
Glossary of Terms

GLOSSARY OF TERMS

Term, Abbreviation or Acronym	Meaning
%ile	Percentile
AA	Appropriate Assessment
AADT	Average Annual Daily Traffic
AAP	Area of Archaeological Potential
AB	Assessment Body
ABP	An Bord Pleanála
AC	Alternating Current: Electrical current that changes direction 50 times per second.
ACA	Architectural Conservation Area
ACM	Asbestos Containing Material
AEP	Annual Exceedance Probability: The probability, typically expressed as a percentage, of a flood event of a given magnitude being equalled or exceeded in any given year. For example, a 1% AEP flood event has a 1%, or 1 in a 100, chance of occurring or being exceeded in any given year.
AERMOD	American Meteorological Society
ALARP	As low as reasonably practicable
AluvMIN	Alluvial Mineral Soils
AQMP	Air Quality Management Plan
APIS	Authorisation for Placing in Service
ARTDRAIN2	Arterial Drainage Factor
ASA	Application for Safety Approval
ASP	Auxiliary Supply Point
ASPC	Application Specific Project Safety Case
AT	Attenuation Tank: Stormwater attenuation tanks provide a storage system for rainwater and surface water. The stored water inside the attenuation tank is released via a flow-control chamber and is either pumped via a pumping chamber or run-off through a gravity stormwater pipe system.
ATC	Automatic Traffic Count
ATP	Automatic Train Protection
AWB	Artificial Waterbody
AZ	Assessment Zone
Ballasted Track	Traditional form of track construction where rail is supported by a crushed stone.
BAT	Best Available Techniques
BCT	Bat Conservation Trust
bgl	Below Ground Level
BFISOIL	Baseflow Index of Soils
BH	Borehole
BOCCI	Birds of Conservation Concern in Ireland
BOD	Biological Oxygen Demand
BRT	Bus Rapid Transit
BSBI	Botanical Society of Britain & Ireland

Term, Abbreviation or Acronym	Meaning
BSI	British Standard Institution
BT	British Telecoms
BTO	British Trust for Ornithology
BTS	Base Station
C&D	Construction and Demolition
CA	Conservation Areas
CAF	Common Appraisal Framework
CAFE	Clean Air for Europe
Cant	Superelevation / cross fall of the rails
Cantilever	OHLE structure comprising horizontal or near horizontal members supporting the catenary projecting from a single mast on one side of the track
CAP	Climate Action Plan
Catenary	The longitudinal wire that supports the contact wire.
CAPEX	Capital Expenditure
CARO	Climate Action Regional Office
CARP	Climate Action Regional Office
CAWS	Continuous Automatic Warning System
CBI	Computer-Based Interlocking
CBR	California Bearing Ratio
CCE	Chief Civil Engineer
CCE	Chief Civils Engineers Department of IE
CCRP	City Centre Re-signalling Projec
CCT	Closed Circuit Television
CDP	County Development Plan
CDW	Construction and Demolition Waste
CDWMP	Construction and Demolition Waste Management Plan
CEA	Cumulative Effects Assessment
CEI	Compliance Engineering Ireland
CEMP	Construction & Environmental Management Plan
CERC	Cambridge Environmental Research Consultants
CESMM	Civil Engineering Standard Method of Measurement
CFA	Continuous flight auger
CFRAM	Catchment Flood Risk Assessment and Management
CGS	County Geological Site
CH	Cultural Heritage
CH ₄	Methane
CIA	Cumulative Impact Assessment
CIÉ	Córas Iompair Éireann
CIEEM	Chartered Institute of Ecology and Environmental Management
CIRIA	Construction Industry Research and Information Association
CIS	Customer Information Service
CLO	Community Liaison Officer
CLRTAP	Convention on Long Range Transboundary Air Pollution
CME	Chief Mechanical Engineer
CMP	Construction Management Plan
CMS	Cable Management Strategy

Term, Abbreviation or Acronym	Meaning
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
CO ₂ eq	Carbon Dioxide Equivalent
COMAH	Control of Major Accident Hazards
Contact wire	Carries the electricity which is supplied to the train by its pantograph.
COP22	22nd Conference of the Parties (2016 United Nations Climate Change Conference)
COPD	chronic obstructive pulmonary disease
COR	Certificate of Registration
Cork Mainline	The DART+ South West Project includes part of the existing Cork Mainline between Hazelhatch & Celbridge Station and Heuston Station. This part of the Cork Mainline is also referred to in policy documents and publications as the 'Kildare Line'.
CPO	Compulsory Purchase Order
CPPA	Corporate Power Purchase Agreement
Cross overs	A set of railway parts at the crossing of several tracks which helps trains change tracks to other directions.
CRR	Commission for Rail Regulation (formerly RSC – Railway Safety Commission)
CRTN	Calculation of Road Traffic Noise
cSAC	Candidate Special Area of Conservation
CSM	Conceptual Site Model
CSM RA	Common Safety Method for Risk Evaluation and Assessment
CSO	Central Statistics Office
CTC	Central Traffic Control
CTMP	Construction Traffic Management Plan
Cutting	A railway in cutting means the rail level is below the surrounding ground level.
CWDP	Construction Waste Demolition Plan
CWR	Continuous Welded Rail
D+	DART+
D&B	Design & Build (contractor)
DAFM	Department of Agriculture Food and the Marine
DART	Dublin Area Rapid Transit (IE's Electrified Network)
DART +	DART Expansion Programme
DAU	Development Applications Unit
dB	Decibel - unit of sound pressure level, calculated as a logarithm of the intensity of sound
dB(A)	Decibel (weighted) - unit used to measure the intensity of sound, "A" denotes that levels were "A" weighted"
DB	Designated Body
DC	Direct Current: Electrical current that flows in one direction, like that from a battery.
DCAA	Dublin City Archaeological Archive
DCBAP	Dublin City Biodiversity Action Plan 2015 - 2020
DCC	Dublin City Council

Term, Abbreviation or Acronym	Meaning
DCCAE	Department of Communications, Climate Action and the Environment
DCDP	Dublin City Development Plan 2016 – 2022
DCHG	Department of Culture, Heritage, and the Gaeltacht
DCIHR	Dublin City Industrial Heritage Record
DECC	Department of Environment, Climate and Communications
DEFRA	Department of Environment Food and Rural Affairs
DEHLG	Department of Environment, Heritage and Local Government
DFS	Direct Fastening System
DHLGH	Department of Housing, Local Government and Heritage
DHPLG	Department of Housing, Planning and Local Government
DL	Demesne
DLRCC	Dun Laoghaire Rathdown County Council
DM	Do Minimum
DMRB	Design Manual Roads and Bridges
DMU	Diesel Multiple Unit
DMURS	Design Manual for Urban Roads and Streets
DN	Do nothing
DNO	Distribution Network Operator
DoD	Department of Defence
DOO	Driver Only Operation
DoS	Degree of Saturation
Down track	The track carrying trains travelling away from Dublin
DP	Development Plan
DPER	Department of Public Expenditure and Reform
DRAIND	Drainage Density
DRR	Design Review Report
DRRTS	Dublin Rapid Rail Transit Study
DS	Do Something
DSR	Design Statement Report
DSRS	Dublin Suburban Rail Strategic
DTO	Dublin Transportation Office
DTTAS	Department of Transport, Tourism and Sport
DU	DART Underground
DVO	District Veterinary Office
DWR	Drinking Water Resources
EA	The Environment Agency
E&B	Earthing and Bonding
EC	European Commission
ECoW	Ecological Clerk of Works
ED	Electoral Divisions

Term, Abbreviation or Acronym	Meaning
EEA	European Environment Agency
E-Field	Electric Field
EFT	Emission Factor Toolkit
EIA	Environmental Impact Assessment
EIAR	Environmental Impact Assessment Report
EIS	Environmental Impact Statement
ELC	European Landscape Convention
Electrification	Electrification is the term used in supplying electric power to the train fleet without the use of an on-board prime mover or local fuel supply.
ELF	Extremely-Low Frequency
EM	Electromagnetic
EMC	Electromagnetic Compatibility
EMDSB	Essential Main Distribution Switchboard
EME	Electromagnetic Environment
EMEP	European Monitoring and Evaluation Programme
EMF	Electromagnetic Field
EMI	Electromagnetic Interference
EMP	Environmental Management Plan
EMRA	Eastern and Midland Regional Assembly
EM RSES	Eastern and Midland Regional Spatial and Economic Strategy
EMU	Electrical Multiple Unit
EN	Euro Norm (European Standard)
EN	European Engineering Standard
EOP	Environmental Operating Plan
EPA	Environmental Protection Agency
EPD	Environmental Product Declaration
EPO	Emerging Preferred Option
ERM	National Transport Authority's Eastern Regional Model
ERP	Emergency Response Plan
ERT	Electrical Resistivity Tomography
ERTMS	European Rail Traffic Management System
ESB	Electricity Supply Board
ESBN	Electricity Supply Board Network
ESD	Effort Sharing Decision
ESRI	Economic and Social Research Institute
ETCS L1	European Train Control System Level 1
ETS	Emission Trading Scheme
EU	European Union
EV	Electric Vehicle
EW	Earth Wire
EWC	European Waste Catalogue
FAT	Factory Acceptance Test
FARL	Flood Attenuation from Reservoirs and Lakes

Term, Abbreviation or Acronym	Meaning
Flood Zone A	Where the probability of flooding from rivers and the sea is highest (greater than 1% or 1 in 100 for river flooding or 0.5% or 1 in 200 for coastal flooding). Flood Zones generated without an allowance for climate change.
Flood Zone B	Where the probability of flooding from rivers and the sea is moderate (between 0.1% or 1 in 1000 and 1% or 1 in 100 for river flooding and between 0.1% or 1 in 1000 year and 0.5% or 1 in 200 for coastal flooding). Flood Zones generated without an allowance for climate change.
Flood Zone C	Where the probability of flooding from rivers and the sea is low (less than 0.1% or 1 in 1000 for both river and coastal flooding). Flood Zone C covers all areas of the plan which are not in zones A or B.
FLU	Full Length Unit (10 car unit)
Four-tracking	Four-tracking is a railway line consisting of four parallel tracks with two tracks used in each direction. Four track railways can handle large amounts of traffic and are often used on busy routes.
FR	Flood Risk
FRA	Flood Risk Assessment
FRS	Functional Requirements Specification
FSC	Forest Steward Council
FSP	Final Supply Points
FSU	Flood Studies Update
FW	Feeder Wire
GAA	Gaelic Athletic Association
GAL	Geochemically Appropriate Levels
GDA	Great Dublin Area
GEIA	Guidelines on carrying out Environmental Impact Assessment
GES	Good Ecological Status
GGBFS	Ground Granulated Blast Furnace Slag
GHG	Greenhouse Gases
GHS	Geological Heritage Site
GHz	Gigahertz
GI	Ground Investigation
GI	Geotechnical Investigations (Same as Site Investigations)
GigE	Gigabit Ethernet
GIR	Ground Investigation Report
GIS	Geographic Information System
GLVIA	Guidelines for Landscape and Visual Impact Assessment
GNI	Gas Networks Ireland
GP	General Purpose
GPR	Ground Penetrating Radar
GSI	Geological Survey of Ireland
GSM	Global System for Mobile communications (originally from the French: Groupe Spécial Mobile)
GSM-R	Global System for Mobile Communications-Railway
GSWR	Great Southern & Western Railway (i.e., the Phoenix Park Tunnel Branch Line)

Term, Abbreviation or Acronym	Meaning
GWB	Groundwater Body
GWDTE	Groundwater Dependent Terrestrial Ecosystems
GWP	Global Warming Potential
ha	Hectare (one ha equal to 10,000 square meters)
HA	Hydrometric Area
HABD	Hot Axle Box Detector
HAS	Health and Safety Authority
HAZID	Hazard Identification
HDPE	High Density Polyethylene
HDV	Heavy Duty Vehicle
HE	Highway England
HEFS	High End Future Scenario
HGV	Heavy Goods Vehicles - Articulated / Rigid Trucks and Buses with 2 or 3 more axles and vehicles pulling
HIF	Healthy Ireland Framework
HIR	Hazard Identification Record
HLU	Half Length Unit (5 car unit)
Horizontal Clearance	The horizontal distance between a bridge support and the nearest railway track is referred to as horizontal clearance. Bridge supports include abutments (at the ends of the bridge) and piers (at intermediate locations).
HRA	Hot Rolled Asphalt
HAS	Health and Safety Authority
HSE	Health Service Executive
HV	High Voltage
HVAC	Heating, Ventilation, Air Conditioning
Hz	Hertz
IA	Independent Assessor
IAIA	International Association for Impact Assessment
IAMS	Infrastructure Asset Management System
IAS	Invasive Alien Species
IAQM	Institute of Air Quality Management
IARC	International Agency for Research on Cancer
IBA	Important Bird Area
IBJ	Insulated Block Joints
ICNIRP	International Commission on Non-Ionizing Radiation Protection
ICPSS	Irish Coastal Protection Strategy Study
ICWWS	Irish Coastal Wave and Water Level Modelling Survey
IÉ / IR	Iarnród Éireann / Irish Rail
IFI	Inland Fisheries Ireland
IGI	Institute of Geologists of Ireland
IH	Institute of Hydrology
IIP	Integrated Implementation Plan
IM	Infrastructure Manager (Iarnród Éireann)
IEMA	Institute of Environmental Management and Assessment

Term, Abbreviation or Acronym	Meaning
Impact/ Effect	A change resulting from the implementation of a project (defined by Guidelines on the information to be contained in Environmental Impact Assessment Reports)
IMSAP	Infrastructure Manager Safety Approval Panel
INEA	Innovation and Networks Executive Agency
Insulators	Components that separate electricity live parts of the OHLE from other structural elements and the earth. Traditionally ceramic, today they are often synthetic materials.
IPCC	Intergovernmental Panel on Climate Change
IPH	Institute of Public Health
IRCC	Irish Rail Control Centre
IRP	Incident Response Plan
ISO	International Standards Organisation
IW	Irish Water
I-WeBS	Irish Wetland Bird Survey Site Inventory
IXL	Interlockings
JTC	Junction Turning Count
Justification Test	An assessment of whether a development proposal within an area at risk of flooding meets specific criteria for proper planning and sustainable development and demonstrates that it will not be subject to unacceptable risk nor increase flood risk elsewhere. The justification test should be applied only where development is within flood risk areas that would be defined as inappropriate under the screening test of the sequential risk-based approach adopted by the DOEHLG (2009) Flood Risk Management Planning Guidelines. There are two types of Justification Tests, the Plan-making Justification Test Justification Test (used at plan preparing stage) and the Development Management Justification Test (used at the planning application stage).
KCC	Kildare County Council
KCDP	Kildare County Development Plan 2017-2023
KDA	Key Development Areas. Identified in the Celbridge Local Area Plan
KER	Key Ecological Receptors
Kildare Line	The DART+ South West Project includes the part of the existing Cork Mainline between Hazelhatch & Celbridge Station and Heuston Station. This part of the Cork Mainline is also referred to in policy documents and publications as the 'Kildare Line'
km	Kilometre(s)
kPa	Kilopascal, a unit of pressure measurement
kph	Kilometres per Hour
KPI	Key Performance Indicator
Kt CO ₂ eq	Kiloton Carbon Dioxide Equivalent
kV	Kilovolt (unit, electric potential)
kV/m	Kilovolts per metre
LA _{10,T}	Noise level exceeded for 10% of the measurement over a period of time (T)

Term, Abbreviation or Acronym	Meaning
LA90,T	A-weighted noise level exceeded for 90% of the measurement over a period of time (T)
LAeq,16hr	Daytime ambient noise level between 07:00hrs and 23:00hrs
LAeq,T	Continuous equivalent A-weighted sound pressure level. "Average" of the sound pressure level over a period of time (T)
LAFmax	Instantaneous maximum sound level measured during sample period
Lamin	Instantaneous minimum sound level measured during sample period
LAm _{ax} ,T	Maximum A-weighted sound level measured during a period of time (T)
LAm _{in} ,T	Minimum A-weighted sound level measured during a period of time (T)
LA	Local Authority
LA	A-weighting represents the response of the human ear to sound
LAP	Local Area Plan
LAQM	Local Air Quality Management
LAr,T	A-weighted sound pressure level of an industrial noise
Lateral Clearance	Clearances between trains and structures.
LAWCO	Local Authority Waters and Communities Office
LCA	Landscape Character Assessment
LCA	Landscape Character Area
LCT	Landscape Character Type
L _{day}	A-weighted long-term average sound level over all day periods of a year
L _{den}	24 hour noise rating level
L _{evening}	A-weighted long-term average sound level over all evening periods of a year
LEA	Local Electoral Areas
LGV	Light Goods Vehicles
LIARI	Late Iron Age and Roman Ireland
Light Detection and Ranging (LiDAR)	Remote sensing technology that uses light in the form of a pulsed laser to measure distances to the Earth.
LLCA	Local Landscape Character Area
LMA	Lands Made Available
L _{night}	A-weighted long-term average sound level over all night periods of a year
LOC	Location Case/ Cabinet
LOD	Limits of Deviation
LT	Lunchtime
LV	Low Voltage
LV	Light Vehicle - Cars, 4xWheel Drive, Utility and Light Vans, Ambulances and caravans, OGV's
LVIA	Landscape and Visual Impact Assessment
LVR	Low Voltage Rooms
μT	micro-Tesla (unit, magnetic field strength / magnetic flux density)
m	Metre
m ³	cubic metres
MADs	Major Accidents and Disasters

Term, Abbreviation or Acronym	Meaning
Magnitude	Magnitude refers to size, amount, intensity and volume. It should be quantified if possible and expressed in absolute or relative terms (e.g. the amount of habitat lost, percentage change to habitat area, percentage decline in a species population).
mAOD	Metres Above Ordnance Datum
MASP	Metropolitan Area Spatial Plan
MASP	Metropolitan Area Strategic Plan
Mast	Trackside column, normally steel that supports the OHLE.
mbgl	metres below ground level
MCA	Multi-Criteria Analysis
MDC	Multi-disciplinary Consultant
MEP	Mechanical electrical and plumbing
MFD	Major Feeding Diagram
M-Field	Magnetic Field
mg/kg	milligrams per kilogram
MGWR	Midland Great Western Railway
MHLGH	Minister for Housing, Local Government and Heritage
min	Minute
MMDC	Maynooth Multi-disciplinary Consultant
MMP	Mobility Management Plan
MRFS	Mid-Range Future Scenario
MSE	Mechanically Stabilised Earth
mT	Milli-Tesla
Mt CO ₂ eq	Megaton Carbon Dioxide Equivalent
MV	Medium Voltage
MW	Megawatt (unit, power)
N ₂ O	Nitrous Oxide
NAF	National Adaptation Framework
NAPSI	National Action Plan for Social Inclusion
NBAP	National Biodiversity Action Plan 2017 - 2021
NBDC	National Biodiversity Data Centre
NCCAF	National Climate Change Adaptation Framework
NCM	National Cycle Manual
NDFM	National Demand Forecasting Model
NDP	National Development Plan 2018–2027
NECD	National Emissions Ceiling Directive
NECP	National Energy and Climate Plan
NH ₃	Ammonia
NHA	Natural Heritage Area
NI	Noise Insulation
NIAH	National Inventory of Architectural Heritage
NIFTI	National Investment Framework for Transport in Ireland
NIS	Natura Impact Statement
nm	nautical mile
NMI	National Museum of Ireland
NML	Noise Monitoring Location
NMR	Nuclear Magnetic Resonance

Term, Abbreviation or Acronym	Meaning
NMS	National Monuments Service
NMT	Noise Monitoring Terminals
NMU	Non-Motorised Users/Units
NO ₂	Nitrogen dioxide
NO _x	Nitrogen Oxides
NoBo	Notified Body
NPF	National Planning Framework
NPWS	National Parks and Wildlife Services
NRA	National Roads Authority
NSL	Noise Sensitive Location
NSO	National Strategic Outcomes
NTA	National Transport Authority
NTCC	National Train Control Centre
NTS	Non-Technical Summary
nZEB	Nearly Zero Energy Building
Overbridge (OB)	A bridge that allows traffic to pass over a road, river, railway etc.
OBJ	Object Controller Cabinets
OCR	Overhead Conductor Rail
OCS	Overhead Contact System
OD	Ordnance Datum
ODF	Optical Distribution Frame
ODMH	Ordnance Datum Malin Head
OH	Overhead
OHL	Overhead Lines
OHLE	Over Headline Equipment: This is a key requirement for the DART+ South West Project. OHLE generally refers to the mechanical and electrical items used to carry and deliver electrical power to the train units. OHLE is required to provide electrical power to the network's new electrified train fleet.
OLE	Overhead Line Equipment
O&M	Operation and Maintenance
One Dimensional (1D) Model	In 1D models, flow is averaged over depth and across defined cross sections. Used for modelling surface water drainage networks, in bank flows, in channel hydraulic structures and narrow well-defined floodplains.
One Dimensional Model / Two-Dimensional (1D/2D) Model	The channel is modelled in 1D and linked to a 2D model of the floodplain so that they can exchange flow. Used where there is a need to understand both the channel and floodplain processes. Used where there is need to understand how the surface water drainage network interacts with overland flows.
OPW	Office of Public Works
OSI	Ordnance Survey Ireland
OSR	Options Selections Report
PA	Public Address
PAC	Pre-Application Consultations
PAG	Project Appraisal Guidelines
PAHs	Polycyclic Aromatic Hydrocarbons

Term, Abbreviation or Acronym	Meaning
Pantograph	The device on top of the train that collects electric current from the contact wire to power the train.
Pb	Lead
PC	Public Consultation
PC	Process Contribution
PC1	Public Consultation No.1
PC2	Public Consultation No.2
PCB	Polychlorinated Biphenyls
P&C	Points and Crossings
P&S	Points & Switches
PCDs	Physical Catchment Descriptors
PCU	Passenger Car Unit - Also referred to as passenger car equivalent. It is a unit of traffic volume. Highway capacity is measured in PCU/hour daily a means of representing different vehicle categories in terms of a PASSENGER CAR
PEC	Predicted Environmental Concentration
PEFC	Programme for the Endorsement of Forest Certification
Permanent Way	A term used to describe the track or railway corridor and includes all ancillary installations such as rails, sleepers, ballast as well as lineside retaining walls, fencing and signage.
pFRA	Preliminary Flood Risk Assessment
PG	Practical Guidance
PID	Passenger Information Display
PLO	Project Liaison Officer
PLUTO	Planning Land Use and Transport Outlook 2040
PM	Particulate Matter
PM2.5	Fine Particulate Matter (aerodynamic diameter < 2.5 microns)
PM10	Particulate Matter (aerodynamic diameter < 10 microns)
pNHA	proposed Natural Heritage Areas
POAP	Plan-On-A-Page, high-level emerging programme
POSR	Preliminary Option Selection Report
POWSCAR	Place of Work, School or College – Census of Anonymised Records
PPE	Personal Protective Equipment
PPS	Proposed protected structure
PPT	Phoenix Park Tunnel
PPT Branch Line	The Phoenix Park Tunnel Branch Line links Heuston Station to Glasnevin through the Phoenix Park Tunnel. It is part of the Great Southern and Western Railway constructed in the 19th Century which linked Kingsbridge Station (now Heuston Station) to the Dublin Docklands. Historically it was used for freight but it was opened to passenger traffic in 2016.
PPV	Peak Particle Velocity
PRAI	Property Registration Authority of Ireland
PRS	Project Requirement Specification
PSCS	Project Supervisor Construction Stag
PSDP	Project Supervisor Design Process
PSP	Principal Supply Point

Term, Abbreviation or Acronym	Meaning
PSV	Passenger Service Vehicle
PT	Public Transport
PV	Photovoltaic
PW	Permanent Way
PWS	Public Well Sources
QA/QC	Quality Assurance/Quality Control
QBC	Quality Bus Corridor
RAM	Reliability, Availability, Maintainability
RBMP	River Basin Management Plan
RC	Reinforced Concrete
REB	Relocatable Equipment Buildings: Accommodation for signalling equipment and associated power supplies
RED	Radio Equipment Directive
RER	Renewable Energy Ratio
Re-signalling	Re-signalling of train lines will regulate the safe movement of trains and increase the capacity of train services along the route.
Return Period	A term that is used to describe the probability of a flood event, expressed as the interval in the number of years that, on average over a long period of time, a certain magnitude of flood would be expected to occur. This term has been replaced by 'Annual Exceedance Probability, as Return Period can be misleading.
RF	Radio-Frequency
RFC	Ratio Flow to Capacity
RMP	Record of Monuments and Places
RMS	Root Mean Square
RMSE	Root Mean Square Error
RO	Railway Order. Broadly similar to the planning application process, the project is categorised as Strategic Infrastructure Development (SID) and Iarnród Éireann applies directly to An Bord Pleanála for permission.
RPA	Root Protection Area
RPG	Regional Planning Guidelines
RPS	Record of Protected Structures
RS	Rolling Stock
RSA	Road Safety Authority
RSC-G	Railway Safety Commission Guideline
RSES	Regional Spatial & Economic Strategy
RTP	Rural Transport Programme
RU	Railway Undertaking (IÉ)
Rw	Weighted Sound Reduction Index
S4UL	Suitable for Use Level
SAAOs	Special Amenity Area Orders
SAAR	Standard Average Annual Rainfall
SAC	Special Areas of Conservation
SAM	Safety Assurance Manager
SAP	Safety Approval Panel
SAPS	Small Area Population Statistics

Term, Abbreviation or Acronym	Meaning
SATURN	Simulation and Assignment of Traffic to Urban Road Networks Software
SCADA	Supervisory Control And Data Acquisition
SCI	Special Conservation Interest (of a Special protection Area)
SCR	South Circular Road
SDCC	South Dublin County Council
SDCDP	South Dublin County Development Plan 2016-2022
SDG	Sustainable Development Goal
SDRA	Strategic Development Regeneration Area
SDZ	Strategic Development Zone
SEAI	Sustainable Energy Authority of Ireland
SEB	Signalling Equipment Building
SECP	Sediment and Erosion Control Plan
SEM	Scanning Electron Microscope
SEM	Site Environmental Manager
SER	Signalling Equipment Rooms: Accommodation for signalling equipment and associated power supplies
SET	Signalling, Electricity and Telecoms
SFILT	Strategic Framework on Investment in Land Transport
SFRA	Strategic Flood Risk Assessment
SHD	Strategic Housing Development
Shunting	The pushing or pulling motion (a train or part of a train) from the main line to a siding or from one line of rails to another line.
SI	Statutory Instrument
SI	Site Investigation
Sidings	A siding is a short stretch of railway track used to store rolling stock or enable trains on the same line to pass
SIFLT	Strategic Investment Framework for Land Transport
Slab Track	Modern form of track construction where rail is supported by a concrete base.
SLM	Sound Level Meter
SMA	Stone Mastic Asphalt
SMCP	Stakeholder Management and Communication Plan
SMR	Sites and Monuments Record
sms	Iarnród Éireann Safety Management System
SO ₂	Sulphur Dioxide
SP	Security Purpose
SPA	Special Protection Area
SPL	Sound Pressure Level
SPMT	Self-Propelled Modular Transport
SR	School Run
SRF	Soil Recovery Facilities
SRL	Single-Reflex Lens
SSFRA	Site-Specific Flood Risk Assessment
SSSI	Site of Special Scientific Interest
ST	Sediment Transport
STC	Single Track Cantilevers

Term, Abbreviation or Acronym	Meaning
STI	Sound Transmission Index
Stray Current	Current flowing through paths other than the intended electrical circuit
SUDS	Sustainable Urban Drainage System
SuDS	Sustainable Drainage Systems
T	Tesla (unit, magnetic field strength / magnetic flux density)
TB	Townland Boundary
TBM	Tunnel Boring Machine
TBT	Tributyltin
TCA	Townscape Character Assessment
TER	Telecom Equipment Building
TG	Technical Guidance
TII	Transport Infrastructure Ireland
TIIS	Train Infrastructure Interface Specification
TMP	Traffic Management Plan
TMP	Transport Modelling Plan
TMS	Train Management System
T&C	Testing and Commissioning
TOD	Transit Oriented Development
TOR	Top of Rail
TP	Trial Pit
TPH	Track Paralleling Hut
TPH	Trains per Hour
TPHPD	Trains per Hour per Direction
TPO	Tree Preservation Order
TPS	Train Protection System
TPSS	Traction Power Supply
Track Alignment	Refers to the direction and position given to the centre line of the railway track on the ground in the horizontal and vertical planes. Horizontal alignment means the direction of the railway track in the plan including the straight path and the curves it follows.
TRH	Temporary Rehousing
TSAS	Trophic Status Assessment Scheme
TSI	Technical Specifications for Interoperability
TSM	Traffic Signs Manual
TSR	Temporary Speed Reduction
TSS	Train Services Specification
TTA	Traffic and Transport Assessment
TTAJV	TYPSA, TUC RAIL and ATKINS Design Joint Venture (also referred to as TTA)
TTC	Two Track Cantilevers
TTS	Train Technical Specification
Turnback	A turnback is a rail crossover that connects two tracks together allowing trains to reverse direction (turn back) to provide continuing service in the opposite direction.

Term, Abbreviation or Acronym	Meaning
Two-Dimensional (2D) Model	In 2D models, flow is averaged over the flow depth and horizontally over a model grid cell or element. Used for modelling floodplain flows where the channel capacity and transition between in bank and out of bank flow is not important. Used for modelling overland flow where interaction with the surface water drainage network is not important. Used for coastal inundation modelling.
U/D	Up/Down
UG	Underground
UIC	International Union of Railways (Union Internationale des Chemins de fer)
UKAS	United Kingdom Accreditation Service
UKHA	UK Highways Agency
UN/ISDR	United Nations/ International Strategy for Disaster Reduction
Underbridge (UB)	A bridge that allows traffic to pass under a road, river, railway etc. The underneath of a bridge.
UNECE	United Nations Economic Commission for Europe
UNEP	United Nations Environment Program
UNESCO	United Nations Educational, Scientific and Cultural Organisation
UNFCCC	United Nations Framework Convention on Climate Change
UPS	Uninterruptable Power Supply
Uptrack	The track carrying trains travelling towards Dublin
URBEXT	Urban Extent
URDF	Urban Regeneration and Development Fund
USEPA	United States Environmental Protection Agency
V	Voltage/Volt (unit, electric potential)
V/m or kV/m	Volts per metre, or kiloVolts per metre (unit, electric field measurement)
V&V	Verification and Validation
VDC	Direct Current Voltage
VDI	Verein Deutscher Ingenieure (Association of German Engineers)
VDV	Vibration Dose Value
Vertical Clearance	For overbridges, an adequate vertical distance between railway tracks and the underside of the bridge deck (soffit) must be provided in order to safely accommodate the rail vehicles and the OHLE. This distance is known as vertical clearance and it is measured from the highest rail level.
VLD	Voltage Limiting Device
VM	Virgin Media
VOC	Volatile Organic Compounds
VSL	Vibration Sensitive Area
Vulnerable Development	Vulnerable development is classified as High, Less or Water Compatible for differing land uses and types of development. Classification of the vulnerability to flooding of different types of development is defined in Table 3.1 of The Planning System and Flood Risk Management – Guidelines for Planning Authorities” (DOEHLG, 2009). In board terms the three classes of vulnerability can be categorised as:

Term, Abbreviation or Acronym	Meaning
W	Watt (unit, power)
WAC	Waste Acceptance Criteria
WAM	With Additional Measures
WEM	With Existing Measures
WFD	Water Framework Directive
WHO	World Health Organisation
WII	Wetland of International Importance
WM	Watermain
WMC	Waste Management Co-Ordinator
WQ	Water Quality
WTP	Water Treatment Plant
Yd	Yard (unit, length)
ZAP	Zone of Archaeological Potential
Zol	Zone of Influence
ZON	Zone of (Archaeological) Notification