

## *DHL Supply Chain Case*

### **Questions:**

You may use solver tool within MS Excel (or anything else) for these optimizations:

1. Complete the provided Excel template to demonstrate how the original supply chain was optimized on a budget of CNY 3 billion. If you make any assumptions, please clearly state and justify them.
2. Evaluate the extent of the reduction in CO2 emission if the budget were increased by 10 per cent to CNY 3.3 billion. **Analyze this result.**
3. Sensitivity analyses: Repeat question 2 for other possible percentage increases in the budget. Try multiple values of the percentage increases in budget, and plot a graph with the percentage increases in budget on the x-axis and the CO2 emission on the y-axis. **Analyze this result.**
4. Please submit your report as well as the excel file (or whatever file you used) before the class. The system will allow you to upload multiple files in the submission.