

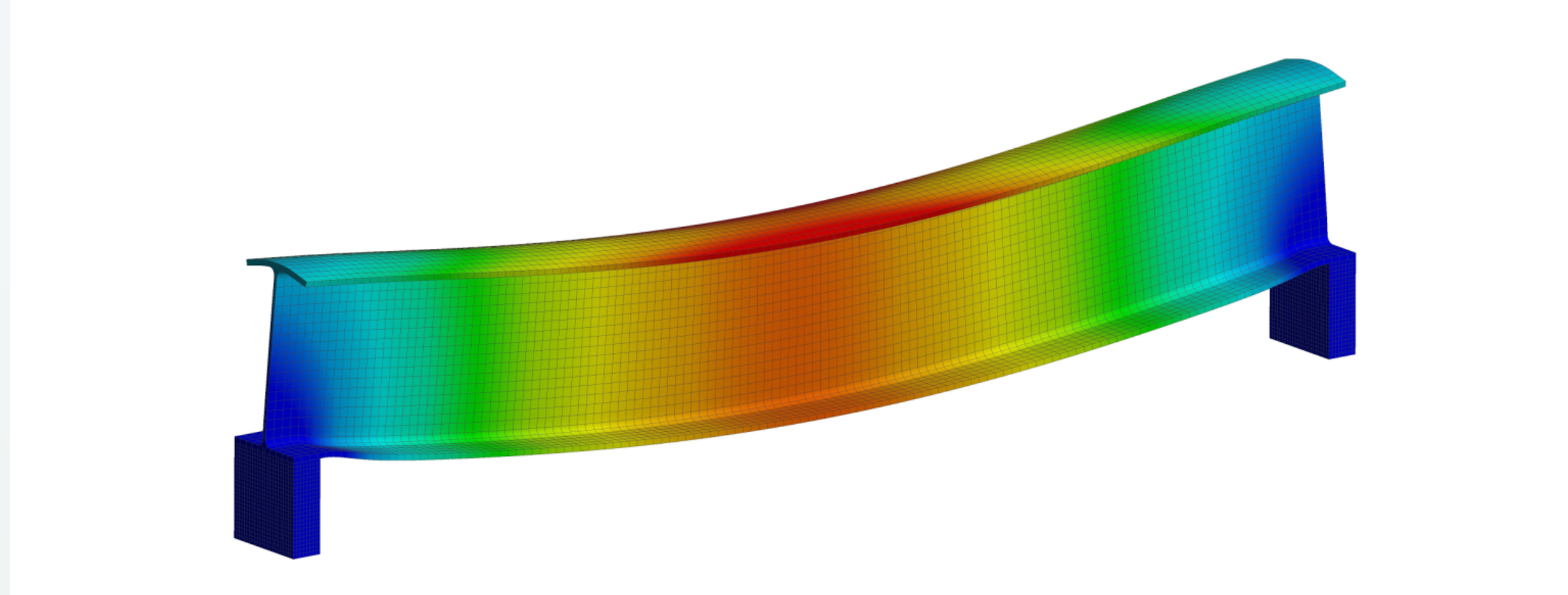
Finite Element Analysis of a Guideway for Automated Transit Networks

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Introduction

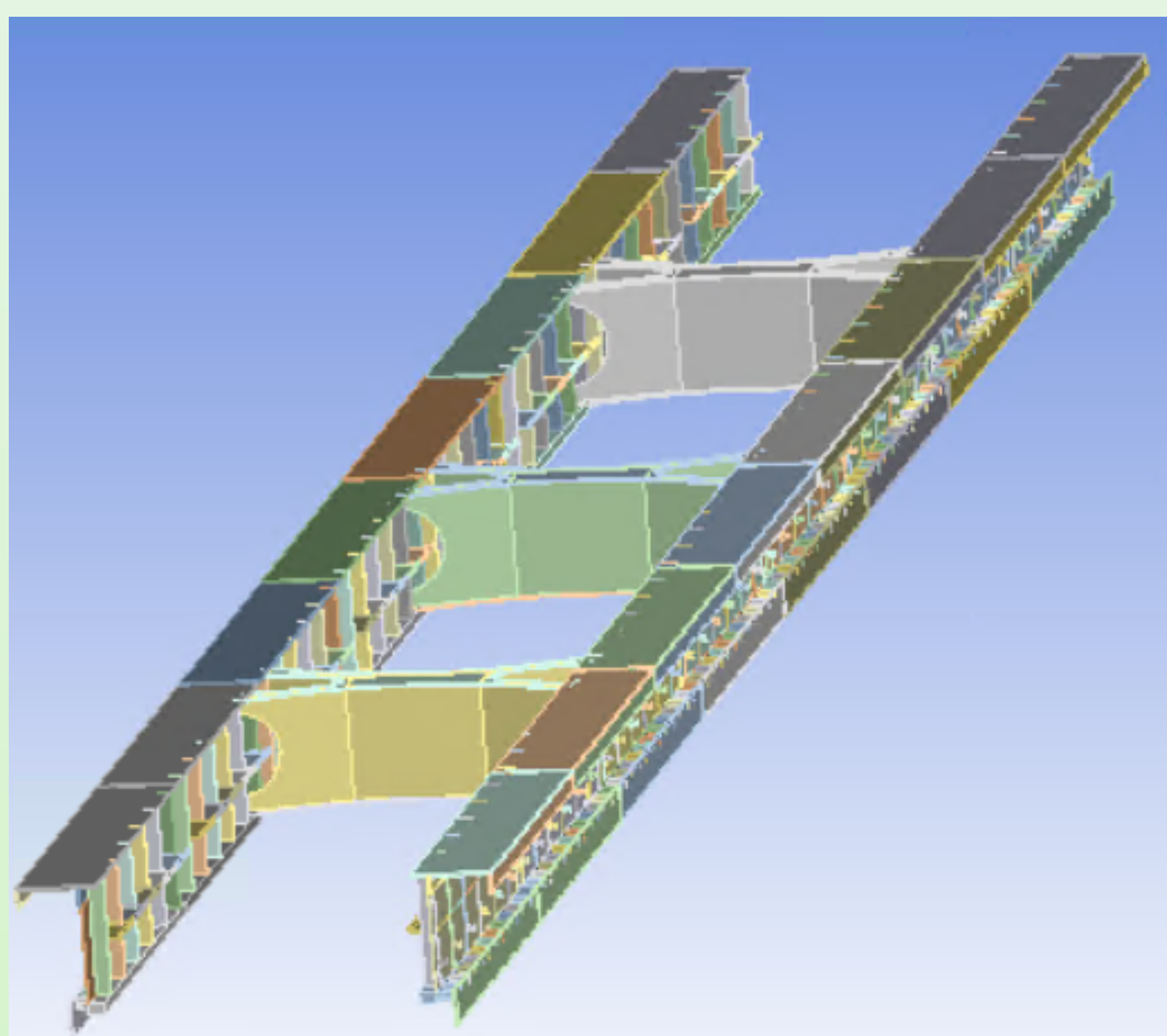
Finite element analysis (FEA) is a modern engineering tool vital to analyzing the structural properties of all elements. However, no finite element analysis has been done on an automated transit network yet (ATN).



Objective:

Determine the deflection of the guideway at mid-span as a result of wind, passenger, and bogie loading, the peak stress as a result of wind, passenger, and bogie loading, the Max von mises stress as a result of wind, passenger, and bogie loading, the bending stresses of the guideway as a result of wind, passenger, and bogie loading

Work in progress



SPARTAN
SUPERWAY