

T1145 model overview

An **economic model** to act as a decision support tool for **rail organisations and policymakers**, including a consideration of both economic and commercial factors to ensure that the industry can make actions based on the **costs and benefits** associated with both the economic and commercial viability of the traction decarbonisation options, for **passenger** and **freight** services.

This will be a **simple, configurable tool**, which is in line with **Web-TAG**.

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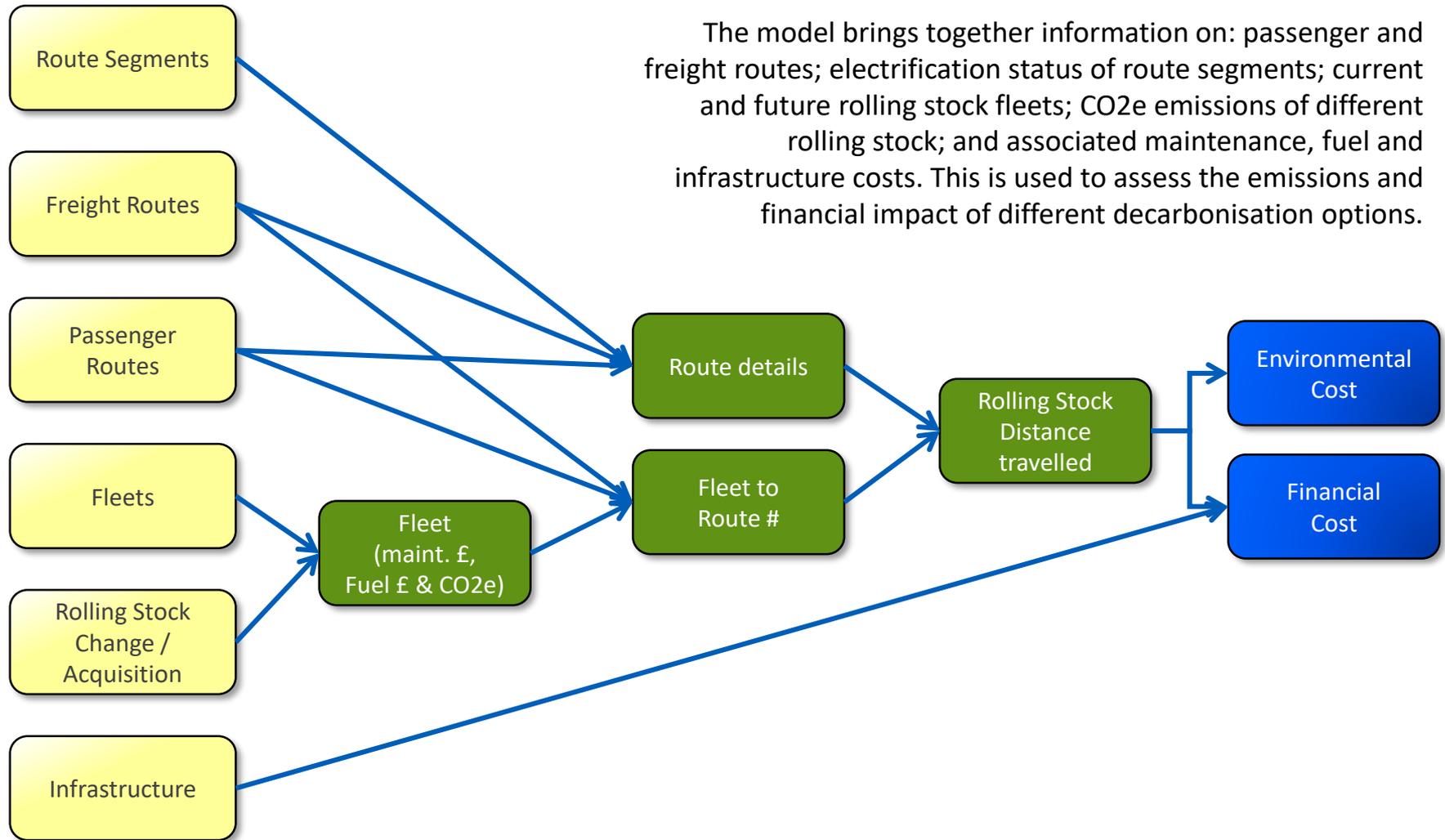
What it is:

- A tool for **high-level** economic analysis of the different potential decarbonisation schemes generated by WP2.1 of T1145
- A model to assess the financial and emissions impact of each scheme over a suitably lengthy appraisal period
- A model with the ability to explore different pathways by changing input parameters
- A representation of a large number of GB passenger and freight services
- An user-friendly model supported by guidance documentation

What it isn't:

- A detailed model of the entire rail network
- A tool to enable optimisation of decarbonisation options against target CO₂e goals

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The model brings together information on: passenger and freight routes; electrification status of route segments; current and future rolling stock fleets; CO2e emissions of different rolling stock; and associated maintenance, fuel and infrastructure costs. This is used to assess the emissions and financial impact of different decarbonisation options.