



HIGH-SPEED RAIL
INDUSTRY LEADERS GROUP



HS2 - Direct and Indirect Job Creation

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The Think Tank, Birmingham Science Museum
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Aims of the research



✓ To estimate the numbers of **direct and indirect jobs** that will be created by the construction and operation of HS2, in order to **understand the significance of HS2 as an economic driver**

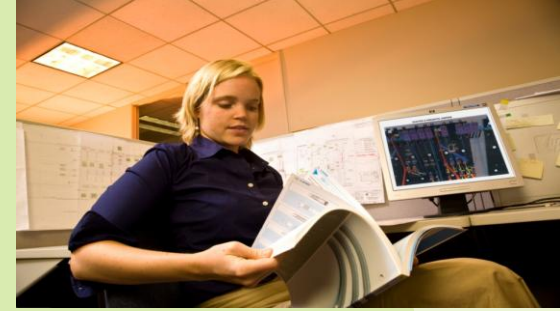
✓ To contribute evidence to the debate on how the public sector, engineering sector and railway industry can best be prepared for business development opportunities arising from HS2, including **manpower and skills requirements** of HS2

Scope of the research



- ✓ all **direct employment** for the **planning, design, construction and long-term renewals** of the infrastructure and trains
- ✓ indirect jobs from the **supply chain**
- ✓ permanent jobs for the **operation and maintenance** of the system
- ✓ all expected employment within the **station footprints**, including retail and catering units
- ✓ measured in **person-job years** across the planned economic life of the project

Method

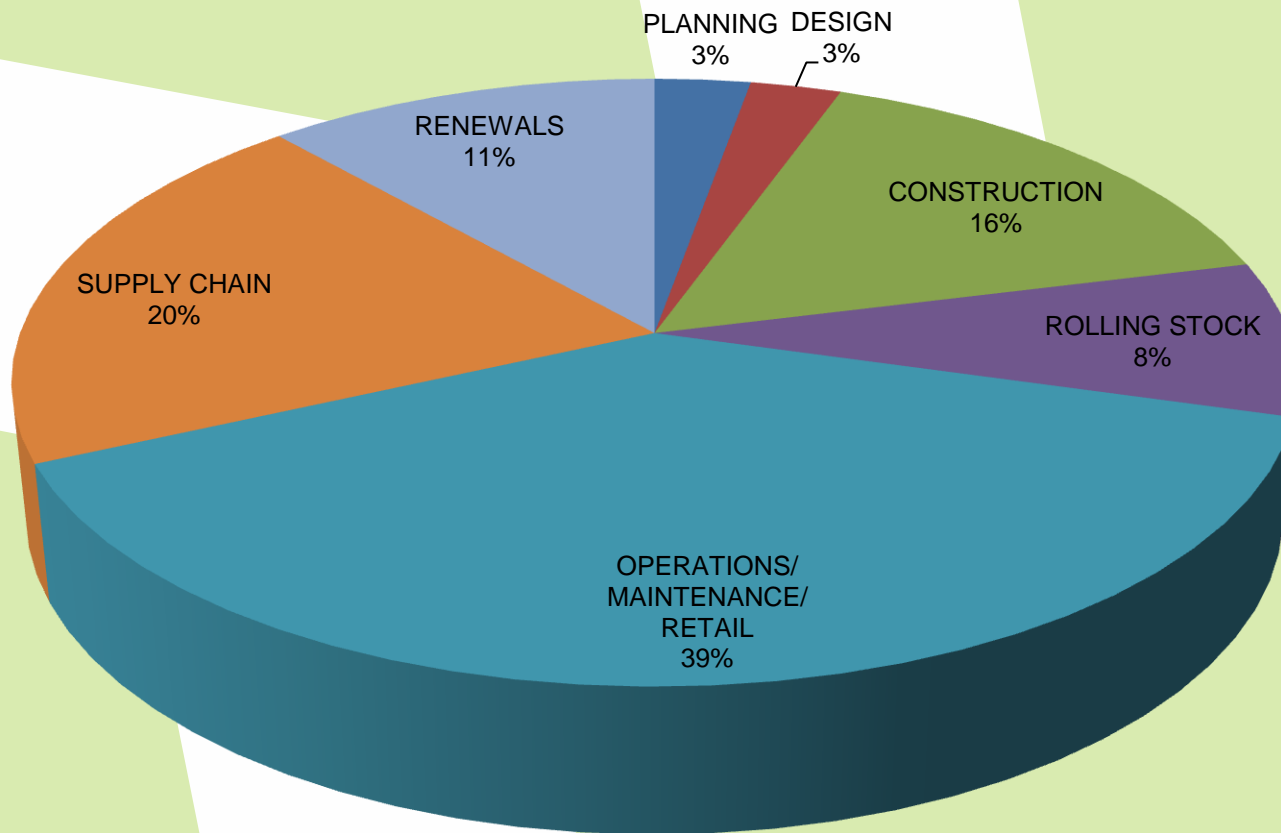


- ✓ job calculations estimated on **'bottom up'** principles wherever possible
- ✓ detailed relationships developed between **cost budgets, physical outputs, wage rates and employment**
- ✓ by type of **job and skill** level
- ✓ **benchmark** evidence from other High Speed Rail projects, including HS1 and TGV
- ✓ drawing on a number of evidence sources and **'coalface'** rail and construction **industry expertise**
- ✓ utilises disaggregate published **cost** and design freeze **data from HS2 Ltd** prior to the recent cost change

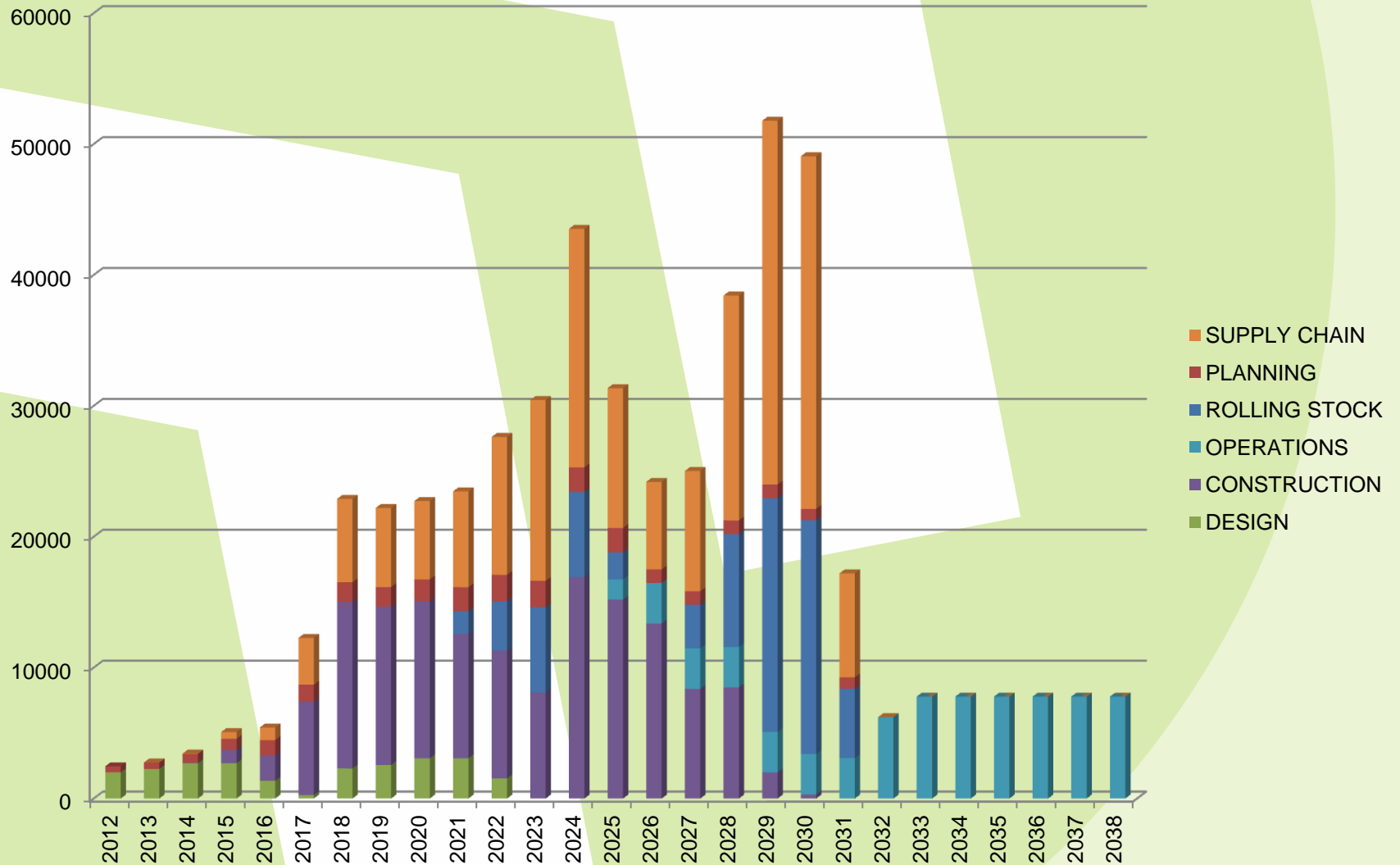
Key Findings

- ✓ total job years projected for the full HS2 project are almost **890,000** across the 60 year economic life of the project
- ✓ there would be at least **20,000** full time jobs per annum across a 13 year period, growing up to a maximum of **50,000** jobs at any one time
- ✓ the vast majority of construction jobs (**80%**) would be within **civil engineering** although specialist railway engineering jobs will place pressure on scarce skilled resources in **signalling** and **electrification** in particular
- ✓ projected to be **7,800** permanent jobs created in operations, maintenance and retail
- ✓ **building trains** for HS2 represents a major **manufacturing** and **supply chain opportunity** and the timing of procurement will be important to avoid order book discontinuity and production inefficiency

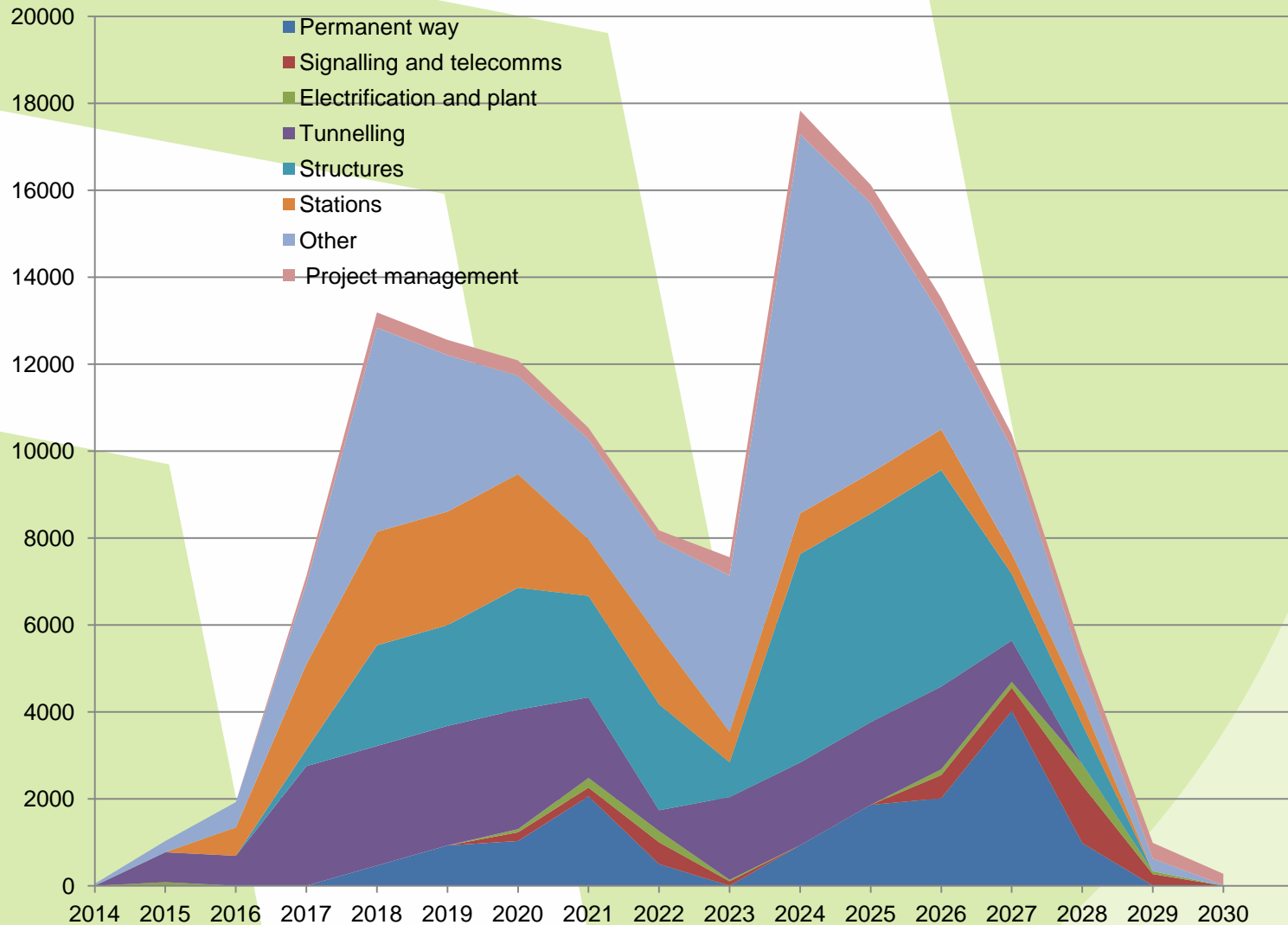
HS2 'Y' Network - Whole Life Job Years



HS2 'Y' Network Jobs Profile



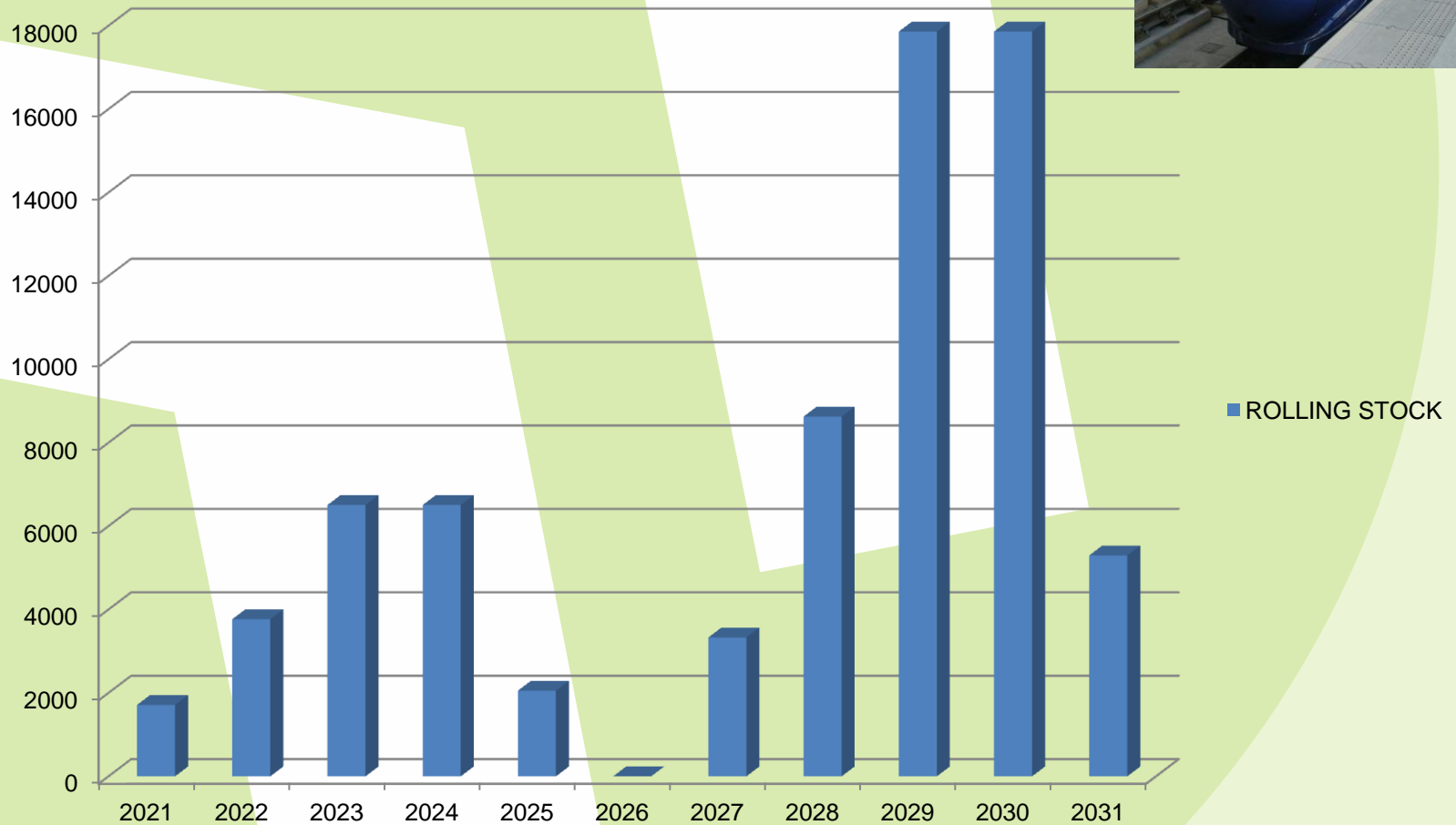
HS2 'Y' Network – Construction Job Profile



HS2 'Y' Network - Rolling Stock Jobs



ROLLING STOCK



More Information?



✓ Read the full report at <http://www.greengauge21.net/publications/hs2-jobs-analysis/>

✓ Contact me at: eyles204@btinternet.com

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