

# I Innovating for the Middle of the Pyramid in Emerging Countries

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## INTRODUCTION

The middle of the pyramid, i.e., the middle-income classes, in emerging countries are increasingly becoming a large consumer market but one that is little understood.<sup>1</sup> This increasingly growing middle-of-the-pyramid group is the result of the recent economic progress of many emerging economies. Individuals who until recently were very poor, and commonly ignored as consumers by most companies, are no longer so. They have become entrepreneurs or are employed in jobs that provide them with higher and more stable income. As a result, their consumption patterns have shifted, becoming an attractive but underserved and in most cases misunderstood market.

The middle of the pyramid in emerging markets differs significantly from the middle classes in advanced economies that most companies are used to serving, especially multinationals from advanced economies. One reason is that the middle of the pyramid in emerging economies has much lower levels of income. Although they are middle class in the emerging markets in which they live, they would be considered poor in advanced economies by their level of income alone. Another reason is that their consumption patterns differ markedly. Up until recently, the middle of the pyramid in emerging economies was very poor and just able to purchase necessities. As their income has grown, they are not just replacing older, basic products with upgraded ones but rather buying new products and services that fulfill previously unmet needs. At the same time,

<sup>1</sup> See *The Economist* 2009 for an accessible overview of middle classes in emerging markets. For a discussion on how to identify middle classes, see Kharas 2011.

they are still demanding low prices because their residual income is nonetheless limited and they still have remnants of a frugal mentality from when they were poor. However, they have high aspiration needs in their consumption and are willing to splurge on some products.

This rise of the middle of the pyramid in emerging economies challenges our understanding of innovation. Most of the studies of innovation have focused on how innovations in advanced economies are created to serve the needs of sophisticated and wealthy customers there.<sup>2</sup> However, these studies have implicit assumptions that limit their applicability to the reality of the middle of the pyramid in emerging economies. First, these studies tend to presuppose that customers are highly sophisticated and discerning, and willing and able to pay premium pricing for advanced technologies and innovations that address their needs better than previous products did. The customers seek novelty and advanced features and are used to replacing products periodically. Second, the studies also take for granted that companies operate in advanced economies and can rely on sophisticated suppliers to obtain new technologies and collaborate with them in creating innovations. These firms benefit from a highly sophisticated innovation system that supports their ability to produce and use new technologies in creative ways.<sup>3</sup> When considering emerging markets, firms sell the innovations developed in advanced countries to the elites of emerging economies. These elites have the income to afford luxuries, as well as knowledge about these products, because they commonly take trips to advanced economies and shop there.

However, recently studies have started analyzing a different type of innovation: innovations to address the needs of the very poor

<sup>2</sup> For overviews of studies on innovation, see the chapters in the handbooks edited by Dodgson, Gann, & Phillips 2014, Fagerberd, Mowery, & Nelson 2005, Hall & Rosenberg 2010, and Stoneman 1995.

<sup>3</sup> For a review of national systems of innovation, see the entries in the book edited by Lundvall 2010 and the overview by Edquist 2005.

in emerging economies, which are called frugal innovations,<sup>4</sup> and how some of these innovations may eventually be sold in advanced economies, becoming what is termed as reverse innovations.<sup>5</sup> These innovations that serve the poorest consumers of emerging economies, which have been called the bottom or base of the income pyramid,<sup>6</sup> require a different approach. The poorest in emerging economies have extremely low levels of income. They tend to purchase simple, inexpensive products and services to cover basic needs, in many cases for the first time. Innovations created for these customers are sold primarily on the basis of a low price point at which poor customers can buy them. Companies can make money from serving the poor via the repeated sale of low-priced single-serve units; poor consumers in general cannot afford to buy large packages because they do not have sufficient cash to buy in bulk. Firms can also serve the poor profitably by redesigning packaging and the distribution system to reach these consumers in small neighborhood retailers that tend to keep a low inventory and require continuous replenishment.

The expectations regarding the products of middle-of-the-pyramid consumers differ from other groups. These new middle classes already had experience with basic products and services when they were poor and are now looking to replace those products with more sophisticated ones that match their higher levels of income and expectations. Thus, innovations for the base of the pyramid no longer meet their aspirational needs. At the same time, the middle of the pyramid in emerging markets still has relatively low levels of income and still purchase products based on price. Innovations designed with advanced economy consumers in mind are mostly out of their reach.

<sup>4</sup> There is a multiplicity of terms, as I discuss later, but for an overview of the topic see *The Economist* 2010 and Zeschky, Widenmayer, & Gassmann 2011.

<sup>5</sup> For a discussion of the process of creation of frugal innovation in emerging economies and transfer to advanced countries, see Immelt, Govindarajan, & Trimble 2009, Govindarajan & Trimble 2012, and Govindarajan & Ramamurti 2011.

<sup>6</sup> The concept of the base of the pyramid was popularized in the management field by C. K. Prahalad (Prahalad & Hammond 2002; Prahalad 2005).

As a result, these middle-of-the-pyramid customers require new ways of thinking about how to innovate to fulfill their needs and desires. The traditional approach of taking products created for middle classes in advanced economies, stripping them of extra features to lower production costs, and selling them in emerging economies at a low price no longer works. Thanks to their exposure to mass media and access to the Internet, the new middle classes in emerging economies know about the products that consumers in advanced economies are purchasing, and resent being sold second-level products that make them feel like not-good-enough consumers.<sup>7</sup> At the same time, the new middle classes are able and willing to pay more for products that are better than the traditional products they used to buy when they were poor to make them feel like they are progressing in life. Hence, managers need to rethink how they serve these new middle classes, developing products and services that are creative in the ways that fulfill the new needs of these middle classes but are also inexpensive enough that they can be enticed to purchase them.

These innovations are the topic that we analyze in this book: how companies create new products and services that serve the needs of the middle of the pyramid in emerging economies. The analyses reveal a large diversity of companies creating the innovations. Some firms have a long and distinguished history of addressing the needs of nascent middle classes in emerging economies. Others have only very recently focused on creating innovations for this market segment. The chapters also reflect the diversity of innovations created by the firms in solving government and market failures that are common in emerging economies. In some cases, the innovations were created because of government failures in the provision of public goods and services, such as quality and affordable education or health care.

<sup>7</sup> For example, consumers in Eastern Europe were furious about what they thought were lower quality versions of the same products being sold in their countries while better products were sold across the border in Western Europe (*The Economist* 2017).

Companies were able to find creative ways to address these challenges, both satisfying the needs of new customers and addressing the inability of the government to meet these needs. In other cases, there were significant market failures from inefficiencies in the allocation of goods and services that limited the customers' access despite their willingness to pay for them. Some companies developed resourceful ways of producing and delivering products to solve the consumption needs of the middle of pyramid while reducing market failures. In all cases, firms created new products and services to address the unmet needs of the middle of the pyramid in emerging economies in ways that had not been done before.

#### THE MIDDLE OF THE PYRAMID IN EMERGING ECONOMIES

A traditional view of consumer markets in emerging economies is that they are composed of two main segments: one that is wealthy and cosmopolitan and has the income to purchase luxury imported products, and another that is poor and local and barely covers its needs with domestic products. This was neatly summarized by the Brazilian economist Edmar Bacha in 1974, with the metaphor of Brazil being "Belindia," i.e., a wealthy Belgium-like economic core within a larger India-like poor periphery.<sup>8</sup>

As a result, the interest of many foreign multinationals was to sell to the elite consumers who had the money and were willing to pay for imported products, even if in many cases products were more expensive than in advanced countries because of tariffs. Some foreign multinationals produced locally to get around tariffs and transportation costs, selling their products as aspiration ones at a high price point. Domestic companies were left to create products for the rest of the market and sell them at a lower price. In many cases, these were products of inferior quality that could only be sold locally.

<sup>8</sup> This two-way grouping seems to still apply to the companies, with a few world-class, highly efficient, and technologically advanced multinationals and many domestic and inefficient domestic firms, according to *The Economist* 2015.

In the early 2000s, the concept of the fortune at the bottom of the pyramid changed this view by pointing out that the poor in emerging economies could be a profitable market for multinationals from advanced countries, if only these firms redesigned the products to sell them at the low price points at which these poor consumers could buy them.<sup>9</sup> The challenge was not that the poor were not consumers. On the contrary, they are heavy consumers in the sense that much of their income is spent on daily consumption products such as food and beverages. Moreover, because of inefficiencies in distribution and access, and their inability to buy in bulk, they tend to pay more than wealthy consumers for the same products. For example, in a comparison of prices in a slum and a middle-class neighborhood in Mumbai, poor consumers were shown to be paying several times more than middle-class consumers. The price multiples ranged from ten times more for diarrhea medication to thirty-seven times more for municipal-grade water to fifty-three times more for credit.<sup>10</sup>

The concept of the bottom of the pyramid became very appealing to managers and consultants, and companies rushed to create new products and services that would serve the needs of poor consumers in emerging markets. Among them, microcredit became one of the main new products that targeted these consumers.<sup>11</sup> New financial institutions, many of them nonprofit organizations, loaned very small sums of money to groups of individuals who would use the funds to create new entrepreneurial ventures and then repay the money loaned. Consumer product firms redesigned their offering for this market segment, for example, by selling shampoo in single-use

<sup>9</sup> This is discussed in more detail in Prahalad & Hart 2002, Hammond et al. 2007, and Prahalad 2005. The latter presents many examples of the products and services that multinationals from advanced economies, and some domestic firms, have created to serve the needs of the poor in emerging economies.

<sup>10</sup> See Prahalad & Hammond 2002 for more detail.

<sup>11</sup> See Yunus 2007 for a history of how the Grameen Bank started the microlending segment.

sachets instead of the traditional bottle or selling simple-to-use water filtration systems.<sup>12</sup>

However, in the 2000s, the middle-of-the-pyramid market in emerging economies started to become noticed. It was both very large and different from other segments.<sup>13</sup> The transformation of emerging economies with the implementation of pro-market reforms in the 1980s and 1990s led to the renovation of income segments in emerging countries in the 1990s and 2000s. To the traditional two segments of very wealthy consumers and very poor consumers, a new segment was added: the middle of the pyramid.

This new middle of the pyramid is rapidly becoming the largest segment of the population in many emerging economies. Thus, the old view of emerging economies as consisting of a pyramid with a large base of poor people, those with less than USD 1500 a year; a small middle-income segment, those with between USD 1500 and USD 20000 a year; and a tiny elite, those with more than USD 20000, has changed.<sup>14</sup> In many countries, the shape of the pyramid is no longer a pyramid but has become more of a rhomboid, with a small segment of poor people, a very large middle-income segment, and a small segment of high-income individuals. In advanced economies, in contrast, there is an inverted pyramid, with a tiny segment of very poor individuals, a smallish middle-income sector, and a large segment of high-income people. Figure 1.1 illustrates the different shapes of the income pyramid in emerging economies in four geographic regions: Africa, America, Asia, and Europe.

The new middle classes in emerging markets are different. They were poor until very recently and had a very limited ability to consume. With their rise in income, they are able to consume more and consume new categories of products and services. They also change their attitude toward consumption and savings; instead of living

<sup>12</sup> See some examples in Hammond et al. 2007.

<sup>13</sup> See the special report in *The Economist* 2010.

<sup>14</sup> These were 2000 prices, discussed in Prahalad & Hammond 2002 and Prahalad 2005.

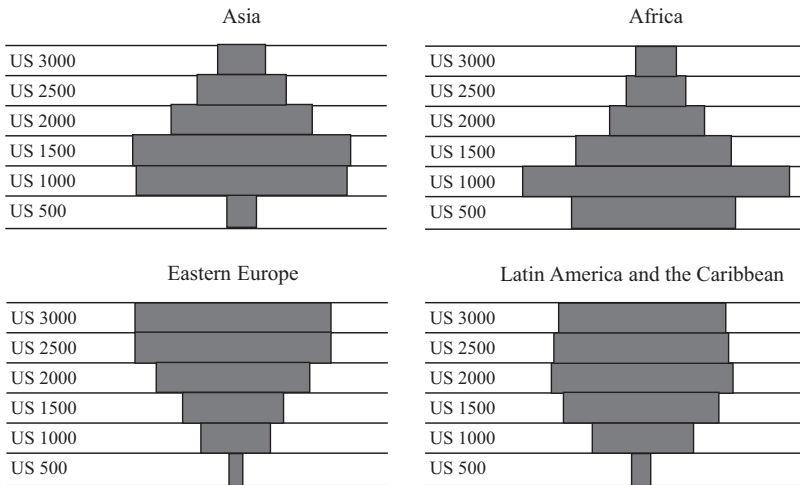


FIGURE 1.1 Market size in the base on the pyramid by income segments.  
Source: Created using information from Hammond et al. (2007)

paycheck to paycheck, they start saving and investing some of their income to ensure a better future. They are also able to think about the products they consume and begin considering them not only by the needs covered but also by the status provided. They are, in many cases, purchasing their first durable, sophisticated products, such as appliances, computers, motorcycles, and even cars.

Identifying the middle of the pyramid in emerging economies is difficult, unfortunately, because there is no fixed definition of what middle class is. The middle class seems to be more an attitude toward consumption and savings than a level of income. The attributes that are commonly associated with middle classes are people who do not have all their material needs fully covered (as the rich do), but who are able and willing to postpone consumption to improve their lives (unlike the poor who do not have enough income to save). Thus, middle classes have a level of discretionary income available (usually about a third of their income, after paying for housing and food) that enables them to buy consumer durables such as refrigerators and cars as well as services such as health care and education.



Nevertheless, most analyses of middle classes rely on income to identify them because it is easier to measure. In this regard, there are two distinct approaches to identifying middle classes: one relative and another absolute. The relative approach considers middle classes to be those that have incomes in a bracket; for example, those in the 20% to 80% range of income.<sup>15</sup> This measurement of middle classes takes into account the differences across nations in the distribution of income. At the same time, it limits comparisons because income levels vary from one country to another. Thus, a person considered middle class in an emerging economy by income would likely be considered poor in an advanced country.

The alternative is to use an absolute approach and consider middle classes to be those segments of the population that have a daily income above the poverty level but below what can be considered wealthy. The challenge with this definition is deciding which are the appropriate cutoff points. Depending on the level that one chooses, the differences are stark.<sup>16</sup>

First, we have a distinction between emerging market middle classes and global middle classes. Emerging market middle classes are people who are no longer poor in emerging markets but are still not able to afford global products and brands, while the global middle classes of emerging markets can. This classification is usually based on the level of income, with the middle classes in emerging

<sup>15</sup> This is the approach taken by, for example, Easterly (2000). There are alternative levels such as between 0.75 and 1.25 times the median of income per capita, as done by Birdsall, Graham, & Pettinato (2000).

<sup>16</sup> There is a wide disparity in preferred levels across authors. For example, Banerjee & Duflo (2007) identify middle classes as those with daily incomes of USD 2 to USD 4, as well as those with daily per capita expenditures between USD 6 and USD 10. Ravallion (2009) identifies two middle classes: an emerging market middle class as those with incomes between the median poverty line of developing countries and the poverty line of the USA (USD 2 to USD 13 daily in 2005 PPP), and a global middle class as those with incomes above the US poverty level. Milanovic & Yitzaki (2002) measure (global) middle classes as those with incomes between the average income in Brazil and Italy, or about USD 12 and USD 50 in 2000 PPP.

economies defined as those with incomes between USD 2<sup>17</sup> and USD 10 in power purchasing parity (PPP) per day, and the global middle classes identified as those with incomes between USD 10 and USD 50 PPP per day.

Second, an alternative is to be more fine-grained in the analysis, considering the dynamics of income and how individuals move from one level to another.<sup>18</sup> With this approach, we can identify three levels of income, using the cutoff points of USD 4 and USD 50 as the levels at which we have a transition from lower to middle to upper class. Thus, we can consider the lower class to be those who have incomes below USD 4 PPP per day, which is about USD 6000 per year for a family of four. Within this segment we have two sub-segments: abject poverty, or individuals with an income below USD 2 PPP per day; and plain poor, or those individuals with an income between USD 2 and USD 4 PPP per day. This is roughly equivalent to incomes of about USD 3000 to USD 6000 per year for a family of four. The middle class is those individuals who have incomes between USD 4 and USD 50 PPP per day. Within this segment, we have two sub-segments: the vulnerable middle class, or individuals with an income between USD 4 and USD 10 PPP per day; and the solid middle class, or individuals with an income of USD 10 to USD 50 PPP per day. The term vulnerable middle class acknowledges that these people are no longer considered poor but are still at risk of falling back into poverty. These segments correspond roughly to a family of four with an annual income of USD 6000 to USD 15000 for the vulnerable middle class, and USD 15000 to USD 73000 for the solid middle class. The upper

<sup>17</sup> The World Bank used the level of US\$1, later revised to USD 1.25 and since 2016 to USD 1.9, as the level of income below which individuals are considered poor (Ferreira, Jolliffe & Prydz 2015). In its classification of countries, it uses the level of 2018 per capita income of USD 1025 (roughly USD 2.8 a day) or less to classify countries as low-income; USD 1026 to USD 3995 (USD 2.8 to USD 11 a day) as lower middle-income; USD 3996 to USD 12375 (USD 11 to USD 347 a day) as upper middle-income; and above USD 12376 (US 34 a day) as high-income (World Bank 2020).

<sup>18</sup> This follows the approach of Lopez-Calva & Ortiz-Juarez (2011), who identify middle class as those who are less vulnerable to falling back into poverty, using income surveys from Chile, Mexico, and Peru.

class is comprised of those individuals with incomes above USD 50 PPP per day.

Table 1.1 illustrates the use of this classification in the largest twenty countries in the world by population. The countries are grouped into three types based on the shape of the distribution of income: pyramid, rhomboid, and inverted pyramid. Pyramid countries are those with a very large proportion of the population with very low income. These are countries in Asia and Africa, which conjure the typical image of emerging countries with very large segments of poor people. Rhomboid countries are nations in which the segment of poor is still significant, but most of the population falls into the middle classes. These are countries in Latin America, Eastern Europe, the Middle East, and parts of Asia, which until recently were pyramid countries, and whose new middle classes offer a largely untapped market opportunity. Inverted pyramid countries are those in which there is an insignificant proportion of the population that can be considered very poor and a large segment of the population with a high income. These are advanced countries in Europe, America, Asia, and Oceania. Within each group of countries, there are significant variations in the distribution of income. For example, within the inverted pyramid group, Japan has 29.6% of the population earning more than USD 50 PPP a day, while the United States has 52.8%.

The relevant characteristics for companies are not only the sizes of these growing middle classes in emerging economies but also their differing patterns of behavior. They are no longer considered poor, and they do not consider themselves poor. Their consumption has shifted significantly. They not only have more income but use some of this income for products and services that were out of their reach before, such as leisure and some conspicuous consumption. They replace household goods with new ones that incorporate the latest technologies and can impress neighbors. They start to save for the future and buy goods on credit because they have relatively steady incomes that, even if low, are somewhat predictable. They exert pressure on companies to create new and better products that meet their needs, as

Table 1.1 *Income distribution in the largest twenty countries by population*

Income distribution	Country	Percentage of population living on				
		less than USD 2/day PPP	USD 2–4/ day PPP	USD 4–10/ day PPP	USD 10–50/ day PPP	more than USD 50/day PPP
Pyramid	Bangladesh	17.8	50.7	28.4	3.1	0.0
	Congo, Democratic Republic	78.5	16.3	4.8	0.4	0.0
	Egypt, Arab Republic of	4.2	41.1	47.9	6.7	0.1
	Ethiopia	34.2	46.9	16.6	2.2	0.0
	India	24.5	49.3	22.9	3.2	0.1
Indonesia	5.7	31.8	47.2	15.2	0.2	
	Nigeria	56.5	28.6	13.1	1.8	0.0
	Pakistan	5.4	47.7	40.8	5.9	0.2
	Philippines	9.4	36.2	41.0	13.2	0.2
Rhomboid	Brazil	4.8	7.7	28.3	51.3	8.0
	China	0.7	10.5	45.8	42.1	0.9
	Iran, Islamic Republic	0.3	4.2	31.9	59.8	3.8
Mexico	2.0	9.4	44.5	41.8	2.4	
	Russian Federation	0.0	0.6	17.6	75.7	6.1
	Thailand	0.0	1.9	37.8	58.2	2.1
	Turkey	0.2	3.0	27.7	63.6	5.6
	Vietnam	2.2	10.1	49.0	38.2	0.5
Inverted pyramid	Germany	0.0	0.2	1.0	54.0	44.8
	Japan	0.7	0.2	1.7	67.8	29.6
	United States	1.3	0.3	2.0	43.8	52.8

Source: Computed using estimates from PovcalNet (2020)

they can try alternative suppliers and compare their offerings. They become more demanding from the government. They are beginning to pay income tax, and this shifts their mindset in requiring better services out of the government in exchange for these taxes.

#### INNOVATING FOR THE MIDDLE OF THE PYRAMID IN EMERGING MARKETS

Innovating for the middle of the pyramid in emerging economies requires a different approach than the one used for innovations for the top and bottom of the pyramid. The latter two types, which have been called lavish and frugal, respectively, have relatively well-identified characteristics. Innovations for the middle of the pyramid seem to combine aspects of both but are sufficiently different from either type. Table 1.2 summarizes their differences.

Table 1.2 *Lavish and frugal innovation*

	Innovations for the top of the pyramid: Lavish innovation	Innovations for the middle of the pyramid	Innovations for the bottom of the pyramid: Frugal Innovation
<b>Context</b>	Advanced country	Emerging country	Emerging country
<b>Target income level</b>	High income	Middle income	Low income
<b>Initial user</b>	Lead user	Laggard user	Laggard user
<b>Need</b>	Unmet dispensable needs	Unmet status needs	Unmet life needs
<b>Logic</b>	Satisfy	Upgrade	Solve
<b>Solution of</b>	Novelty	Desire	Limitation
<b>Key driver</b>	Functions/features	Status	Cost
<b>Lifetime</b>	Short term	Medium term	Long term

*Source:* Adapted and extended from Asakawa, Cuervo-Cazurra, & Un (2015)

Innovations for the top of the pyramid, i.e., lavish innovations, are the traditional innovations that individuals in advanced economies are accustomed to experiencing. Companies aim to find new solutions for new needs and use the latest technologies in creative ways to generate products and services with many additional new features. The targeted consumers are high-income individuals who are open to and even desire new technologies, i.e., lead users of new technologies. Consumers prefer novelty and appreciate additional features they did not encounter in previous versions of the product. The lifetime of the product tends to be relatively short, i.e., products have planned obsolescence, as high-income consumers tend to replace the products with new products that have additional features even if the products are still fully functional. These innovations are sold later as aspirational products to consumers with mid-level incomes. As the products become commoditized, new versions appear, and prices drop.

In contrast, frugal innovations<sup>19</sup> are created for very poor consumers in emerging economies. They are designed to meet needs that

<sup>19</sup> Frugal innovation is known by a multitude of different and related terms: “innovation for the bottom of the pyramid,” or innovation “focused on the unique requirements of the poor” (Prahalad & Hart 2002: 12); “catalytic innovation” or the ability of a firm to challenge industry incumbents by offering simpler, good-enough alternatives to an underserved group of customers (Christensen et al., 2006); frugal innovation, or innovations that “reduce costs to reach more customers, resulting in thin profit margins to gain volume” (*The Economist* 2010) or “good-enough, affordable products that meet the needs of resource-constrained consumers” (Zeschky, Widenmayer, & Gassmann 2011); “Ghandian innovation,” or innovation focused on “affordability and sustainability, not premium pricing and abundance” (Prahalad & Mashelkar 2010: 134); “resource-constrained innovation,” or innovations that are affordable and locally sustainable products (Ray & Ray 2010); “Indovation” (Lamont 2010) and “*jugaad* innovation” (Radjou, Prabhu, & Ahuja 2012) or innovations created using *jugaad*, the ability to solve constraints by creatively improvising solutions, to solve the needs of poor people; “inclusive innovation” or the “development and implementation of new ideas which aspire to create opportunities that enhance social and economic wellbeing for disenfranchised members of society” (George, McGahan, & Prabuh 2012). Finally, a related but different term is “reverse innovation,” or innovations that “lower costs, increase access, and improve quality . . . were developed for markets in emerging economies . . . and are now being sold in the United States” (Immelt, Govindarajan, & Trimble 2009); reverse innovations are a subset of

poor consumers, because of the very low levels of income, have not been able to fulfill yet. The focus of innovation is to find ways to reduce the costs of production and distribution to the point that poor people can afford the products. The technologies do not have to be the latest, as poor consumers tend to be laggards in the use of new technologies and are more focused on finding solutions to their essential needs. Frugal innovations tend to have limited features, as their main selling point is their low price. They are used over the long term, because poor consumers tend to use and reuse them repeatedly, and only replace the products when they can no longer be repaired.

In between these two types of innovation, we have innovations for the middle of the pyramid in emerging markets. These innovations are neither lavish innovations that are stripped of their additional features to reduce their price nor frugal innovations to which additional features are added to fulfill more sophisticated needs. They are designed for the new middle classes who, with their aspirational needs, are upgrading and replacing products. The innovations need to help them show their newly found status and be sufficiently durable, but they are likely to be replaced periodically.

Adapting lavish and frugal innovations and marketing them as innovations for the middle of the pyramid is unlikely to work well and may result in consumer backlash. Lavish innovations that are stripped of features might result in middle-income consumers creating a negative perception of the products and the company. They realize they are paying a premium for products they consider superior but are getting second-level products. Frugal innovations that have additional features might, be sold at the price point that middle-of-the-pyramid consumers can afford.<sup>20</sup> However, they may not fulfill their aspirational desires.

frugality-based innovations, those that are eventually transferred from emerging to advanced economies.

<sup>20</sup> Analyses of frugal innovations have been usually based on the experiences of firms in India and in some cases China, and reflected in books discussing innovation for the bottom of the pyramid (Prahalad 2005), frugal innovation (Leadbeater 2014; Radjou & Prabhu 2014), jugaad innovation (Radjou, Prabhu, & Ahuja 2012), or reverse innovation (Govindarajan & Trimble 2012), among others. However, the experiences of

## CONTENT OF THE BOOK

Hence, in this book, we explain how firms have created these innovations for the middle of the pyramid. To do so, we focus on companies in Latin American countries. The historical, cultural, economic, and political similarities among these countries enable a better comparison of how innovations are developed to address the needs of the middle of the pyramid, and how some of these innovations can be transferred across countries. Local experts wrote each of the chapters, using their deep contextual knowledge to explain how the characteristics of the middle of the pyramid and the conditions of operation in the country led to the development of particular innovations. The project benefited from a grant by the Mexican nongovernmental organization Promotora Social Mexico, which provided complete freedom of operation.

The book is organized into twelve chapters organized by the issues that the innovations solve. They illustrate the range of innovations that companies have created to satisfy the particular needs of middle-income consumers in emerging economies.

Chapter 2 presents a more detailed overview of the middle of the pyramid in emerging countries. It summarizes the debate on how to identify these consumers around the world and the growing importance of this segment for companies. It then discusses variations within and between countries in terms of the distribution of income. Its analysis then moves to an overview of Latin America and the characteristics of its consumers, and how these consumers differ from those in other countries that have been traditionally analyzed in the literature on innovations for the base of the pyramid, namely India and China.<sup>21</sup>

firms in India and China may not translate well to other emerging countries that enjoy higher levels of income and have fewer people in extreme poverty. The base of the pyramid does not seem to be as relevant in Latin America and Eastern Europe, which although emerging have higher levels of average income.

<sup>21</sup> For an overview of the similarities across Latin American countries and the transformation of domestic firms into successful multinationals, see Aguilera et al. 2017 and Cuervo-Cazurra 2007, 2008.



The core of the book is a series of comparative analyses of solutions that address the needs of middle-income consumers in emerging countries. The chapters follow a common structure to facilitate comparisons across solutions and the drawing of conclusions. Each chapter provides an overview of the challenge addressed, how the challenge can become an opportunity for firms, and how some companies have generated the innovations to take advantage of it.

The book is organized around the needs of middle-of-the-pyramid consumers in emerging markets and the solutions found for such needs: lower health care provision (Chapter 3); lower quality education (Chapter 4); poorer housing (Chapter 5); lower access to durable goods (Chapter 6); reduced consumption (Chapter 7); fewer entertainment options (Chapter 8); less developed access to credit (Chapter 9); poorer risk coverage (Chapter 10); and weaker distribution (Chapter 11). Although the innovations discussed in each chapter are market solutions with potential profit generation, they nevertheless have a social impact. These market solutions to social problems neither involve charity on the part of the company nor government subsidies of public goods or investments in redistribution and social development.

Chapter 12 presents the conclusions and lays out a comparison of the insights gained from the study of a variety of innovations. It reflects on the process for identifying the needs, the process for creating the innovations and implementing them in the marketplace, the impact on the lives of middle income consumers, and the expansion of innovation across markets (trickle up innovations to consumers with higher levels of income, or trickle down innovations to the base of the pyramid). It ends with a discussion of the lessons for managers, consultants, and academics.

The answers to these questions provide valuable and novel insights to managers of emerging economies who want to sell to the growing middle classes, who until recently were commonly being served in the informal economy. They also provide useful ideas to managers of multinationals from advanced countries who may find

that the expanding middle classes in emerging economies are a profitable market segment to serve.

## REFERENCES

- Aguilera, R., Ciravegna, L., Cuervo-Cazurra, A., & Gonzalez-Perez, M. A. 2017. Multilatinas and the Internationalization of Latin American firms. *Journal of World Business* 52(4): 447–460.
- Asakawa, K., Cuervo-Cazurra, A., & Un, C. A. 2015. Frugality-Based Advantage. Paper presented at the Academy of Management Annual Meeting.
- Banerjee, A. & Duflo, E. 2007. What Is Middle Class about the Middle Classes around the World? MIT Department of Economics Working Paper 07-29, Cambridge, MA.
- Birdsall, N., Graham, C., & Pettinato, S. 2000. Stuck in the Tunnel: Is Globalization Muddling the Middle? Working Paper 14, Brookings Institution, Washington, DC.
- Christensen, C. M., Baumann, H., Ruggles, R., & Sadtler, T. M. 2006. Disruptive Innovation for Social Change. *Harvard Business Review* 84(12): 94–101.
- Christensen, C. M., Hang, C.-C., Chai, K.-H., & Subramanian, A. M. 2010. Editorial: Managing Innovation in Emerging Economies: An Introduction to the Special Issue. *IEEE Transactions on Engineering Management* 57: 4–8.
- Cuervo-Cazurra, A. 2007. Sequence of Value-Added Activities in the Internationalization of Developing Country MNEs. *Journal of International Management* 13(3): 258–277.
- Cuervo-Cazurra, A. 2008. The Multinationalization of Developing Country MNEs: The Case of Multilatinas. *Journal of International Management* 14(2): 138–154.
- Cuervo-Cazurra, A. 2011. How Context Matters: Non-Market Advantages of Developing-Country MNEs. *Journal of Management Studies* 48(2): 441–445.
- Cuervo-Cazurra, A. 2012. How the Analysis of Developing Country Multinational Companies Helps Advance Theory: Solving the Goldilocks Debate. *Global Strategy Journal* 2: 153–167.
- Cuervo-Cazurra, A. & Montoya, M. 2014. Building Chinese Cars in Mexico: The Grupo Salinas–FAW Alliance. *Innovar* 24(54): 219–230.
- Cuervo-Cazurra, A. & Ramamurti, R. 2014. *Understanding Multinationals from Emerging Markets*. Cambridge: Cambridge University Press.
- Cuervo-Cazurra, A., Newburry, W., & Park, S. 2016. *Emerging Market Multinationals: Solving Operational Challenges in Internationalization*. Cambridge: Cambridge University Press.

- Dodgson, M., Gann, D. M., & Phillips, N. 2014. *The Oxford Handbook of Innovation Management*. New York: Oxford University Press.
- Easterly, W. 2000. The Middle Class Consensus and Economic Development. Policy Research Working Paper 2346, World Bank: Washington, DC.
- Edquist, C. 2005. Systems of Innovation: Perspectives and Challenges. In J. Fagerberg, D. C. Mowery, & R. R. Nelson (eds.), *Oxford Handbook of Innovation*: 181–208. New York: Oxford University Press.
- Fagerberg, J., Mowery, D. C., & Nelson, R. R. (eds.). 2005. *The Oxford Handbook of Innovation*. New York: Oxford University Press.
- Ferreira, F., Jolliffe, D. M., & Prydz, E. B. 2015. The International Poverty Line Has Just Been Raised to \$1.90 a Day, But Global Poverty Is Basically Unchanged. How Is That Even Possible? World Bank Blogs. Accessed May 17, 2020. <https://blogs.worldbank.org/developmenttalk/international-poverty-line-has-just-been-raised-190-day-global-poverty-basically-unchanged-how-even>
- George, G., McGahan, A. M., & Prabhu, J. 2012. Innovation for Inclusive Growth: Towards a Theoretical Framework and a Research Agenda. *Journal of Management Studies* 49(4): 661–683.
- Govindarajan, V. & Ramamurti, R. 2011. Reverse Innovation, Emerging Markets and Global Strategy. *Global Strategy Journal* 1: 191–205.
- Govindarajan, V. & Trimble, C. 2012. *Reverse Innovation: Create Far from Home. Win Everywhere*. Boston: Harvard Business Review Press.
- Hall, B. H. & Rosenberg, N. 2010. *Handbook of the Economics of Innovation*. Volume 1 and 2. Amsterdam: North Holland.
- Hammond, A. L., Krammer, W. L., Katz, R. S., Tran, J. T., & Walker, C. 2007. *The Next 4 Billion*. Washington, DC: International Finance Corporation.
- Immelt, J. R., Govindarajan, V., & Trimble, C. 2009. How GE Is Disrupting Itself. *Harvard Business Review* 87(10): 56–65.
- Karnani, A. 2007. The Mirage of Marketing to the Bottom of the Pyramid: How the Private Sector Can Help Alleviate Poverty. *California Management Review* 49(4): 90–111.
- Kharas, H. 2011. The Emerging Middle Class in Developing Countries. OECD Development Center, Working Paper no. 285. OECD: Paris. Accessed May 17, 2020. [www.oecd.org/dev/44457738.pdf](http://www.oecd.org/dev/44457738.pdf)
- Lamont, J. 2010. The Age of “Indovation” Dawns. *Financial Times*, June 14, 2010. Accessed September 13, 2011. [www.ft.com/cms/s/0/6762f77a-77de-11df-82c3-00144feabdc0.html#axzz1dFlmeTIW](http://www.ft.com/cms/s/0/6762f77a-77de-11df-82c3-00144feabdc0.html#axzz1dFlmeTIW)
- Leadbeater, C. 2014. *The Frugal Innovator: Creating Change on a Shoestring Budget*. New York: Palgrave MacMillan.

- Lopez-Calva, L. F. & Ortiz-Juarez, E. 2011. A Vulnerability Approach to the Definition of the Middle Class. World Bank Policy Research Working Paper 5902. Accessed May 17, 2020. <https://core.ac.uk/download/pdf/6258575.pdf>
- Lundvall, B.-A. (ed.). 2010. *National Systems of Innovation: Towards a Theory of Innovation and Interactive Learning*. London: Anthem Press.
- Milanovic, B. & Yitzhaki, S. 2001. Decomposing World Income Distribution: Does the World Have a Middle Class? World Bank: Washington, DC.
- PovcalNet. 2020. PovcalNet: The on-line tool for poverty measurement developed by the Development Research Group of the World Bank. Accessed May 17, 2020. <http://iresearch.worldbank.org/PovcalNet/povOnDemand.aspx>.
- Prahalad, C. K. 2005. *The Fortune at the Bottom of the Pyramid: Eradicating Poverty through Profits*. Philadelphia: Wharton Business School Press.
- Prahalad, C. K. & Hammond, A. 2002. Serving the World's Poor, Profitably. *Harvard Business Review* 80(9): 48–57.
- Prahalad, C. K. & Hart, S. L. 2002. The Fortune at the Bottom of the Pyramid. *Strategy + Business* 26: 1–14.
- Prahalad, C. K. & Mashelkar, R. A. 2010. Innovation's Holy Grail. *Harvard Business Review* 88(7/8): 132–141.
- Radjou, N. & Prabhu, J. 2014. *Frugal Innovation: How to Do More with Less*. London: Profile Books.
- Radjou, N., Prabhu, J., & Ahuja, S. 2012. *Jugaad Innovation: Think Frugal, Be Flexible, Generate Breakthrough Growth*. San Francisco: Jossey-Bass.
- Ravallion, M. 2009. The Developing World's Bulging (But Vulnerable) "Middle Class." World Bank: Washington, DC.
- Ray, P. K. & Ray, S. 2010. Resource-Constrained Innovation for Emerging Economies: The Case of the Indian Telecommunications Industry. *IEEE Transactions on Engineering Management* 57: 144–156.
- Stoneman, P. (ed.). 1995. *Handbook of the Economics of Innovation and Technological Change*. Cambridge, MA: Blackwell.
- The Economist*. 2009. Special Report: The New Middle Classes in Emerging Markets. *The Economist*, February 12. Accessed September 13, 2015. [www.economist.com/node/13063298](http://www.economist.com/node/13063298)
- The Economist*. 2010. Easier Said than Done. Emerging-Market Consumers Are Hard to Reach. *The Economist*, April 15. Accessed September 13, 2011. [www.economist.com/node/15879299](http://www.economist.com/node/15879299)
- The Economist*. 2015. Brazil's Business Belindia. *The Economist*, February 26. Accessed September 13, 2017. [www.economist.com/news/business/21645214-why-country-produces-fewer-world-class-companies-it-should-brazils-business-belindia](http://www.economist.com/news/business/21645214-why-country-produces-fewer-world-class-companies-it-should-brazils-business-belindia)

- The Economist*. 2017. Eastern Europeans Think Western Food Brands Are Selling Them Dross. *The Economist*, June 29. Accessed May 17, 2020. [www.economist.com/news/europe/21724408-dual-foods-furore-hints-eastern-mistrust-west-eastern-europeans-think-western-food](http://www.economist.com/news/europe/21724408-dual-foods-furore-hints-eastern-mistrust-west-eastern-europeans-think-western-food)
- WDI. 2015. World Development Indicators. Poverty. Accessed May 10, 2015. <http://data.worldbank.org/topic/poverty>
- World Bank. 2007. *Global Economic Prospects 2007: Managing the Next Wave of Globalization*. World Bank: Washington, DC.
- World Bank. 2020. World Bank Country and Lending Groups. Accessed May 17, 2020. <https://datahelpdesk.worldbank.org/knowledgebase/articles/906519-world-bank-country-and-lending-groups>
- Yunus, M. 2007. *Banker to the Poor: Microlending and the Battle against World Poverty*. New York: Public Affairs.
- Zeschky, M. B., Winterhalter, S., & Gassmann, O. 2011. Frugal Innovation in Emerging Markets: The Case of Mettler Toledo. *Research Technology Management* 54: 38–45.