# **Rail Technical** Strategy

Innovating across Britain's railway

FUNCTIONAL PRIORITIES



#### **EASY TO USE** FOR ALL

Rail will deliver an excellent travel experience to regular and occasional passengers thanks to dependable real-time information, innovative payment methods, and improved solutions for accessibility.



# **FRIFNDI Y**

Freight growth on the rail network will be enabled through better use of existing and new capabilities of freight assets, and improved whole system thinking with freight at its heart.



greater network capacity will be achieved through flexible and robust train planning and simpler and safer real-time operations. These are underpinned by a strategic approach to improving signalling and train capabilities.



Rail assets will be more reliable and have lower whole-life costs, thanks to right time insights, efficient maintenance, improved resilience to a changing climate, speedier introduction of innovations, and better management of obsolescence.

### DESIRED OUTCOMES



industry's strategic aims



Inform long-term investment for replacements and renewals

#### Empower supply chain to deliver the technical solutions required by industry



## CRITICAL ENABLERS

Improved implementation pathways

Collaborative research and innovation with a strong industry pull,

deployment of novel solutions. Effective alignment with insertion

drives and de-risks take-up, leading to reliable and timely

points have a key role to play in ensuring the benefits are

maximised. The critical roles that people and culture play are

recoanised.

rail emissions, can make a

substantial contribution to tackling

climate change and air pollution. Rail

emissions will be reduced by new -

full and partial - efficient

electrification, zero and low carbon

vehicles, and a whole-system, whole-

life approach to managing carbon.



#### Data driven

Good exploitation of data underpins all the other priorities of the Rail Technical Strategy. It is the key enabler to many of the important and necessary goals that the future railway needs to achieve.



#### **Digitally talented workforce**

Attracting and developing a vibrant and more diverse workforce is critical. The fast-paced developments of digital technologies pose a further attraction, retention and upskilling challenge. The railway continues to need people from a vast array of technical backgrounds and this increasingly needs to be underpinned by strong digital skills to successfully drive change and innovation.