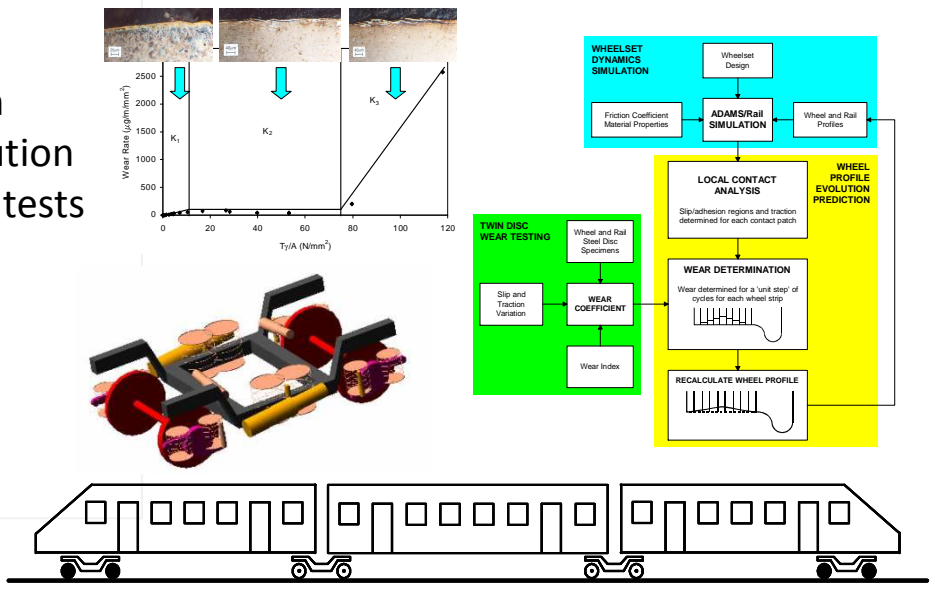
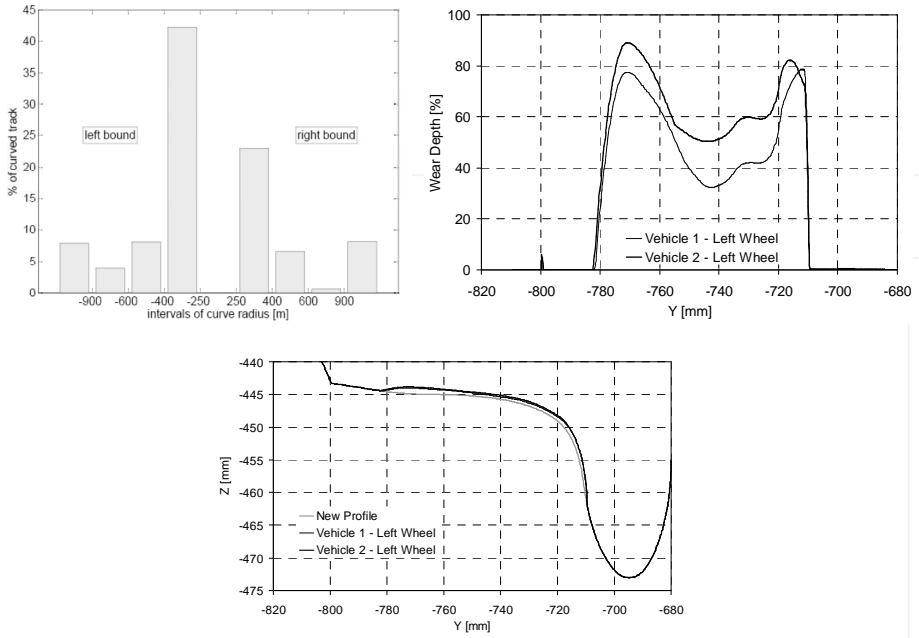


Railway Wheel Wear Modelling

Integrated Approach to Modelling

- Multi-body dynamics simulations combined with contact and wear models to predict profile evolution
- $T\gamma$ approach used with wear data from twin disc tests
- Real track routes modelled
- Results compared with actual field data



Outcomes & Further Work

- Tool developed
- Confidence built with parameter studies
- Comparison between full-scale roller rig results and model correlate well
- More wear data needed to build in effect of friction modifiers, environmental conditions etc.