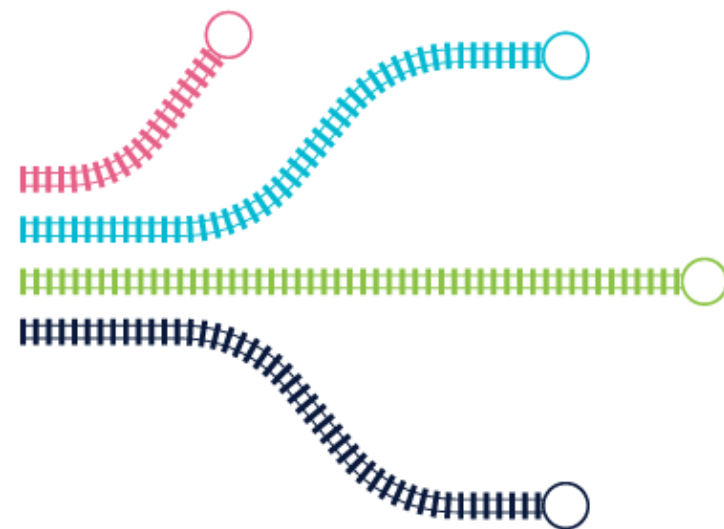


PhDs EU-Rail



Project name: EXTENDING THE RAIL NETWORK OF PHDS IN EUROPE'S RAIL JOINT UNDERTAKING

Project starting date: 1 October 2024

Project duration: 36 months

15 Partner Institutions from 11 european countries.

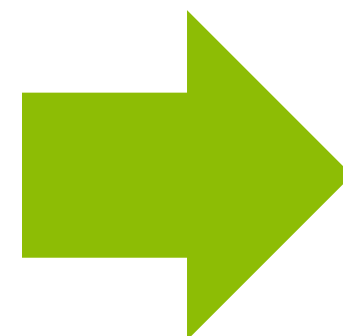


Project coordinator: Dr.-Ing Armando Carrillo Zanuy info@earnex.eu
EURNEX e. V Hardenbergstraße 12 10623 Berlin

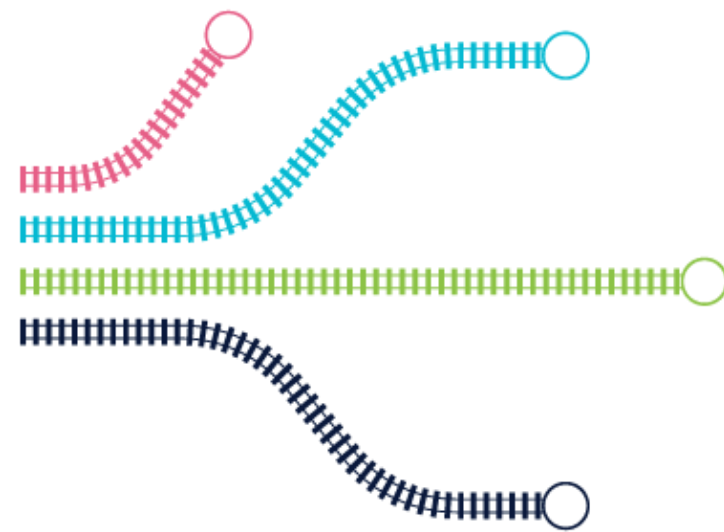


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PhDs EU-Rail



The PhDs EU-Rail project supports innovation in Europe's railways by offering 10 PhD positions to research important topics. Each PhD student will focus on key areas like eco-friendly rail technology, gender equality in the industry, better education and training, improving night trains, making railways more accessible, and developing safer communication systems.

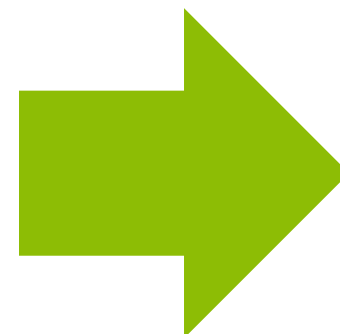
Working with industry experts, the project aims to solve real-world problems and share findings at conferences. By connecting researchers and companies, PhDs EU-Rail helps drive the future of sustainable and safe rail transport in Europe.

10 EU-Rail PhD Research Themes

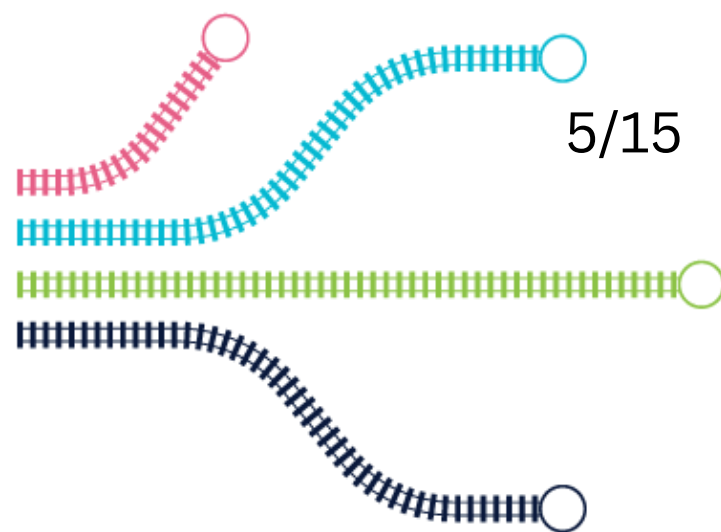


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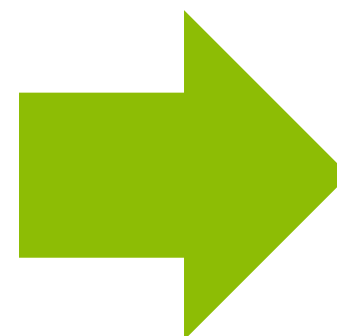


PhDs EU-Rail



10

EU-Rail PhD Research Themes



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Innovation Implementation in Railways

Driving EU decarbonisation through efficient rail systems – closing gaps in life-cycle analysis, certification, and regulation.



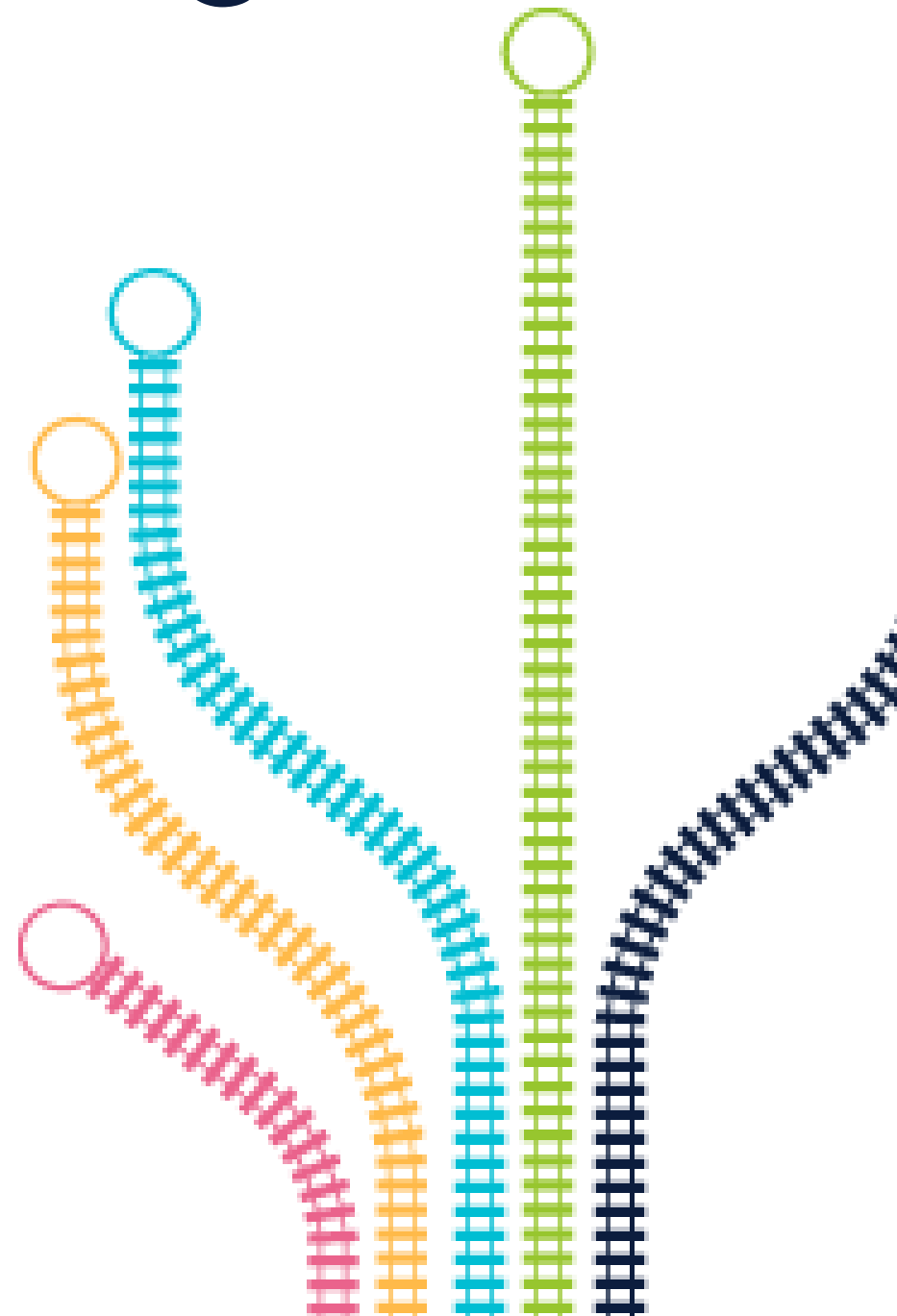
Gender Equality in Rail

Beyond awareness: embedding equity through education, leadership accountability, and systemic organisational change.



Education and Training

Bridging the skills gap with AI-driven, adaptive learning to prepare a future-ready rail workforce.



Rail-Enabled Urban Logistics

Integrating rail into sustainable city logistics — micro-hubs, multimodal strategies, and policy alignment.



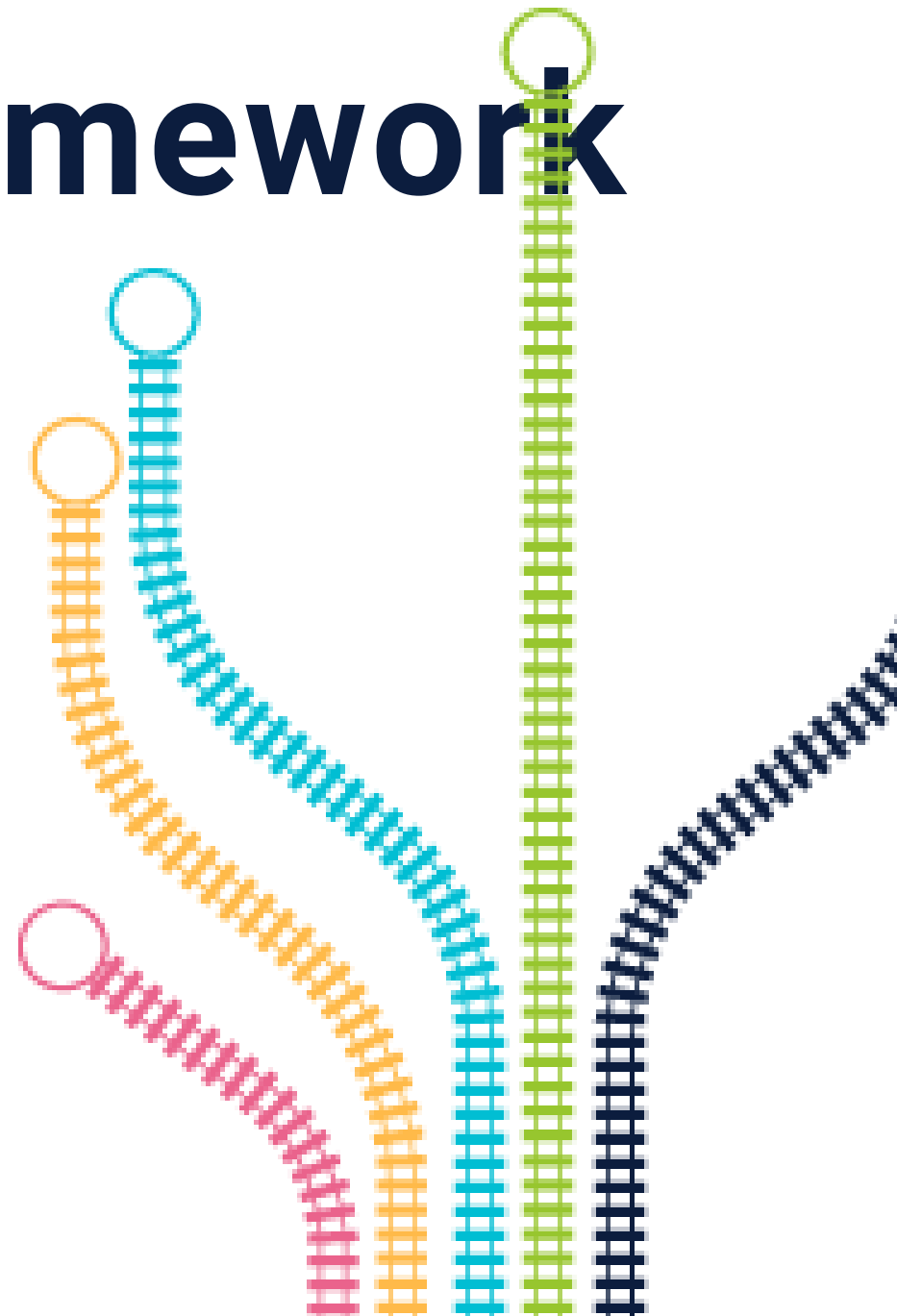
Fast Night Train Operations

Reviving sustainable travel —
enhancing interoperability,
ticketing systems, and onboard
comfort.



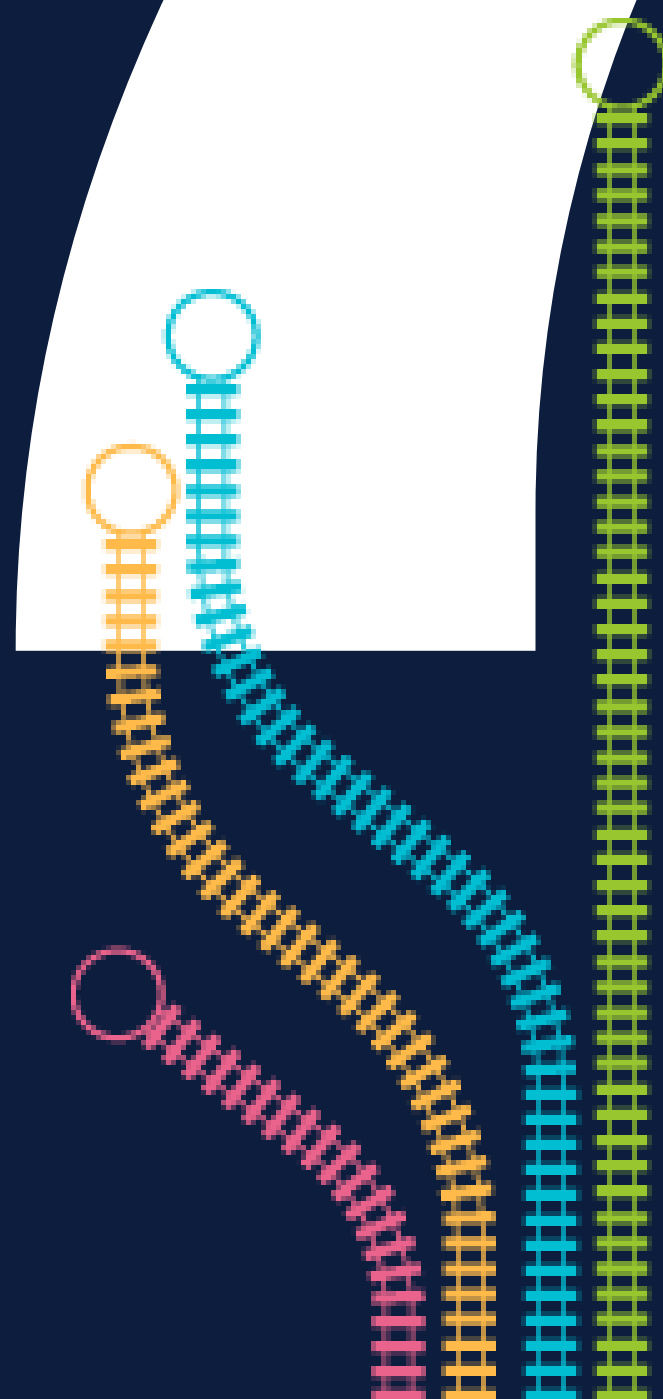
Bridge-Train Dynamics Normative Framework

Ensuring safety and comfort through harmonised structural, dynamic, and regulatory standards.



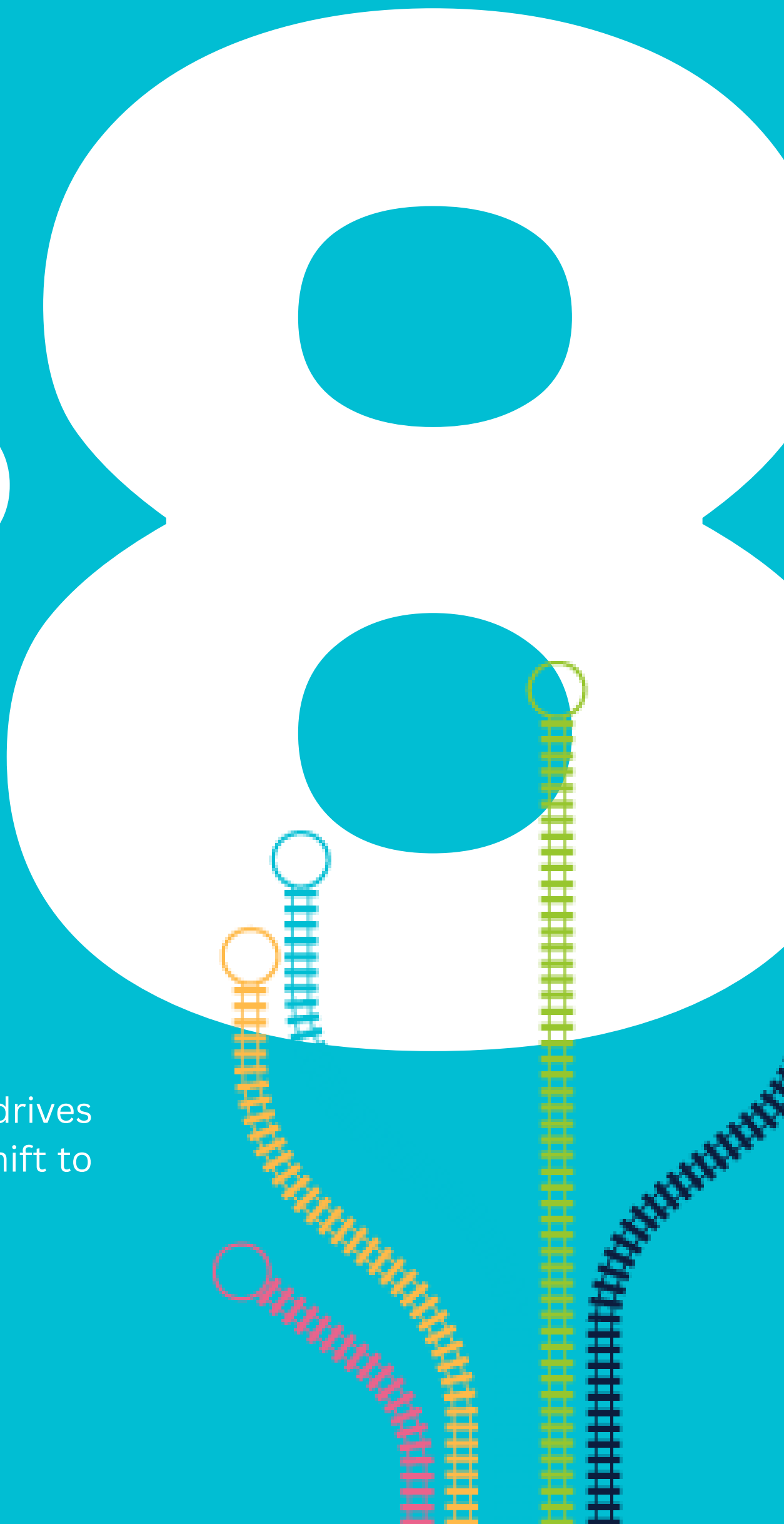
Human Factors in Digital Command Systems

Designing user-centred, safe, and effective digital control interfaces for the railways of tomorrow.



Economic Impact (KPI) of Rail Research

Measuring how rail innovation drives societal benefits — from modal shift to carbon savings.





Inclusion for Individuals with Intellectual Disabilities



Designing rail systems for everyone through accessibility, empathy, and participatory methods.

ICT Platforms for ERTMS Systems

Building interoperable, reliable traffic
management for the digital rail era.

