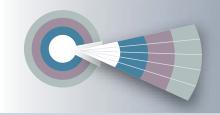
## **PRODUCT DEVELOPMENT:** developing the right product, the right way, at the right time



The Performance Manager Series



# 0

## INTRODUCTION

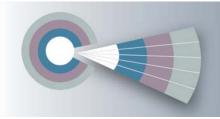
TThe new business book, *The Performance Manager*, can help you turn the growing informationintensity of your job from a challenge to a competitive advantage. Its thesis is simple—rather than sifting through all the data your organization may produce, if you pay attention to certain sweet spots, you will make better decisions, create better goals, and set better plans about issues that truly drive your company. We're pleased to offer you this chapter for **Product Development** drawn from the book.

*The Performance Manager*, Proven Strategies for Turning Information into Higher Business Performance looks at the partnership between decision-makers and the people who provide the information that drives better decisions. It offers suggestions for 42 decisions areas, or information sweet spots, taking into account your need to not only understand data, but also plan and monitor your performance. These decision areas are organized by the eight major functions of a company: Product Development, Sales, Marketing, Finance, Customer Service, Operations, Human Resources, Information Technology, plus an over-arching section for Executive Management. You will find three of these decision areas in this paper.

Each chapter introduces key challenges and opportunities companies face in the specific function. *The Performance Manager* then dives into each decision area, illustrating the core content of the corresponding information sweet spot. These are organized into two types of measures: goals and metrics, and a hierarchical set of dimensions that allow you to look at the information from a variety of vantage points.

Each decision area then offers advice on who beyond the specific function would benefit from seeing the information (e.g., Marketing should see Sales pipeline targets) to make better performance a truly cross-organizational exercise. We hope you see the value in this white paper and investigate other functional areas and their decision areas, or <u>take our offer for the whole book</u>, *The Performance Manager*.

We acknowledge and thank the great thinkers at Business Intelligence International, PMSI, and the staff and customers of Cognos, an IBM company, who offered their insights to make this publication possible.



## PRODUCT DEVELOPMENT

## Developing the Right Product, the Right Way, at the Right Time

*Innovation is not the product of logical thought, although the result is tied to logical structure.* Albert Einstein

Product Development and its innovations are critical to your business and competitive ability. They represent the lifeblood of future business success. Moving into a new market area with a new product is a high-risk activity, and success is rare. Equally rare is successful development of a product that fundamentally changes the value proposition within an industry. Such new product investments require deep financial commitment.

Economic and industry cycles set the context for the importance of innovation, and therefore of Product Development. In fast-growing market sectors, product change is part of the competitive race, and significant investments are made in Product Development. In mature markets, where growth has slowed, investors rely on Product Development to assess the organization's future potential. New product developments can help slow the rate of market commoditization and protect margin erosion. In these mature market sectors, new developments are likely to be incremental, and small advantages can differentiate a leader from less successful followers.

Product Development delivers a pipeline of new products that determine the organization's future financial performance and signify confidence in the future of the business. Three significant barriers prevent it from delivering the required product changes in the most effective way.

#### Barrier 1: Lack of information to determine strategy requirements

Product Development embraces risk. The odds are stacked against continual success, especially if the business expects a BIG new product idea. Companies typically define Product Development success by sales or profit growth and the ROI expected within a given time period. Measuring financial performance is vital, but interpreting success too rigidly may lead the company to miss innovation opportunities. It is better to define and measure drivers and development milestones that affect the pipeline of new products. Similar to a portfolio investment strategy, these metrics allow for more opportunities (and therefore more failures) but let you know when to "fail fast" to satisfy the overarching profit or growth goal. Only a few product initiatives make it through to the final development stage. You can tolerate a calculated and controlled percentage of failure if the overall portfolio of new product developments is financially successful.

You may employ other aspects of portfolio investment strategy to determine your investment risk profile. How much money should you invest in new product development for low, medium, and high-risk ideas? Only a small proportion of investment should be devoted to high-risk big new ideas. Most investment should be in safer, incremental product development ideas. These will better match the current product range, and serve the dual purpose of protecting the existing business while extending the product proposition beyond what is currently offered.

Determining the right mix requires that Product Development benefit from insights into markets and customers. This means knowing what product features and price points could shift purchasing behavior, and understanding the operational costs and production implications of these. Only by integrating all these business inputs and information sweet spots can you achieve a well-developed new product proposition.

## Barrier 2: Product Development lacks the integrated business process information needed to develop targeted, comprehensive product offerings

Product Development decisions affect and rely on Marketing, Sales, Finance, Operations, and other business departments. Without appropriate visibility, departmental barriers may get in the way and stymie the Product Development process. By monitoring the appropriate performance drivers, combined with appropriate incentives, you can improve the Product Development process from idea generation to alignment on priorities to engaging Finance, so the value of new products is understood and forecast.

#### Barrier 3: Inability to measure and analyze the drivers of Product Development success

New product pipelines depend on timely action. Speed to market paired with insight from "fast failures" are more important than perfection and indecision. Risk is part of the development process. "Calculated" failures are not necessarily negative; they may actually assist the development process. Failures can become stepping stones toward success.

Product Development must understand what drives success and failure. When developments reach a milestone, the company should test the product proposition in the market. The feedback you require will determine the means you select: selective customer input, larger external research, or a limited territorial launch.

No amount of testing guarantees success. Making the "go or no go" decision requires information sweet spots to allow the business to decide whether it needs more resources to improve the new offering, or if the cost of delay—either in lost revenue or lost competitive advantage—means the product must launch now.

#### From a Gamble to Controlled Product and Portfolio Development

Product Development combines many cross-functional requirements, balances risk, learns from failures, then generates a pipeline of timely new products. Accurate information is a key enabler of this process.

The Product Development process combines three key decision areas with associated information sweet spots.

- Product and portfolio innovation → Which gaps in the product portfolio are addressable with the available resources, and what are the associated risks?
- Product development milestones → How do we manage priorities and timings, and monitor risks as they change during the development process?
- Market and customer feedback → What external verification process will enhance and confirm new product development opportunities?



#### **Product and Portfolio Innovation**

The product and portfolio decision area takes potential opportunities identified by Marketing and examines the practicalities in more depth. This decision area answers questions about the costs and benefits of adding new product features to fill product portfolio gaps, and how achievable these additions are given available resources. It also determines how achievable these opportunities are for the business and the risk of failure.

Innovation runs the gamut from incremental improvements to significant product "revolutions". Incremental developments include packaging changes, minor functional improvements, quality changes, and brand extensions. These developments are usually intended to fill gaps in the product portfolio. For instance, by improving the design, adding product capability, making the product more convenient to use, and increasing the price, the business may extend its offering into a profitable new segment.

At the high-risk end of innovation, you must measure time to market, implementation difficulty, external market or technical shifts, future scenario values, and estimated ROI. These metrics also help you prioritize threats and opportunities. For example, classifying Product Development activities into life-cycle categories balances short-term and long-term priorities. Measuring the difficulty of implementation ensures you don't choose impractical blue sky projects at the expense of what's needed in the short term.

Future scenario valuations with estimates of the upper and lower limits of potential sales and profits set the size of a project. ROI looks at the

GOALS	METRICS	DIMENSIONS
New Product Market Share (%) New Product Sales (\$) Product Develop. Cost (\$)	New Product Achievability Score/Risk (#) New Product Breakeven (Time/\$) New Product Sales Potential (\$) New Products Developed (#) New Products in Market (\$/%) Products Modiffed (#) Project Duration – Plan (Business Days) Project Resource Days – Plan Project Cost – Plan \$ Tested Products (#)	Fiscal Month Year Quarter Month Potential Projects R&D Project Type Project Product Line Project Start Date Year Quarter Month Project Start Date Project Management Project Manager Project Manager Project Manager Project Manager Project Manager Project Manager Project Member

DECISION ROLES	PRIMARY WORK	CONTRIBUTORY	STATUS
Executives	•		
Managers	•		
Analysts	•		
Professionals	•		
Executives			
Analysts		•	
Executives			
Analysts		•	
Executives			
Analysts		•	
Executives			
Analysts		•	
Executives			
Analysts			
	Executives Managers Analysts Professionals Executives Analysts Executives Analysts Executives Analysts Executives Analysts Executives Analysts Executives Analysts	WORK   Executives   Managers   Professionals   Executives   Analysts   Executives   Executives   Executives   Executives   Executives   Executives	WORK   Executives   Managers   •   Analysts   •   Professionals   •   Executives   Analysts   •

whole picture by including upfront investment, operating costs, and sales.

As a decision area, portfolio and product innovation recommends which opportunities are right for the business by aligning with other departments, particularly Marketing.

#### **Product Development Milestones**

This decision area is used to manage the Product Development process. It establishes milestones, manages and adjusts priorities and timings, and monitors risks as they change. Many companies use Stage-Gate® or phase-gate processes involving five stages for Product Development. These are a preliminary assessment, definition (market), development (product/cost), validation, and commercialization. Typically, a very low percentage of preliminary ideas pass through the final gate. Less formal processes still require that you answer questions such as: *What new product development ideas do we have? What is the scale of the identified opportunity? Do we have the skills in-house? What are the risks? Is the opportunity aligned with our strategic priorities? What are the likely financial rewards?* 

Measuring performance milestones is critical to this decision area. The number of preliminary initiatives, how many milestones are passed before rejection, and the number of products ready for commercialization tell you about projects and how they pass through the process. Logging and evaluating the reasons for success or failure through these milestones will help you improve your Product Development process.

Regular planning and gap analysis reviews anchor the development process with business priorities. Without this focus and monitoring, the process may be sidelined by day-to-day concerns. It is critically important to ensure the success of all phases, from development to launch and full commercialization. Information that focuses and fine-tunes each stage, and provides incentives, is imperative to ensuring successful product launches.

GOALS	METRICS	DIMENSIONS
Product Develop. Cost (\$) Product Develop. Lead Time (#) Project Completion by Milestone (#/%)	Initiatives Rejected (#) New Initiatives (#) New Product Launch Failures (#) New Products Developed (#) Products Modified (#) Proj. Duration – Business Days (#) Proj. Duration – Variance (%) Rejection Causes (#) Tested Products (#)	Fiscal Month Year Quarter Month Forecast Scenario (Plan/Actual/Forecast) Scenario Product Development Milestone Product Line Project Line Project Line Project Line Project Line Project Start Date Year Quarter Month Project Start Date Project Start Date Project Start Date Project Managernet Project Manager Project Finish Date

FUNCTION	DECISION ROLES	PRIMARY WORK	CONTRIBUTORY	STATUS
Product Development				
	Executives	•		
	Managers	•		
	Analysts	•		
	Professionals	•		
Finance				
	Executives			
	Analysts		•	
Marketing				
	Executives			
	Analysts		•	
Sales				
	Executives			
	Analysts		•	
Operations / Production				
-	Executives			
	Analysts		•	

#### Market and Customer Feedback

The market and customer feedback decision area combines an external reality check with internal understanding of development opportunities and requirements. It is an extension of a product and portfolio gap analysis, generating external insights to use in gap assessment. There are many examples of overly engineered products that fail because they do not balance costs and those features actually valued by customers.

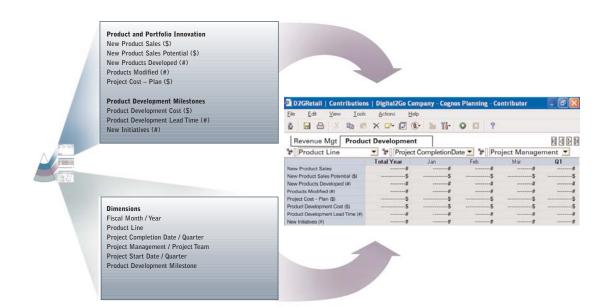
Market feedback and external verification as part of the development process are essential for success. The insights these activities produce let the organization understand what investments are necessary for new product features and determine if the business can afford them. In some cases, it may make sense to pull out of an opportunity area rather than make investments with an insufficient chance of payback. An information framework that uses this data can support and confirm Product Development decisions. This decision area is also a tool for creating crossfunctional alignment and internal commitment to new product commercialization.

GOALS	METR	METRICS		DIMENSIONS	
uggestion Cost (\$) uggestion Value-Added Score (		External Verification Score (#) Implementation Difficulty Score (#) Suggestions (#)		Fiscal Month Year Quarter Month Marketing Segment Market Segment Micro-Segment Product SKU Product Line Brand SKU Suggestion Priority Index Suggestion Type	
FUNCTION	DECISION ROLES	PRIMARY WORK	CONTRIBUTORY	STATUS	
Product Development	Executives Managers Analysts Professionals	• • •			
Customer Service	Executives Managers Analysts		•	•	
Sales	Executives Analysts		٠	۰	
Marketing	Executives Analysts		•	•	

Our business is driven by customers and our ability to understand what factors influence them adds incredible value.

Chris Boebel, IT Director, Delta Sonic Car Wash

#### PRODUCT DEVELOPMENT



The Product and Portfolio Innovation and Product Development Milestones decision areas illustrate how the Product Development function can monitor its performance, allocate resources, and set plans for future financial targets.

#### The book, The Performance Manager, is authored by:

#### Roland P. Mosimann Chief Executive Officer, BI International

As CEO and co-founder of BI International, Roland has led major client relationships and thought leadership initiatives for the company. Most recently he drove the launch of the Aline<sup>™</sup> platform for on-demand Governance, Risk and Compliance. Roland is also a co-author of the Multidimensional Manager and the Multidimensional Organization. He holds an MBA from the Wharton School of the University of Pennsylvania and a B.Sc. (Econ) from the London School of Economics.

#### Patrick Mosimann Founding & Joint Managing Director, PMSI Consulting

As co-founder of PMSI (Practical Management Solutions & Insights), Patrick has led major client engagements and has significant experience across a number of industry sectors. Patrick Mosimann also holds an MBA from the Wharton School of the University of Pennsylvania and a B.Sc. (Econ) from the London School of Economics, University of London.

Meg Dussault Director of Analyst Relations and Corporate Positioning, Cognos, an IBM company Meg started her marketing career 15 years ago, beginning with campaign management for the national telecommunications carrier. She then moved to market development for Internet retail and chip-embedded smart cards before moving to product marketing with Cognos, now an IBM company. She has been with Cognos for 8 years and has worked extensively with executives and decision makers within the Global 3500 to define and prioritize performance management solutions. This work was leveraged to help shape the vision of Cognos performance management solutions and to communicate the message to key influencers.

#### About Cognos, an IBM company

Cognos, an IBM company, is the world leader in business intelligence and performance management solutions. It provides world-class enterprise planning and BI software and services to help companies plan, understand and manage financial and operational performance. Cognos was acquired by IBM in February 2008. For more information, visit http://www.cognos.com.

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