



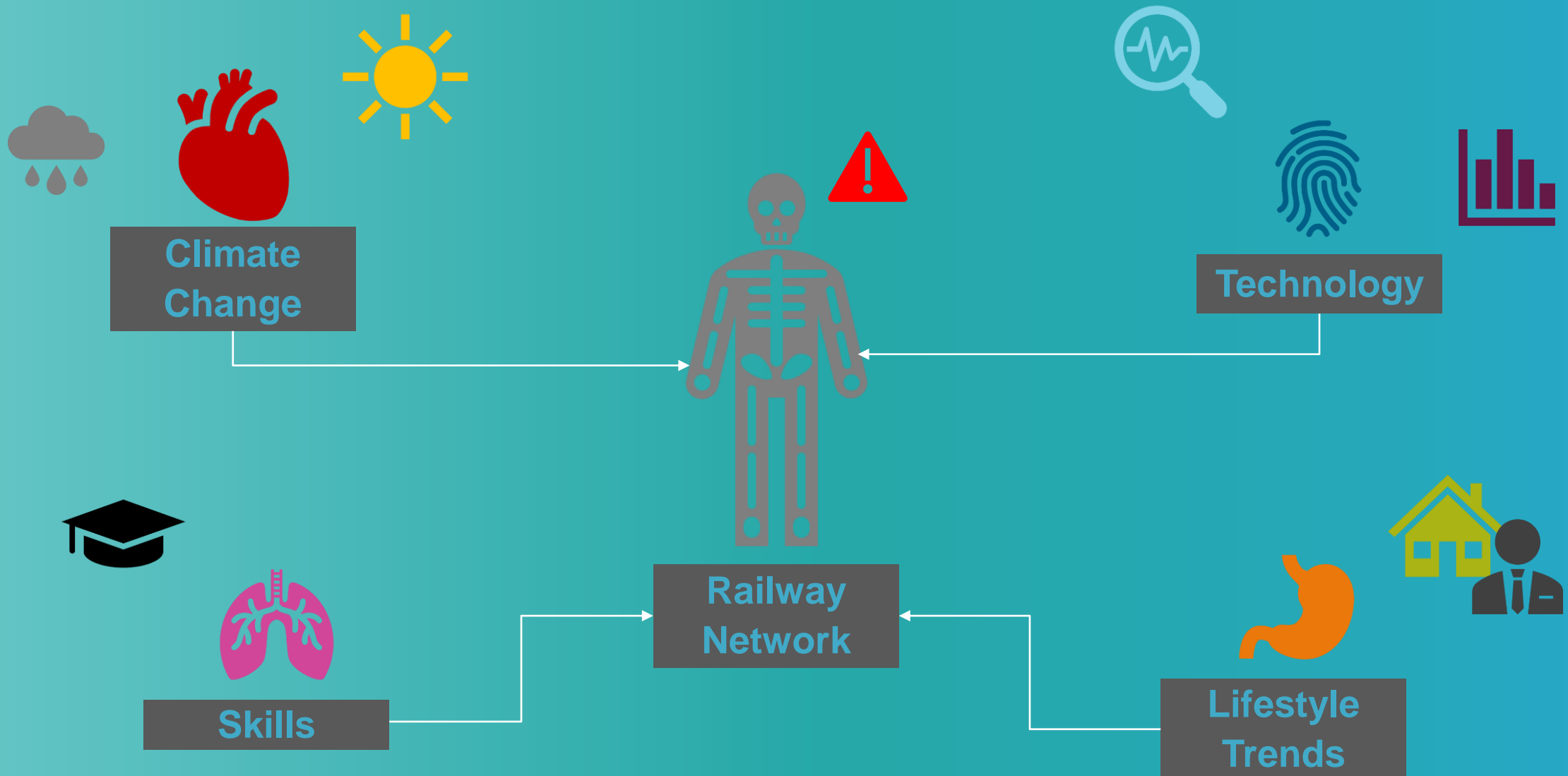
Resilience – more than just technology

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Introduction



Climate Change – how it affects Infrastructure & Technology



Climate Change – how it affects People



How to be resilient against climate change?



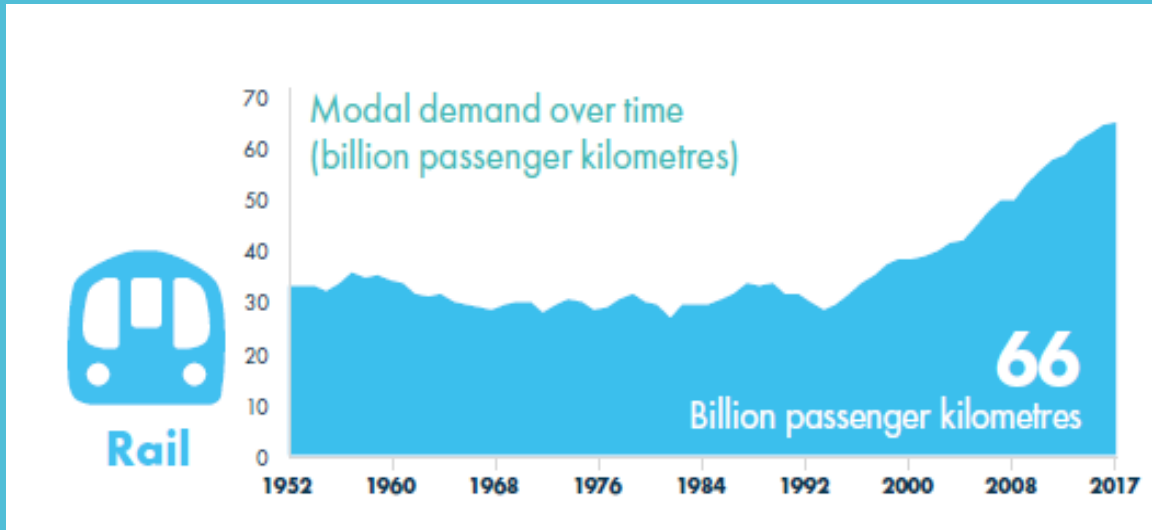
Prediction



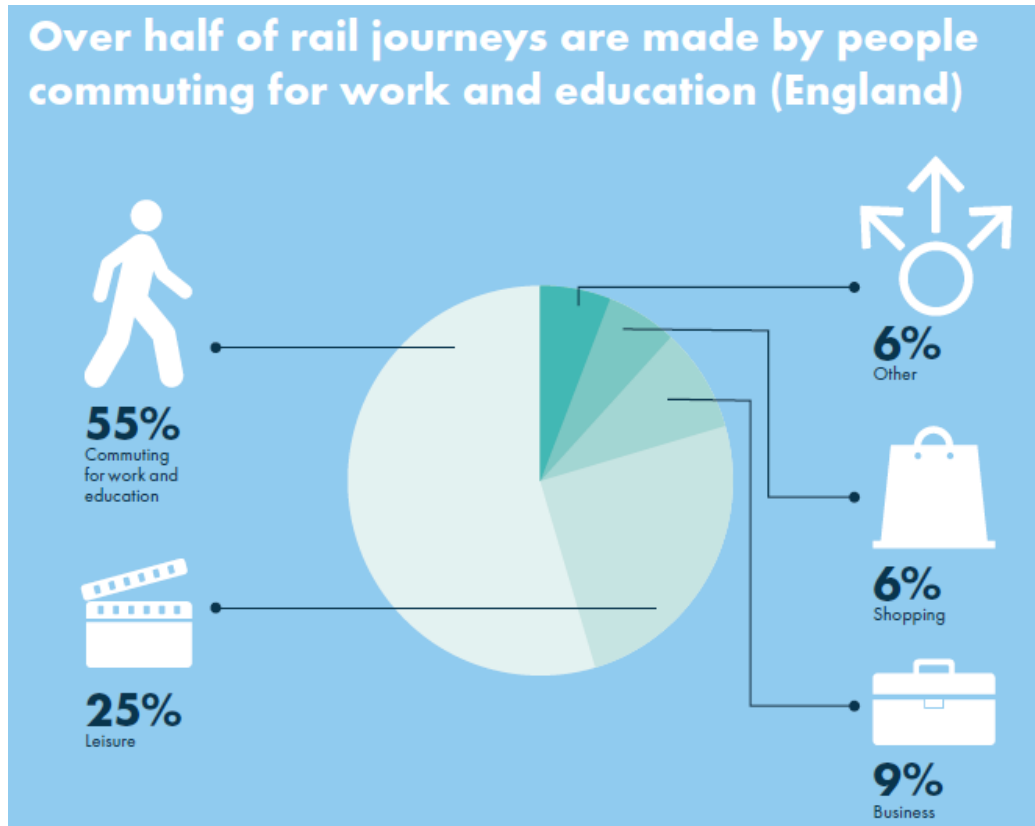
Intelligent Monitoring System



Ridership Changes



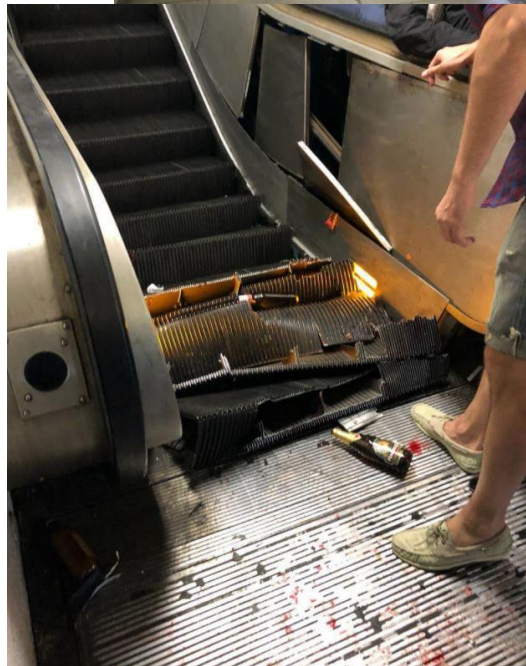
Lifestyle Trends affecting Ridership



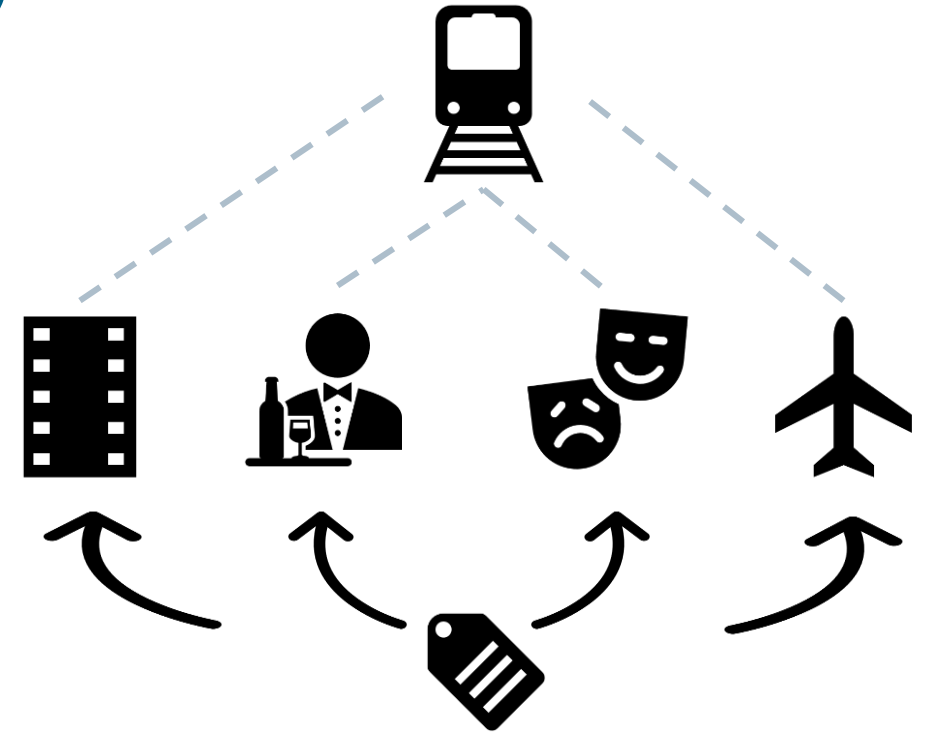
Resilience to maintain a sustainable railway



Better Frequency & Availability



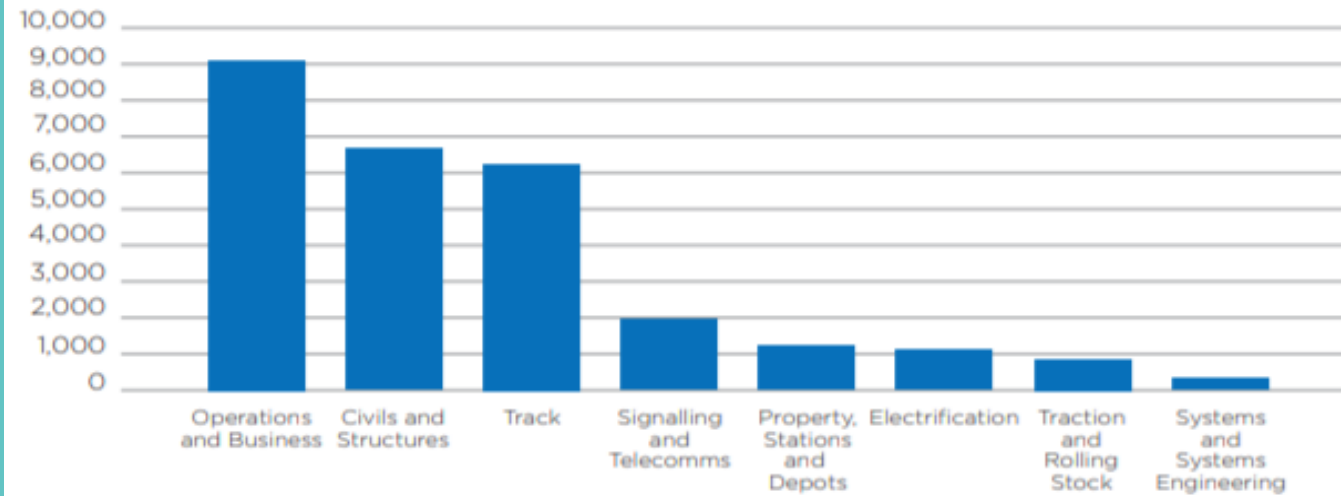
Asset Management System



One ticket

Skills Mitigation

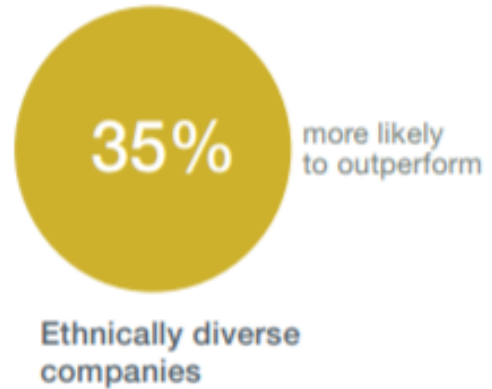
Total number of apprentices required by asset type to 2021/2022



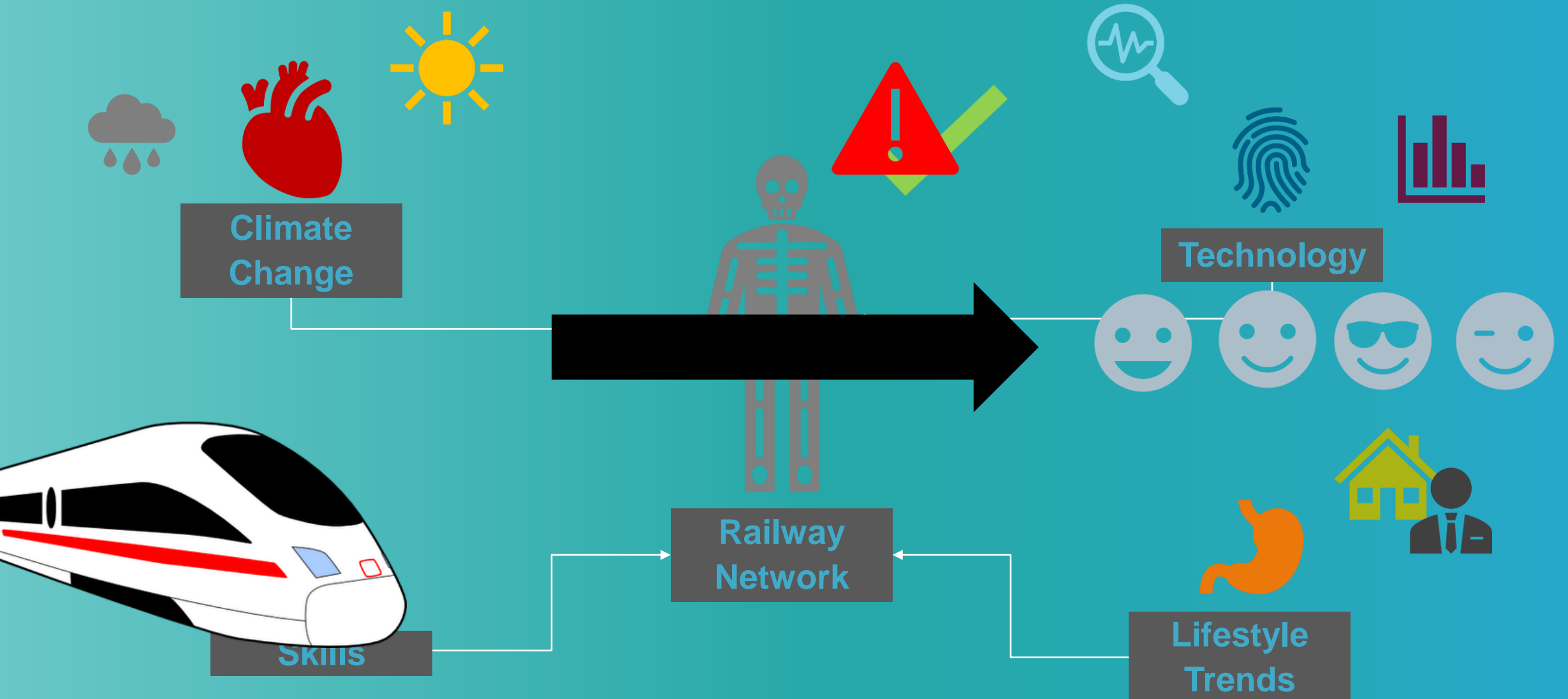
The need is for 27 000 to 35 000 apprenticeships over the period to 2022. This chart shows lower end of the range



Innovation



Conclusion



Thank you!



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