



## What does the next 3.5 years of CP6 look like?



Kevin Collins
Project Director Capital Delivery – Wales & Western

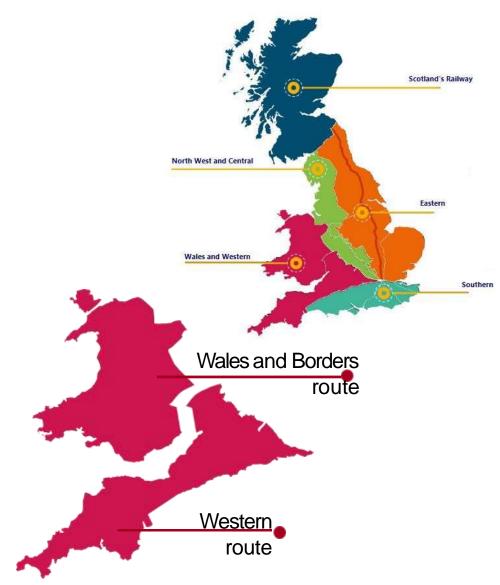


# Our Vision: Putting Passenger s First

We want to be a company that is on the side of passengers and freight users; that is easy to engage with, efficient and a dependable partner; a company people are proud to work for; instinctively recognised as an industry leader.

#### Who we are





With a 5,000-strong workforce and 2,700 miles of railway, our routes are here to serve communities and businesses of Wales, the Thames Valley, West of England and the South West Peninsula.

We transport commuters to key employment hubs including London, Cardiff, Bristol, Birmingham, Manchester and Liverpool. We directly serve London Heathrow, Europe's busiest international airport and provide connections to Cardiff, Bristol, Birmingham, Manchester, and London Gatwick airports. We support leisure and tourism in all of these areas and support critical freight services, notably aggregates, moving millions of tonnes of freight every year.

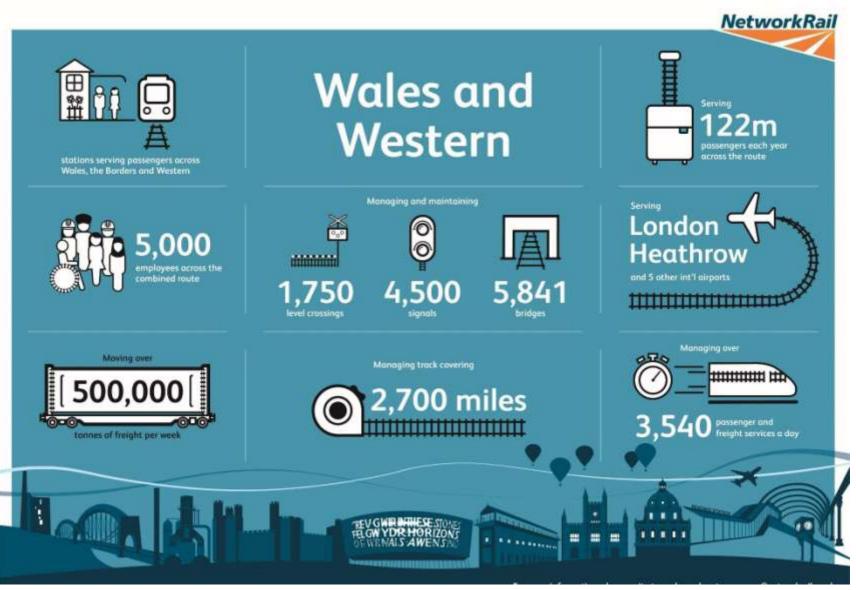
We are focussed on getting the basics right; putting the passenger first to provide a safe, reliable and high performing railway every day. Our most recent accomplishments include the successful delivery of the December 2019 timetable change - the biggest timetable changes to GWR services since 1976 and electrification between London and Cardiff, providing thousands of extra seats and more frequent, quicker and greener journeys.

#### The road ahead

We are supporting the delivery of Transport for Wales' ambitious vision to transform the railway in Wales and Borders. We are working hard with Transport for London to prepare for the Elizabeth line which will bring a 'metro frequency' service from Reading through London Paddington to Heathrow, Central London, Essex and Kent.

Working through our Alliance with GWR on Western route and through our close working relationship with TfW in Wales, we are delivering a number of projects to create more capacity on the network, reduce journey times and improve facilities for passengers.



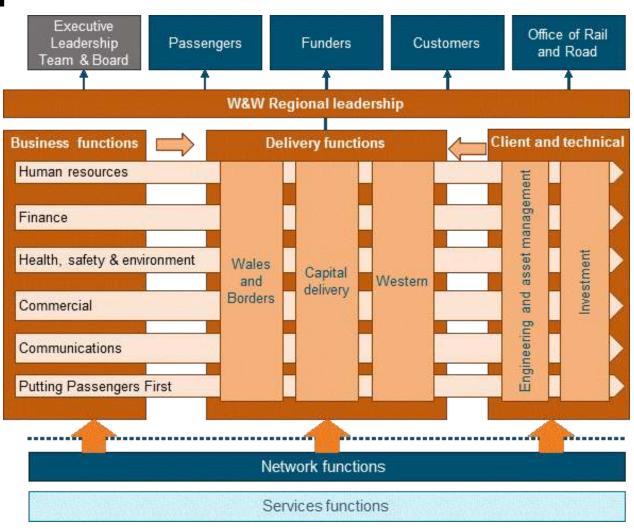


#### Go Live of the New

#### ting Model



### Opera



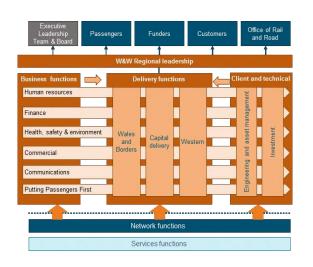
Our new organisation is focused on the delivery of safe, efficient and effective operations, maintenance, renewal and enhancement of our infrastructure through our two routes and Capital Delivery.

These three delivery functions are supported by other regional business functions.

#### What has changed?

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In June we consolidated our finance, human resources, and communications capabilities into business functions to provide support to the region. Now, on 14 September 2020 we have made the following changes:

- Our two routes (Wales & Borders, Western): new structures align with our customers, clarifying
  accountabilities and defining the support framework we need to deliver effectively and efficiently
- Capital Delivery: new matrix structure in line with best-practice construction organisations, maximising efficiency and resources across projects and programmes
- Health, Safety & Environment: where possible, safety is delivered at the front line, with a regional team to give a professional, independent overview of safety across the region
- Commercial: capability is being consolidated to provide a dedicated specialist service for our three delivery functions (the routes and Capital Delivery) and the region
- Engineering and Asset Management: new regional asset management organisation to provide expert asset management and assurance for our routes and Capital Delivery
- **Investment:** re-aligned to fit more closely with our customers, communities and stakeholders, with increased long-term strategic planning capability
- **Putting Passengers First**: team established to embed our new organisational changes and the culture change required to deliver the benefits of this programme
- Property team: team welcomed into our regional finance team to manage our property portfolio and deliver value for our stakeholders and customers

These changes ready us for the final stage of devolution, including new accountabilities from Network Services, Technical Authority and System Operator in the coming months.



#### Why have we made this change?

Train performance

New timetable issues

Capital delivery issues

Cumbersome processes

Supporting our people

Difficult & faceless

Industry leadership

Williams Rail Review

The Williams Rail

Punctuality declined from 2011 to 2018.

Working jointly with operatorswe are focused on delivering a consistent, reliable and punctual train service.

We still need to do much more to turn performance around.



In May 2018, we had significant reputational issues with the introduction of the new timetable



Issues with capital delivery have led to numerous reviews. Projects are now delivering more reliably, but stakeholders simply don't believe we exercise good cost control and are cost efficient



Safety is such a strong part of our culture it is sometimes perceived to be too cumbersome and sometimes used as an excuse



Internal feedback that we are not supporting ourstaff



External feedback that we are seen as difficult and faceless;

faceless; stakeholders say we must change



Industry changes require leadership—but we are not set up to respond and are perceived as too arrogant to do this collaboratively

Review is underway and through the Putting Passengers First programme we want to demonstrate that we are taking action to better deliver for passengers and be in a strong position to respond to what



comes out.

Putting Passengers & Freight Users First



#### Wales and Western Executive Team



Mark Langman managing director

Wales and Western



Bill Kelly route director Wales and Borders



Mike Gallop route director

Western



Stuort Colvert capital delivery director



Jone Austin engineering & asset management director



Mike Gurtenne finance director



Nicky Hughes communications director



Lindsey Worton human resources director



Paul Clark health & safety director



Francis McGarry investment director



Jadon Silva commercial director



Position to be filled programme director



## Wales and Western Capital delivery leadership team September 2020



#### Heads of function





Stuart Calvert
Capital delivery director



Suzanne Kay Head of S&SD



Steve Naybour Head of Programme Management and Controls



Graeme Tandy
Head of Project and
Construction Management



Alix Briden
Personal Assistant



Martin Robinson
Transformation Director



Debbie Wiles Business Manager



Simon Gardner Head of Engineering

#### Project directors:





Natasha Luddington
Project Director
Enhancements



Dan Holder Project Director Signalling



Brian Paynter Project Director Track



Michael Contopoulos
Project Director
Building & Civils



Kevin Collins Project Director Wales



Matt Jackson Project Director



Jonathan Davies Project Director Track Alliance



#### Works Delivery



Route Programme Director -Works Delivery Western (vacant post)



Dave Stanbury Route Programme Director -Works Delivery Wales

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John Spencer Commercial director



Andy Tappern Finance director



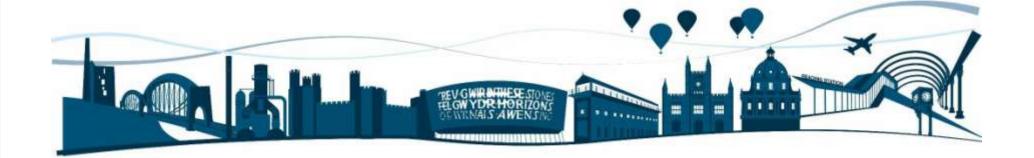
Zoe Rose Head of Human Resources



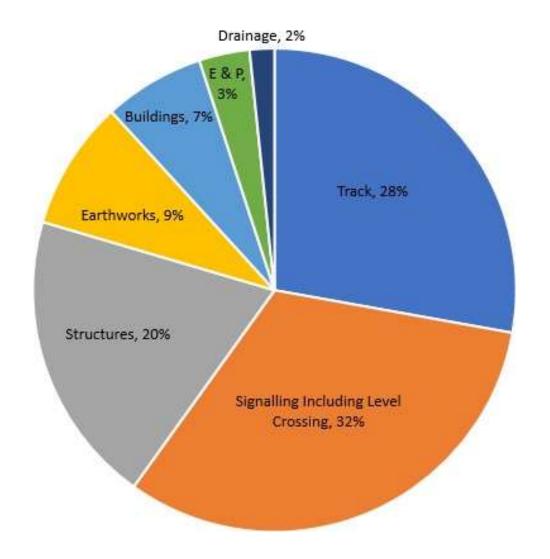
**Richard Griffiths** Head of external communications (projects)



## Wales and Western CP6 Schemes



#### Split of Investment Across the Renewals Portfolio



NetworkRail

#### Track



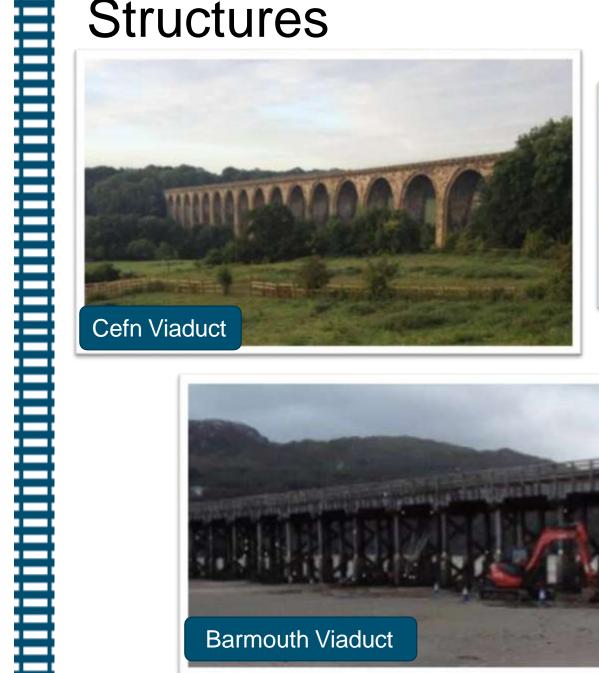
- 35km Full Renewal
- 7km Steel Sleeper Relaying
- 40km HO Ballast Cleaning
- 87km Rerailing
- 26km Conventional Reballasting
- 50 units S&C Renewal
- 100 units S&C Refurbishment
- 25km Rail Milling
- 80km Patch Resleepering
- 100km Repadding



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#### Structures









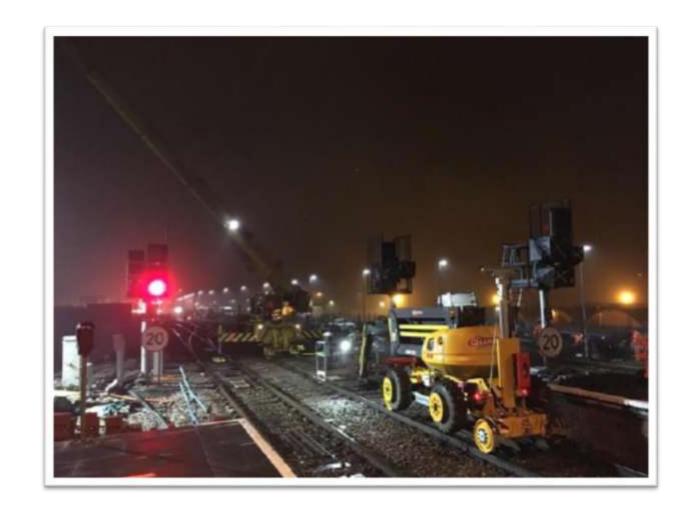
#### Signalling



#### Major signalling renewals

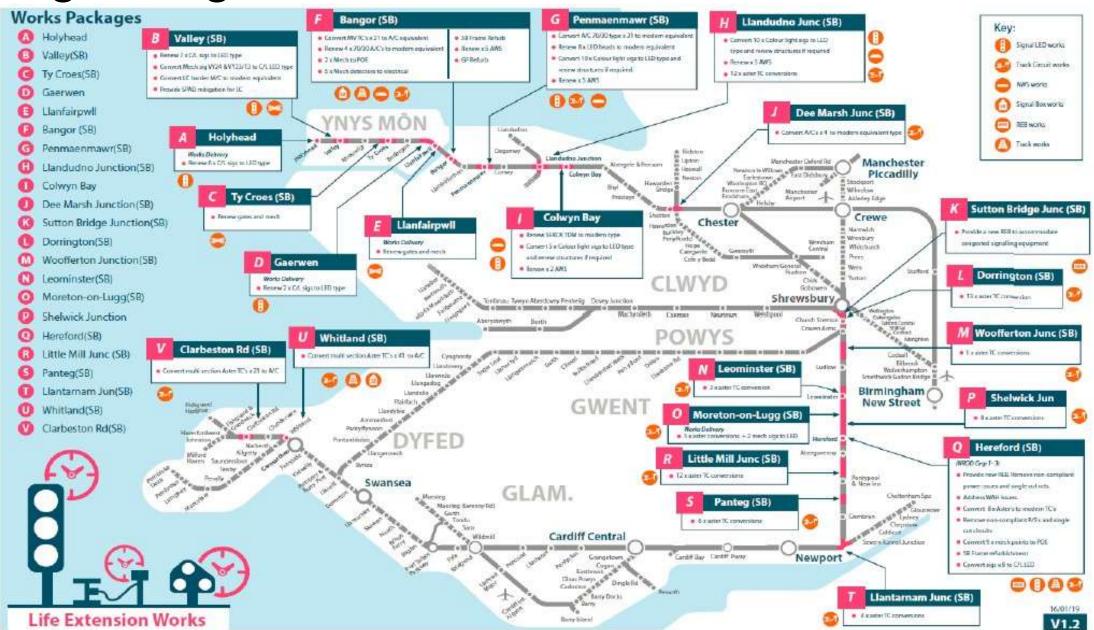
- Port Talbot West Phase 2 re-signalling
- Port Talbot East recontrol
- Tondu Recontrol

- Park Jcn and Western Valley Resignalling and recontrol
- Life extension work across Wales route



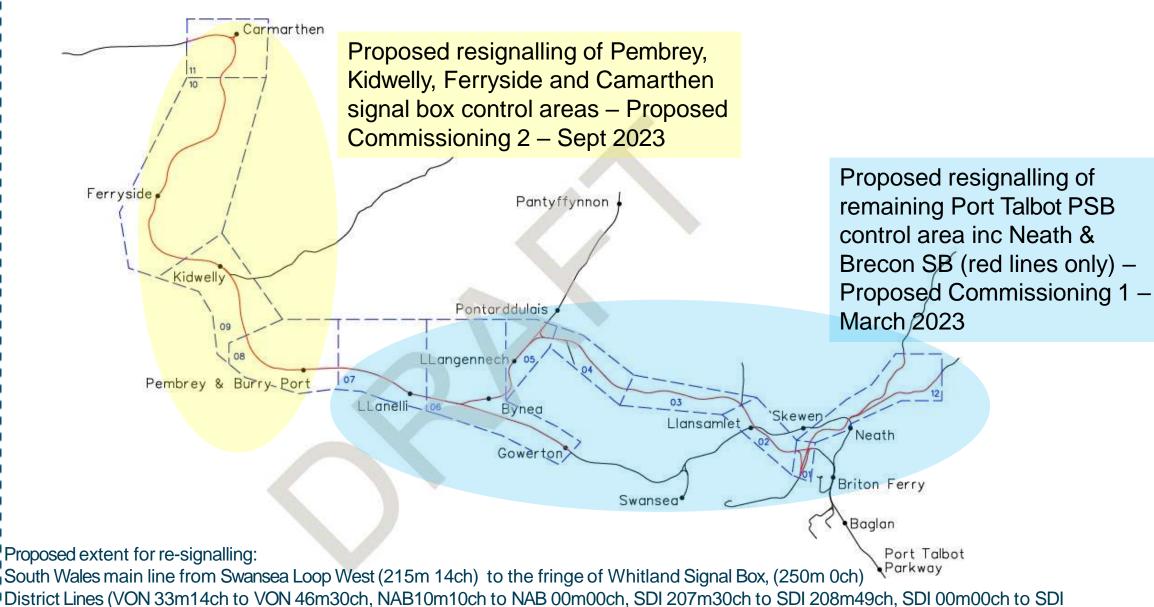
## Signalling: Life extension Works





#### Port Talbot West Resignalling Phase 2 (PTW2) - Geography





10m64ch, LLA4m54ch to LLA0m00ch, RSB19m16ch to 20m24ch, JER1m24ch to 2m26ch).

#### PTW2 Project Scope



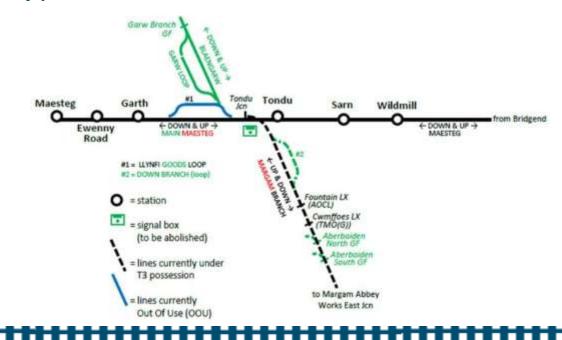
- Move all control functions from the Port Talbot Signal Box, Neath and Brecon Junction Signal Box, Pembrey Signal Box, Kidwelly Signal Box, Ferryside Signal Box and Carmarthen Signal Box to the WROC.
- Approximately 65 track miles to resignal covering the South Wales Main line, Swansea District lines and Neath and Brecon lines – 115 new signals, in excess of 50 points to recontrol, 7 new point ends.
- Rationalise track layouts including S&C, sidings and branches where beneficial and in situations that will
  enable reduced SEU count (approx. 35 point ends to recover/plain line) approx. 325 pairs of IRJ's to
  recover.
- Conversion of following road level crossings:
  - Penybedd AHB Retained as AHB, Duffyn AHB Upgrade to Obstacle Detection (OD) Mk2, Bertwyn AHB – Upgrade to OD Mk2, Ferryside MCB – Upgrade to OD Mk2, Pembrey MCB – Upgrade to OD Mk2, Kidwelly MCB – Upgrade to OD Mk2, Sarnau CCTV – Recontrol as CCTV to WROC
- Llanelli East and West crossings are already OD, and will be recontrolled to the WROC.
- Projected project AFC of circa £128M managed by Network Rail and delivered with our delivery partner Siemens undertaking Signalling, Civils, Power and Comms with Network Rail delivering the related track works.
- The project commenced CP6 in early GRIP development and is due to commission in year 4 / 5 of the control period.

Park Junction Resignalling and Recontrol -AFC £15M (excl enhancement) -**Commissioning March 2023 Delivery Partner - Siemens** Resignalling Area Recontrol area WG enhancement area Maches Farm (UWC) Park Junction Mechanical Area (Resignal) Perk Junction SSI Area (Recontrol) Machen Branch OTW with Staff (Resignal) Machien South (FP)

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Tondu to Maesteg Resignalling (inc Port Talbot East Recontrol to Wales ROC) – AFC £24M Commissioning Jan 2023 Delivery partner - Siemens













#### Electrification & Plant



#### Sudbrook pump renewals



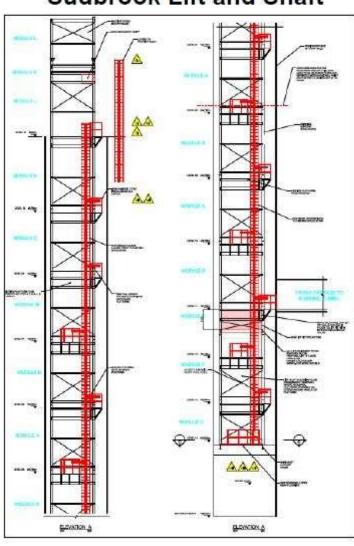
Points Heating - Gas to Electric



SIN 119 Signalling Power Compliance



#### Sudbrook Lift and Shaft

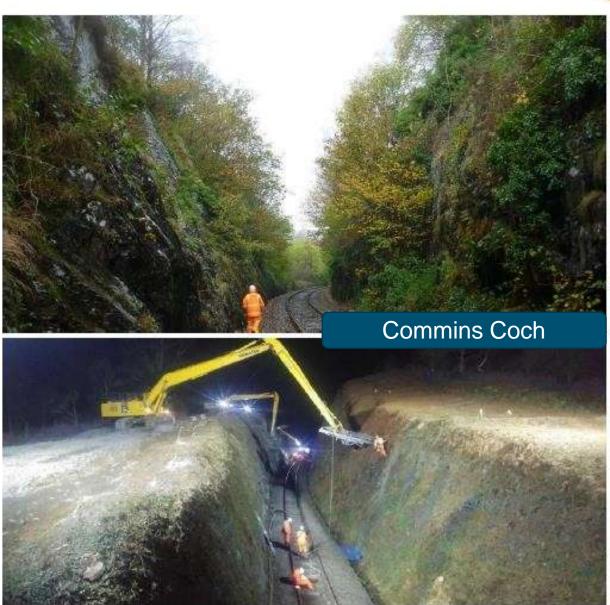


### Geotech and Drainage

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#### Buildings and Utilities

- Ebbw junction depot renewal
- Building energy efficiency measures
- Station and lineside solar PV
- Forced air cooling systems







## Buildings: Ebbw Junction Depot

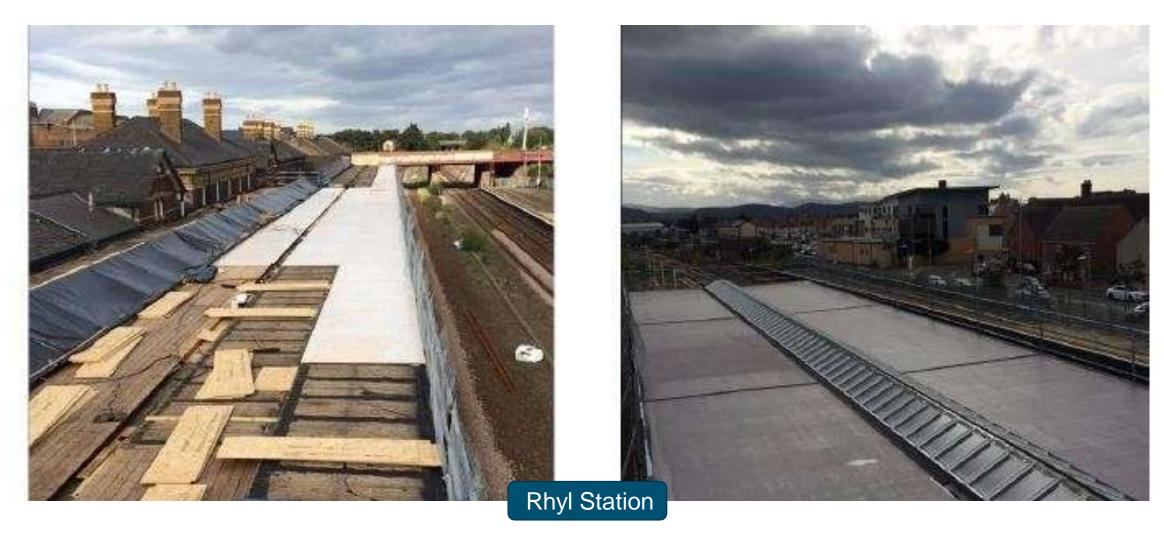






## Buildings: Canopy refurbishment





#### Level Crossings

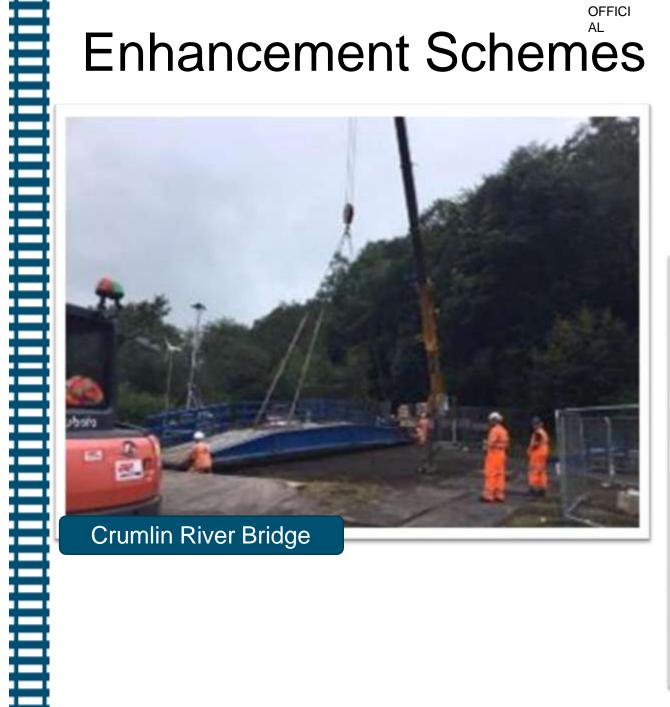


- Upgrade 50 passive level crossings to OMSL (overlay miniature stop light) system
- Interventions at 20 protected level crossings
- Option design development for 13 level crossings
- Working collaboratively with third parties including LA's, Highways England, Trunk Road Agency and developers to close level crossings and improve traffic flows and the economy

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#### Enhancement Schemes





#### Cadoxton Access for All (AfA)





#### Proposed AfA's standard design

#### Entry Corner/undercroft Link piece Linchpin/plinth · Open and Inviting · Continuity of light Visual/material · Corners tapered triangulated structural Simple and legible · No platform columns counterpoint/anchor to expression · Maximised visibility expression from platform to bridge Entrance structure given · Ease of movement platform. Vertical proportions · Undercroft open and · Anchored by brick plinth primacy expressed · Motor room suppressed Inviting and lift tower. · Local landmark potential Maximised visibility · Highly legible Context sensitive/ adaptable expression N PLATFORM 1

#### Resilience







#### **ENVIRONMENTAL SUSTAINABILITY STRATEGY**

#### Delivering a sustainable railway

Rail is on a journey to a cleaner, greener future. It's already one of the greenest ways to travel, but there's more we can do.

We want to put passengers and freight users first, help passengers and freight users to make green choices, support local communities and be a good neighbour.



www.networkrail.co.uk/sustainability

How will we achieve this?







Minimal waste and sustainable use of materials





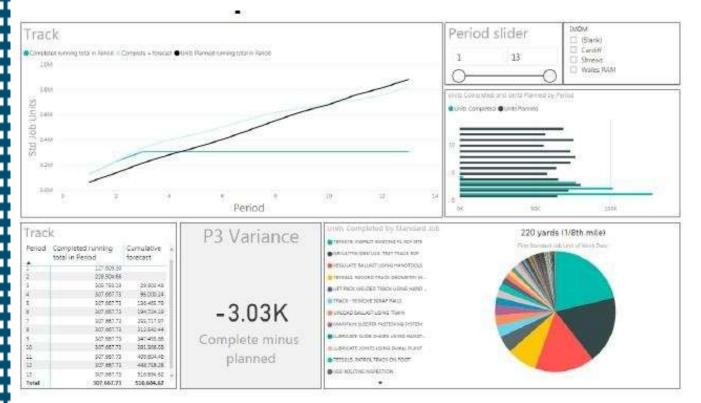




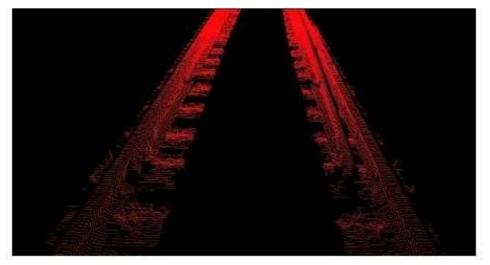
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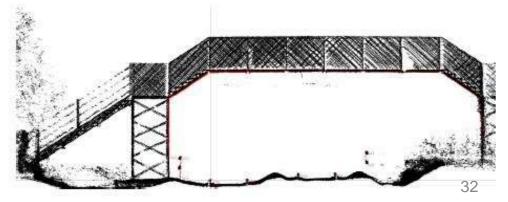
#### **Data Visualisation**











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## Common Data Environment (CDE) BIM Tools



- One Common Data Environment for all information
- All Drawing and Document sheet templates are standardised
- Standardised document numbering convention across the region
- Version control of design, construction and as built information
- Search function for all information as metadata used
- Lean Engineering Right first time Construction

All Project data is retained for handover and handback









Thank you

