Section 5
Glossary & Further Information

Glossary

ABCL	Automatic Barrier Crossing (Locally Monitored)
ABP	Associated British Ports plc
AC	Alternating Current
ADG	Area Delivery Group
AHB	Automatic Half Barrier
AMP	Asset Maintenance Plan
AMW	Asset Management Worksteream
AOCL	Automatic Open Crossing Locally Monitored
ASTER	Audio frequency jointless track circuit
ATP	Automatic Train Protection
ATR	Automatic Train Reporting
AWS	Automatic Warning System
BAA	British Airports Authority
CBI	Computer Based Interlocking
CET	Controlled Emission Toilet
CIS	Customer Information System
CLC	Cheshire Lines Committee
CSE	Connex South Eastern
CSR	Cab Secure Radio
CTRL	Channel Tunnel Rail Link
CUP	Capacity Utilisation Policy
CWR	Continuously Welded Rail
DC	Direct Current
DDA	Disability Discrimination Act
DLR	Docklands Light Railway
DMU	Diesel Multiple Unit
DOO	Driver Only Operation
DRS	Direct Rail Services
ECML	East Coast Main Line
ERTMS	European Rail Traffic Management System
ETCS	European Train Control System
EWS	English Welsh and Scottish Railway
F2N	Felixstowe to Nuneaton
FDM	Frequency Division Multiplexer
FGE	First Great Eastern Trains
FGW	First Great Western Trains

FNW	First North Western Trains
FOC	Freight Operating Company
FTN	Fixed Telecoms Network
G&SW	Glasgow and South Western
GBRf	Great Britain Rail Freight Limited
GCC	Gauge Corner Cracking
GMPTE	Greater Manchester Passenger Transport Executive
GNER	Great North Eastern Railway
GSM-R	Global System for Mobiles - Railway (European Radio System for Railways)
GSP	Ground Switch Panel
GWESPA	Great Western Earthworks & Structures Partnering Agreement
GWML	Great Western Main Line
HABD	Hot Axlebox Detector
HEX	Heathrow Express
HIT	Humberside International Terminal
HSE	Health and Safety Executive
HST	High Speed Train
ICC	International Convention Centre in Birmingham
IECC	Intergrated Electronic Control Centre
IOS	Incremental Output Statement
IPU	Intergrated Planning Unit
LCR	London & Continental Railways
LDTSS	Long Distance Train Service Specification
LLPA	Long Line Public Address
LMD	Light Maintenance Depot
LNW	London North West
LUL	London Underground Limited
MCB	Manually Controlled Barrier (Level Crossing)
MFAS	Modern Facilities at Stations
MML	Midland Mainline
NEXUS	Trading name for the Tyne & Wear Passenger Transport Executive
NLU	National Logistics Unit
NMS	Network Management Centre
NNUS	National Network Utilisation Strategy
NRN	National Radio Network
NTP	North Trans-Pennine
NWML	North Wales Main Line

NWZ	North West Zone
OHL/ OLE/ OHLE	Overhead Line Electrification Equipment
PIPS	Packaging and Investment Planning System
PLC	Public Limited Company
PSB	Power Signal Box
PSR	Public Service Requirement
PSR	Permanent Speed Restriction
PSU	Power Supply Upgrade (Southern Region)
PTE	Passenger Transport Executive
PTG	Passenger Transport Grant
PUGI	Passenger Upgrade No 1 - Agreement with the Franchising Director and WCML
RA	Route Availability
RDO	Reserved Domestic Operator
REED	A type of track circuit
RETB	Radio Electronic Token Block
ROF	Royal Ordnance Factory
RPF	Rail Performance Fund
RPP	Rail Passenger Partnership
RUS	Route Utilisation Strategy
S&C	Switches & Crossings
SCADA	Supervisory Control and Data Acquisition
SECC	Scottish Exhibition Conference Centre (Glasgow)
SEMMMS	South East Manchester Multimodal Study
SLW	Single Line Working
SNRN	South Nottinghamshire Rail Network
SOAP	Stereo Oblique Aerial Photography
SPAD	Signal Passed at Danger
SPT	Signal Post Telephone
SPT	Strathclyde Passenger Transport
SRA	Strategic Rail Authority
SSI	Solid State Interlocking
SWT	South West Trains
SYPTE	South Yorkshire Passenger Transport Executive
T-COD	Track Circuit Operating Device
TD	Train Describer
TDM	Time Division Multiplexer
TEN	Trans European Network

TfL	Transport for London
TICA	Track Infrastructure Condition Assessment
TIGER	Transport Integration in the Gwent Economic Region
TOC	Train Operating Company
TP Hut	Track Paralleling Hut
tph	Trains per hour
TPWS	Train Protection Warning System
TSC	Train Service Code
TSR	Temporary Speed Restriction
TT	Thames Trains
TWA	Transport and Works Act
UPS	Uninterruptible Power Supply
VCC	Virgin Cross Country
VoG	Vale of Glamorgan
VXC	Virgin Cross Country
W&B	Wales & Borders
WAG	Welsh Assembly Government
WAGN	West Anglia Great Northern Railway
WARM	West Anglia Route Modernisation
WCML	West Coast Mail Line
WCRM	West Coast Route Modernisation
WCRTCC	West Coast Rail Traffic Control Centre
WCTCC	West Coast Traffic Control Centre
WMAMMS	West Midlands Area Multi-Modal Study
WYPTE	West Yorkshire Passenger Transport Executive

Appendix 1: Project Development Phases

Investment projects are managed in discrete phases, shown below. These reflect the significant business and technical milestones in the project's development and delivery.

Figure 5.1 Project Development (phases 1-5)	
Phase 1 Output Definition	Establishes the scope of the investment in terms of the incremental network capability required by the investment's "client". This is described in terms such as journey time, capacity, loading gauge etc. It may also require the scoping of asset renewal. The key product from Output Definition is the Development Remit, supported by a high-level business case.
Phase 2 Pre-feasibility	Ensures that asset condition, safety or standards requirements are identified and included in the scope of the investment. Ensures that investment is aligned with organisational strategy and contributes to targets. Identifies the constraints on the network that prevent the delivery of the client's outputs and defines the incremental capability that must be delivered by the investment. Provides confirmation that the outputs can be economically delivered by addressing the identified constraints. The key product from Pre-Feasibility is the functional specification, supported by a revised high-level business case, project safety strategy and strategic risk review.
Phase 3 Option Selection	Develops options for addressing the identified constraints and delivering the required incremental network capability. Assesses the options and selects the most appropriate one, together with confirmation that the outputs can be economically delivered. The key products from Option Selection are the Option Selection Report and Project Design Specification, supported by preliminary business cases for each identified option.
Phase 4 Single Option Development	Develops the selected single option to the point of engineering scope freeze and in sufficient detail to allow finalisation of the business case and scheduling of implementation resources. The key product from Single Option Refinement is the Reference Design, supported by an outline business case for the option and proposals for obtaining necessary approvals, consents and possessions.
Phase 5 Detailed Design	Produces a complete and robust engineering design that allows risks, costs, timescales, resources and benefits to be fully understood prior to commitment to implement. The key product from Design is the Completed Design, supported by a finalised business case, the project safety case, necessary approvals and consents. All possessions are booked and resourced, acceptance and maintenance criteria are established and an implementation plan is in place.

Figure 5.2 Project Implementation (phases 6-8)	
Phase 6 Construction, Test and Commission	Delivers the asset change / renewal to the appropriate specification and provides confirmation that the asset and system work in accordance with their design and that they deliver the incremental network capability. The key products from Construction, Test & Commission are the changed asset and test certificates.
Phase 7 Scheme Handback	Transfers asset responsibility, from the project contractor back to the operator and maintainer. It also brings the asset into beneficial use. The key products from Scheme Handback are Works Acceptance and Handback certificates.
Phase 8 Project Close Out	Ensures that the project is closed out in an orderly manner with updated asset management information, capitalised assets, settled contractual accounts and any contingencies and warranties are put in place. Logging up and other funding arrangements finalised and assumed business benefits are captured in the Business Plan. The key products from Project Close Out are the Project Completion Report, Safety Completion Certificate, Lessons Learned Report and Post Implementation Review.

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