

# Delivering Light Rail - A Green Light

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# Strategy for Light Rail/Tram Train

- Why:-
  - Fuel Prices
  - Congestion
  - Carbon
  - Electrification
  
- Wealth creation
- Growth and jobs



## DfT Business Plan

- Transport system that is an engine for economic growth, greener, safer, and improves the quality of Life
- High Speed network connecting our cities and international Gateways helping bridge the N-S divide
- Secure our railways for the future and create capacity for improving services



# Light Rail Investment Supports Growth and Jobs

Investment in Light Rail and Tram/Train will benefit:

- Business
- Regeneration
- Quality of Life in our cities



# Green Trams



- Environmentally sustainable
- low noise and emissions
- Go through existing developments, supporting and strengthening new developments
- Attracts car users reducing congestion





# High Speed Rail

## Local connections

Early introduction of Tram conversion and tram/train is required

- integral to creating the necessary capacity needed for the future development of our HS Network;
- deliver real benefits to passengers allowing increased frequencies, faster journey times and improved city centre penetration;
- will bridge the gap between local, urban rail services and optimise and capitalise on both heavy and light rail systems' assets;
- the application of light rail technology linking and connecting with existing heavy rail systems can create bigger networks at reduced capital cost freeing up capacity at mainline stations.



# The Strategic case for Light Rail - a Realistic Future

## --DfT Business Plan



### Light Rail can deliver/is

an engine for economic growth



green, safe



quality of Life



High Speed network connections



create capacity for improving services



# DfT Business Plan

## Rail

- Vision of/Secure a sustainable railway
- Franchise Reform
- Electrification
- Address the high cost of the railway
- Simplify funding and drive smart investment





# Addressing the high cost of the railway



- Tram Conversion and Tram/Train
- Technically proven; available with various power configurations which provide flexibility
- Lower cost



# Tram/Train - Improving services and capacity



## The case for Tram/Train

- Run on railway lines
- Run on streets, and pedestrian areas
- Able to operate freight and tramway on same infrastructure, improving benefits
- Tram has lower operating cost than train/ high capacity
- Create city/town centre connectivity to rail network and enable customers to get to destinations quickly
- Technically proven



## A lower cost railway

Potential Tram and Tram/Train schemes that could be brought forward	
Leeds- Harrowgate- York	Wigan-Atherton-Manchester
Walsall – Birminghamvia Duddeston	Wednesbury- Dudley- Stourbridge
Marple – Manchester	Edge Hill –Liverpool Waterfront
Stocksbridge Line	Leeds-Lower Aire Valley-Five Towns
Woodhouse- Lincoln	Bradford-Guiseley
Walsall-Wolverhampton	Dearne Valley
Leeds-Leeds Bradford Airport	

## Funding the opportunity for growth

Existing subsidy

Capital investment

Rolling Stock

Infrastructure

Capital and Revenue Flows

= Borrowing for Tram investment



## Funding the opportunity for growth

Tram and Tram Train investment

Case by Case basis

Identify projects and get on with it

Experienced industry and experts

World class



# DfT Business Plan



## Light Rail can deliver

Greater capacity



Lower cost



Smart investment



create capacity for improving services



# Thank You



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