

da Vinci Center

Addressing the Challenges of New Product Forecasting

Kenneth B. Kahn, Ph.D.

Professor of Marketing and Director, VCU da Vinci Center

Virginia Commonwealth University

Richmond, Virginia

kbkahn@vcu.edu

Today's Agenda

- Discuss the challenges of new product forecasting.
- Compare new product forecasting with forecasting existing products (regular sales forecasting).
- Offer prescriptions for managing the new product forecasting endeavor.

New Product Forecasting Issues/Realities

- > Limited amount of data available for analysis
- > Limited amount of time for analysis
- Inability to fully capture market complexity, cannibalization, market penetration rate, etc.
- > Low credibility
- Low accuracy (high forecast error)

New Product Forecast Accuracy

Type of New Product	% Accuracy Achieved*	
Cost Reduction	72%	
Product Improvement	65%	
Line Extension	63%	
New Use/New Market	54%	
New Category Entry	47%	
New-to the-World	40%	
* Self-reported accuracy one year after launch.		

Source: Kenneth B. Kahn, Journal of Product Innovation Management, March 2002

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Solving the problems of new product forecasting



Kenneth B. Kahn 1

Virginia Commonwealth University, 301 W. Main Street, Richmond, VA 23284-4000, U.S.A.

KEYWORDS

Business analytics; Forecasting; New product forecasting; New product launch Abstract An important consideration in solving the problems of new product forecasting entails distinguishing new product forecasting from the process of forecasting existing products. Particular differences between the two can be identified across the dimensions of data, analytics, forecast, plan, and measurement. For example, new product forecasting features little to no data with which to begin the process, whereas data are available and accessible in forecasting existing products. The minimal data situation requires a qualitative approach that lays out assumptions to provide transparency; in contrast, quantitative techniques are predominantly used when forecasting existing products. Different assumptions help construct a range of new product for ecast

Forecasting Existing Products

versus

New Product Forecasting

Distinguishing New Product Forecasting

	Forecasting Existing Products	New Product Forecasting
Data	History	Assumptions
Analytics	Statistical	Judgmental
Forecast	Point	Range
Plan	Certainties	Contingencies
Measurement	Accuracy	Meaningfulness

Data

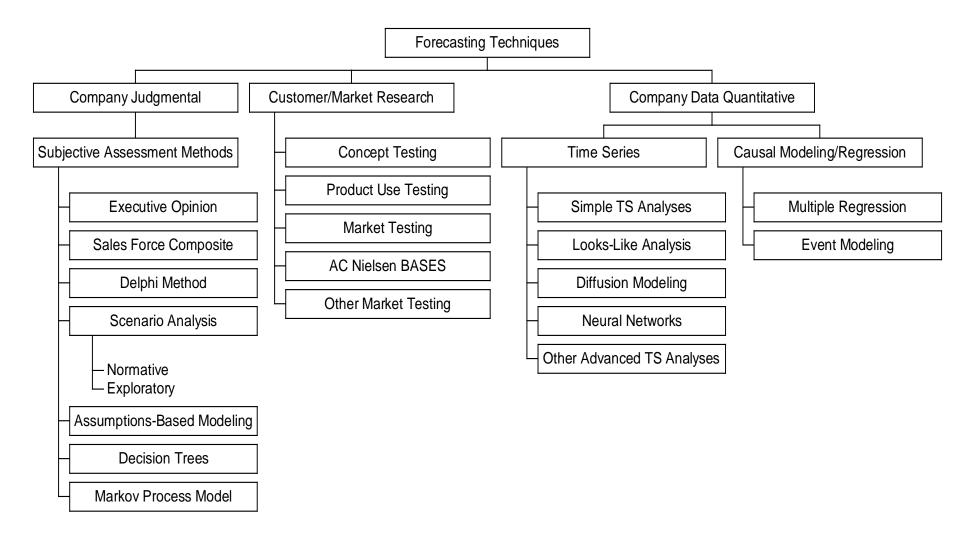
- Sales Data (Time Series)
- Other Quantitative Data

Qualitative Data

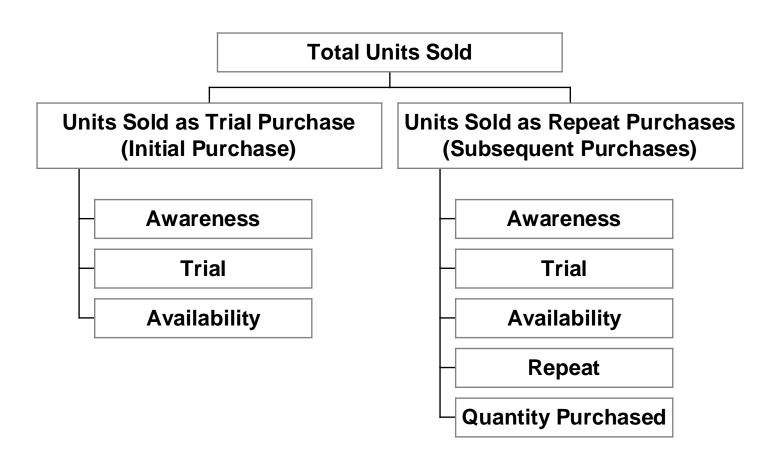
Assumptions

Analytics

Types of NPF Forecasting Techniques

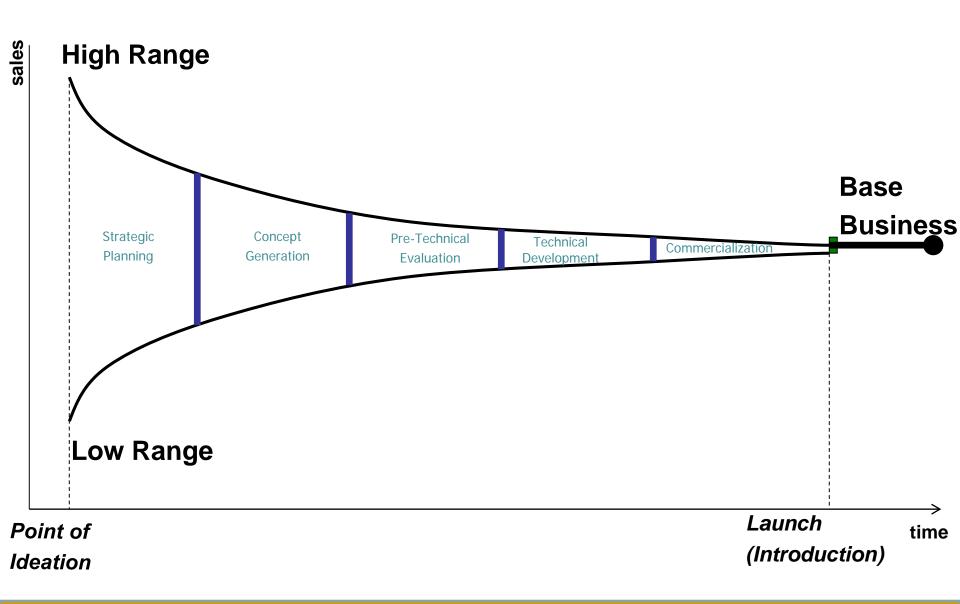


The ATAR Model



Forecast

New Product Forecasting Uncertainty



Types of NPF Forecasts

- Market Potential
- Sales Potential
- Market Forecast
- Sales Forecast

Plan

Which Plan?

Demand Plan

Financial Plan

Production Plan

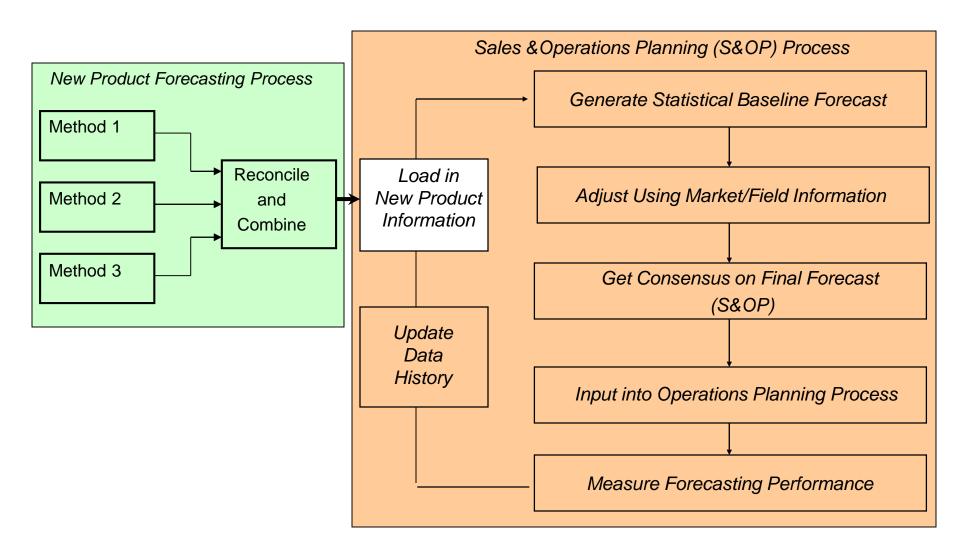
Contingency Planning

Potential Problem	Tracking	Contingency Plan
Customers are not making trial purchases of the new product as expected.	Look at POS reports. Minimum, 100 purchases monthly per retail outlet are expected.	Install point-of-purchase displays.
Competitor may have similar new product.	Difficult to track, but conduct surveys with retailers and final consumers.	Offer 2 for 1 program. Consider bundling new product with other products.

Measurement

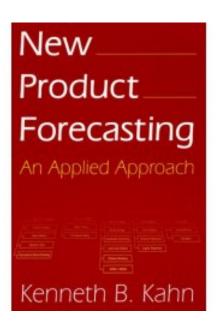
Managing the New Product Forecasting Endeavor

New Product Forecasting and the S&OP Process



Summary Thoughts

- ✓ New product forecasting differs from forecasting existing products.
- ✓ New product forecasting is not about data, techniques, and systems, but rather quality assumptions, judgment, and process.
- ✓ New product forecasting is less about data crunching and more about providing insights that enable senior management to better evaluate risk and decide how to act.
- ✓ New product forecasting is not so much about accuracy, but about increasing the propensity for new product success.



Ken Kahn kbkahn@vcu.edu