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Financial Risk, Inventory Decision and Process Improvement for A Firm with Random Capacity

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**Highlights**

- We study a firm in a newsvendor setting with a randomly capacitated supplier.
- Firm value is measured by the Capital Asset Pricing model.
- We find the inventory that maximizes firm value and show it is supplier-independent.
- We prove that capacity process improvements yield firm value increases.
- Our results may guide supplier selection and capacity process improvement efforts.

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