



## From cost focus to product value management – Analysis of >400 development projects reveals new product development best practices

## Management Summary

- > In the last few years, the **challenges** for new product development have **increased** tremendously. Companies are facing intense competition from emerging markets, stricter standardization and regulations as well as changing customer behavior and requirements
- > If companies fail to get the development process right, their products will flop or be too expensive (up to 80% of all product-related costs are determined in the development phase)
- > We have analyzed over **400 product development projects** at leading manufacturing companies and identified **best practices** in new product development. The key findings are:
  - > Successful companies focus on product value rather than merely on product costs
  - > By doing so, they both satisfy customers and increase product profitability
  - > Successful companies improve product value by using effective new product **development methods** and also by creating the right **framework**



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# Successful new product development is a growing strategic challenge for many companies

## Background and challenges for companies

- Increasing global competition in all major markets:
  More new products from new competitors
- > Shorter and shorter product lifecycles: Companies are forced to churn out new innovations and new products in shorter times and greater frequency
- > **High failure rates** in many industries: Up to 60% of new products/innovations flop
- > Early cost determination: Up to 80% of product-related costs determined already in the product development phase

# NEW PRODUCT DEVELOPMENT

is a growing strategic challenge for companies



# The key question is: How can companies improve product development and maximize product success?

### Scope and key questions

## **KEY QUESTIONS**

- > How to improve new product development and maximize new product success?
- > What are the most effective methods to support new product development?
- > How can companies set up an optimal framework for realizing successful new products development?

## SCOPE: NEW PRODUCT DEVELOPMENT AND IMPACT ON PRODUCT SUCCESS



#### **APPROACH**

- > Expert interviews
- > Large scale empirical study of 410 new product development projects
- > Ph.D. research together with the Brandenburg Technical University Cottbus

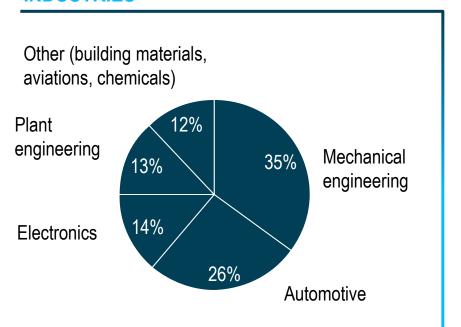




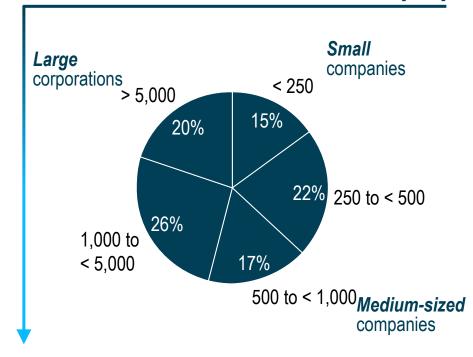
# To answer these questions, we analyzed 410 product development projects from leading manufacturing companies

### Study of 410 product development projects

#### **INDUSTRIES**



#### **COMPANY SIZE [FTE]**





# Key finding: Successful companies increase product profitability by using effective new product development methods



- 1 Successful companies apply more methods in new product development and use them more intensively
- 2. Successful companies select the right methods at the right time
- 3 Successful companies combine different methods from R&D, Market Research, Purchasing, Quality, Logistics and Project Management

## **KEY RESULTS**

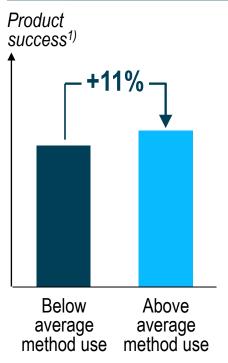




## Companies that apply more methods in product development and use them more intensely have significantly higher project success

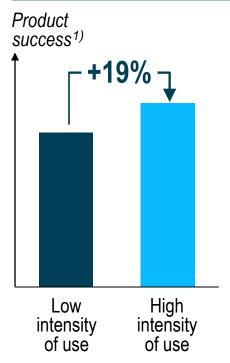
## Impact of method application on product success

#### SUCCESSFUL COMPANIES APPLY **MORE METHODS** ...



Companies that use an above average number of methods have a 11% higher overall product success rate

#### ... AND THEY USE THEM **MORE INTENSIVELY**



Companies that apply methods particularly intensively have the highest overall product success rate

<sup>1)</sup> Product success measured as a combination of different aspects (market share, product revenues, product cost, return on investment, etc.)



# 26 methods were analyzed in detail, thereof 15 purchasing, project management and quality and logistics methods ...

(1/2)

## PURCHASING METHODS



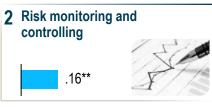
2 Target costing
.15\*\*





## PROJECT MANAGEMENT METHODS









## CROSS-FUNCTIONAL METHODS

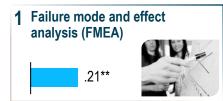








## QUALITY/LOGISTICS METHODS







- 1-4 Methods sorted by impact on success.
- Correlation coefficients (\*\*/\*results are significant at error probability of 1%/5%)

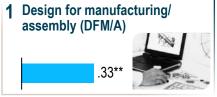


## ... and 11 research and development and customer integration/ market research methods

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## RESEARCH AND DEVELOPMENT METHODS

## CUSTOMER INTEGRATION/MARKET RESEARCH METHODS

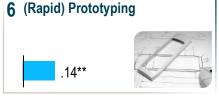






















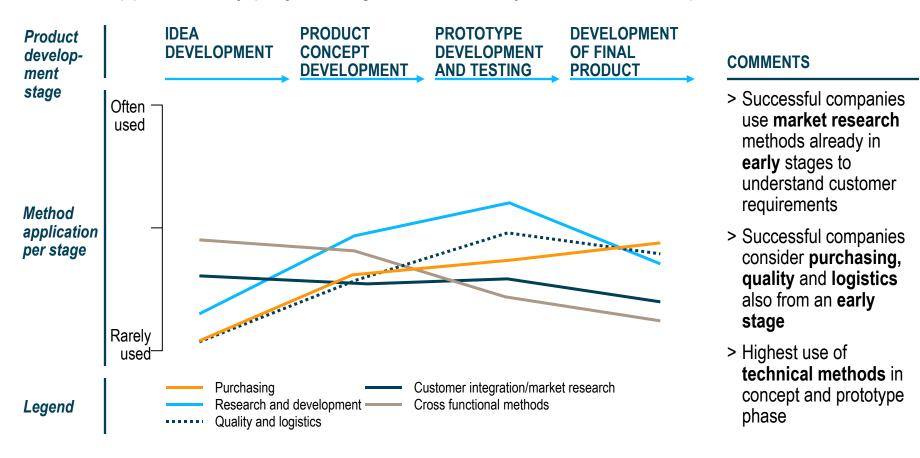
<sup>1-7</sup> Methods sorted by impact on success.

Correlation coefficients (\*\*/\*results are significant at error probability of 1%/5%)



## Successful companies select the right methods at the right time

## Method application by project stage – Particularly successful companies

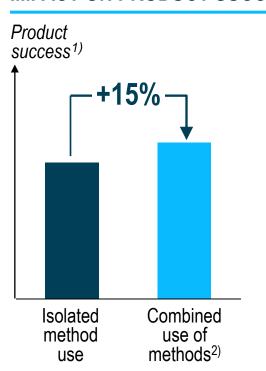




# Most important: Using the right combination of different methods is key to product success

Impact of combined (instead of isolated) use of methods

#### IMPACT ON PRODUCT SUCCESS



#### **COMBINATION OF METHODS**

Companies that combine **methods from all functions are 15% more successful** with their new products



THE COMBINATION OF DIFFERENT METHODS
IS THE KEY TO PRODUCT SUCCESS

<sup>1)</sup> Product success measured as combination different aspects (market share, product revenues, product cost, return on investment, etc.)

<sup>2)</sup> Above average number of methods from all clusters used





## Successful companies set up the right framework: They foster topmanagement support and structure their product development process

Framework set by successful companies

### **Strong top-management support**

- > Top-management is **actively involved** in the project
- > Top-management closely **monitors the progress** of the project
- > Top-management provides required resources

### **Robust product development process**

- > **Defined process stages** with go/no-go decision **gates**
- > Dedicated **gatekeepers** review projects at gates
- > **Activities per stage** and corporate functions involved are clearly defined
- > **Methods** for each stage are defined and documented

- 1. MORE METHODS and INTENSIVE USE
- 2. RIGHT METHODS at the RIGHT TIME
- 3. RIGHT COMBINATION of methods

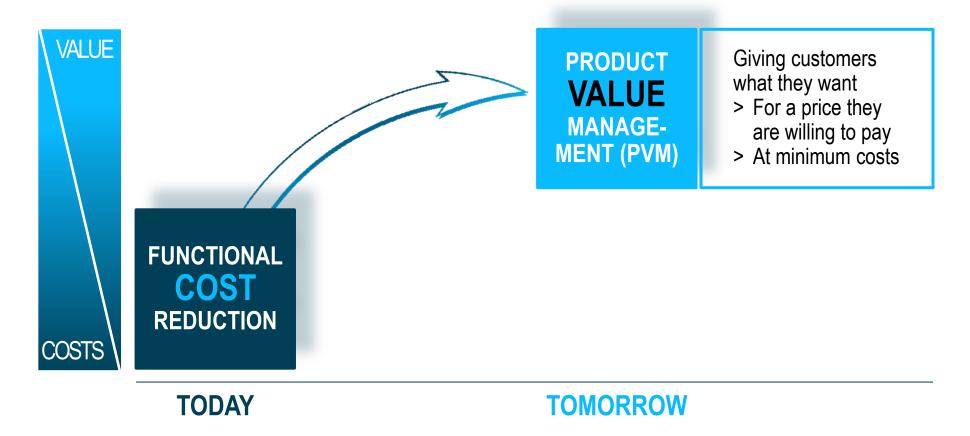
**METHODS** 





# Increased product value can only be achieved through a perspective change – From cost focus to Product Value Management

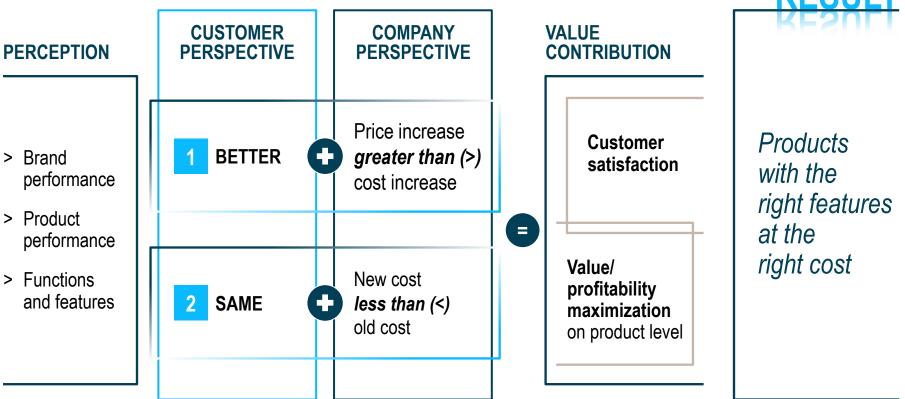
### Evolution of company focus





## Product Value Management pursues two basic optimization routes to satisfy customers and maximize the product margin

#### Value formula



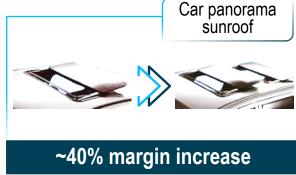


# Examples from different industries demonstrate that both higher customer satisfaction and increased product profitability can be achieved

### Benefits – Examples



- > Packaging size reduction More sustainability and reduced cost
- > **Improvements** vs. conventional folding box:
  - Reduced size by 20%
  - Optimized construction
  - Reduced material cost by 15%
  - Reduced logistics costs



> New product idea – Panorama

sunroof with improved funct. value

- > **Improvements** vs. standard sunroof:
  - Increased glass surface
  - Increased margin by ~40%
  - Differentiating element
  - Standardized across car lines, variants modularized



- New packaging with improved functional value
- > **Improvements** vs. conventional packaging:
  - Packaging improved: re-closable
  - Product handling improved: dragees
  - Content increased: 46 pieces
     Sales growth of +14%

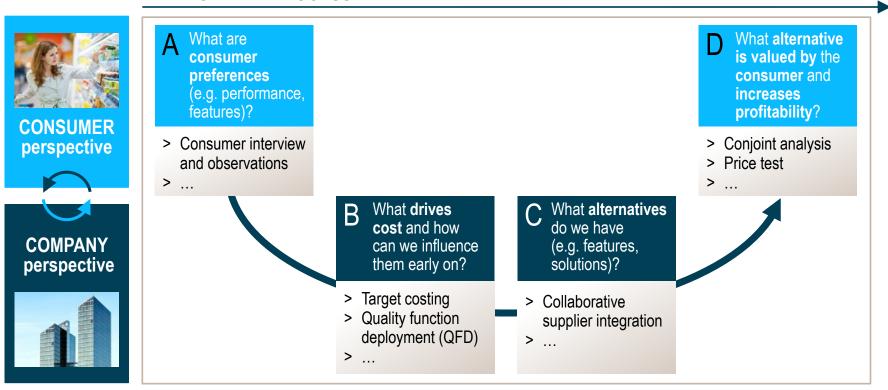
#### COMPETITIVE ADVANTAGE VIA SUPERIOR PRODUCT PERFORMANCE



## Product Value Management is enabled by methods/tools

### Approach

#### **DEVELOPMENT PROCESS**



Method/tool examples



## Further reading on Product Value Management available

### Further reading think:act CONTENT Product Value Management



ment | Better products | With more satisfied customers | Using higher prices and lower costs to make products more profitable | Is this possible? | If yes, how?

### **KEY ELEMENTS OF PVM APPROACH**

- Focus on target customers
- Understand customer value
- Choose the right methods and combine them intelligently
- Take a cross-functional approach
- Think in terms of alternatives
- Execute in a consistent manner
- Anchor the principle of PVM in your organization

www.rolandberger.com/Product\_Value\_Management

