Technical Hints for Future Development

1. **Addition of more random probability distributions:**

For adding more distribution functions from Apache’s Distribution library just add corresponding cases in SetupParameterPanel.java and validity and parsing code for plain text in TextParser.java

1. **Addition of Google Map distance API to calculate distance matrix:**

Add similar code as used for getting geo-coordinates of source and destination. Just pair each source and destination and generate a 2-D array for distance matrix. For preventing errors use this as an external tool or plugin to get the array and save to some excel file so that repeat usage of API is not required any more. Add considerate delay if Google blocking result after a certain query limit.

1. **Adding Arrays for chart visualization:**

Add an iteration number count for display of chart as in map visualization and only add chart for particular iteration this does not provide very nice functionality but then multiple series can be added if user wants to show all iterations for array values.

1. **Customizing Map visualization to take extra input as Depot and Mode of Transportation:**

Edit map.html file in res folder to update the map UI also change SetupMapVisualizationPanel file to add missing fields.

1. **Adding all iteration data in a single map page:**

Save the URLs for all iterations in a JSON format in the “Models\MapData” directory (create this directory) and edit map.html to pick the data from that directory. Add a dropdown in map.html to dynamically select a particular URL from that file.

1. **Save chart and map visualization to excel file:**

Add a save button to both SetupVisualizationPanel and SetupMapVisualizationPanel and save this data to excel file similar to how input modelling data is saved to excel. ModelSaver will be modified to add related functionality that adds two tabs in excel for chart and map visualization.

1. **Initialization of modified variables in the order that they appear:**

While writing variables to temporary ‘mosel’ file keep the same ordering as contained in the original symbol list. Grouping external variables and initializing them before other variables might cause dependency problem in ‘mosel’ file.