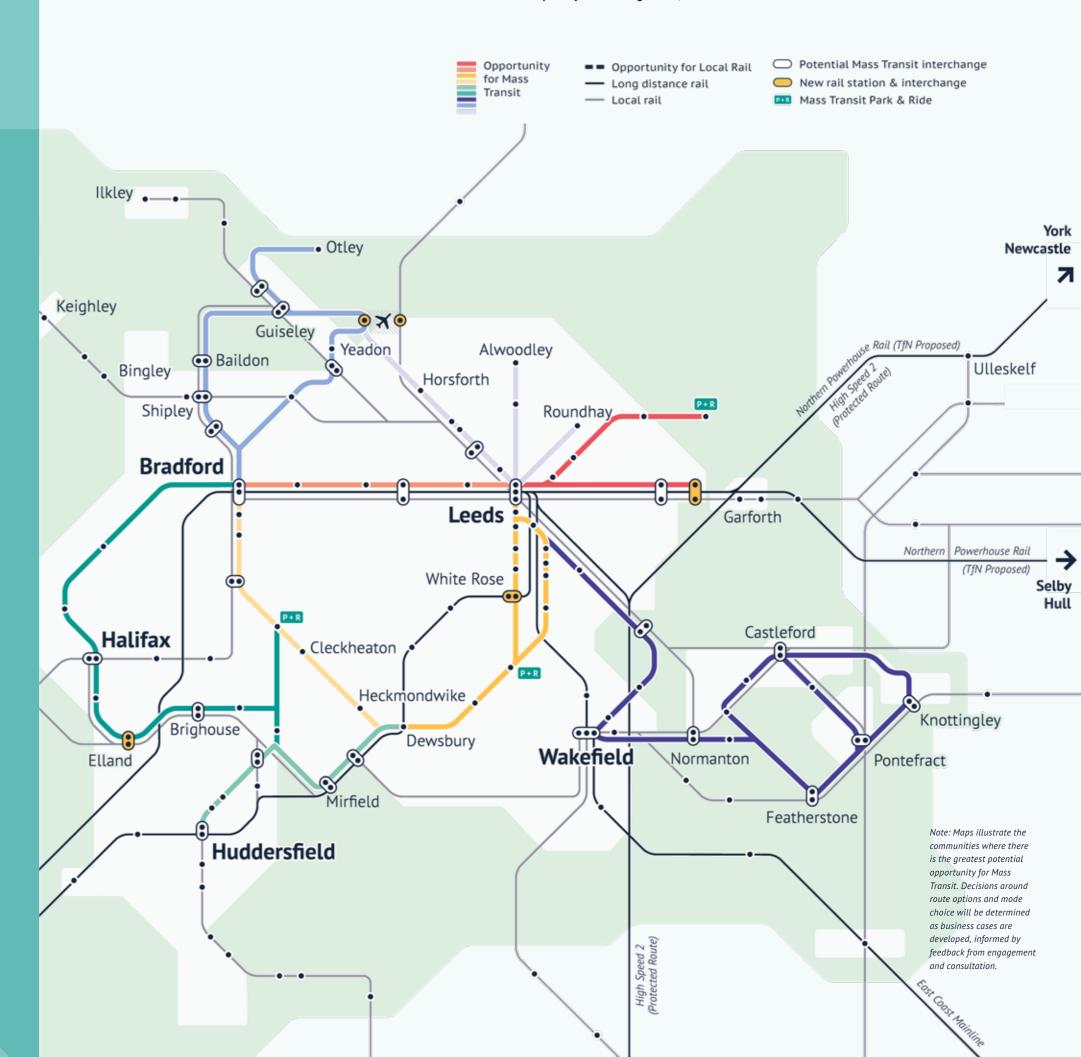
- Giving business more confidence to invest in an area.
- Kick-starting development and regeneration of undeveloped or long-vacant sites.
- Supporting population growth in areas previously in decline.
- Making transport stops places that are attractive to locating a business.
- Helping give an area a buzz.

Our 2040 West Yorkshire Mass Transit vision

We set out in the following pages a summary of the case for Mass Transit in each of the following parts of West Yorkshire

	East Leeds	p.32
	Bradford – Leeds	p.34
	South Leeds – Dewsbury	p.36
	Bradford – Dewsbury	p.38
	Huddersfield – Dewsbury	p.40
•	Bradford – Halifax	p.42
•	Wakefield and Five Towns	p.44
	Bradford and North West Leeds	p.46
	North Leeds	p.48
•	Leeds city centre	p.50

As well as taking feedback on the draft vision into consideration, there has been further consideration of engineering feasibility.



to get to work

deprived communities

in England



Leeds

East Leeds is a rich patchwork of wellpopulated areas and diverse communities including priority areas for economic support and regeneration.

Harehills is an older area of the city with large amounts of high occupancy terraced housing, resulting in one of the densest populations in West Yorkshire. St James's University Hospital is close to Harehills and is one of the largest hospitals in the North. Nearby, Seacroft and Cross Green are priority areas for economic support and regeneration.

The area is primed for further residential growth, with new communities at Manston Lane and in the East Leeds Extension. The area is a key employment zone with hubs at Seacroft, Cross Gates and Thorpe Park and the Aire Valley Enterprise Zone. Thorpe Park alone will support 7,000 houses and 19,000 jobs. The area is a key employment zone with hubs at Seacroft, Cross Gates and Thorpe Park supporting retail and commercial jobs, and the Aire Valley Enterprise Zone.

don't have access

to a car or van

Local communities generate a lot of local travel and key arterial routes into central Leeds from North Yorkshire and beyond pass through East Leeds. High levels of car traffic lead to congestion and pollution. East Leeds has some of the highest bus use in Leeds, but services are delayed by congestion. Trains from Cross Gates into Leeds are often overcrowded during rush hour.



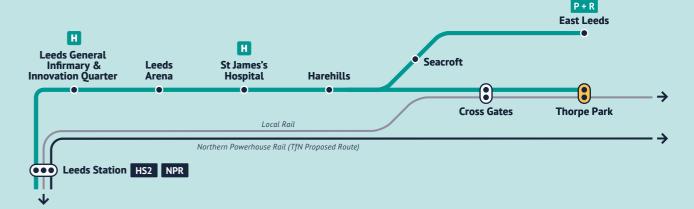
Connect new & existing housing in East Leeds to the city centre.



Provide new public transport opportunity to communities in need of economic support.



Park & Ride for longer distance trips and interchange with rail at Thorpe Park.



Note: HS2 subject to further study

Potential Places to connect by Mass Transit

Opportunity for Mass Transit Northern Powerhouse Rail (TfN Proposed)

- Railway New rail station & interchange

Advanced Bus Rapid Light Rail / Tram Bus

Shortlisted

Transit

Ultra Light Rail

Tram-Train

Train

Shortlisted Shortlisted Parked Parked Parked

Leading technology

With the capacity it can offer, and the opportunity to integrate into regenerated communities and new developments, Light Rail/Tram is the leading option.

Shortlisted technology will be considered

Parked

technology unlikely to be appropriate but will be re-assessed through later development stages

Mass Transit will provide fast, high capacity connectivity, linking areas of economic need, new employment sites, areas of new housing. It would improve links to St James's Hospital.

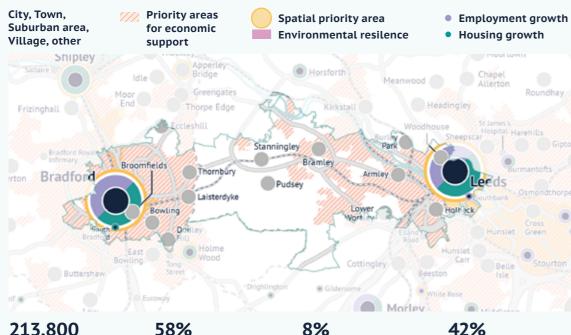
With priority over traffic, Mass Transit would be an attractive alternative to car travel, including Park and Ride for longer distance trips from North Yorkshire and York heading to Leeds city centre.

Railway stations at Cross Gates, Garforth and East Garforth offer services to Leeds city centre. The new railway station at Thorpe Park would provide access to the local employment growth area, and interchange with Mass Transit.

Buses would continue to be important for East Leeds with routes recast to feed and integrate with Mass Transit.

New connections to the cycle superhighway route on A64 would provide a safe protected space. Local cycle connections would enable cycling to be a convenient option to access Mass Transit services.

Bradford - Leeds



213,800 people live between

Leeds and Bradford

58%

live within 20% most deprived communities in England

42%

use public transport of households to get to work don't have access to a car or van

Leeds and Bradford city centres are the largest centres of employment in West Yorkshire. The eight miles between the city centres are almost entirely built-up with a dense, high population.

Armley and Wortley close to Leeds city centre and Laisterdyke close to Bradford city centre are priority areas for economic support and regeneration. The communities in the corridor have a number of employment sites including at Stanningley.

Bradford's Southern Gateway is a major new development area earmarked as a site for a Northern Powerhouse Rail station, as well as new housing, employment and health infrastructure opportunities.

New housing and employment growth is planned elsewhere: a large urban extension planned at Holme Wood, and at many smaller sites between the two city centres. There will be new employment opportunities as Leeds city centre grows to the south and west.

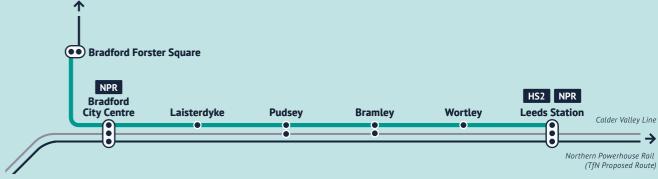
The corridor is served by the longer distance Calder Valley railway line, which experiences overcrowding. The Bradford ring road (A6177) and Leeds ring road (A6120) both pass through the area. There is congestion at key junctions such as Dawsons Corner.

Bus services connect the city centres and the communities between, but are delayed by congestion.





Connect the Bradford Southern Gateway City Centre extension to employment growth areas.



further study Opportunity for Mass Transit NPR Northern Powerhouse Rail (TfN Proposed) **Advanced Bus Rapid** Bus

Shortlisted Shortlisted

Transit

Light Rail / Tram Shortlisted

Potential Places to connect by Mass Transit

Ultra Light Rail Parked

Tram-Train

Train

Shortlisted Shortlisted

Leading technology

Note: HS2 subject to

With the capacity it can offer, and the opportunity to integrate into regenerated communities and new developments, Light Rail/Tram is the leading option.

Shortlisted technology will be considered

Parked technology unlikely to be appropriate but will be re-assessed through later development stages

Mass Transit would provide frequent, high-capacity local connections between communities within the corridor, and the proposed Bradford Northern Powerhouse Rail (NPR) and Leeds NPR/HS2 stations. Mass Transit would link the areas of high demand and economic need with new employment and housing sites.

Transport for the North's NPR proposal would deliver the fast city centre to city centre connectivity, with journey times less than 10 minutes. Via the city centre, Mass Transit would connect the Bradford NPR station to Forster Square station. The Calder Valley line would serve longer distance journeys to Halifax, Hebden Bridge and beyond.

Buses would continue to be important for the communities in the corridor, with services recast to feed and integrate with Mass Transit

Further investment in facilities for cyclists would build on the success of the Leeds-Bradford Cycle Superhighway. Local cycle connections would enable cycling to be a convenient option to access Mass Transit services.

South Leeds – Dewsbury



37

Priority areas for economic support



- Employment growth
- Housing growth

Stanningley

Bramley

Bramley

Armley

Pudsey

Lower

Holbeck

Southpank

Elland

Road

Hunslet

Carr

Belle
Isle

White-Rose

Morley

Middleton

Barrey

Carr Gat

220,400

people live between Leeds and Dewsbury

eckmondwike

46%

live within 20% most deprived communities in England 7%

of journey to work by public transport

35%

of households don't have access to a car or van The area between Leeds and Dewsbury includes the towns of Batley, Morley and Tingley, as well as suburbs of Leeds such as Beeston. Hunslet and Middleton.

Dewsbury is a historic market town with a rich industrial past. Many of the communities between Leeds and Dewsbury are in need of economic support and regeneration. These include Hunslet, Beeston, Belle Isle and Batley, as well as parts of Dewsbury.

The M62 and M621 both cut through and sever the area. Leeds South Bank, including the HS2 station, is a Spatial Priority Area. South of the M62, North Kirklees is a Spatial Priority Area with housing and employment growth planned. Opportunities for employment and housing growth also include Tingley, Morley and Middleton.

There are high numbers of car trips, particularly from the M62 and M621 into Leeds and Dewsbury. Bus is the main public transport mode for local trips, with the trans-Pennine rail route providing fast connectivity from Dewsbury to Leeds. As a result of the congestion, the corridor has slow and unreliable bus journeys. While there are buses that run from Leeds to Dewsbury, the bus network in the Leeds suburbs is focused on the city centre. There are local routes centred on Dewsbury.



Connect new housing in South Leeds and North Kirklees to employment centres in Leeds and Dewsbury.



Provide faster and more reliable local public transport.



Park & Ride on the M62 at Tingley, to cater for longer distance trips to Leeds.



Bus Advanced Bus Rapid Tram Ultra Light Rail Tram-Train Train

Shortlisted Shortlisted Parked Parked Parked Parked

Leading technology

With the capacity it can offer, and the opportunity to integrate into regenerated communities and new developments, **Light Rail/Tram** is the leading option.

Shortlisted technology will be considered

Parked technology unlikely to be appropriate but will be re-assessed through later development stages Rail will be the quickest way to travel between Dewsbury and Leeds city centre. Railway stations at Batley and Morley offer services to Leeds city centre and to Dewsbury. A new railway station at White Rose would provide access to the local employment growth area, and interchange with Mass Transit.

Mass Transit would provide fast, high capacity local connectivity, linking areas of high travel demand, economic need, new employment sites, and new housing. Park and Ride at the M62 Tingley junction to Leeds city centre will cater for trips from the motorway network.

Buses would continue to be important for South Leeds and for Dewsbury, supported by the bus priorities being introduced. Routes would be recast to feed and integrate with Mass Transit.

Local cycle connections would enable cycling to be a convenient option to access Mass Transit services.

With priority over traffic, Mass Transit would be an attractive alternative to car travel and could supplement and enhance existing park and ride provision.

Bradford - Dewsbury

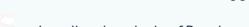


39

Priority areas for economic support

Spatial priority area
Environmental resilence

Employment growth Housing growth





220,900

people live between Bradford and Dewsbury

50%

live within 20% most deprived communities in England

5%

of journey to work by public transport

33%

of households don't have access to a car or van As well as the suburbs of Dewsbury and Bradford, the corridor includes the towns of Cleckheaton, Gomersal and Birstall.

Much of South East Bradford and communities such as West Bowling, East Bierley and Holme Wood are in need of economic support and regeneration. Bradford city centre is an important centre of employment, as well as cultural, leisure and other services. Dewsbury is a centre of employment, as are the intermediate towns.

This corridor includes a number of growth areas including M606, Holme Wood, Dewsbury Riverside and North Kirklees Growth Zone.

The area is divided by the M62. Arterial routes serving Bradford city centre experience high levels of congestion, as do other routes throughout the area. While rail routes pass through the area, they do not cater for movements within it. There are bus services throughout the area, but only the Bradford suburbs have a high frequency. Dewsbury and Bradford offer bus rail interchanges.



Support redevelopment and regeneration in Bradford Southern Gateway to the North Kirklees Growth Zone.



Enhance public transport between Leeds and Cleckheaton/ Heckmondwike.



Provide a Park & Ride on the M62 at Chain Bar junction, for longer distance trips. Better connections to Bradford and Dewsbury.



Potential Places to connect by Mass Transit

Opportunity for Mass Transit

- Railway

NPR Northern
Powerhouse
Rail
(TfN Proposed)



Leading technology

Choice of technology would need to consider likely demand, revenue and benefits, as well as the implementation costs

Shortlisted technology will be considered

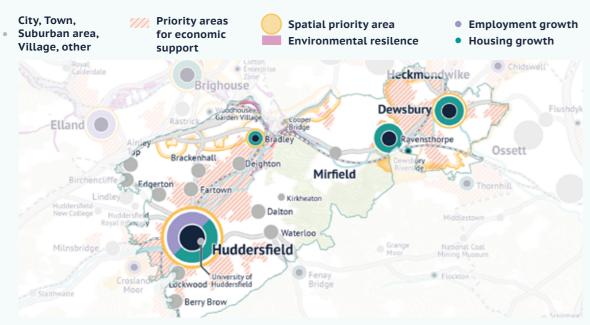
Parked technology unlikely to be appropriate but will be re-assessed through later development stages Mass Transit would provide fast, high capacity connectivity, linking areas of economic need, new employment sites, and areas of new housing. The Park and Ride sites on the M62 at Chain Bar and at Odsal Top would provide onward connections to Bradford, Dewsbury and Leeds.

Rail would provide fast connectivity to Leeds and Manchester. Mass Transit would interchange with rail and Northern Powerhouse Rail in Bradford with enhanced trans-Pennine rail services at Dewsbury, and link the two Bradford stations. Buses would continue to be important through the corridor. Routes would be recast to feed and integrate with Mass Transit.

Local cycle connections would enable cycling to be a convenient option to access Mass Transit services. Greenways and walkways would provide additional pedestrian access. Mass Transit will not lead to a reduction in the provision for cyclists.

With priority over traffic, Mass Transit would be an attractive alternative to car travel.

Huddersfield – Dewsbury



166,600

people live between Huddersfield and Dewsbury 44%

live within 20% most deprived communities in England

Deighton & 33%

Fartown are in the top 10% deprived areas for education in England

of households don't have access to a car or van

Midway between Leeds and Manchester, Huddersfield is the biggest town in Kirklees. Dewsbury is a historic market town with a rich industrial past. This corridor covers the densely-populated urban valleys, bounded by steep hills. Average household income in the corridor is lower than both national and regional averages.

People in communities within the corridor, including in Deighton, Fartown and Elland, have low employment and skills prospects, low household income, and low car ownership. Several are within the top 10% of most deprived communities in the country. Many job opportunities rely on car access and are poorly served by other transport options.

Housing growth is focused around Bradley, Mirfield and Huddersfield. There are also development sites at Brighouse, and Dewsbury Riverside. Key employment sites include Elland, Clifton Enterprise Zone and Cooper Bridge.

Huddersfield is a major destination. There are high levels of peak-time traffic and congestion on the M62 and roads in and out of Huddersfield, including the A640, A629, A641, A62 and A616. The railway stations of Deighton, Mirfield and Ravensthorpe provide connectivity to Dewsbury and Huddersfield. Bus services are slow and unreliable and are focused on Huddersfield and Dewsbury town centres.



Support redevelopment and regeneration in Bradley, Cooper Bridge and Dewsbury Riverside.



Enhance public transport between and Dewsbury.



Integrate and complement the Trans Pennine Route upgrade programme.



Potential Places to connect by Mass Transit

Opportunity for Mass TransitRailwayNorthern Powerhouse Rail (TfN Proposed)New rail station & interchange

Bus Advanced Bus Rapid Light Rail / Tram Ultra Light Rail

Shortlisted Shortlisted Parked

a Light Rail Tram-Train

ram-Train Train

ortlisted Shortlisted Parked Shortlisted Parked Shortlisted

Leading technology

Choice of technology would need to consider likely demand, revenue and benefits, as well as the implementation costs.

Shortlisted technology will be considered

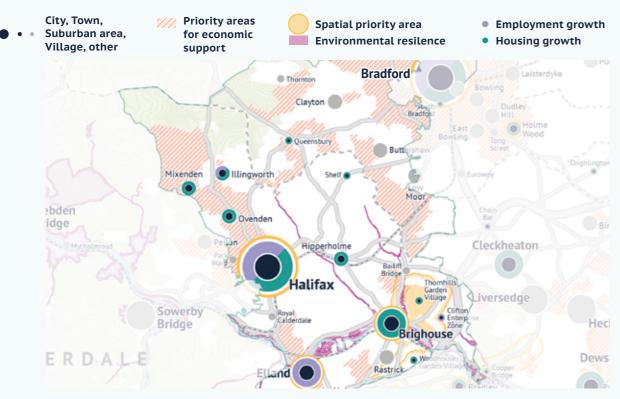
Parked technology unlikely to be appropriate but will be re-assessed through later development stages Rail would be the quickest way to travel between Huddersfield and Dewsbury and beyond through the Transpennine Route Upgrade.

Mass Transit would provide fast, high-capacity connectivity, linking areas of economic need to employment opportunities and areas of new housing.

Buses would continue to be important through the corridor. Routes would be recast to feed and integrate with Mass Transit. Local cycle connections would enable cycling to be a convenient option to access Mass Transit services.



Bradford – Halifax



226,000

people live between **Bradford and Halifax** 45%

live within 20% most deprived communities in England

Ovenden, Mixenden, Park Ward and South Bradford are in the top 10% most deprived areas don't have access

30%

of households for education in England. to a car or van

As well as the western suburbs of Bradford. this corridor includes Halifax, Elland and Brighouse. Densely populated urban areas are concentrated in valleys, bound by steep hills.

Household income in the corridor is lower than both national and regional averages and just over half of the population is employed. Ovenden, Mixenden and Park Ward have low employment and skills prospects, low household incomes and car ownership. They are within the top 10% of the most deprived communities in the country. Many job opportunities rely on car access.

Housing development is planned in west Bradford. There are employment growth areas in Halifax, Elland, Clifton Enterprise Zone and Brighouse. There is traffic congestion, particularly on the M62 and at Stump Cross and Hipperholme crossroads. The A641, A629 and A58 are also congested. Traffic levels and congestion contribute to poor air quality.

Rail services link Halifax to Bradford and Huddersfield, and Brighouse to Dewsbury/ Leeds. Focused on north-south routes on the A629 and A641 and east-west on the B6145. local bus services are slow and unreliable.

A new transport system for a greener, more inclusive and better connected West Yorkshire







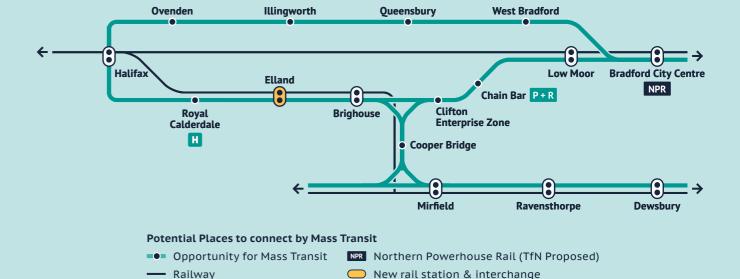
Connect housing and employment growth areas in Elland, Brighouse and the Royal Calderdale Hospital to Bradford and Halifax.



Park & Ride on the M62 at Chain Bar, for longer distance trips, better connections to Bradford and Dewsbury.

Train

Parked



Ultra Light Rail

Shortlisted

Leading technology

Bus

Shortlisted

Advanced Bus Rapid

Transit

Shortlisted

Choice of technology would need to consider likely demand, revenue and benefits, as well as the implementation costs.

Shortlisted technology will be considered

Parked technology unlikely to be appropriate but will be re-assessed through later development stages

Mass Transit would link existing employment, regeneration and development sites and major hospitals to the new and existing housing areas. It would provide an alternative to the car to the communities within the corridor.

Light Rail / Tram

Parked

Rail would provide connectivity between Halifax, Bradford, Dewsbury and Leeds. Mass Transit would interchange with rail and Northern Powerhouse Rail in Bradford, and with the Calder Valley railway line at Low Moor, Halifax and at a new Elland railway station.

Buses would continue to be important through the corridor. Routes would

be recast to feed and integrate with Mass Transit.

Tram-Train

Shortlisted

Local and strategic cycle connections and routes such as the Great Northern Railway Trail would enable cycling to be a convenient option to access Mass Transit services. Greenways and walkways would provide additional pedestrian access. Options will be considered for Mass Transit to use the disused Queensbury railway tunnel, although the initial priority is that it is retained and becomes a walking and cycling route.



42 43

210,100

people live between Leeds, Wakefield and the Five Towns 42%

live within 20% most deprived communities in England

6%

of journey to work by public transport

31%

of households don't have access to a car or van

South of Leeds towards Wakefield are Hunslet, Belle Isle, Cross Green, Rothwell and Woodlesford, each high density residential employment areas, separated by open space.

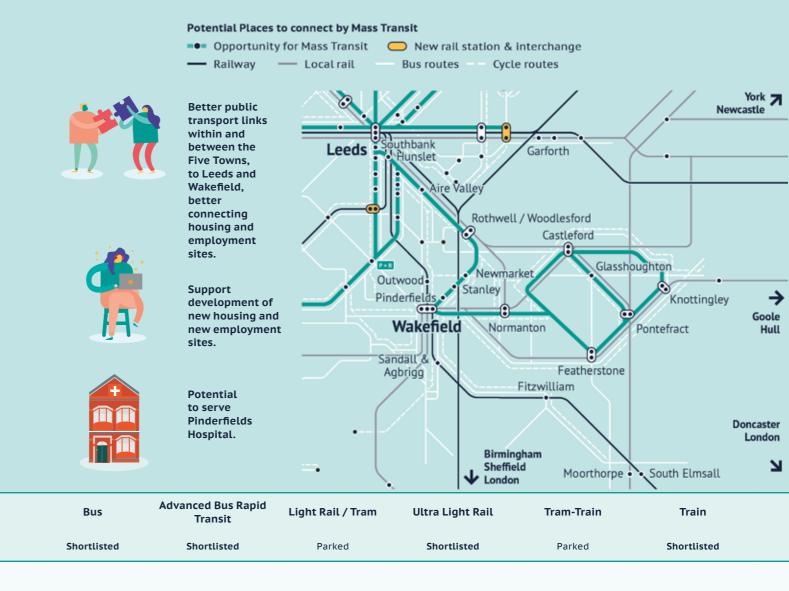
The city of Wakefield is an important commercial centre. The Five Towns – Pontefract, Castleford, Normanton, Knottingley and Featherstone – each have their own distinct identity. Throughout the area are communities with limited public transport access which are prioritised for economic support.

Employment growth is focused around Cross Green, Leeds Valley Park and the M62 corridor. Eastmoor (City Fields) in Wakefield is earmarked for new housing, as are Castleford, Knottingley and Featherstone and a number of sites located along the M62 corridor.

Road congestion is a problem in south Leeds and north of Wakefield and, around M62 Junction 31, and Castleford and Pontefract town centres. Air quality is a problem, with Air Quality Management Areas along the M62, as well as at Pontefract and Castleford town centres.

Wakefield has regular rail services from
Westgate and Kirkgate stations, but while the
Five Towns are linked to Leeds by rail, services
are relatively slow and infrequent. As well as
linking the Five Towns, bus routes link the area
to Leeds and Wakefield city centres.

A new transport system for a greener, more inclusive and better connected West Yorkshire



Leading technology

Choice of technology would need to consider likely demand, revenue and benefits, as well as the implementation costs, and future role of rail.

Shortlisted technology will be considered

Parked technology unlikely to be appropriate but will be re-assessed through later development stages Coupled with significant investment in the local rail network between Castleford and Leeds, Mass Transit can connect Five Towns together and into the employment and housing growth areas in Wakefield on the higher demand corridors which are currently dominated by car travel.

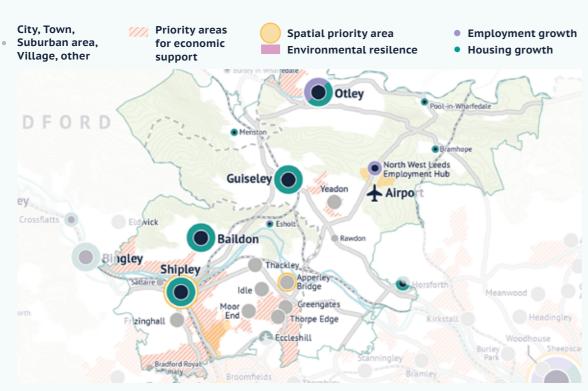
Rail would continue to be the quickest way to travel between Leeds, Wakefield and East/South Yorkshire. Seamless interchange between rail and Mass Transit will be essential in Wakefield and within the Five Towns railway stations.

Buses would continue to play a key role across the district. Routes would be recast to feed and integrate with Mass Transit and would be developed to enhance bus services, particularly around the South East Wakefield, with new provision for cross border bus services.

Local cycle connections would enable cycling to be a convenient option to access Mass Transit services.

With priority over traffic, Mass Transit integrated with Rail, Bus and cycling networks, would be an attractive alternative to car travel.

Bradford and North West Leeds



193,500 people live in this

area

27%

live within 20% most deprived communities in England

Bradford & Shipley are in the top of households 10% most deprived areas don't have access

for education in England to a car or van

24%

The northern suburbs of Bradford, Shipley and the Saltaire World Heritage site, Yeadon, Guiseley, Menston and Otley, and Leeds Bradford Airport are all part of the corridor.

While some communities in the north of the corridor are relatively affluent, many in the northern suburbs of Bradford, such as Manningham, Greengates and Shipley need support to thrive and regenerate. They have low employment and skills prospects, low household income and low car ownership.

Leeds Bradford Airport is a centre of employment growth, and a major economic hub. The Shipley Canal corridor, Baildon, Menston and Otley are earmarked for growth. Employment and housing development is proposed at Apperley Bridge and Esholt. Housing developments are also proposed in Otley, Horsforth, Guiseley and Shipley.

While communities are characterised by low car ownership, there are high levels of congestion on arterial roads to Bradford city centre (such as A650 which also provides access to Manningham and Shipley), on the A65 and in local centres such as Otley. High frequency bus routes link northern Bradford to the city centre. Otley and Menston are also linked by bus to Leeds. The area is served by local rail, with connections to Bradford and Leeds city centres.



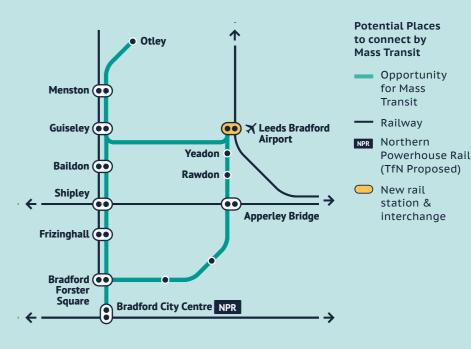
Be a fixed link between Bradford and the Airport.



Link to Jahour markets in Manningham, Idle and Eccleshill and support redevelopment and regeneration, in Bradford, Otley and the Airport.



Link Bradford railway stations to provide seamless and integrated cross-city public transport to Northern Powerhouse Rail.



Advanced Bus Rapid Bus Light Rail / Tram **Ultra Light Rail** Tram-Train Train Transit Shortlisted Shortlisted Shortlisted Shortlisted Parked Shortlisted

Leading technology

With the capacity it can offer, and the opportunity to integrate into regenerated communities and new developments, Light Rail/Tram is the leading option for north of Bradford. For the eastern option, topography means **Advance Bus Rapid Transit** appears more appropriate.

Shortlisted technology will be considered

Parked technology unlikely to be appropriate but will be re-assessed through later development stages

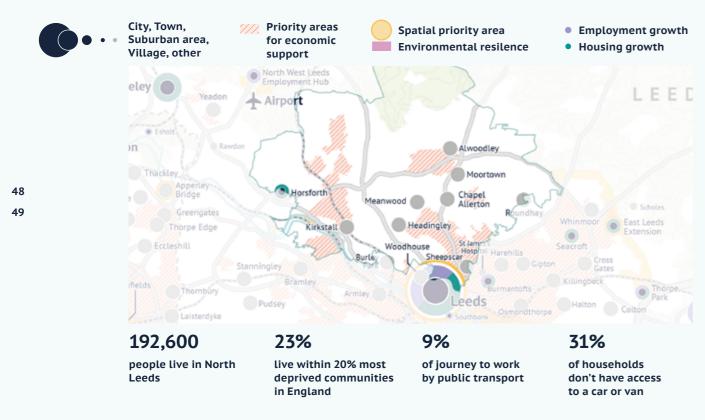
Local rail will continue to be important, linking the Aire Valley with Bradford and Leeds city centres. It would link Bradford railway stations with Mass Transit, wider rail services and potentially Northern Powerhouse Rail. There is potential to reinstate the railway between Menston and

Mass Transit can provide fast, high capacity connectivity, linking areas of economic need to employment opportunities and to areas of new housing. There is the potential to improve links from Bradford and Otley to the Airport. With priority over traffic, Mass Transit would be an attractive alternative to car travel.

Buses would continue to be important through the corridor. Routes would be recast to feed and integrate with Mass Transit.

Local cycle connections would enable cycling to be a convenient option to access Mass Transit services. Greenways and walkways would provide additional pedestrian access.

North Leeds





Mainly residential, North Leeds is an area of contrasts. It includes thriving areas such as Headingley and Chapel Allerton and suburbs such as Roundhay and Alwoodley, as well as Chapeltown, Holt Park and Kirkstall, which are priority areas for economic support and regeneration.

It includes the campuses of the University of Leeds and Leeds Beckett University. Inner city areas such as Kirkstall, Hyde Park and Chapeltown are dominated by high-density, low-income housing.

Employment growth is focused on the City Centre with commercial/financial services and the Innovation Quarter housing the universities.

To the west of the area, there are development sites in Horsforth, Kirkstall and the Airport.

The Ring Road (A6120) and radial routes including the A61, A660 and A65 are congested. The area is served by high frequency bus routes. At peak time, bus and rail services are overcrowded.

Rail in the area is restricted to only a few communities, with a fast but relatively low-capacity link, which is overcrowded at peak times. The main radial routes along the A65, A660 and A61 connect to communities north of the city such as Otley and Pool. Frequently congested, bus journey times on these roads are slow and unreliable.



Improved links to the hospitals, universities, the Airport, and employment.



Better public transport links and greater capacity to the jobs and services in central Leeds, Leeds City Station, HS2 and Northern Powerhouse Rail.

Parked



Provide attractive high quality and reliable sustainable transport connections, reducing reliance on cars.

Parked



Leading technology

Shortlisted

Transit

Shortlisted

With the capacity it can offer, and the opportunity to integrate into regenerated communities and new developments, Light Rail/Tram is the leading option.

Shortlisted technology will be considered

Parked technology unlikely to be appropriate but will be re-assessed through later development stages Mass Transit would provide fast, attractive, reliable and high capacity connections to the city centre, the Innovation District and Leeds General Infirmary. There are opportunities for Park & Ride, at Alwoodley for example.

Shortlisted

It would provide interchange in Leeds with HS2 and Northern Powerhouse Rail, as well as existing rail services. Bus services would be recast to feed and complement Mass Transit. It would be integrated with local cycling and walking networks.

For most communities in North Leeds bus is the only available form of public transport. Bus is at the heart of our plans. Post Covid-19, bus networks will need be revitalised, potentially with additional infrastructure to reduce bus journey times and improve journey reliability. With priority over traffic, Mass Transit would be an attractive alternative to car travel.

Shortlisted

The immediate priority to improve access to the Airport is a new Airport Parkway railway station, which is currently in development. In time there may be the opportunity for extension of Mass Transit to the Airport.

Town and City Centres



Connect communities to intercity and longer distance rail



Increase transit capacity to get workers and visitors into town and city centres



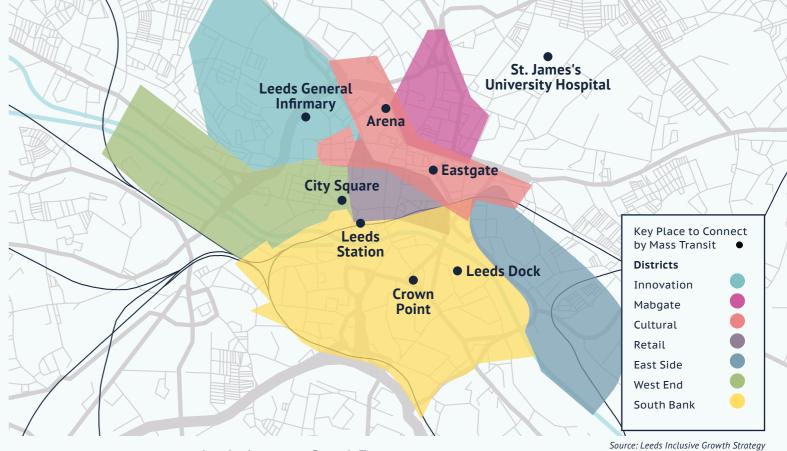
Connect the hospitals, colleges and universities to transit hubs

Our urban centres are engines for inclusive growth. They have the greatest concentrations of employment and social opportunity and are the most sustainable locations for new jobs, homes and leisure. Utilising their unique attributes and ensuring we maximise their performance to the benefit of all residents, communities and businesses is central to the success of our town, city and regional economies, especially as their role evolves in response to wider economic and social change. At the heart of this is ensuring that our urban centres have the right connectivity.

Across West Yorkshire, the goal is to make town and city centres places of inclusive opportunity for all residents. Mass Transit will build on the recent public transport investments, connecting communities to these hubs of economic and social opportunity.

Bradford is developing a major cultural and entertainment quarter to the west of the city centre and is UK City of Culture 2025. Bradford has exciting plans for further city centre pedestrianisation, increase green space in the city centre and improve access to Bradford Interchange, as well as create a cross-city public transport corridor. Mass Transit will offer the opportunity to create new links between the city's two railway stations, as well as connect the city centre to neighbouring areas of housing and employment growth.

Leeds city centre is at the heart of the largest city in the region. It is home to nationally significant financial, legal, health and creative clusters, and is a regional focus for retail, leisure, culture and the arts attracting millions of visitors annually.



Leeds city centre Growth Zones

Leeds city centre has been transformed in recent years as a place for people, with high quality public realm and green infrastructure, commercial, residential and cultural developments, with a huge pipeline of further investment.

Leeds Station is one of the busiest stations in the north, and there are plans to double its capacity by 2043. Adjoining this it is planned that City Square will become a world class gateway and civic space, together becoming a focal point for movement in the city.

The regeneration of South Bank is well underway, with mixed use developments and key schemes including the country's largest new urban park and the regeneration of Temple Works to accommodate a new British Library North.

High quality office development has reshaped the West End as a new concentration of employment and economic activity, with more investment planned including two new state-of-the art wings at Leeds General Infirmary and an Innovation District centred on the hospital and the city's globally significant higher education teaching and research institutions.

Development of Quarry Hill and major new residential and mixed-use developments are redefining the eastern edge of the city centre. On the northern fringes opportunities are emerging to build connections with more established neighbourhoods in East Leeds.

53

Accelerating delivery of Mass Transit

Mass Transit will be expensive to construct, but also deliver substantial benefits making West Yorkshire greener, more inclusive and better connected.

Funding

West Yorkshire Mass Transit forms a central component of the West Yorkshire Connectivity Infrastructure Plan. Published by Government in November 2021, the Integrated Rail Plan confirms the funding for West Yorkshire Mass Transit.

66 00

We commit today to building a Mass Transit System for Leeds and West Yorkshire, and to supporting West Yorkshire Combined Authority over the long term to ensure that this time, it gets done. That work begins now, with £200m of immediate funding to plan the project and start building it, with the first services operational in the second half of this decade.

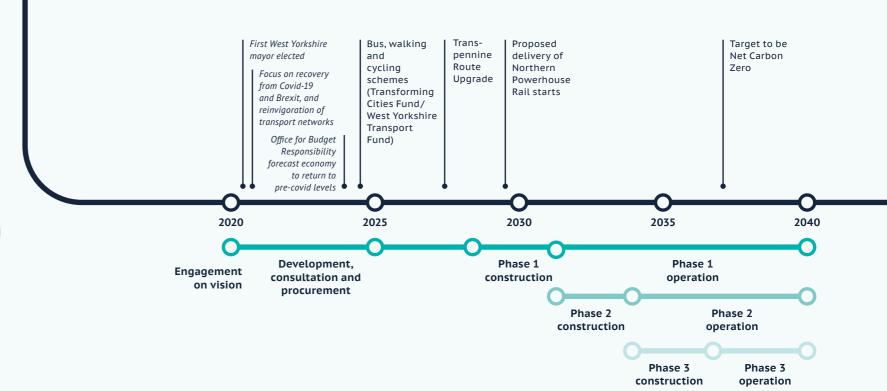
Read the Integrated Rail Plan online by clicking here.

Phased delivery

The Vision sets the pipeline for the development of Mass Transit across West Yorkshire. As a pipeline, delivery of the whole network will take time and will be phased. As the most travelled area in West Yorkshire, Leeds city centre will be at the heart of the system and will be served by early phases. We will continue to work in partnership with Government to deliver our Mass Transit ambition.

Our priorities are for a first phase of the network which:

- Has a strategic rationale and is operable as a standalone system.
- Offers value for money and is financially sustainable and affordable.
- Allows for network expansion and fits with our overall vision for transport set out in the Connectivity Infrastructure Plan.
- Works closely with local communities and economic regeneration partners through public and stakeholder engagement to develop an integrated transport network with Mass Transit at its core.



Our ambition is to have 'spades in the ground' for construction of phase 1 within the 2020s.

We anticipate that the delivery of the first phase will be based around the corridors identified below, but so that no part of West Yorkshire is left behind development work will continue on all transit corridors.

Subject to Government funding decisions, we anticipate commencing public engagement on route and technology

choices during late 2023 / 2024. We want construction to start during the 2020s. The timing, shape and form of the Mass Transit system will be subject to engineering feasibility, environmental assessment, and public and community engagement, and stakeholder support of its business case, and funding availability.





What is Mass Transit?

Mass Transit is a large-scale public transport system in a metropolitan area. With its own brand and identity, typically Mass Transit would use one or more of modern high-capacity buses, trams and tram-train vehicles.

We have a bold and ambitious plan for a new form of transport for West Yorkshire. Alongside cycling and walking, and bus and rail, we see Mass Transit as essential to help our communities thrive and our economy flourish, bringing people and places closer together.

Our Vision sets out the aspiration for Mass Transit in West Yorkshire, but it is not set in stone. We will continue to work with our stakeholders and reflect the needs of local communities to evolve our approach over the coming years. Being adaptable to change will mean we are able to develop the best possible best sustainable transport outcomes for the region as our needs evolve over time.





westyorks-ca.gov.uk/mass-transit