

Proposal Topic for a Master thesis

Cement Supply Chain Integration Model design



Supply chains are becoming increasingly complex, the global demands on constructions and infrastructure improvements, changes in prices, growth in some markets and declines in others; all of these are factors lead the cement producers to keep pace with changes and press them to thinking on the logistic chains improvements; to increase productivity, streamline operations, maximize efficiency and Minimize costs and emissions.

Research scope:

Through an investigation in the nature of the cement industry, analysis, process requirements and critical issues; a simulation model of a Cement Industry Supply Chain is required in several scenarios to develop an optimal framework by using SCORE Model and further references (proposed below) for the benchmarking.

Task:

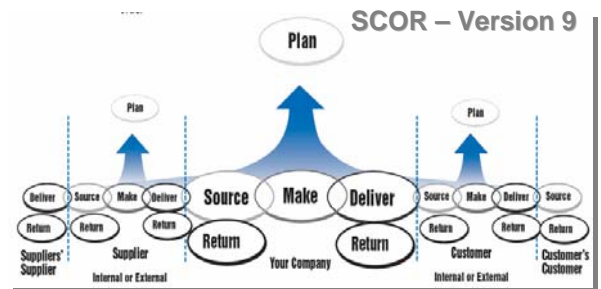
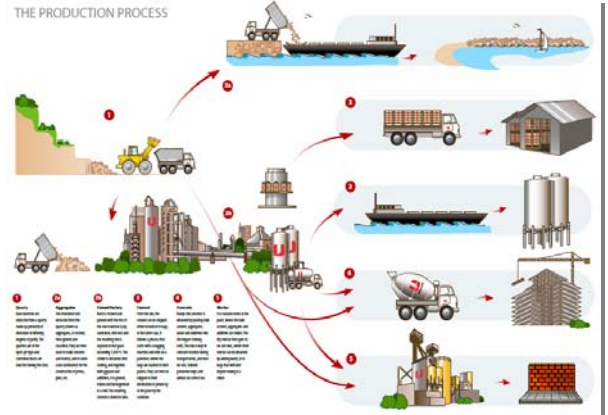
The following steps are required:

- An investigation in supply chain models and cement industry supply chain management.
- A Survey about the heuristics algorithms and techniques.
- Designing and constructing the target model.
- Comparing and evaluating the results with the benchmarking problems.

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Hint:

Skills in Programming and Mathematical modeling are essential.



Benchmarking References:



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