Forecasting Methods Mobile Phone Case Examples

NOKIA

September 16, 2010

Company Confidential

Agenda

- Introduction
- Importance of forecasting
- Short term forecasting methods
- Long term forecasting methods
- Q&A



My name is P.S. Subramaniam.

- Nokia Customer Logistics, North America
- Accountable for planning & order fulfillment for NAM customers

Select companies I have worked with:







The mobile phone supply chain is complex with perishable and substitutable products.



Average lifecycle of a handset is ~9 months

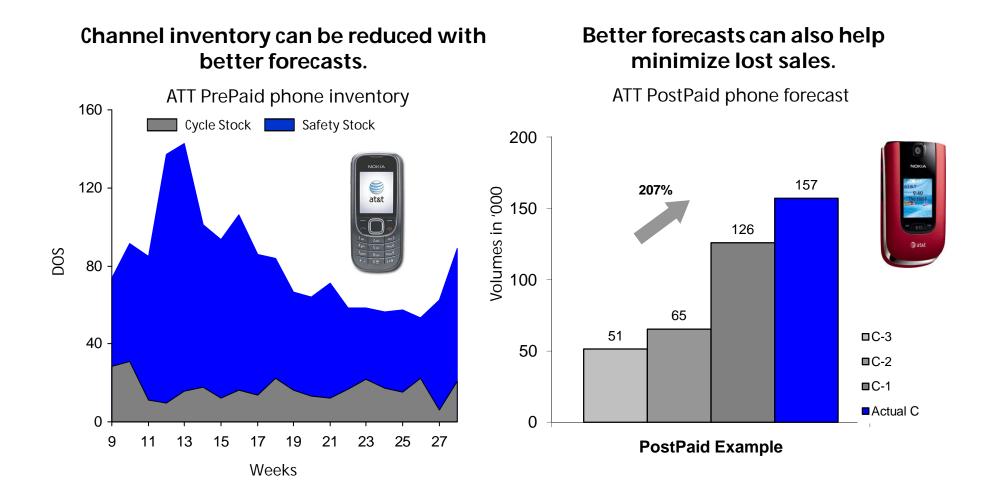
Note: DOS = Days of supply measured as on hand inventory/ avg daily forward looking forecast

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Competition

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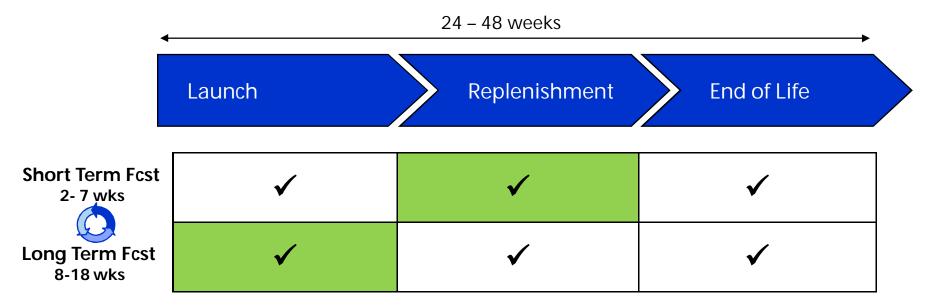
Accurate demand forecasting is key to minimizing channel inventory and lost sales.





There are two types of product forecasts; each driving different decisions.

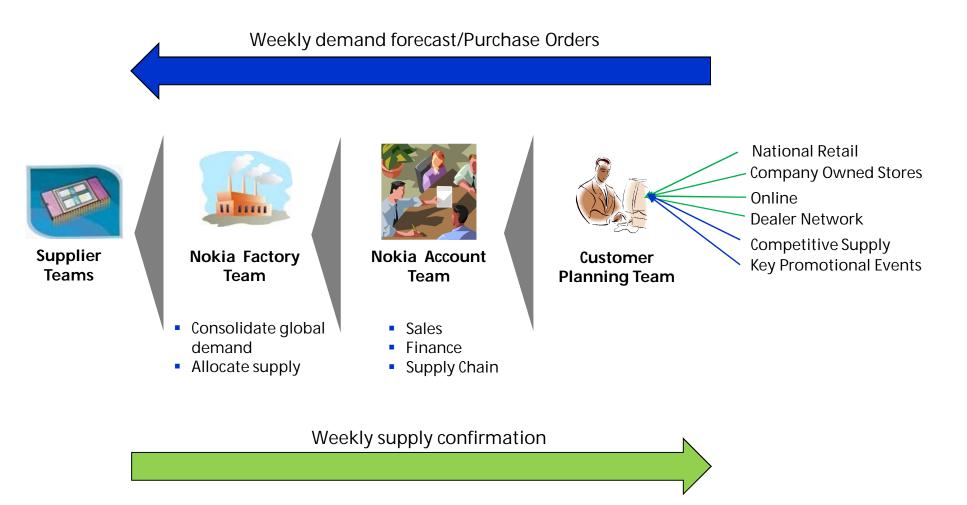
Stages of a product lifecycle



	Short Term Forecast	Long Term Forecast
Activity	 Collaborative planning 	 Projected lifetime volume & timing
Decision	 Replenishment plan 	 Raw material purchase, mfg. plan



Short term forecast is driven by a robust Sales & Operations Planning process.





Quantitative analysis is used to improve the quality of the S&OP process.

Areas of Focus

Planning

Sample Methods

- Analyze consumer sales across channels to proactively adjust forecast
- Model demand lift from promotions
- Detect supply constraints early to proactively substitute products

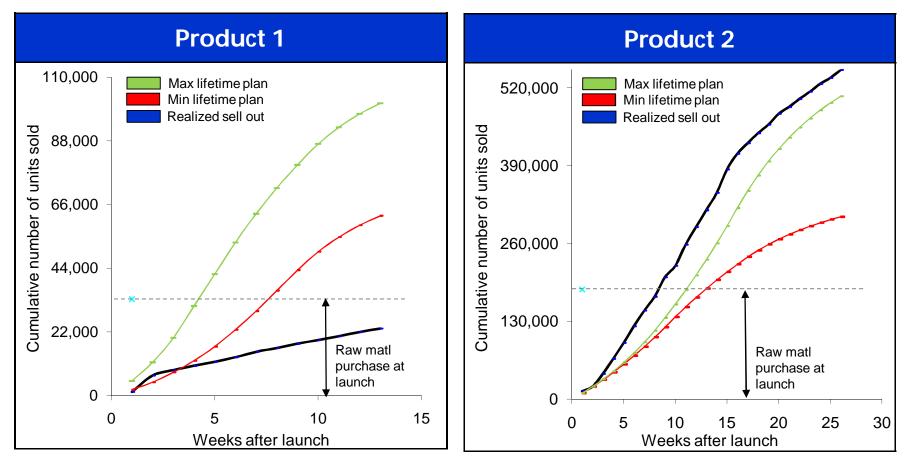
Execution

- Increase order lead times
- Track channel inventory anticipating order pull-ins and push-outs



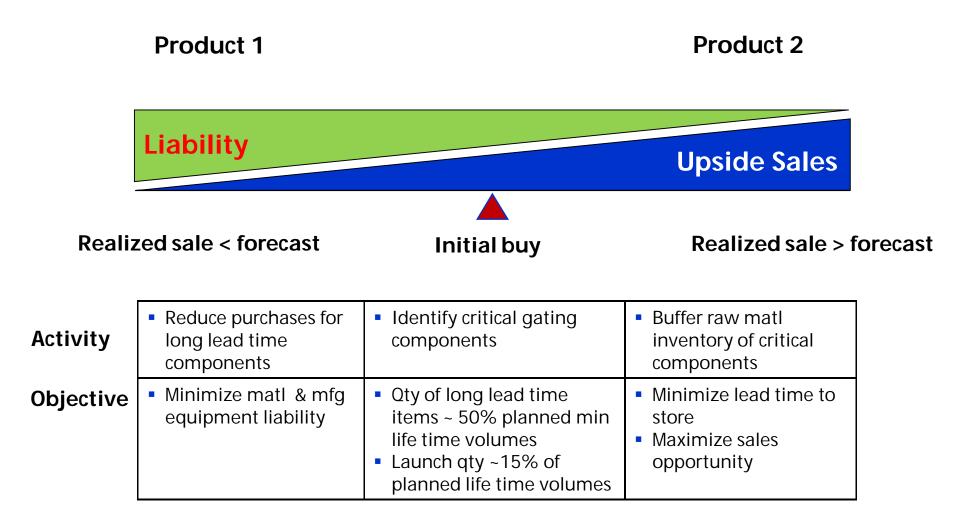
Longer term forecast contributes to prudent raw material sourcing and mfg planning.

Two cases illustrating complexities of launch planning





Initial buy qty is set by heuristics and continually adjusted based on actual sell out in the field.





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