Development of a strategic training tool for supply chain design, modeling and simulation targeted at medium and large size companies

Master Project in Industry
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Objective:
Develop a general simulation tool to help design any possible supply chain and apply it to a specific case in the context of training modules. The tool includes a user interface permitting the visualization of certain key performance indicators.

Conclusion:
The main goal of this project was to develop a supply chain design, modeling and simulation tool to apply it to specific cases. Using an Excel template, provided with the simulation tool, the user is given the possibility to build a supply chain network. The tool uses basic input parameters permitting the user to customize the network according to his needs. To add randomness to the simulation, stochastic elements may be implemented in terms of operation lead time variability.