



NORTH YORKSHIRE  
MOORS RAILWAY

# LIGHT RAIL SAFETY & SUSTAINABILITY

LIZ PARKES, HEAD OF OPERATIONS & SAFETY IMAGES COURTESY OF STEW AITCH & CHARLOTTE GRAHAM



# LIGHT RAIL SYSTEMS COMMON THEMES

Glasgow Subway

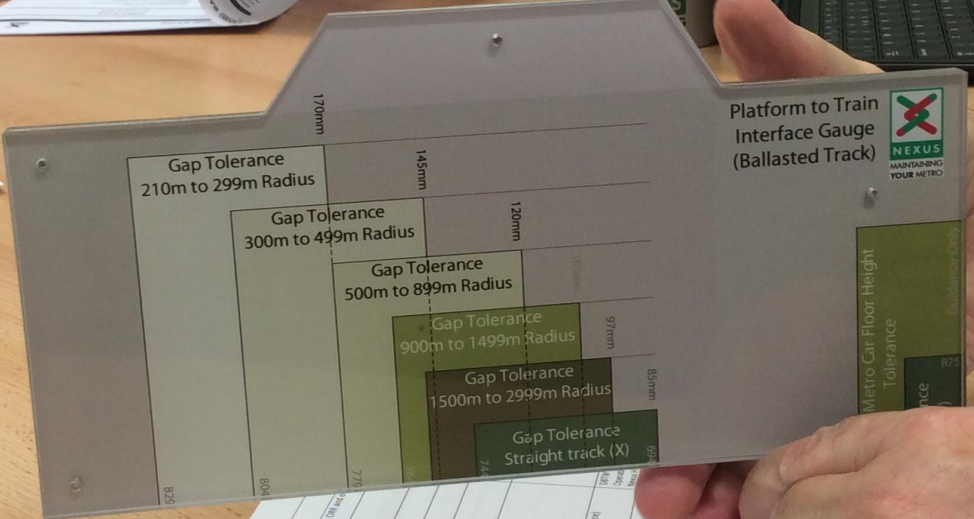
<http://www.spt.co.uk/subway/>

Edinburgh Trams

<https://edinburghtrams.com/>

Tyne & Wear Metro

<https://www.nexus.org.uk/metro>



4.	OP&PM	Shoring infrastructure	Trackside Machinery (M&M)	825
7.	(a)	Signalling	Signalling	825
7.	(b)	Vehicle communication	Vehicle communication	825
8.		Control room practices	Control room practices	825
8.		Other relevant	Other relevant	825
9.		Input from Metro related entities / projects	Input from Metro related entities / projects	825
10.		Seasonal preferences of high speed rail	Summer Autumn Winter Spring	825
10.		Reciprocal Training Competence (Metro/Ballasted)	Reciprocal Training Competence (Metro/Ballasted)	825
11.				A08

# REGULATORY FRAMEWORK & STANDARDS

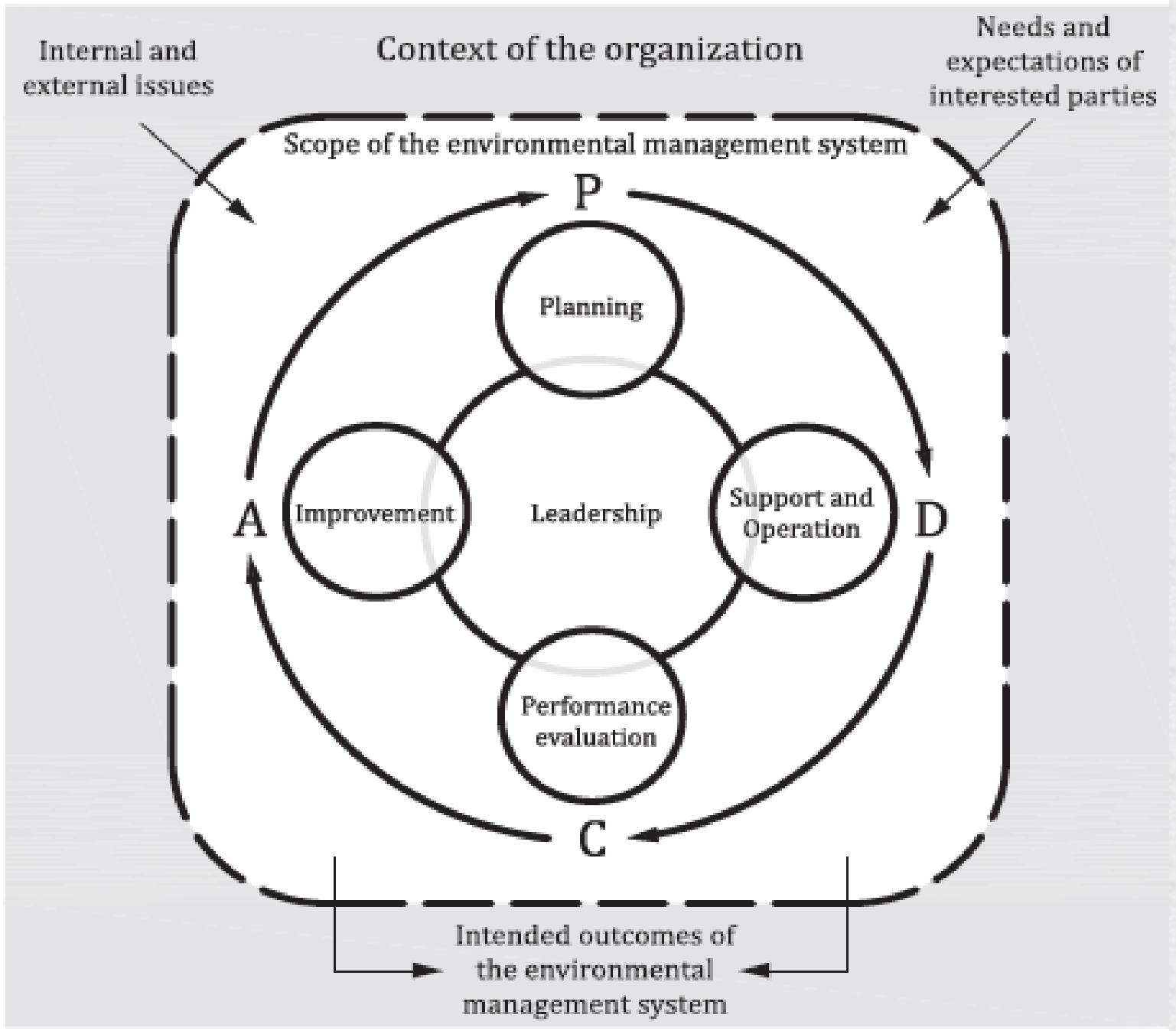
ROGS: competence, safety management systems, risk assessment, management of engineering change, ( use of common safety methods and safety verification for non-mainline and light rail operators )

Environmental legislation  
BS/EN/ISO 14001:2015

- Organisation – scope, interfaces, description, policy safety management, planning, management accountability, workforce involvement, monitoring
- Management of change
- Risk assessment and risk control
- Competence
- Provision of information
- Incidents
- Emergency planning
- Audit
- Co-operation

# MEETING SAFETY REQUIREMENTS

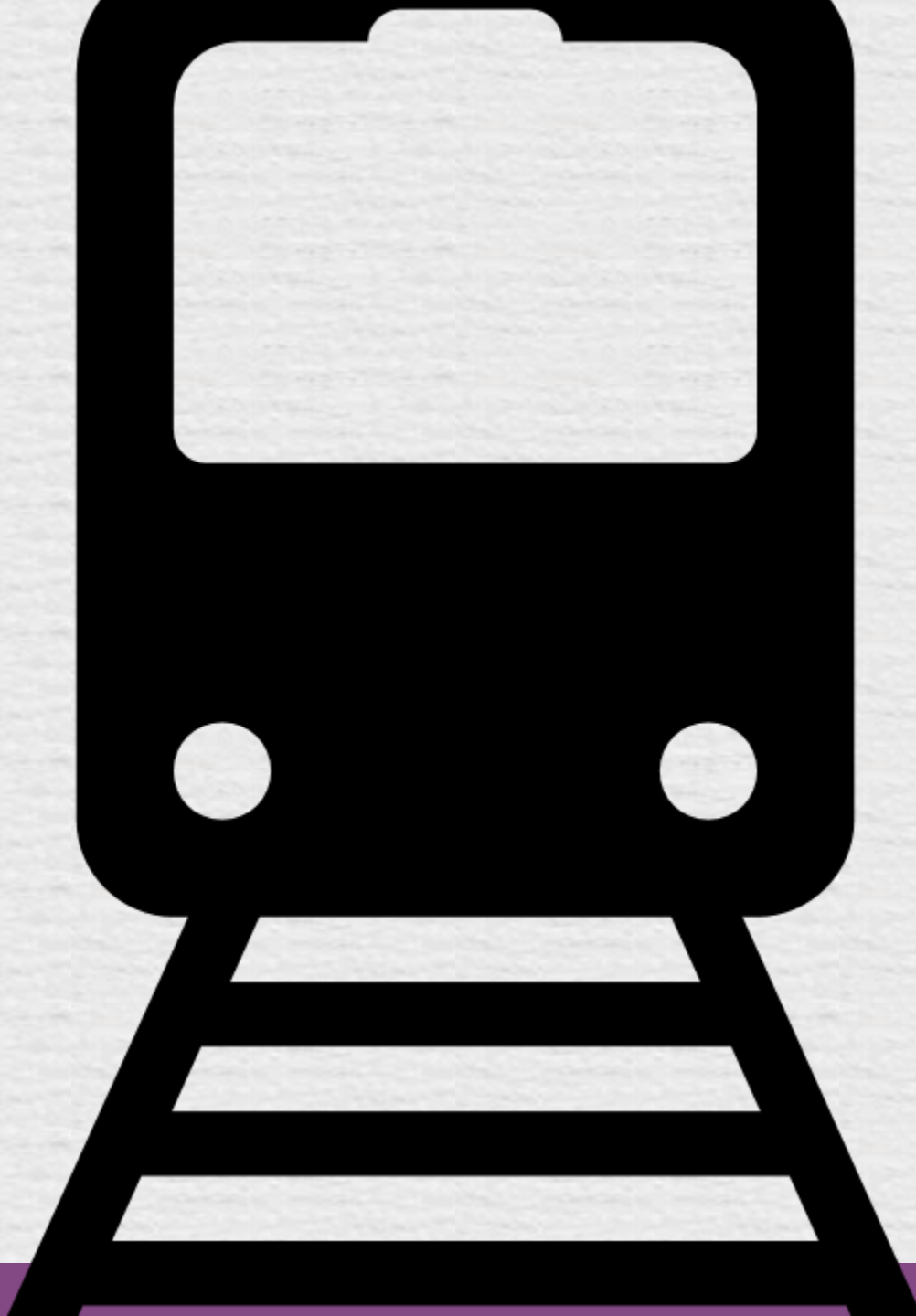
Railways and other guided  
transport systems (Safety  
Regulations) 2006



# MEETING ENVIRONMENTAL REQUIREMENTS

BS/EN/ISO 14001:2015

Environmental Protection Act 1990 and regulations under the act



## COMMON CONCERNS

Show stoppers: fire, collision, derailment

Platform train/tram interfaces

Cab ergonomics

Signalling & control systems

Light rail/road vehicle and pedestrian interfaces

Congestion

Electricity

Noise and vibration, water, land and air pollution avoidance

Mobility

Accessibility





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# SHARING OUR EXPERIENCES

HOW DO WE BEST LEARN FROM EACH OTHER ?