

## Semiconductor Supply Chain Management: Challenges and Efforts

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Semiconductor has been widely used in various electronic instruments such as personnel and mainframe computers, mobile communication, digital photography, etc. For instance, semiconductor market in 2007 is forecasted as much as \$ 253 Billion (World Semiconductor Trade Statistics, May 2007). Particularly Supply Chain Management (SCM) in semiconductor industry has been drawn much attention from the academia as well as industry because of its economic impact under current increasingly competitive and narrow profit environments. This presentation particularly overviews some of its representative issues from the process systems engineering perspective. By reviewing challenges in semiconductor manufacturing industries, how SCM can contribute to proactively increase the competency is addressed with illustration of actual case studies.