A cornerstone of a global marketing mix program is the set of product policy decisions that multinational companies (MNCs) constantly need to formulate. The range of product policy questions that need to be tackled is bedazzling: What new products should be developed for what markets? What products should be added to, removed from, or modified for the product line in each of the countries in which the company operates? What brand names should be used? How should the product be packaged? serviced? and so forth. Clearly, product managers in charge of the product line of a multinational company have their work cut out for them.

Improper product policy decisions are easily made as the following anecdotes illustrate:

- **Ikea in the United States.**
  1. Ikea’s foray in the United States was plagued with teething problems. Stores were in poor locations. Ikea stubbornly refused to size its beds and kitchen cabinets to fit American sheets and appliances. Bookshelves were too small to hold a television set. Bath towels were too small and too thin. Customers bought vases to drink from, as glasses were too small. Sofas were too hard. Dining tables were too small to fit a turkey for Thanksgiving. Ikea’s system of self-service and self-assembly puzzled Americans. Prices were too high. Ikea remedied the situation by adapting the product line, choosing new and bigger store locations, improving service, slashing prices. Some of the changes that Ikea made in the U.S. have since been introduced in Europe. For instance, U.S.-style softer sofas have become a great hit in Europe.

1[www.brandchannel.com/features_effect.asp?pf_id=256](http://www.brandchannel.com/features_effect.asp?pf_id=256) and [www.businessweek.com/magazine/content/05_46/b3959001.htm](http://www.businessweek.com/magazine/content/05_46/b3959001.htm).
SELLING SATURNS IN JAPAN

Saturn, a unit of General Motors Corp., has been phenomenally popular in the United States with its refreshing approach to selling cars. The car’s popularity in the U.S. market is due to its unique formula of customer-friendly retailing and no-haggle pricing. In light of its success story in the U.S., GM figured that Saturn might also do well in fiercely competitive Japan. The car premiered in Japan in April 1997. Saturn’s launch strategy in Japan was to take on the local competition by competing as an everyday car. It installed right-hand drive steering and added features such as folding side mirrors. Saturn also established its own dealer network—a rather unusual move for car imports. Saturn’s goal was to sign up twenty exclusive dealers who would only sell Saturns. It took the firm longer than expected to achieve its target. The car was priced at $14,000—competitive with local brands and cheaper than most other imports. Saturn also invested heavily in advertising to build brand recognition. Ads showed scenes of Saturn’s headquarters in Tennessee and Japanese salespeople sporting Saturn’s casual look.

Despite all the enthusiasm and GM’s gung ho attitude, sales have been disappointing so far. In 1998, Saturn sold just 1,400 vehicles. Several factors seemed to be behind this setback. One was bad timing. When Saturn was introduced in Japan, the country was going through a deep economic slump. The launch date happened a few days after the government hiked the sales tax to 5 percent (from 3 percent), a move that weakened the car market overall. Sales of sedans—the only subcategory in which Saturn initially competed—were plunging around the launch time. Some analysts also felt that the Saturn strategy would not appeal to import-car buyers in Japan. The typical foreign-car buyer wants a car that makes him stand out of the crowd. Successful imports from the United States are quintessentially “American” cars like DaimlerChrysler’s Jeep Cherokee and GM’s Cadillac Seville. Setting up an own dealership network posed some challenges too. The economic recession meant that few potential dealers were willing to take the risk of selling a relatively unknown car model. Those who were interested had a hard time raising the money. With only twenty dealerships, potential customers may also have a hard time locating a dealer outlet.

Sales picked up a bit in 1999 with the launch of a three-door coupe model. In October 1998, Saturn announced that it plans to open eighty new stores over the coming five years. Saturn also set up an Internet showroom (www.saturn.co.jp) to better serve the needs of Internet savvy car-shoppers. However, GM finally pulled the plug after selling only 1,002 Saturn cars in 2001. Still, Saturn appears to have made some impact on the Japanese car market: Toyota adopted Saturn’s no-haggle approach toward pricing at some of its dealerships in Japan.


• **Procter & Gamble (P&G) in Australia.** Rather than manufacturing disposable diapers locally as Kimberly-Clark did, P&G decided to import them. The size of the Australian and New Zealand markets did not warrant local manufacturing according to P&G. Unfortunately, by using packaging designed for the Asian region with non-English labeling, P&G alienated its customers in Australia.2

• **U.S. carmakers in Japan.** Historically, U.S. car sales in Japan have been pretty dismal. Analysts have blamed import barriers and the fact that most U.S.-made cars were originally sold with the steering wheel on the left-hand side. There are other factors at play, though. Sales of Chrysler’s Neon car during the first year of introduction in Japan were far below target. Japanese car buyers disliked the Neon’s round curves; they preferred boxier designs. The sales of Ford’s Taurus in Japan were also lackluster. Part of the problem was that, initially, the Taurus did not fit in Japanese parking spaces. In order for a car to be registered in Japan, the police needs to certify that it will fit in the customer’s parking lot (see also Global Perspective 10-1 on Saturn’s marketing strategy in Japan).3

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These anecdotes amply show that even seasoned blue-chip companies commit the occasional “blunder” when making product decisions in the global marketplace. Apart from being amusing (at least for outsiders), product blunders can sometimes teach valuable lessons. This chapter focuses on new product development strategies for global markets. The first part of this chapter looks at the product strategic issues that MNCs face. The second part gives an overview of the new product development process in a global setting. Finally, we examine what it means to be a truly global innovator.

GLOBAL PRODUCT STRATEGIES

Companies can pursue three global strategies to penetrate foreign markets. Some firms simply adopt the same product or communication policy used in their home market as an extension of their homegrown product/communication strategies to their foreign markets. Other companies prefer to adapt their strategy to the local marketplace. This strategy of adaptation enables the firm to cater to the needs and wants of its foreign customers. A third alternative is to adopt an invention strategy by which products are designed from scratch for the global market place. Using the extension/adaptation/invention framework for product and communications decision leads to five strategic options, as shown in Exhibit 10-1. Let us look at each one of these options in greater detail.

At one extreme, a company might choose to market a standardized product using a uniform communications strategy. Early entrants in the global arena often opt for this approach. Also, small companies with few resources typically prefer this option. For them, the potential payoffs of customized products and/or advertising campaigns usually do not justify the incremental costs of adaptation. Dual extension might also work when the company targets a “global” segment with similar needs. Blistex’s marketing efforts for its namesake product in Europe is a typical example. The product, a lip balm, offers identical needs in each of the various European markets. Except for some minor modifications (e.g., labeling), the same product is sold in each country. In 1995, Blistex ran a uniform European advertising campaign, using identical positioning (“Care-to-Cure”) and advertising themes across countries.

Generally speaking, a standardized product policy coupled with a uniform communication strategy offers substantial savings coming from economies of scale. This strategy is basically product-driven rather than market-driven. The downside is that it is likely to alienate foreign customers, who might switch to a local or another foreign competing brand that is more in tune with their needs. In many industries, modern

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Strategic Option 1: Product and Communication Extension—Dual Extension

EXHIBIT 10-1
GLOBAL EXPANSION STRATEGIES

<table>
<thead>
<tr>
<th>Product Strategy</th>
<th>Function or Need Satisfied</th>
<th>Conditions of Product Use</th>
<th>Ability to Buy Product</th>
<th>Recommended Product Strategy</th>
<th>Recommended Communications Strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Same</td>
<td>Same</td>
<td>Yes</td>
<td>Extension</td>
<td>Extension</td>
</tr>
<tr>
<td>2</td>
<td>Different</td>
<td>Same</td>
<td>Yes</td>
<td>Extension</td>
<td>Adaptation</td>
</tr>
<tr>
<td>3</td>
<td>Same</td>
<td>Different</td>
<td>Yes</td>
<td>Adaptation</td>
<td>Extension</td>
</tr>
<tr>
<td>4</td>
<td>Different</td>
<td>Different</td>
<td>Yes</td>
<td>Adaptation</td>
<td>Adaptation</td>
</tr>
<tr>
<td>5</td>
<td>Same</td>
<td>—</td>
<td>No</td>
<td>Invention</td>
<td>Invention</td>
</tr>
</tbody>
</table>


production processes such as CAD/CAM\textsuperscript{6} manufacturing technologies obviate the need for large production batch sizes.

Due to differences in the cultural or competitive environment, the same product often is used to offer benefits or functions that dramatically differ from those in the home market. Such gaps between the foreign and home market drive companies to market the same product using customized advertising campaigns. Although it retains the scale economies on the manufacturing side, the firm sacrifices potential savings on the advertising front. Wrigley, the Chicago-based chewing gum company, is a typical practitioner of this approach. Most of the brands marketed in the United States are also sold in Wrigley’s overseas markets. Wrigley strives for a uniformly superior quality product. To build up the chewing gum category, Wrigley sells its products at a stable and low price. Given that chewing gum is an impulse item,\textsuperscript{7} Wrigley aims for mass distribution. The company sees an opportunity to sell its product at any place where money changes hands. Despite these similarities in Wrigley’s product and distribution strategies, there are wide differences in its communication strategy. The benefits that are promoted in Wrigley’s advertising campaigns vary from country to country. In the United States, Wrigley has capitalized on smoking regulations by promoting chewing gum as a substitute for smoking. In several European countries, Wrigley’s advertising pitches the dental benefits of chewing gum. In the Far East, Wrigley promotes the benefit of facial fitness in its advertising campaigns.\textsuperscript{8}

Alternatively, firms might adapt their product but market it using a standardized communications strategy. Local market circumstances often favor the case of product adaptation. Another reason for product adaptation could be the company’s expansion strategy. Many companies add brands to their product portfolio via acquisitions of local companies. To leverage the existing brand equity enjoyed by the acquired brand, the local brand is often retained. Although these factors lead to product adaptation, similar core values and buying behaviors among consumers using the product might present an opening for a harmonized communications strategy. Within such a context, clever marketing ideas can be transferred from one country to another country, despite the product-related differences. For instance, a Taiwan-produced commercial for P&G’s Pantene shampoo was successfully transferred with a few minor changes to Latin America.

Differences in both the cultural and physical environment across countries call for a dual adaptation strategy. Under such circumstances, adaptation of the company’s product and communication strategy is the most viable option for international expansion.

Slim-Fast\textsuperscript{9} adapts both product and advertising to comply with varying government regulations for weight-loss products. When Slim-Fast was first launched in Germany, its ads used a local celebrity. In Great Britain, testimonials for diet aids were not allowed to feature celebrities. Instead, the British introduction campaign centered around teachers, an opera singer, a disc jockey, and others. Also the product was adapted to the local markets. In the United Kingdom, banana became the most popular flavor but was not available in many other countries.\textsuperscript{10}

Genuinely global marketers try to figure out how to create products with a global scope rather than just for a single country. Instead of simply adapting existing products or services to the local market conditions, their mindset is to zero in on global market opportunities. The product invention strategy consists of developing and launching products with a global mindset. Black & Decker is a good example of a company that

\textsuperscript{6}Computer-Aided-Design/Computer-Aided-Manufacturing.

\textsuperscript{7}Impulse goods are products that are bought without any planning.

\textsuperscript{8}Doug Barrie, former Group Vice-President International, Wm. Wrigley Jr., Personal Communication.

\textsuperscript{9}In 2000 Unilever bought the Slim-Fast brand for $2.3 billion.

adopts the product invention approach to global market expansion. It aims to bring out new products that cater towards common needs and opportunities around the world. To manage its global product development process, Black & Decker set up a Worldwide Household Board. This steering committee approves global plans, allocates resources, and gives direction and support, among other tasks. One of the product innovations that emerged from this global product planning approach is the SnakeLight Flexible Flashlight. The SnakeLight was first launched in North America, and then, six months later, in Europe, Latin America, and Australia. The product addresses a global need for portable lighting. The SnakeLight proved to be a major hit around the world.11

Other companies increasingly adhere to the invention strategy. In the past, Procter & Gamble Europe was a patchwork of country-based operations, each with its own business. These days, P&G aims to develop products that appeal to the entire European region. Many other companies also recently jumped on the “produce globally, market locally” bandwagon. Not all of these efforts have been successful, though. The Ford Mondeo was part of the Ford 2000 project to put Ford’s product development projects on a global basis. The car was among Ford’s first efforts toward a world-car strategy. Developed in Europe, the car was sold in the United States as the Contour and Mercury Mystique sedan. Although the European version sold pretty well, the American versions were major fiascos.12 American car buyers considered the models too small and too expensive given their size.13 Ford hopes do a better job with the new small-car Fiesta that it rolled out in Asia, Europe, and the North America. The Fiesta was a best-selling car in Europe.14 The updated Fiesta has the same size as its predecessor but is lighter through the use of lightweight, high-strength steel.15 The Fiesta was developed and designed in Europe and is built in Spain, China, Germany, Thailand, and the United States.

STANDARDIZATION VERSUS CUSTOMIZATION

Behr, headquartered in Stuttgart, Germany, is one of the leading manufacturers of radiators and air-conditioning systems for cars.16 To adapt its products to satisfy tastes in local markets, the firm relies on a $6 million design lab at its headquarters in Germany. By blowing air at the vehicle at different wind speeds and changing the temperature, its lab can simulate driving conditions in any part of the world. Design is also influenced by local preferences: Germans prefer warm legs, Japanese like air being blown at their face, and Americans favor air that is directed over their entire bodies. Working closely with its carmaker customers and based on the lab findings, Behr is able to design air-conditioning units that give maximal comfort.

A recurrent theme in global marketing is whether companies should aim for a standardized or country-tailored product strategy. Standardization means offering a uniform product on a regional or worldwide basis. Minor alternations are usually made to meet local regulations or market conditions (for instance, voltage adjustments for electrical appliances). However, by and large, these changes only lead to minor cost increases. A uniform product policy capitalizes on the commonalities in customers’ needs across countries. The goal is to minimize costs. These cost savings can then be passed through to the company’s customers via low prices. With customization, on the other hand, management focuses on cross-border differences in the needs and wants of the firm’s target customers. Under this regime, appropriate changes are made to match
local market conditions. While standardization has a product-driven orientation—lower your costs via mass-production—customization is inspired by a market-driven mindset—increase customer satisfaction by adapting your products to local needs.

Forces that favor a globalized product strategy include:

1. **Common customer needs.** For many product categories, consumer needs are very similar in different countries. The functions for which the product is used might be identical. Likewise, the usage conditions or the benefits sought might be similar. One example of a product that targets a global segment is Apple’s iPhone. Since Apple launched iPhone in early 2007, Apple has sold about 13 million by October 2008.\(^\text{17}\) Apart from offering the features and benefits that competing smart phones offer, the iPhone’s emotional benefit of “coolness” is also a major reason for its popularity worldwide, especially among young audiences. Many product categories also show a gradual but steady convergence in consumer preferences. Growing similarities in consumer preferences have also been observed in the car industry.\(^\text{18}\) The 2008 DuPont Automotive Color Popularity Report, for example, revealed that color preferences are converging around the world, but with subtle differentiation between markets (see also Exhibit 10-2).\(^\text{19}\)

**EXHIBIT 10-2**

2008 AUTOMOTIVE COLOR POPULARITY

<table>
<thead>
<tr>
<th>2008 Automotive Color Popularity</th>
<th>2008 Automotive Color Popularity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BRAZIL OVERALL</strong></td>
<td><strong>CHINA OVERALL</strong></td>
</tr>
<tr>
<td><strong>SILVER:</strong> 31%</td>
<td><strong>SILVER:</strong> 32%</td>
</tr>
<tr>
<td><strong>BLACK:</strong> 25%</td>
<td><strong>BLACK:</strong> 31%</td>
</tr>
<tr>
<td><strong>GRAY:</strong> 16%</td>
<td><strong>GRAY:</strong> 15%</td>
</tr>
<tr>
<td><strong>WHITE:</strong> 11%</td>
<td><strong>WHITE:</strong> 1%</td>
</tr>
<tr>
<td><strong>RED:</strong> 8%</td>
<td><strong>RED:</strong> 5%</td>
</tr>
<tr>
<td><strong>BEIGE/BROWN:</strong> 3%</td>
<td><strong>BEIGE/BROWN:</strong> 3%</td>
</tr>
<tr>
<td><strong>BLUE:</strong> 3%</td>
<td><strong>ORANGE:</strong> 3%</td>
</tr>
<tr>
<td><strong>GREEN:</strong> 2%</td>
<td><strong>YELLOW/GOLD:</strong> 2%</td>
</tr>
<tr>
<td><strong>YELLOW/GOLD:</strong> 1%</td>
<td><strong>GREEN:</strong> 2%</td>
</tr>
<tr>
<td><strong>OTHER:</strong> &lt;1%</td>
<td><strong>WHITE:</strong> 1%</td>
</tr>
</tbody>
</table>


EXHIBIT 10-2
(CONTINUED)

2008 Automotive Color Popularity
EUROPE OVERALL
BLACK: 26%
SILVER: 20%
GRAY: 18%
BLUE: 13%
WHITE: 10%
SOLD 9% • PEARL 1%
RED: 7%
BEIGE/BROWN: 4%
GREEN: 2%
YELLOW/GOLD: <1%
OTHER: 1%

2008 Automotive Color Popularity
INDIA OVERALL
WHITE: 28%
SILVER: 27%
RED: 12%
BLUE: 8%
BLACK: 7%
SOLD 6% • EFFECT 1%
YELLOW/GOLD: 7%
GRAY: 4%
BEIGE/BROWN: 4%
GREEN: 1%
OTHER: 2%

2008 Automotive Color Popularity
JAPAN OVERALL
WHITE: 32%
SILVER: 28%
BLACK: 13%
SOLD 4% • EFFECT 5%
BLUE: 7%
GRAY: 7%
RED: 3%
GREEN: 3%
BEIGE/BROWN: 2%
OTHER: 5%

2008 Automotive Color Popularity
MEXICO OVERALL
WHITE: 20%
BLACK: 20%
SILVER: 17%
GRAY: 13%
BLUE: 12%
RED: 11%
YELLOW/GOLD: 3%
GREEN: 2%
BEIGE/BROWN: 1%
OTHER: 1%
Standardization versus Customization

top spot in North America, India and Japan. Other popular choices include black (China, Mexico, and Europe) and silver (Brazil, China, Europe, India, Russia, and South Korea). One trend that the report observes is the growing popularity of blue worldwide, especially among consumers looking for more environmental themes.

2. **Global Customers.** In business-to-business marketing, the shift toward globalization means that a significant part of the business of many companies comes from MNCs that are essentially global customers. Buying and sourcing decisions are commonly centralized or at least regionalized. As a result, such customers typically demand services or products that are harmonized worldwide.

3. **Scale Economies.** Cost savings from scale economies in the manufacturing and distribution of globalized products is in many cases the key driver behind standardization moves. Savings are also often realized because of sourcing efficiencies or lowered R&D expenditures. These savings can be passed through to the company’s end-customers via lower prices. Scale economies offer global competitors a tremendous competitive advantage over local or regional competitors. In many industries though, the “economies of scale” rationale has lost some of its allure. Production procedures such as flexible manufacturing and just-in-time (JIT) production have shifted the focus from size to timeliness. CAD/CAM techniques allow companies to manufacture customized products in small batch sizes at reduced cost. Although size often leads to lower unit costs, the diseconomies of scale should not be overlooked. Bureaucratic bloat and employee dissatisfaction in large-scale operations often create hidden costs.20

4. **Time-to-Market.** In scores of industries, being innovative is not enough to be competitive. Companies must also seek ways to shorten the time to bring new product projects to the market. This is especially true for categories with shortening product life cycles. By centralizing research and consolidating new product development efforts on fewer projects, companies are often able to reduce the time-to-market cycle. For example, Procter & Gamble notes that a pan-European launch of liquid laundry detergents could be done in 10 percent of the time it took in the early 1980s, when marketing efforts were still very decentralized.21 Likewise, the Swedish engineering group Alfa Laval has been able to speed its time-to-market by streamlining its global new product development process.22

5. **Regional market agreements.** The formation of regional market agreements such as the Single European Market encourages companies to launch regional (e.g., pan-European) products or redesign existing products as pan-regional brands. The legislation leading to the creation of the Single European Market in January 1993 sought to remove most barriers to trade within the European Union. It also provided for the harmonization of technical standards in many industries. These moves favor pan-European product strategies. Mars, for instance, now regards Europe as one giant market. It modified the brand names for several of its products, turning them into pan-European brands. Marathon in the United Kingdom became Snickers, the name used in Continental Europe. The Raider bar in Continental Europe was renamed Twix, the name used in the United Kingdom.23

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**Two Alternatives—Modular and Core Product Approach**

Whether firms should strive for standardized or localized products is a bogus question. The issue should not be phrased as an either-or dilemma. Instead, product managers should look at it in terms of degree of globalization: What elements of my product policy should be tailored to the local market conditions? Which ones can I leave unchanged? At the same time, there are strategic options that allow firms to modify...
their product while keeping most of the benefits flowing from a uniform product policy. Two of these product design policies are the modular approach and the core-product or common platform approach.24

**Modular Approach.** The first approach consists of developing a range of product parts that can be used worldwide. The parts can be assembled into numerous product configurations. Scale economies flow from the mass-production of more-or-less standard product components at a few sites. Vaillant, a French company that is Europe’s biggest maker of heating boilers, exemplifies this approach. A wide variation in consumer tastes and building standards within the pan-European market means that Vaillant has to offer hundreds of different boiler models. However, lately, the firm has tried to minimize the costs of customization without narrowing customer offerings. The trick is to develop boilers that meet local requirements but with as many common features (e.g., burners, controls) as is doable.25

**Core-Product (Common Platform) Approach.** The core-product (common platform) approach starts with the design of a mostly uniform core-product or platform. Attachments are added to the core-product to match local market needs. Savings are achieved by reduced production and purchasing costs. At the same time companies adopting this approach have the flexibility that allows them to modify the product easily. The model design procedures of the French carmaker Renault exemplify this approach. More than 90 percent of Renault’s sales revenues come from the European market. The body, engines, transmissions, and chassis of a given model are the same in the different markets. Minor changes, such as stronger heaters in Nordic countries or better air-conditioning for cars sold in Southern Europe, are easily implemented.26 The common platform approach has emerged as a favored means for lots of other global carmakers.27 Jaguar’s S-Type marque shared a platform with Lincoln LS, Ford’s other luxury brand. Volkswagen’s Golf platform is also used for certain variants of Audi, Seat, and Skoda—some of the other brands that belong to Volkswagen’s stable. Swedish Saab, owned by General Motors, uses platforms that were originally developed for Opel, GM’s other European brand. Global Perspective 10-2 describes how Deere and Electrolux use the core product approach in designing their products.

On the surface, the standardize-versus-customize conundrum could be settled via some straightforward cost-benefit type of analysis. In this section we introduce a very basic framework that allows you to look into the economics of the standardization/customization issue. The analytical tool that we discuss here in this section is known as incremental break-even analysis (IBEA). The term sounds fancy but the thinking behind it is very straightforward. We illustrate the tool with a simple hypothetical example.

Suppose a U.S.-based MNC developed a new yogurt drink. To keep matters simple, at this stage the company is planning to introduce the new beverage in two markets—its home market (say the United States) and the host market (say Brazil). The base case scenario is a uniform strategy for the two countries with just minor changes that are absolutely necessary (e.g., adding subtitles to the U.S. TV-commercial for Brazil, translating the bottle label from English into Portuguese). The other scenario is to adapt the marketing mix that was devised for the United States when launching the drink in Brazil. On the product front, adaptations proposed by the Brazilian country subsidiary include the flavors and the packaging. With regard to the communication strategy, the MNC ponders to develop an entirely new commercial for Brazil. To test

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the flavors, the company would need to conduct a market research study in Brazil ($200,000). Developing a new ad campaign requires a $2 million outlay. The MNC would have to spend $1,500,000 for the new packaging manufacturing equipment. So the costs for making all the marketing mix adaptations for the Brazil launch are as follows:

<table>
<thead>
<tr>
<th></th>
<th>Cost (in $)</th>
</tr>
</thead>
<tbody>
<tr>
<td>New ad campaign</td>
<td>2,000,000</td>
</tr>
<tr>
<td>Flavors</td>
<td>500,000</td>
</tr>
<tr>
<td>Packaging</td>
<td>1,500,000</td>
</tr>
</tbody>
</table>

Subtitling the existing U.S. commercial instead of creating an entirely new one would cost $300,000. Therefore, the total incremental cost of adapting the marketing mix for Brazil as opposed to a standardized one equals:

\[ 1,700,000^{28} + 500,000 + 1,500,000 = 3,700,000 \]

In this example, all the adaptation costs are fixed costs. In reality though, some of the adaptation costs could also be variable ones. The variable part of the packaging (or ingredients) costs, for example, could also be higher compared to the standardized packaging (or ingredients) costs. With standardization, the MNC can order its materials in bulk and, thereby, gains leverage to negotiate lower prices with its suppliers.

On the benefit side, adaptation may lead to higher sales volume. Also, consumers in the host market (in this case Brazil) may be willing to pay more for the customized product. In our example, a market research study shows that the drinks maker could charge $1.20 per bottle for the customized yogurt drink compared to just $1.00 for the standardized version. We assume that the variable cost is $0.70 per unit and is the same under both scenarios. From an economic angle, the key question facing the firm then is whether the extra costs of adaptation will be offset by the additional profits coming from

---

28 That is, the cost of creating a new campaign (i.e., $2,000,000) minus the cost of subtitling the U.S. campaign (i.e., $300,000).
higher sales volume and the price premium. In other words, what will be the extra sales volume needed to justify the incremental costs of adapting the marketing mix for Brazil? To answer this question, the firm’s marketing manager can do some simple back-of-the-envelope break-even type analysis. In particular, she could calculate at what sales level in Brazil the profits of both scenarios (customize versus standardize) are the same:

- Profit in Brazil under standardization = \( [\text{Price} - \text{Variable Cost}] \times \text{Sales} - \text{Fixed Cost} \)

- Profit in Brazil under customization = \( [(\text{Price} + \Delta P) - (\text{Variable Cost} + \Delta VC)] \times \text{Sales} - \text{Fixed Cost} - \text{Fixed Adaptation Costs} \)

where \( \Delta P \) is the price premium that the firm can charge (in this example 20 cents = \( $1.20 - $1.00 \)) for the adapted product in Brazil and \( \Delta VC \) is the difference in variable costs (here assumed to be zero) between the adapted and standardized product.

Therefore, the extra sales (i.e., incremental break even volume or IBEV) can be derived as follows:

- Profit under customization = Profit under standardization

or:

- \( [\text{Price} - \text{Variable Cost}] \times \text{Sales} - \text{Fixed Cost} = [(\text{Price} + \Delta P) - (\text{Variable Cost} + \Delta VC)] \times \text{Sales} - \text{Fixed Cost} - \text{Fixed Adaptation Costs} \)

or simply rearranging the terms:

\[
\text{Sales} (= \text{IBEV}) = \frac{\text{Fixed Adaptation Costs}}{\text{[Price} + \Delta P] - [\text{Variable Cost} + \Delta VC]}
\]

Plugging in the numbers for our hypothetical example we get:

\[
\text{IBEV} = \frac{\$3,700,000}{[\$1.00 + \$0.20] - [\$0.70 + \$0.00]} = 7,400,000 \text{ units}
\]

To put this figure in perspective, let us assume that annual sales in the category total 400 million bottles. Then, the extra market share needed to justify the proposed adaptations would be:

\[
7.4 \text{ million}/400 \text{ million} = 1.85 \text{ percent}
\]

The tool can be used to do some simple simulations and answer what-if questions. For instance, if the firm decides only to adapt the television commercial but keep the product unchanged (i.e., same flavors; same packaging) then the required extra sales for Brazil would be:

\[
\text{IBEV} = \frac{\$1,700,000/\left(\$1.20 - \$0.70\right)}{3,400,000 \text{ units or} 0.85 \text{ percent extra market share}}
\]

While these calculations can be insightful, they should not be treated as an oracle. Other less quantifiable costs should also be factored in. Imposing a uniform marketing mix strategy without much input from the local staff could create discontent and demotivate marketing managers in the overseas country subsidiary. On the other hand, marketing mix adaptations proposed by the country subsidiary could delay the rollout of the new product in the host country.

The balancing act between standardization and adaptation is very tricky. One scholar describes overstandardization as one of the five pitfalls that global marketers could run into. Too much standardization stifles initiative and experimentation at the local subsidiary level. However, one should not forget that there is also a risk of overcustomization. Part of the appeal of imported brands is often their foreignness. By adapting too much to the local market conditions, an import runs the risk of losing that

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cachet and simply becoming a me-too brand, barely differentiated from the local brands. Apparently, General Motors Corp. (GM) made such a mistake in Japan. In 2001, GM rolled out a new subcompact car in Japan called the Chevrolet Cruze, built by Suzuki, GM's affiliate. Seven months after the launch, GM had sold only 6,600 cars. One problem seems to have been that the Cruze was “too Japanese” (except for the price tag!). Despite GM’s efforts to give the Cruze American looks, it was very similar to the Suzuki Swift, which was far cheaper (790,000 yen versus a starting price of 1.2 million yen for the Cruze), had the same engine size, and, contrary to the Cruze, came with a stereo system.30,31

MULTINATIONAL DIFFUSION

The speed and pattern of market penetration for a given product innovation can differ enormously between markets. It is not uncommon that new products that were phenomenally successful in one country or region turn out to be flops in other markets. A good example is Microsoft’s Xbox videogame console, which was first released in the United States in November 2001 and subsequently in Japan in February 2002 and Europe in March 2002. Although sales of Xbox were impressive in the United States, they were far below expectations in Japan and Europe. Seven months after the launch of Xbox in Japan, only 274,000 consoles had been shipped.32 One reason for Xbox’ failure to woo Japanese gamers is that Xbox games cater mainly to people who are used to personal computer games, which are far less popular in Japan than in the United States.33 Obviously, the other reason is that Japan is the home-market of two of Xbox’s big rivals, Sony and Nintendo. In this section we will introduce several concepts and insights from multinational new product diffusion research. These explain some of the differences in new product performance between different countries.

In general, three types of factors drive the adoption of new products: individual differences, personal influences, and product characteristics. Individuals differ in terms of their willingness to try out new products. Early adopters are eager to experiment with new ideas or products. Late adopters take a wait-and-see attitude. Early adopters differ from laggards in terms of socioeconomic traits (income, education, social status), personality, and communication behavior. A prominent role is also played by the influence of prior adopters. Word-of-mouth spread by previous adopters often has a much more significant impact on the adoption decision than non-personal factors such as media advertising. For many product categories, peer pressure will often determine whether (and when) a person will adopt the innovation. The third set of factors relates to the nature of the product itself. Five product characteristics are key:34

1. Relative Advantage. To what extent does the new product offer more perceived value to potential adopters than existing alternatives?
2. Compatibility. Is the product consistent with existing values and attitudes of the individuals in the social system? Are there any switching costs that people might incur if they decide to adopt the innovation?
3. Complexity. Is the product easy to understand? Easy to use?
4. Triability. Are prospects able to try out the product on a limited basis?
5. Observability. How easy is it for possible adopters to observe the results or benefits of the innovation? Can these benefits easily be communicated?

31 At the Paris Motor Show in October 2008 GM revealed a new sedan also named Cruze. According to GM’s announcement, Cruze is the “result of a development process harnessing GM’s global expertise.” It is the first of a new line of compact cars. GM planned to launch the Cruze in Europe in March 2009 (see http://media.gm.com/featured_vehicles/Chevy_Cruze.htm).
Aside from these variables there are several country characteristics that can be used to predict new product penetration patterns. Communication leading to the transfer of ideas tends to be easier when it happens between individuals who have a similar cultural mindset. Therefore, the adoption rate for new products in countries with a homogeneous population (e.g., Japan, South Korea, Thailand) is usually faster than in countries with a highly diverse culture. When a new product is launched at different time intervals, there will be lead countries, where it is introduced first, and lag countries, that are entered later. Generally, adoption rates seem to be higher in lag countries than in the lead country. Potential adopters in lag-countries have had more time to understand and evaluate the innovation’s perceived attributes than their counterparts in the lead-country. Also, over time, the product’s quality tends to improve and its price usually drops due to economies of scale.  

One research study that looked at the penetration patterns for consumer durables in Europe identified three more country characteristics that are relevant. The first variable is cosmopolitanism. Cosmopolitans are people who look beyond their immediate social surroundings, while locals are oriented more toward their immediate social system. The more cosmopolitan the country’s population, the higher its propensity for innovation. The second country trait is labeled mobility. Mobility is the ease with which member of a social system can move around and interact with other members. It is largely determined by the country’s infrastructure. Mobility facilitates interpersonal communication, and, hence has a positive impact on the product’s penetration in a given market. Finally, the percentage of women in the labor force impacts the spread of certain types of innovations. A higher participation rate of women in the work force means higher incomes and hence more spending power. Timesaving products (such as washing machines, dishwashers) appeal to working women. By the same token, time-consuming durables will be less valued in societies where working women form a substantial portion of the labor force.

Another study examined the diffusion of six products in 31 developing and developed countries across the world. A key finding was that developing countries tend to experience a far slower adoption rate than developed countries. Average penetration potential for developing countries turned out to be about one-third (0.17 versus 0.52) of that for developed countries. Also, it took developing nations on average 18 percent longer (19.25 versus 16.33 years) to reach peak sales.

One useful metric to characterize the takeoff of new products is the time-to-takeoff, that is, the period from the launch of the new product in a particular country market to the takeoff. Takeoff marks the turning point between the introduction and the growth stages of the product life cycle. A recent study looked at the time-to-takeoff for sixteen new products in 31 countries. The mean time-to-takeoff (averaged across product categories) ranged from 5.4 years in Japan to 13.9 years in China and Vietnam (see Exhibit 10-3). Research done by Tellis and his colleagues offers the following insights:

1. Time-to-takeoff is declining over the years. For instance, time-to-takeoff for communication products dropped from 8.6 years for mobile phones to 3.4 years for broadband.

2. Country differences are strong. Newly developed countries (e.g., South Korea) in Asia show faster times-to-takeoff than established European countries (e.g., France).

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Emerging markets (e.g., China, India, Philippines) still lag much behind other countries: 11 years versus 7 years time-to-takeoff.

3. Both economic development and cultural differences explain cross-country variations in time-to-takeoff. High levels of collectivism, power distance, and religiosity are associated with longer time-to-takeoffs.

4. Takeoff for “fun” products (e.g., CD player, mobile phone, digital camera) is much faster than for “work” products (e.g., kitchen appliances): 7 versus 12 years.

5. The probability of takeoff in a target country increases with previous takeoffs in other countries.40

### DEVELOPING NEW PRODUCTS FOR GLOBAL MARKETS

For most companies, new products are the bread-and-butter of their growth strategy. Unfortunately, developing new products is a time-consuming and costly endeavor, with tremendous challenges. The new product development process becomes especially a major headache for multinational organizations that try to coordinate the process on a regional or sometimes even worldwide basis. The steps to be followed in the global new product development (NPD) process are by-and-large very similar to domestic marketing situations. In this section, we will focus on the unique aspects that take place when innovation efforts are implemented on a global scope. **Global Perspective 10-3** describes the development of so-called vitamin-fortified beverages that target youngsters in developing nations.

### Identifying New Product Ideas

Every new product starts with an idea. Sources for new product ideas are manifold. Companies can tap into any of the so-called 4 C’s—company, customers, competition

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40Ibid.
and collaborators (e.g., distribution channels, suppliers)—for creative new product ideas. Obviously, many successful new products originally started at the R&D labs. Other internal sources include salespeople, employees, and market researchers. Multinational companies often capitalize on their global know-how by transplanting new product ideas that were successful in one country to other markets. A good example of this practice is the Dockers line of casual slacks. This product was introduced in Japan by Levi Strauss Japan in 1985. The line became incredibly successful in Japan. As a result, Levi Strauss subsequently decided to launch the line also in the United States and Europe as well.41

A good source to spot new product ideas is the competition. The Global New Product Database (GNPD) set up by the Mintel International can be useful resource in this regard (http://www.gnpd.com/sinatra/gnpd/frontpage/). This database monitors new product introductions for 39 consumer packaged goods categories42 in 48 countries worldwide. The service sends out regular e-mail alerts to its clients about products launched by competitors around the world.

These days many MNCs create organizational structures to foster global (or regional) product development. Unilever set up a network of worldwide innovation centers (ICs) for personal care and food products. Each IC unit consists of marketing, advertising agency, and technical people and is headed by the company chairman of the country subsidiary where the IC is based. The centers are responsible for developing product ideas and research, technology, and marketing expertise. Black & Decker sets

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42Food, drink, health & beauty care, pet care.
Screening

Clearly not all new product ideas are winners. Once new product ideas have been identified, they need to be screened. The goal here is to weed out ideas with little potential. This filtering process can take the form of a formal scoring model. One example of a scoring model is NewProd, which was based on almost two hundred projects from a hundred companies. Each of the projects was rated by managers on about 50 screening criteria and judged in terms of its commercial success. The model has been validated in North America, Scandinavia, and the Netherlands. According to the NewProd model the most important success factor is product advantage (superiority to competing products, higher quality, and unique features), followed by a good fit between the project requirements and the company’s resources/skills, and customer needs. Studies that interviewed Chinese and Japanese product managers reinforced the major role of product advantage in screening new product winners from losers. However, the study done in China also showed that:

1. Competitive activity was negatively correlated with new product success.
2. Being first in the market (pioneer entry) was an important success factor.
3. Product ideas derived from the market place were much more likely to be successful than ideas that came from technical work or in-house labs.

A large-scale research study conducted by researchers at the University of North Carolina looked at the key drivers of first-year consumer acceptance of new packaged. The researchers analyzed a database that covered 301 new products launched in Germany, the U.K., France, and Spain. Some of the main findings include:

- Consumer acceptance is greater when the product is introduced by a brand with more market power (e.g., market support, distribution coverage, shelf space amount and quality) and when marketed as a brand extension.
- There is a U-shaped relation between newness and consumer acceptance. Products with incremental or major newness are more successful than products of medium newness.
- New product acceptance is also highly influenced by the competitive environment: it is higher in less concentrated, less heavily promoted, and less advertised categories and in categories with more intense innovation rivalry. Competitive conduct (e.g., price competition), however, is more important than competitive structure (e.g., market concentration). Further, the firm’s brand reputation and product newness can buffer against negative competitive effects.
- Consumer characteristics also matter: acceptance is higher among consumers who are more predisposed to buy new products, younger consumers, and larger households.

Once the merits of a new product idea have been established in the previous stage, it must be translated into a **product concept**. A product concept is a fairly detailed description, verbally or sometimes visually, of the new product or service. To assess the appeal of the product concept, companies often rely on focus group discussions. Focus groups are a small group of prospective customers, typically with one moderator. The focus group members discuss the likes and dislikes of the proposed product and the current competing offerings. They also state their willingness to buy the new product if it were to be launched in the market (see Chapter 6 for a more detailed discussion of focus group research). Other more sophisticated tools exist to test out and further refine new product concepts. One such tool that has gained wide popularity in the last few decades is **conjoint analysis** (sometimes also referred to as **tradeoff analysis**). The appendix in this chapter illustrates the use of conjoint analysis in global new product development with a hypothetical example.

Clearly, the results of product concept testing should be treated with the same amount of caution as the predictions of a fortune teller (if not even much more). Prior to launching Red Bull, Dietrich Mateschitz, the beverage brand’s founder, tested out the concept: “People didn’t believe the taste, the logo, the brand name . . . a disaster.”

In many Western countries, test marketing of new products before the full-fledged rollout is the norm for most consumer goods industries. Test marketing is essentially a field experiment where the new product is marketed in a select set of cities to assess its sales potential and scores of other performance measures. In a sense, a test market is the dress rehearsal prior to the product launch (assuming the test market results support a “GO” decision). There are several reasons why companies would like to run a test market before the rollout. It allows them to make fairly accurate projections of the market share, sales volume, and penetration of the new product. In countries where household scanning panels are available, firms can also get insights into likely trial, repeat purchase, and usage rates for the product. Another boon of test marketing is that companies can contrast competing marketing mix strategies to decide which one is most promising in achieving the firm’s objectives.

Despite these merits, test markets also have several shortcomings. They are typically very time-consuming and costly. Apart from the direct costs of running the test markets, there is also the opportunity cost of lost sales that the company would have achieved during the test market period in case of a successful global rollout. Moreover, test market results can be misleading. It may be difficult to replicate test market conditions with the final rollout. For instance, certain communication options that were available in the test market cities are not always accessible in all of the final target markets. Finally, there is also a strategic concern: test markets might alert your competitors and thereby allow them to pre-empt you.

In light of these drawbacks, MNCs often prefer to skip the test market stage. Instead they use a market simulation or immediately launch the new product (one survey done in the 1990s indicated that pan-European financial institutions conducted test markets less than 20 percent of the time). One alternative to test marketing is the laboratory test market. Prospective customers are contacted and shown commercials for the new item and existing competing brands. After the viewing, they are given a small amount of money and are invited to make a purchase in the product category in a simulated store setting (“lab”). Hopefully, some of the prospects will pick your new product. Those who purchase the new product take it home and consume it. Those who choose a competing brand are given a sample of the new product. After a couple of weeks the subjects are contacted again via the phone. They are asked to state their attitude toward the new item in terms of likes and dislikes, satisfaction, and whether they would be willing to buy the product again.

Such procedures, although relatively cheap, still give valuable insights about the likely trial and repeat buying rates, usage, and customer satisfaction for the new product.

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49 For a detailed discussion of conjoint analysis, see Chapter 22 in David A. Aaker, V. Kumar, and George S. Day, *Marketing Research* (New York: John Wiley & Sons, 2006).


price sensitivities, and the effectiveness of sampling. The collected data are often used as inputs for a marketing computer simulation model to answer “what if” questions.

Another route that is often taken is to rely on the sales performance of the product in one country, the lead market, to project sales figures in other countries that are considered for a launching decision. In a sense, an entire country is used as one big test market. One practitioner of this approach is Colgate-Palmolive. For example, it used Thailand as a bellwether for the worldwide introduction of Nouriché, a treatment shampoo.\(^{52}\) Thailand was chosen as a springboard because of the size and growth potential of its hair-care market. BMW used Australia as a global test market for a chain of BMW Lifestyle concept stores selling accessories (e.g., wallets, garments) under the BMW brand name. The concept is a way of keeping in touch with BMW customers to build a long-term relationship.\(^{53}\) McCafé, McDonald’s chain of upmarket coffee shops, is another good example. The first McCafé was launched in Australia in 1993. Restaurants with a McCafé generated 15 percent more revenue than regular ones. By 2003 McCafé had become the largest coffee shop brand in Australia and New Zealand. In light of the concept’s success, the company introduced it in other countries around the world including the United States (2001) and Japan (2007). By 2008 there were 1,300 McCafé outlets worldwide.\(^{54}\) Other recent instances of the use of an entire country as a test market are summarized in Exhibit 10-4.

Using a country as a test market for other markets raises several issues. How many countries should be selected? What countries should be used? To what degree can sales experience gleaned from one country be projected to other countries? Generally speaking, cross-cultural and other environmental differences (e.g., the competitive climate) turn cross-country projections into a risky venture. The practice is only recommendable when the new product targets cross-border segments.

**Timing of Entry: Waterfall versus Sprinkler Strategies**

A key element of a global or regional product launch strategy is the entry timing decision: When should you launch the new product in the target markets? Roughly speaking, there are two broad strategic options: the waterfall and the sprinkler model (see Exhibit 10-5).\(^{55}\)

### Exhibit 10-4
**Examples of Test Market Countries**

<table>
<thead>
<tr>
<th>Company</th>
<th>Product</th>
<th>Test Market Used</th>
<th>Geographic Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colgate-Palmolive</td>
<td>Nouriché (Shampoo)</td>
<td>Thailand</td>
<td>World</td>
</tr>
<tr>
<td>Unilever</td>
<td>Organics (Shampoo)</td>
<td>Thailand</td>
<td>World</td>
</tr>
<tr>
<td>Toyota</td>
<td>Toyota Soluna</td>
<td>Thailand</td>
<td>Asia</td>
</tr>
<tr>
<td>Coca-Cola</td>
<td>Coca-Cola Blak (Coffee-flavored cola)</td>
<td>France</td>
<td>World</td>
</tr>
<tr>
<td>Honda</td>
<td>Honda City</td>
<td>Thailand</td>
<td>Asia</td>
</tr>
<tr>
<td>Miller</td>
<td>Red Dog (Beer)</td>
<td>Canada</td>
<td>North-America</td>
</tr>
<tr>
<td>BMW</td>
<td>Concept Stores</td>
<td>Australia</td>
<td>World</td>
</tr>
<tr>
<td>Unilever</td>
<td>Dove Cream Shampoo</td>
<td>Taiwan</td>
<td>Asia</td>
</tr>
<tr>
<td>Procter &amp; Gamble</td>
<td>Nutristar (Vitamin-packed Children Drinks)</td>
<td>Venezuela</td>
<td>Developing world</td>
</tr>
<tr>
<td>McDonald’s</td>
<td>Golden Arch Hotel</td>
<td>Switzerland</td>
<td>Europe</td>
</tr>
<tr>
<td>KFC</td>
<td>Breakfast Menu</td>
<td>Singapore</td>
<td>World</td>
</tr>
<tr>
<td>Fiat</td>
<td>Palio</td>
<td>Brazil</td>
<td>World</td>
</tr>
<tr>
<td>Philip Morris Intl.</td>
<td>Marlboro Gold Edge</td>
<td>Poland</td>
<td>Central &amp; Eastern Europe</td>
</tr>
<tr>
<td>Philip Morris Intl.</td>
<td>Marlboro Intense</td>
<td>Turkey</td>
<td>Europe</td>
</tr>
<tr>
<td>Microsoft</td>
<td>Search based advertising engine</td>
<td>France, Singapore</td>
<td>World</td>
</tr>
</tbody>
</table>


\(^{53}\)“In Australia, BMW to Test New Concept in Dealerships: Branded Fashion Sales,” *Advertising Age International* (March 8, 1999), p. 2.


The first option is the **global phased rollout** or **waterfall model**, where the company releases the new product stage-wise in its different country markets. The typical pattern is to introduce the new product first in the company’s home market. Next, the innovation is launched in other advanced markets. In the final phase, the multinational firm markets the product in less advanced countries. This whole process of geographic expansion may last several decades. The time span between the U.S. launch and the foreign launch was 22 years for McDonald’s, 29 years for Wal-Mart, 25 years for Starbucks (outside North America), 20 years for Coca-Cola, and 35 years for Marlboro. For other products, especially high-tech goods with short a product life cycle, the sequence happens over a much shorter time span. Exhibits 10-6a and b shows the rollout for two recently launched competing innovations in the game console industry, namely Microsoft’s Xbox 360 and Sony’s PlayStation 3.

The prime motive for the waterfall model is that adaptations of the marketing strategy for the host market can be very time-consuming. A phased rollout is also less demanding on the company resources. Other constraints such as the absence of good local partners may block a global rollout. Apple, for example, needed to negotiate partnership deals with local mobile phone service companies for the launch of its iPhone. These negotiations were not always successful. In China, for instance, Apple’s negotiations with China Mobile, China’s largest mobile service provider, broke down, leading to a significant delay of the iPhone launch in that market. On the other hand, staggered rollouts are not always acceptable. In many industries—especially business-to-business markets—consumers worldwide do not want to be left behind. They all want to have access to the latest generation. A good example is what happened with the iPhone. Long before its official launch outside the United States, many Asian and European customers eager to get Apple’s smart phone would buy an unauthorized

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**EXHIBIT 10-5**

**WATERFALL VERSUS SPRINKLER MODELS**

- **Waterfall Model**
  - Home Country
  - A
  - B
  - C
  - D
  - E
  - F
  - > 3 years

- **Sprinkler Model**
  - Home Country
  - A
  - B
  - C
  - D
  - E
  - F
  - 1–2 years

iPhone that was “unlocked” by a third party for a fee. Further, a phased rollout gives competitors time to catch up. For instance, the delay of the iPhone launch in the Asia-Pacific market allowed other smart phone makers such as Taiwan-based HTC to gain ample headway in pitching their smart phone models in the region as an acceptable alternative to iPhone.

The second timing decision option is the **sprinkler strategy** of simultaneous worldwide entry. Under this scenario, the global rollout takes place within a very narrow time-window. The growing prominence of universal segments and concerns about competitive pre-emption in the foreign markets are the two major factors behind this expansion approach.

The waterfall strategy of sequential entry is preferable over the sprinkler model when:

1. The lifecycle of the product is relatively long.
2. Nonfavorable conditions govern the foreign market, such as:
   - Small market size (compared to the home market).
   - Slow growth.
   - High fixed costs of entry.
3. The host country market has a weak competitive climate because of such things as:
   - Very weak local competitors.
   - Competitors willing to cooperate.
   - No competitors.

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If a waterfall strategy is chosen, one important question is the sequence of countries
to be entered: in which markets should the firm launch the product first and which ones
later? Chandrasekaran and Tellis suggest the following two options:

- If a company wishes to launch the product in an innovative and large market, the best
countries would be Japan or the United States.
- However, if a company wishes to test market the product in a small, highly innovative
country, the best choices would be one of the Scandinavian countries, Switzerland or
the Netherlands in Europe and South Korea in Asia.60

A research team at Erasmus University explored this issue by developing a model
that captures the effect of global spillovers with new product introductions: consum-
ers in one country could be influenced by consumers in other countries in their new
product adoption decisions. The ideal country to enter first should have a fast time-to-
takeoff, large market size, and strong influence on other countries. In Europe, good
candidates that are highly influential include Germany and France. However, these
two have a somewhat slower takeoff time compared to other European countries. The
United Kingdom, on the other hand, shows a fast time-to-takeoff but has a modest
spillover influence on other countries. Candidates with a slow takeoff and limited
influence on other countries, but susceptible for foreign influences, are ideal for
later entry. In Asia, countries such as Singapore, India, Pakistan, and China meet this
profile.61

TRULY GLOBAL PRODUCT DEVELOPMENT

Scores of companies have research centers that are spread across the world. Unilever,
for example, has a network of centers of excellence. However, these centers often
concentrate on knowledge and technical expertise that is available in the countries or
regions where they are located. Far fewer are those companies that have managed to set
up a truly global product development process (GPD) that transcends local clusters.
Such companies use a network of cross-functional product development teams spread
across the globe. The benefits of GPD include greater engineering efficiency (through
utilization of lower-cost resources), access to technical expertise that is distributed
internationally, design of products for more global markets, and more flexible product
development resource allocation (through use of outsourced staff).62 Doz and his
colleagues labeled such companies as metanational innovators.63 Nokia is one example
of a company that excelled as a metanational innovator. Nokia developed its first
digital mobile phone from its R&D lab in the United Kingdom, not Finland. After
observing consumer trends in Asia, Nokia tapped into design skills in Italy and
California to turn the mobile phone into a fashion accessory. Nokia gained experience
from Japan in miniaturization and improved user interface. Realizing the potential of
mobile telephony to substitute fixed line communication in China and India, Nokia
looked at Asia for skills to lower manufacturing costs.

The development of the ProLiant ML150 server by Hewlett-Packard provides
another illustration of truly global innovation.64 This server helps companies to manage
customer databases and run e-mail systems. The initial idea was born in Singapore.
After concept approval in Houston, concept design for the new server was done in

60Deepa Chandrasekaran and Gerard J. Tellis, “Global Takeoff of New Products: Culture, Wealth or Vanishing
61Yvonne van Everdingen, Dennis Fok, and Stefan Stremersch, “Meeting Global Spillover in New Product
63Yves Doz, Jose Santos, and Peter Williamson, From Global to Metanational: How Companies Win in the
Singapore. Then HP picked a contractor in Taiwan to come up with the engineering design. Final assembly was made in four countries: Singapore, Australia, China, and India. In the past, design for high-end servers was done in the United States. However, by designing the ML150 in Asia, H-P could cut costs and make the new product more relevant to its Asian customers, the target market for this particular server.

To harvest the benefits of metanational innovation, a company must pursue three things:65

1. **Prospecting.** Find valuable new pockets of knowledge from around the world. For this to be effective, companies should keep an open mind on where knowledge can be found. For instance, while many view California as the hotbed for microelectronics innovations, Israel and Singapore are also at the forefront in this area. Geographic proximity of the company’s knowledge center to other firms or research institutions in the same industry should not be the key driver. Much more advantage can be derived from developing and nurturing relationships with potential pockets of knowledge, regardless of their location.66

2. **Assessing.** Decide on the optimal footprint, that is, the number and dispersion of knowledge sources. In terms of the number of knowledge sources, companies face a tradeoff between improved chances of developing a novel product and increased costs of integration. Often, the footprint evolves as the new product development process unfolds, especially for radical innovations.

3. **Mobilizing.** To harness the benefits of global innovation, companies must find ways to mobilize pockets of knowledge (e.g., technical blueprints, patents, equipment, market knowledge). The optimal strategy for mobilizing knowledge depends on the type (simple versus complex) and nature (technical versus market) of the knowledge involved. This leads to four possible scenarios as shown in Exhibit 10-7.

![Exhibit 10-7: Mobilizing Knowledge](image)

**Exhibit 10-7**

Mobilizing Knowledge

The optimum strategy for transferring knowledge depends on the complexity of both market knowledge (low versus high) and technological knowledge (low versus high).

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Global product policy decisions are tremendously important for the success of an MNC’s global marketing strategies. In this chapter, the focus was on managing the new product development process in a global context. We first gave an overview of the different product strategy options that companies might pursue. Roughly speaking, a multinational company has three options: extension of the domestic strategy, adaptation of home-grown strategies, and invention by designing products that cater to the common needs of global customers. One of the major issues firms wrestle with is the standardization-versus-customization issue. By now, you should realize that this issue should not be stated in “either-or” terms. Instead, it is a matter of “degree”: To what extent should we adapt (or if you want: standardize) our product strategy? We described the major forces that favor a globalized (or regionalized) product strategy. At the same time, there will always be forces that push your product strategy in the direction of customization.

Ideally, companies strike a neat balance between product standardization and adaptation. We described two product design approaches that enable a firm to capture the benefits of either option: the modular and the core-product approach. By adopting these approaches or their variants, firms minimize the risk of over-standardizing their product offerings while still grabbing the scale economies benefits that flow from a uniform product policy. We also demonstrated how you can use one market research tool—conjoint analysis—to make global product design decisions in practice.

The last part of this chapter highlighted the different stages in the new product development process. By and large, the pattern is similar to the steps followed in developing new products for the home market. However, there are a number of complicating factors that need to be handled: How do we coordinate global NPD efforts across different cultures? What mechanisms and communication channels can we use to stimulate idea exchanges? What alternatives do we have when certain steps of the NPD sequence are not do-able (e.g., test marketing)? Companies such as Nokia have configured innovation processes that are truly global. In the final section of this chapter, we looked at the characteristics of these so-called metanational innovators.

It is fitting to conclude this chapter with the insights of a seasoned practitioner. Don Graber, president of Worldwide Household Products at Black & Decker, offers the following set of guidelines on global product development:

- Start with the consumer. Understand the commonalities and differences in regional needs.
- Do not try to make a product more global than it really is. A good, well-executed regional product is better than a “poorly executed” global product.
- Global business teams that are multifunctional and multigeographic are very helpful in supporting a global product program.
- Top managerial commitment and support is absolutely essential.


**KEY TERMS**

- Adaptation
- Core-product approach
- Customization
- Extension
- Incremental break-even analysis (IBEA)
- Invention
- Global new product database (GNPD)
- Lead (lag) country
- Metanational innovators
- Modular approach
- Sprinkler strategy
- Overcustomization (Overstandardization)
- Sprinkler strategy
- Standardization
- Time-to-takeoff
- Waterfall strategy

**REVIEW QUESTIONS**

1. Under what conditions is a dual extension strategy advisable? When is product invention more appropriate?
2. Explain the difference between the modular and core-product approaches.
3. Discuss the forces that favor a globalized product design strategy.
4. What could be the hidden costs of when adapting a product to be launched in a foreign market?
5. In what sense is the “standardize-versus-customize” question in global product design a bogus issue?
6. MNCs tend to move more and more towards a sprinkler strategy in terms of their global launch timing decisions. What forces lie behind this trend?
7. What are the major dangers in using an entire country as a “test market” for new products that are to be launched globally (or regionally)?
DISCUSSION QUESTIONS


“The old global view was that a centrally developed brand idea could be made relevant in just about any market, depending on how it was adapted. The reality of the new globalization is that a brand viewpoint that starts out being relevant in one market can become relevant in others, because of the nature of converging consumers. Creative ideas literally can come from anywhere, as long as there is a coordinated system for recognizing and disseminating these ideas. Countries that were once thought of as only being on the receiving end of global ideas can now also be the creators and exporters of these ideas.”

2. Seagram Co. is well known for its high-end alcohol brands such as Martell and Chivas Regal. In May 2001, Seagram introduced a locally made whiskey, branded “30% High” in China. The brand name refers to the brand’s 30 percent alcohol content and the alcohol high that comes with whiskey consumption. The target age group is 20–39 who cannot afford Seagram’s more expensive brands such as Chivas. Priced at $4.75 per bottle it is more expensive than baijiu, the spirit made by local manufacturers. More than 100 million cases of baijiu are sold in China’s biggest cities each year, compared to only 650,000 cases of imported spirits. At the launch, Seagram believed that “30% High” would work as it claimed that there was a market for a spirit with a sophisticated but affordable image. What obstacles do you see that Seagram might change with “30% High”? Presuming that “30% High” proves to be successful, can you think of other potential markets where there might be an opportunity for this new brand?

3. At a press conference in March 2008, Martin Wiederkorn, Volkswagen’s chief executive, stated that: “In the coming years, we will make the VW group the world’s most international carmaker. The days of the ‘world car’ are dead and buried. Our customers in China or India expect us, as a global player, to offer entirely different solutions than we do in the United States or Western Europe.” (“VW Chief Kills ‘World Car’ Dream.” Financial Times, March 14, 2008, p. 21). Do you agree or disagree? Why?

4. In the late 1990s McDonald’s headquarters in Chicago decided to launch a “diversification” strategy to foster new ideas and concepts worldwide. One of the initiatives came from McDonald’s Swiss branch. Urs Hammer, the then head of McDonald’s Switzerland, proposed extending the brand into the hotel business by leveraging McDonald’s image of cleanliness and fast, friendly service. With McDonald’s strong global brand recognition, Hammer was convinced the project would be a success. In 2001 McDonald’s opened two hotels, one in Zürich and one in Lully, under the name “Golden Arch Hotel” with room rates slightly about $100 a night. The hotels were positioned as four-star accommodations with cutting-edge in-room technology and unique, modern interior design. The hotels offered high-speed Internet access and an online booking system with special Internet rates. Beds featured distinctive arch-shaped headboards. The target markets encompassed business travelers during weekdays and young adults on weekends. What is your view about the selection of Switzerland as the first market for the Golden Arch Hotel concept? Do you see potential to extend the concept to other countries and if so which ones? (See also http://www.youtube.com/watch?v=FcDLzU0.)

5. The Tata Nano car has been labeled the Model T for the 21st century. Selling for $2,500 it claims to be the world’s cheapest car and could democratize car ownership in Indian and other emerging markets by fulfilling the dream of a lot of people in those countries who would like to own a car. Do you see potential for the Nano beyond India? Why or why not? If yes, what criteria would you use to select markets? Could Tata even launch the car in developed markets such as Hong Kong or Japan? Why or why not? For a visual impression of the Nano you could look at YouTube clips (see, for example, http://www.youtube.com/watch?v=wzuy3Aw0iDo).

6. What particular challenges do you see for companies introducing product categories that are truly new—recent examples include frozen yogurt (TCBY) and breakfast cereals (Kellogg’s) in China; iced tea (Snapple) in Europe—into the foreign market? How might the marketing mix strategies used by the companies involved differ from the strategies used in the more developed markets?
CASE 10-1

CASE 10-1: LEXUS IN EUROPE: A BUMPY RIDE

Lexus is the luxury car division of Japanese automaker Toyota. The foundations for the Lexus brand were laid in 1983 at a secret meeting of Toyota executives. At the meeting, Toyota’s then chairman Eiji Toyoda posed the question: “Can we create a luxury vehicle to challenge the world’s best?” Following the meeting, Toyota started a top-secret project, codenamed F1, which eventually led to the development of the Lexus LS 400. The LS 400 was revealed to the public in January 1989 at the Detroit Auto Show and debuted in the United States in September 1989. The LS 400 was widely praised in the automotive press for its silence, build quality, engine performance, high quality, and fuel economy. Lexus soon introduced other models including the RX 400h, the world’s first hybrid luxury SUV. By 2007, Lexus’s annual sales in the United States had risen to 329,177 units. For seven years in a row, Lexus has been the number one selling luxury brand in the world’s largest automotive market.

In Europe, however, Lexus is struggling. Vehicle sales in 2007 were only 54,000 units in the region, less than one fifth of Lexus’s U.S. sales volume. While Lexus fared well in the United Kingdom, sales in Germany, the home turf of BMW and Mercedes, have been dismal. One reason for the marque’s poor reception in Europe could have been the design. According to Karl Schlicht, the brand’s vice-president for Europe: “To Europeans, it looked very American—boxy and not enough style, not enough design, not enough features.” Lexus also offered only one diesel model, in spite of Europeans’ liking for diesel cars. In 2007, Lexus changed the look of its cars in the hope of spurring sales. To differentiate from other luxury carmakers, Lexus decided to offer hybrid alternatives of several of its cars. It also announced plans to revamp its dealership network. Lexus is targeting 65,000 sales in Europe by 2010, still far below U.S. sales.

However, a new competitor is on the horizon: Infiniti. Infiniti, Nissan’s luxury brand, prepared a Europe-wide launch for 2008. The launch pad is Russia—a “comparatively easy market”—where its cars were already available through grey-market imports. Nissan aims to sign up about fifteen business partners for dealerships and will replicate its U.S. retail environment, which it likens to a modern design hotel. Initially, it will only launch models with petrol engines. A diesel option will be added by 2010. An Infiniti spokesman noted, “The European market is the toughest in the world. We’re going for a different angle: performance and fun to drive.”

DISCUSSION QUESTIONS

1. Why did Lexus fail miserably in Europe?
2. Is there still hope for Lexus to recover in Europe? Are the changes announced for 2007 enough or is more drastic action needed?
3. Will Nissan’s Infiniti luxury brand be more successful? Why or why not?


CASE 10-2

CASE 10-2: PHILIP MORRIS INTERNATIONAL—THRIVING IN A HOSTILE WORLD

In March 2008, the Altria board approved the spin-off of Philip Morris International (PMI). This newly created entity is a leading international tobacco company with products sold in around 160 countries. It is also the world’s third most profitable consumer goods company after Procter & Gamble and Nestlé. The change was supposed to free the tobacco giant’s global business of legal and public-relations headaches in the United States.

The breakup should also make it easier for PMI to market a slate of new smoking concepts each targeted to different foreign markets. Ahead of the reorganization, Philip Morris streamlined the international new product decision-making process: local managers now have the “power to decide” which new ideas may have legs in a particular region. PMI also overhauled its manufacturing: it halted imports from the U.S. sister company and, instead, now gets its entire supply from 42 manufacturing centers around the world.

While smoking rates in developed countries have steadily declined, they are still rising in many emerging markets such as Pakistan (up 42% since 2001), Ukraine (up 36%), and Argentina (up 18%). China, with 350 million smokers (50 million more than the U.S.), is a tremendous opportunity for PMI. One of the company’s goals is to gain a foothold in China. For the time being, though, foreign tobacco companies such as PMI are limited to importing cigarettes for sale in China. Imports are subject to high import duties and stringent quotas. After
lengthy years of negotiating, PMI reached a joint venture deal with CNTC (China National Tobacco Corporation). PMI hopes to develop CNTC as a key strategic partner. As part of the deal, Marlboro is manufactured and sold under license by CNTC in China. PMI also plans to market Chinese brands internationally, primarily in Central and Eastern Europe, and Latin America. PMI will adapt these Chinese brands to make them more appealing to non-Chinese smokers. Chinese smokers prefer full-tar brands while most Europeans and Latin Americans favor lower-tar brands. Chinese brands’ packaging also tends to be too flashy for non-Chinese.

PMI also launched a slate of new products in markets around the world. For instance, to appeal to Southeast Asian consumers PMI launched Marlboro Mix 9, a sweet-smelling cigarette with twice the nicotine and tar of a conventional U.S. cigarette. Mix 9 debuted in Indonesia and was later introduced in other countries in the region. Other recent new Marlboro launches include Marlboro Filter Plus and Marlboro Intense. Marlboro Filter Plus (sold as Marlboro Flavor Plus in some countries) is PMI’s most significant innovation in years. It has a unique multi-chamber filter and is sold in an original sliding pack. The brand is available at three tar levels (1 mg, 3 mg, and 6 mg) and generally retails at a premium.

**Market Share Levels (Sept. 2008) Marlboro Filter Plus**

<table>
<thead>
<tr>
<th>Country</th>
<th>Market Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kuwait</td>
<td>2.1%</td>
</tr>
<tr>
<td>Romania</td>
<td>2.0%</td>
</tr>
<tr>
<td>Kazakhstan</td>
<td>1.4%</td>
</tr>
<tr>
<td>Belarus</td>
<td>0.6%</td>
</tr>
<tr>
<td>Moscow</td>
<td>1.0%</td>
</tr>
<tr>
<td>Lithuania</td>
<td>1.0%</td>
</tr>
</tbody>
</table>

*Source: www.philipmorrissinternational.com.*

Another major global product launch for PMI in 2008 was the Marlboro Intense brand. This new product explores the concept of a rich, flavorful smoke in a shorter cigarette. It was first launched in Turkey and has since then been expanded to a wide range of EU markets (e.g., Belgium, Italy, Germany, Portugal). It achieved a 0.6 percent market share in September 2008.

To cope with smoking bans in mature markets PMI is developing the Heatbar, an odd-looking electronic device that resembles an electric toothbrush. This new device releases 90 percent less smoke than a normal cigarette. Smokers would be able to rent or buy the gadget. PMI has shown prototypes of the Heatbar to regulators in Australia, New Zealand, and the U.K., all countries with stringent anti-smoking regulations. Another recent new product is TBS (“Tobacco Block System”), which was first introduced in Germany. The tool targets smokers who prefer roll-your-own tobacco that is taxed significantly less than normal cigarettes. The TBS kit enables smokers to quickly roll their own cigarettes.

**DISCUSSION QUESTIONS**

1. Some anti-tobacco critics sounded alarm bells about the PMI spin-off fearing that the cigarette maker now has more freedom to pursue sales growth in emerging markets by shielding the company from U.S. legal and regulatory issues. Do you agree with that concern?
2. The case discusses PMI’s recent new product launches around the world. What is the major thrust of these innovations? Is PMI on the right track? Why or why not?
3. What else would you recommend PMI to do in the area of new product development?


**FURTHER READING**


Kleinschmidt, E. J., example. In what follows, we focus on the use of conjoint products in an international setting, let us look at a hypothetical launch in the various target markets.

The next step is to construct product profiles by combining the various attribute levels. Each profile would represent a product (or service). Exploratory market research (e.g., a focus group discussion) or managerial judgment can be used to figure out the most critical attributes. At the same time, we also need to consider the possible levels (“values”) that each of the attributes can take. In our example (see Exhibit 10-8) four attributes are considered to be important: (1) the number of channels, (2) the purchase price, (3) the installation cost, and (4) the size of the dish (in terms of inches). Each of the attributes has three possible levels. For instance, the diameter of the dish could be 18, 25, or 30 inches.

The higher this utility score, the more attractive is the concept. This information allows the company to answer questions such as how much their customers are willing to pay extra for additional product features or superior performance. The tool can also be used to examine to what degree a firm should customize the products it plans to launch in the various target markets.

To illustrate the use of the conjoint for the design of products in an international setting, let us look at a hypothetical example. In what follows, we focus on the use of conjoint analysis in the context of global new product development.

In this appendix we discuss how international marketers can use conjoint analysis to test new product concepts. Most products and services can be considered as a bundle of product attributes. The starting premise of conjoint analysis is that people make trade-offs between the different product attributes when they evaluate alternatives (e.g., brands) from which they have to pick a choice. The purpose, then, of conjoint is to gain an understanding of the trade-offs that consumers make. The outcome of the exercise will be a set of “utilities” for each level of each attribute, derived at the individual household or consumer segment level. By summing these utilities for any a specific product concept, we can see how attractive that concept is to a particular consumer.

For instance, the diameter of the dish could be 18, 25, or 30 inches. Each of the attributes has three possible levels. For instance, the diameter of the dish could be 18, 25, or 30 inches.

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APPENDIX: USING CONJOINT ANALYSIS FOR CONCEPT TESTING IN GLOBAL NEW PRODUCT DEVELOPMENT

In this appendix we discuss how international marketers can use conjoint analysis to test new product concepts. Most products and services can be considered as a bundle of product attributes. The starting premise of conjoint analysis is that people make trade-offs between the different product attributes when they evaluate alternatives (e.g., brands) from which they have to pick a choice. The purpose, then, of conjoint is to gain an understanding of the trade-offs that consumers make. The outcome of the exercise will be a set of “utilities” for each level of each attribute, derived at the individual household or consumer segment level. By summing these utilities for any a specific product concept, we can see how attractive that concept is to a particular consumer.

The next step is to construct product profiles by combining the various attribute levels. Each profile would represent a description of a hypothetical product. In most applications it is unrealistic to consider every possible combination since the

69 In the example we assume that no middlemen will be used, so the retail price is the same as the ex-factory price.
number of possibilities rapidly explodes. Instead, one uses an experimental design to come up with a small but manageable number of product profiles; this number varies from study to study. Obviously, the number of profiles will depend on the number of attributes and attribute levels, but also on other factors like the amount of information you want to collect. In most studies, the number of profiles ranges between 18 and 32. An example of such a profile is given in Exhibit 10-9.

After the profiles have been finalized, the company can go into the field and ask subjects to evaluate each concept. In each country several prospective target customers will be contacted. For instance, you might ask the respondent to rank the product profiles from most to least preferred. In addition, other data (e.g., demographics, lifestyle) are collected that often prove useful for benefit segmentation purposes.

Once you have collected the preference data, you need to analyze them using a statistical software package (e.g., SAS). The computer program will assign utilities to each attribute level based on the product evaluation judgment data that were gathered. Hypothetical results for our example are shown in Exhibit 10-10. Each country has two segments: a price-sensitive and quality-sensitive segment. The entries in the columns represent the utilities for the respective attribute levels. For instance, the utility of 100 channels in Thailand would be 5.6 for Segment II compared to 2.5 for Malaysia’s performance Segment II. The results can be used to see which attributes matter most to each of the segments in the different target markets. The relative range of the utilities indicates the attribute importance weights. In this example, price is most critical for Thai Segment I (utility range: 0 to -4.6), whereas the number of channels (utility range: 0 to 5.6) matters most for Thai Segment II. The technical nitty-gritty is less important here, but we would like you to get a flavor of how conjoint analysis can be used to settle product design issues in a global setting. Let us consider the standardization versus customization issue.

For the sake of simplicity, suppose that currently there is one incumbent competitor, ABC, in the satellite dish industry in Thailand and Malaysia. The ABC brand has the following features:

- **Number of channels**: 30
- **Selling price**: $500
- **Installation fee**: Free
- **Size of dish**: 18"

XYZ is looking at two possibilities: (1) sell a standardized product (model XYZST) or (2) launch a customized product for each of the two markets (models XYZTH and XYZMA). The standardized product (XYZST) has the following profile:

- **Number of channels**: 50
- **Price**: $600
- **Installation**: $100
- **Size of dish**: 25"

The customized products would have the following characteristics:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Product XYZTH (Thailand)</th>
<th>Product XYZMA (Malaysia)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Channels</td>
<td>100</td>
<td>30</td>
</tr>
<tr>
<td>Price</td>
<td>$700</td>
<td>$700</td>
</tr>
<tr>
<td>Installation</td>
<td>$200</td>
<td>Free</td>
</tr>
<tr>
<td>Size of Dish</td>
<td>25&quot;</td>
<td>18&quot;</td>
</tr>
</tbody>
</table>

EXHIBIT 10-8
SALIENT ATTRIBUTES AND ATTRIBUTE LEVELS FOR SATELLITE DISHES

<table>
<thead>
<tr>
<th>Product Attributes</th>
<th>Attribute Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of channels</td>
<td>(1) 30</td>
</tr>
<tr>
<td></td>
<td>(2) 50</td>
</tr>
<tr>
<td></td>
<td>(3) 100</td>
</tr>
<tr>
<td>Selling price</td>
<td>(1) $500</td>
</tr>
<tr>
<td></td>
<td>(2) $600</td>
</tr>
<tr>
<td></td>
<td>(3) $700</td>
</tr>
<tr>
<td>Installation fee</td>
<td>(1) Free</td>
</tr>
<tr>
<td></td>
<td>(2) $100</td>
</tr>
<tr>
<td></td>
<td>(3) $200</td>
</tr>
<tr>
<td>Size of dish</td>
<td>(1) 18&quot;</td>
</tr>
<tr>
<td></td>
<td>(2) 25&quot;</td>
</tr>
<tr>
<td></td>
<td>(3) 30&quot;</td>
</tr>
</tbody>
</table>

EXHIBIT 10-9
EXAMPLE OF A PRODUCT PROFILE

**Product Profile 18**

(1) Number of channels: 30
(2) Price: $500
(3) Installation fee: $100
(4) Size of dish: 25"

EXHIBIT 10-10
RESULTS OF CONJOINT ANALYSIS FOR SATELLITE DISHES

<table>
<thead>
<tr>
<th>Attributes</th>
<th>Thailand Segment I</th>
<th>Thailand Segment II</th>
<th>Malaysia Segment I</th>
<th>Malaysia Segment II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Channels:</td>
<td>30 0.0 0.0 0.0 0.0</td>
<td>50 1.5 3.4 1.4 1.8</td>
<td>100 3.2 5.6 3.0 2.5</td>
<td></td>
</tr>
<tr>
<td>Purchase Price:</td>
<td>$500 0.0 0.0 0.0 0.0</td>
<td>$600 -3.2 -1.5 -2.8 -2.5</td>
<td>$700 -4.6 -2.0 -4.8 -3.0</td>
<td></td>
</tr>
<tr>
<td>Installation:</td>
<td>Free 0.0 0.0 0.0 0.0</td>
<td>$100 -1.5 -0.2 -1.4 -1.0</td>
<td>$200 -1.8 -0.4 -2.1 -1.7</td>
<td></td>
</tr>
<tr>
<td>Size of Disk (Diameter):</td>
<td>18&quot; 0.0 0.0 0.0 0.0</td>
<td>25&quot; -0.5 -1.0 -0.4 -2.0</td>
<td>30&quot; -0.8 -1.5 -1.0 -5.0</td>
<td></td>
</tr>
<tr>
<td>Size of Segment</td>
<td>12,000 28,000 15,000 16,000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
In this example, the selling price for the uniform product is less than the price for the standardized product because of scale economies. By computing the overall utility for each of the alternatives we are able to estimate the market share that each product would grab in the two countries. This overall score is simply the sum of the utilities for the attribute levels. The respective utilities for the various product configurations are shown in Exhibit 10-11.

Assuming that each customer will pick the alternative that gives the highest overall utility, we can derive market share estimates in the two countries for the two product alternatives. For instance, we find that customers in Segment II would prefer the standardized dish to the competing model (as 0.7 > 1.5). On the other hand, Segment I in Thailand would pick ABC (since –3.7 < –0.8). Hence, the market share for the standardized model (XYZST) in the Thai market would equal 70 percent: the number of households in the quality segment, 28,000 (see bottom row of Exhibit 10-11) divided by the entire market size for satellite dishes in Thailand, 40,000. In the same manner, we can compute XYZ’s market share for the standardized model in Malaysia and for the customized models in the two countries:

\[ \text{Market Share Standardized Product XYZST in Malaysia} = 51.6\% \ (16,000/31,000) \]
\[ \text{Market Share Customized Product XYZTH in Thailand} = 70\% \ (28,000/40,000) \]
\[ \text{Market Share Customized Product XYZMA in Malaysia} = 51.6\% \ (16,000/31,000) \]

In our example, the market share estimates for the two alternatives (standardized versus customized) end up being equal. Once we have cost estimates for the manufacturing and marketing of the different alternatives, we can estimate their expected profits. For instance, let us assume that the variable costs are equal (say, $400 per unit) but the fixed costs (combined across the two markets) differ: $5 million for the standardized product option as opposed to $10 million for the customized product option. Plugging in our market share estimates and these cost estimates, we can assess the profit potential of the various options:

Profits for standardized product approach (combined across the two countries):

\[
\text{(Unit Sales Thailand + Unit Sales Malaysia) } \times \text{(Unit Contribution) } - \text{Fixed Costs}
\]

or

\[
(28,000 + 16,000) \times (600 + 100 - 400) - 5,000,000 = 8.2 \text{ million}^{71}
\]

Profits for the customized product strategy:

\[
(28,000) \times (700 + 200 - 400) + (16,000) \times (700 + 0 - 400) - 10,000,000 = 8.8 \text{ million}.
\]

71 The unit contribution in this example is: selling price + installation fee – variable cost.