

Bridge Condition Petri Net Model

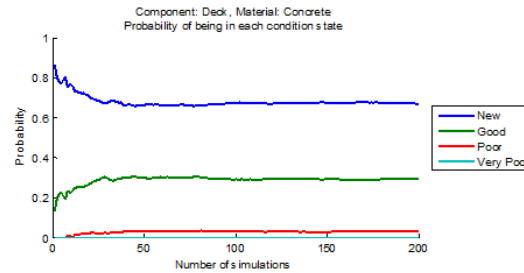
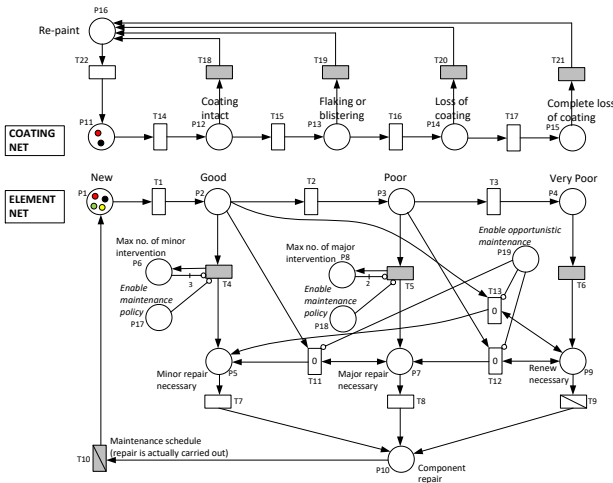
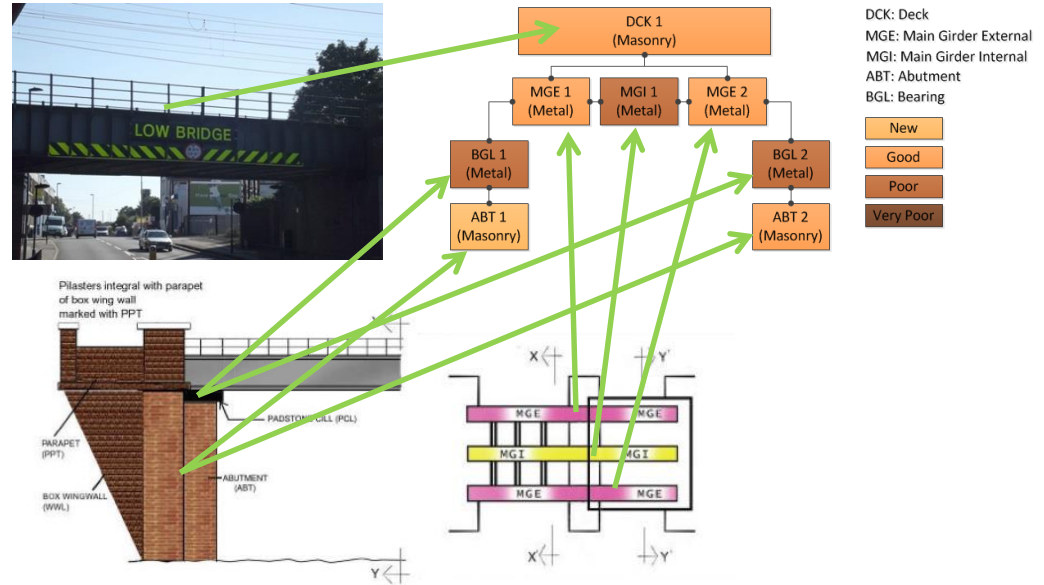


Background

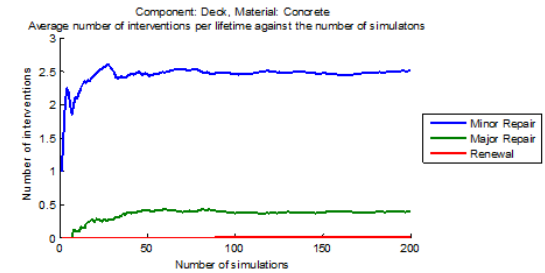
Bridge condition deteriorates slowly over time. Its state is controlled by the maintenance of its components including: inspection, servicing, repair, replacement and enhancement.

Objective

Predict the Whole Life Costs to maintain the bridge in an acceptable condition using a Petri net.



Mean time of being in each condition states



Average number of interventions