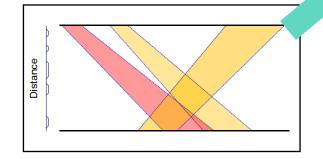
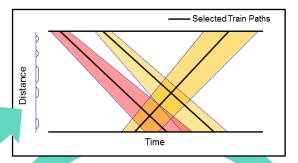
- This simulation was developed to estimate the traffic conflict density alone a rail mainline, thus can help the selection of infrastructure investment projects.
- The simulation was based on Monte Carlo process to take account the impact of the randomness of train departure and trip time
- The figure below shows the framework of the simulation

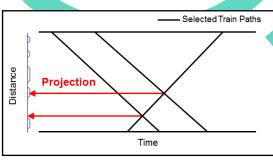
Train Plan with Schedule Flexibility and Predefined Zones



Train Path Selection



Monte Carlo Process



Conflict Projection

Histogram of Conflict Density Per Zone

