

North Wales Rail Development

Alex Fortune | Senior Project Manager
17th April 2024

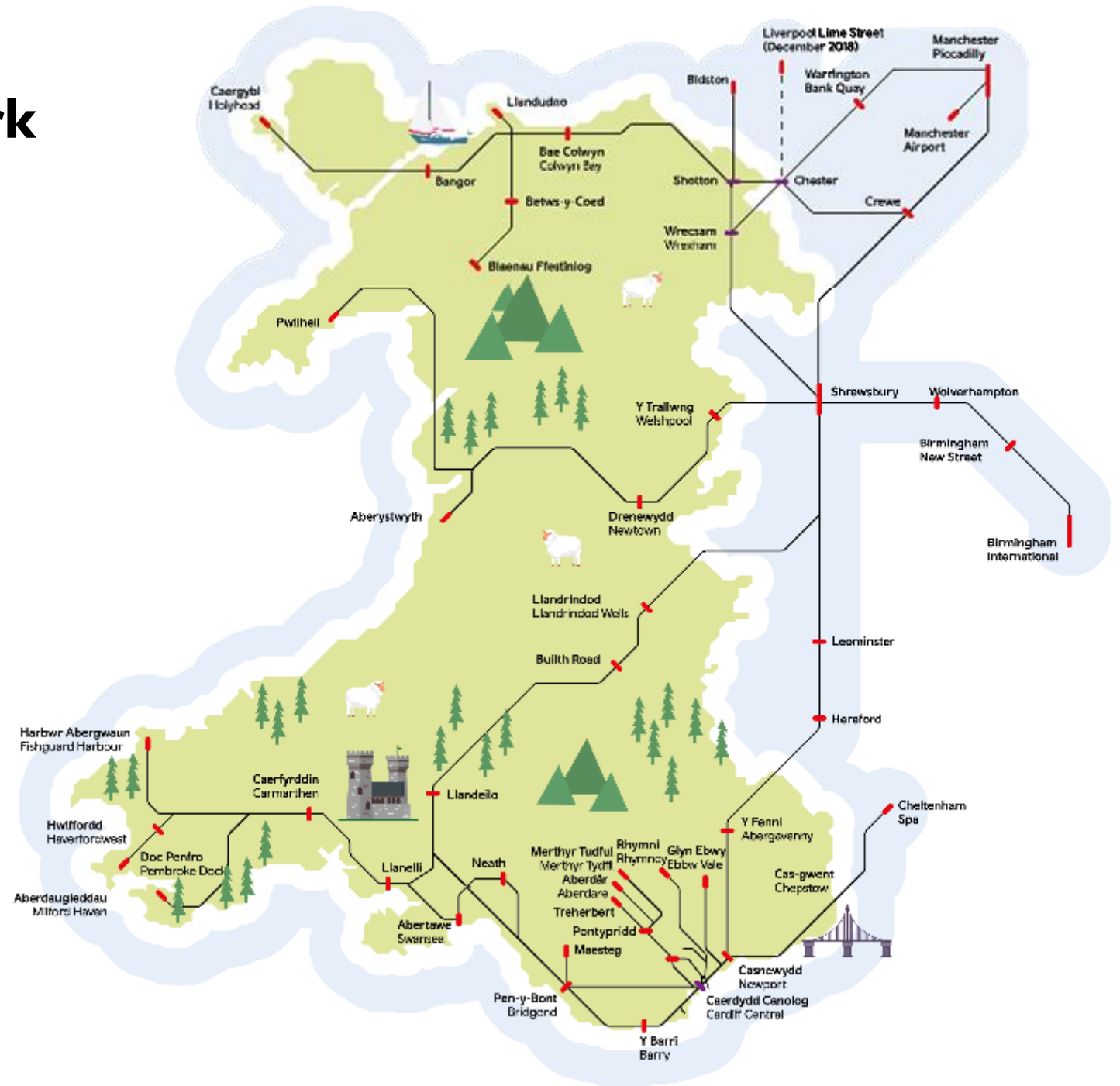


TRAFnidiaeth CYMRU
TRANSPORT FOR WALES



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TRANSPOR FOR WALES

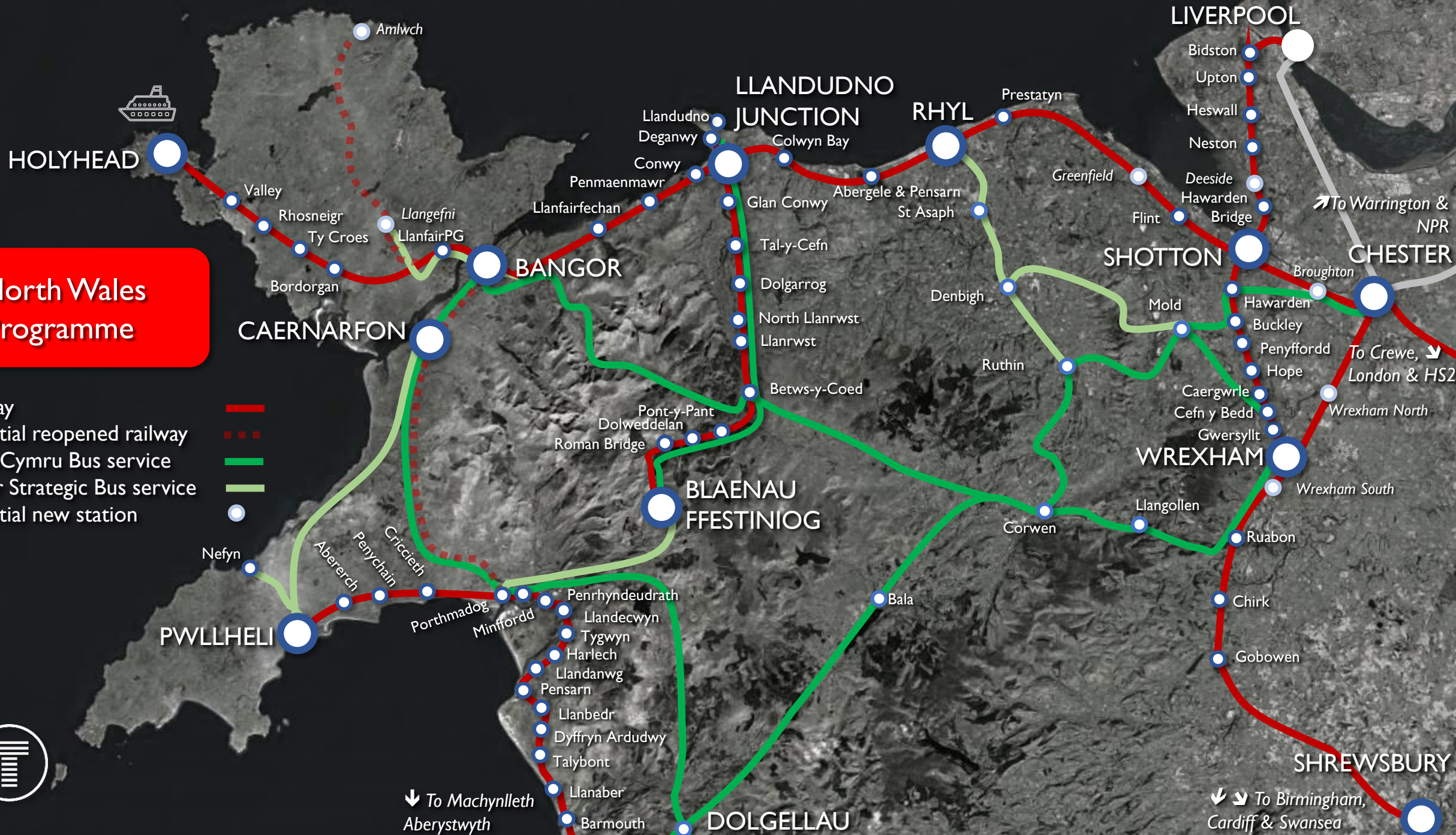
North Wales Railway network



TRAFNIDIAETH CYMRU
TRANSPORT FOR WALES

North Wales Programme

- Railway
- Potential reopened railway
- TrawsCymru Bus service
- Other Strategic Bus service
- Potential new station



↓ To Machynlleth
Aberystwyth

↓ ↓ To Birmingham,
Cardiff & Swansea

↗ To Warrington &
NPR

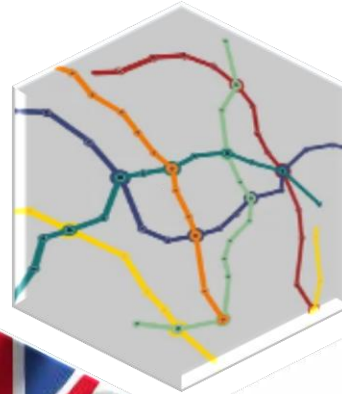
↘ To Crewe,
London & HS2

Why?

More efficient rail operations



Quicker journeys, improved network capacity and connectivity across region



Nationally Strategically economic assets for UK



Access to jobs & training including one of Europe's largest concentrations of jobs



Economic growth across North Wales and Cross border



Support transport links for 25,000 new houses



National and Regional policy alignment



Carbon savings through removal of vehicles from road



Stakeholders



Llywodraeth Cymru
Welsh Government



UK Government Wales
Llywodraeth y DU Cymru

NetworkRail



CYNGOR SIR
YNYS MÔN
ISLE OF ANGLESEY
COUNTY COUNCIL



CONWY
CYNGOR BWRDEISTREF SIRIOL
COUNTY BOROUGH COUNCIL



Cyngor
sir ddinbych
denbighshire
County Council



CYNGOR
Sir y Fflint
Flintshire
COUNTY COUNCIL



wrexham
COUNTY BOROUGH COUNCIL
CYNGOR BWRDEISTREF GŵR
wrecsam



CYNGOR
GWYNEDD
COUNTY COUNCIL



LIVERPOOL
CITY REGION
COMBINED AUTHORITY



Cheshire East
Council



WIRRAL



Cheshire West
and Chester



Growth Track
360
Connected within an hour



MC | Midlands Connect
Transport | Investment | Growth



Uchelgais Gogledd Cymru
Ambition North Wales



MERSEY
DEE
Alliance



TRANSPORT FOR THE
NORTH



Business Council
Cyngor Busnes



Cheshire and Warrington
87/1
Local Enterprise Partnership



PARC CŴDOLAETHOL ERYRI
SNOWDONIA
NATIONAL PARK



West Cheshire & North Wales
Chamber of Commerce

Together, We're Well Connected.



WEST COAST
PARTNERSHIP



Enterprise
Zones



AVANTI
WEST COAST

GB Railfreight



Merseytravel



NORTHERN



HOLYHEAD

BANGOR

LLANDUDNO

RHYL

BLAENAU
FFESTINIOG

SHOTTON

CHESTER

WREXHAM

LIVERPOOL

To Warrington &
NPR

To Crewe
& London

North Wales Projects RAIL

NORTH WALES MAINLINE



More frequent services 5tph & freight



Strategic connectivity



Improved journey time

BORDERLANDS



More frequent services & freight



Service direct to Liverpool



Improved journey time Wrexham to Liverpool 1 hour

CHESTER STATION



Increased capacity for strategic connectivity services



Contribute to City's regeneration



Improved passenger experience



DOLGELLAU

Cardiff & Swansea

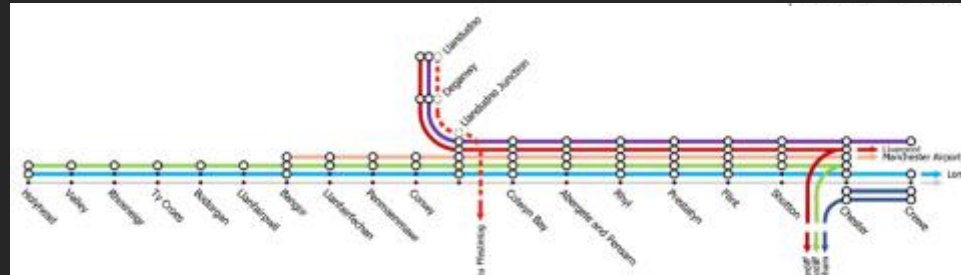
NORTH WALES MAIN LINE



- Reports:**
- 2019**
 - NW Rail Programme Strategic Outline Case WG
 - Chester City Gateway SOBC (CWaC)
 - 2021**
 - Chester Strategic Advice (Network Rail)
 - NWML Feasibility Study & SOBC (TfW)
 - 2022**
 - NWML Safer Accessibility, Capacity & Line Speed Improvement Studies (TfW)
 - 2023**
 - NW Coast Line Speed Improvement OBC (NR)
 - NWML & Chester Area Capacity Study & OBC (TfW)

NWML Services

- Requires infrastructure interventions, which include additional platform(s), crossovers, re-signalling and level crossing interventions.
- By 2043, potential for:
 - Up to 640,000 new rail journeys.
 - Up to 35,000,000 more Passenger Km.
 - Up to 13,600,000 less Car Km.





CHESTER CAPACITY



Chester capacity is key to service **reliability and connectivity** to Liverpool, Manchester, London, Wrexham, Shrewsbury & Birmingham

Wales and
Marches

Liverpool



Manchester,
Leeds and
North England



London and
Midlands



Chester Station

- Capacity issues both on track and in concourse
- Concourse improvements underway inc new gateline
- Majority of benefits achieved by Phase I services through Chester Station
- Currently working on optimising Indicative Train Service Specification (ITSS) considering wider service aspirations and potential efficiencies that could improve business case.



BORDERLANDS



Source:
https://en.wikipedia.org/wiki/Borderlands_line

Reports:

2023 – all TfW

- Borderlands OBC refresh including Demand and Cost sensitivities post review
- Traction Power update
- Rail Operations report including preferred options to progress
- Padeswood Works Survey scope

Headline findings

Positive BCRs currently being verified

- New decarbonised fleet reduce operational costs
- A 2tph service through the Loop is feasible with current signalling
- Longer-term aspiration of 4tph triggers additional works
- More efficient freight movements at Padeswood fundamental to concept of operations, including performance
- Project is forecast:
 - to add 2.5+ million trips to the network (Up to 6.8 million)
 - Support for +4,500 jobs and 9,500 accelerated/additional dwellings
 - Wrexham and Deeside have been identified as National Growth Areas



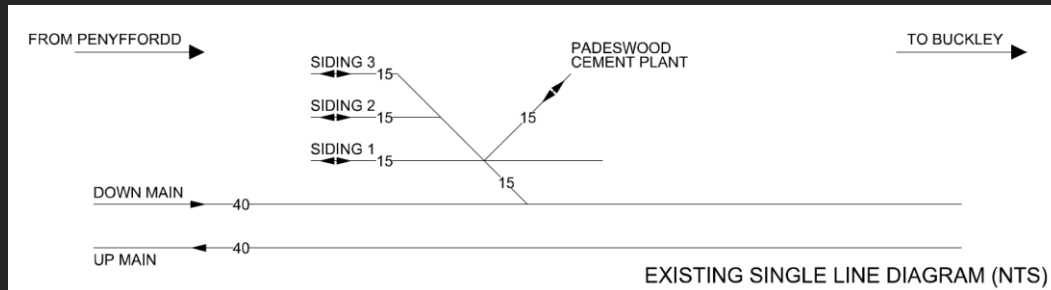
PROJECT SUMMARY

- Aspirations for further increases in both freight and passenger services
- 45 minute passenger service
- Improving reliability from historic difficulties
- Freight train currently take upto 45 minutes to shunt from the running lines into the Padeswood site
- Congested Infrastructure declaration
- NWTC Recommendation:

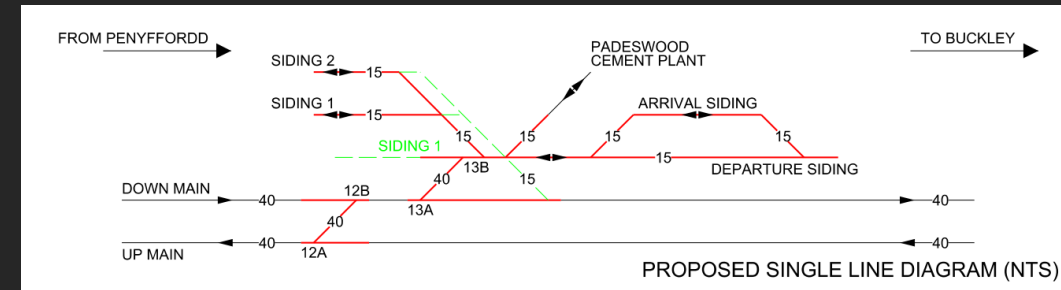
“Remove the rail capacity constraint at the Padeswood Cement Works to enable more frequent and reliable passenger services on the Borderlands line, to link north Wales to Merseyside”

- Congested Infrastructure was declared for the Wrexham – Bidston Line in 2023.
- Network Rail published their final report in July. Main recommendation is to sort out Padeswood, although signalling improvements on the route needed to achieve full aspirations of TfW and Freight operators.
- There is no funding associated with this process.

CURRENT LAYOUT



PREFERRED PROPOSED LAYOUT



STATION GATEWAY



Station Gateway Schemes

- Improved access & welcome into rail network
- Integration with bus and active travel
- support transit orientated development & sustainable regeneration



FINAL REPORT - 60 recommendations

(Rail, Buses & Coaches, Active Travel, Car & Road Transport, Integration, Planning & Management)

MENAI REPORT - 16 recommendations

RAIL (15 recommendations, 3 relating to electrification):

- Implement rail capacity improvements at and around Chester Station to enable electrification and five trains per hour, including one express service.
- Deliver electrification of the North Wales Main Line in a phased manner consistent with the infrastructure development Phases 1 to 3. To be ready for electrification, development work must be undertaken, and a business case established.
- Improve the allocation of the rail fleet in north Wales in the short term to ensure rolling stock meets user needs for the types of journey people are making and procure additional trains including an electric fleet for the North Wales Main Line in the medium term

North Wales Transport Commission

Final Report



North Wales Transport Commission

Improving the Resilience of
Connections Across the Menai Strait



NETWORK NORTH



- Led by Network Rail and Department for Transport
- TfW have been involved as a stakeholder; fortunate that NR recognise the development work to date as I've talked about earlier
- Initial thought piece submitted to Ministers, including early development work
- Waiting to hear back on this which will help mould any project

DIOLCH / THANK YOU

ALEX FORTUNE

SENIOR PROJECT MANAGER

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