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# Why include the BOP in your international marketing strategy

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#### Abstract

**Purpose** – The purpose of this paper is to test the premise that brand growth can come from targeting the poorest consumers at the bottom of the economic pyramid (BOP). This study is the first that uses quantitative marketplace data covering BOP consumer purchase records.

**Design/methodology/approach** — The study uses newly available panel data from Egypt covering 15 months and 35 categories of frequently bought consumer goods. Brand penetration rates for socio-demographic tiers are established to explore brand purchasing. The metrics are: penetration, the number of buyers a brand has; and loyalty as measured by purchase frequency and share of category requirements.

**Findings** – Buyer behaviour patterns for the poorest consumers do not differ much from those in advanced economies; all brand performance metrics vary according to brand penetration – a double jeopardy effect, and the biggest brands are those that target the whole market, including the base.

**Research limitations/implications** – Data are from one country only and while the results confirm that patterns of brand buying in this BOP segment are like those in other markets, more research needs to be done to confirm the finding.

**Practical implications** – The biggest brands are those with the most customers, even if those customers are poor and do not buy very often. Growth can therefore be based on marketing interventions that appeal to the largest possible customer base.

**Social implications** – There are 2bn BOP consumers worldwide. This research shows that they may already be marginal members of modern economies and consumer culture.

**Originality/value** – This paper extends previous research on brand buying behaviour for the first time to the vast base of poor consumers who make up around half of the world's population. This research shows that strategic approaches that emphasise increasing penetration are most likely to result in brand growth.

**Keywords** Marketing strategy, Consumer behaviour, Base of the pyramid, Stochastic modelling

Paper type Research paper

The Ehegwo family lives in Oguta in Nigeria. Jude is 40 years old and is a farmer. His wife Njideka is 25 years old and she is also a farmer. They are parents to 7 children and live with them in a rented 2-bedroom house. Their favorite item in the house is their clothes. The next thing they plan on buying is a mattress and their dream is to buy a house made of block walls.

In this household each adult can consume goods and services worth about 59 US dollars each month. This consumption includes the things they buy as well as the things they produce for themselves (if any). We estimated this amount based on the assets the family owned and the incomes they reported. (Gapminder.org, 2019)

The Ehegwo's are a typical example of a bottom of the pyramid (BOP) household (see Plate 1). They were visited along with 253 other families at various income levels around the world as part of a project that aims to show "how people really live" through a standardised set of photos of living and sleeping areas, cooking facilities (Plate 2), bathrooms and household goods (Gapminder.org, 2019). Only a small portion of featured households are amongst the very poorest, but they can be seen as representative of over 2bn people who live on less than \$2.50 per day (most recent UN Report, 2014) mostly in developing or emerging economies.



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Plate 1. The Ehegwo family has an income of about \$59 per month

Source: Eriksson (n.d.a)



Plate 2. The Ehegwo's kitchen

Source: Eriksson (n.d.b)

The photos show that while these BOP households possess very little, they do have some of the things that the more affluent have in abundance – typically consumables such as toothpaste, detergent and packaged food, but also mobile phones and sometimes TVs (Plate 3). It is also noticeable that with even small increments in income between households, the number of branded items increases markedly.



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Plate 3. Branded consumer goods, toothpaste



Source: Eriksson (n.d.c)

Surviving on \$2.50 a day is difficult or impossible for most people to imagine. So is being part of the informal economy where income is irregular and rarely means cash at the end of the day. At this level, most income is spent on basics, especially food (World Resources Institute, 2018), leaving families in suspense about funds for emergencies, or big-ticket items like a refrigerator or education for the children. So how do the very poorest people get the money to buy the things that appear in their homes?

Part of the answer is that even the poorest do not consume all their income as soon as it is earned, but instead save when they can and borrow when they need to. With so little income, "money management is, for the poor, a fundamental and well-understood part of every day life" (Collins *et al.*, 2011). This is not to cast value judgements on what poor people buy, or what they aspire to buy, it is merely evidence that they do. When circumstances allow, they increase both the quantity and quality of what they consume.

The future market potential of these consumers really caught the imagination of international firms when C.K. Prahalad (2005) published *The Fortune at the Bottom of the Pyramid*. Prahalad used case examples to make a compelling, if perhaps idealised argument for seeing, developing and enrolling the world's poorest people as participants in the modern economy, saying that while this is profoundly challenging, the effort could be amply repaid in the future.

This idea was rapidly challenged by many authors under titles such as "Misfortune at the bottom of the pyramid" (Karnani, 2007) and "Reality check at the bottom of the pyramid" (Simanis, 2012), focusing on the difficulties inherent in tackling the BOP, criticising Prahalad's case studies and offering counter examples of frustrated companies that failed to find a fortune there, emphasising the difficulties of operating in the poorest, least-developed markets, concluding that they are different enough to require a fundamental rethinking of established marketing assumptions (Sheth, 2011).

# 1. The case for empirical evidence of BOP buying behaviour

Kolk *et al.*'s (2014) systematic review of the BOP literature included 104 articles from 2000 to 2009, concluding that while the BOP concept had evolved over time, there is still little consensus on its definition. They called for more and different types of studies beyond the conceptual or case-study analyses (only four articles in their review used quantitative data, none dealing with consumer goods (CPGs)) and to broaden the setting beyond the Asian/SE Asian context where the majority of studies were conducted.

The theoretical contribution to the BOP debate made by the current research comes not from individual case studies, but from applying a highly generalised stochastic model to evaluate newly available panel data records of BOP buyer behaviour. The study examines



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brand choice behaviour in 35 CPG categories over 15 months. In doing so, it begins to fill the gap between theory and practice, focussing on the empirical evidence. The approach takes as its starting point the idea that at their core all markets are composed of suppliers, customers and the purchases they make, therefore the aggregate outcomes of what is bought, who is buying and how often they buy, even in an unfamiliar BOP market context can be better understood by benchmarking against the law-like patterns of consumer brand choice found in other markets. The research demonstrates that existing models and knowledge can be extended, and that no new model of marketing may be required in markets with large numbers of BOP households.

The findings reveal that the main patterns of brand choice behaviour in the BOP segment do not vary greatly from higher income segments, nor are they very different to those found in advanced economies. Competitive market structures reflect and can be explained by the behavioural norms established by Ehrenberg (1988) and extended by Sharp *et al.* (2017). In the BOP as elsewhere, the common behavioural brand loyalty metrics (average purchase frequency, share of category requirements, buying heterogeneity) are closely correlated with each other, vary according to and are predictable from brand size, and reflect a double jeopardy (DJ) characteristic (Ehrenberg *et al.*, 2004). The theoretical assumptions underpinning the DJ Law therefore reveal important similarities in buying behaviour between and across market segments where buyers hold different brand repertoires and buy at different rates.

Second, the evidence shows that in each category, BOP buyers invariably already use the leading brands, which are indigenous brands in some categories, but regional or global in others. What separates the smallest from the largest brand in every case is not country of origin or rate at which they are chosen (loyalty levels between competing brands vary little), but the number of people who buy them at all. The third finding is therefore that the big fight is not at the top, not even as Brandt and Thun (2010) argued, in the middle, but rather for the whole market. In many markets, that means targeting the BOP.

Finally, the leading brand in the BOP context is often very much larger than its closest competitor – on average, twice its size. The gap suggests that valuable market leadership can be achieved (and perhaps maintained) by leveraging competitive advantages of scope and scale from broad market coverage that includes masses of consumers even though most of them are light buyers – in other words, targeting the BOP repays the effort.

These findings are important for the development of empirically grounded theory and reinforce established empirical generalisations (EG). Furthermore, they provide brand management with a simple measure to understand market structure, evaluate past performance and develop realistic strategies in pursuit of market penetration.

This paper proceeds as follows: Section 2 elaborates the EG that are extended to a BOP context, their theoretical underpinnings and the model adopted to describe them. The salient features of a BOP market are then presented, followed by the data set, with validation and a brief description of the analysis. The main findings follow, capped with a conclusion and discussion of the contributions made by the research.

# 2. Buying behaviour in the BOP

Member countries of the World Trade Organization (WTO) classify themselves as either "developed" or "developing", but without exactly defining either term. Two-thirds of the WTO's (2018) 164 members are developing countries, while 47 are least-developed countries (LDCs). Both tend to have large BOP segments and are economically, demographically, culturally and socio-politically different from developed markets and from each other (Luiz, 2006; Sheth, 2011), but the important point is that they often have rapidly growing populations, expanding middle classes and a rising demand for brands and innovations (Cateora *et al.*, 2014; Coussy, 2009; Bang *et al.*, 2016). Such economies present major international marketing opportunities because sales growth and global share gain may



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come faster than in stable slow-growing zero-sum markets in developed countries (Hanssens and Pauwels, 2016; Trinh and Anesbury, 2015). In addition, many BOP markets are very large (see Table I) and while per capita income is very low, the huge numbers aggregate to high purchasing power (Prahalad, 2005; Nakata and Weidner, 2012; Chikweche, 2013) of about \$5 trillion worldwide (World Resources Institute, 2018), concentrated on sectors such as food, energy and housing.

Many BOP articles advise managers to appreciate how such markets differ (Ghemawat and Altman, 2016; Luiz, 2006), stressing underdeveloped infrastructure (Weissburg, 2008), inadequate and complex legal systems (Miller, 1998), limited income and low education levels (Jagtap et al., 2014), which, in turn, affect buying behaviour (Batra, 1999) that in poorer communities is shaped by resource shortages and psychological, social and literacy barriers (Viswanathan and Sridharan, 2012). BOP consumers may eschew non-discretionary or expensive brands and instead spend cautiously on basic products (D'Andrea et al., 2010; Kotler and Kotler, 2012), and their repeat brand purchasing is likely to be further reduced by unstable competitive sets, high levels of unbranded competition and imbalances between supply and demand (Cateora et al., 2014; Brown, 1995; Ghemawat and Altman, 2016). Weak buying power and low levels of product penetration are thought to lead to unstable choice behaviours (Luiz, 2006), so marketers are advised to focus instead on establishing brand presence and distribution systems (Sheth, 2011; Eyring et al., 2011) before building customer loyalty, e.g. via a top down strategy that offers easy entry through the small, wealthy segment at the top of the pyramid before diffusing to the more difficult middle or bottom of the market (Brandt and Thun, 2010). Some argue that naive and time-poor BOP consumers behave very differently and have low loyalty because they are trying brands for the first time (Chikweche, 2013: Nakata and Weidner 2012; Hillemann and Verbeke, 2014; Rangan et al., 2011) necessitating cleverly adapted marketing approaches (Jagtap et al., 2014; Hahn, 2009; Eyring et al., 2011).

The idea that BOP consumers must make brand choice decisions differently from the top, and certainly at variance with more developed markets where higher loyalty can be earned, is understandable but based on little evidence. Until now, the BOP literature stressing behavioural differences and barriers to entry is largely anecdotal and conceptual (Kumar *et al.*, 2015) and when tested or measured is likely to use qualitative or case-study based data (Kolk *et al.*, 2014).

A better empirically based understanding of brand choice behaviour at the BOP could therefore inform knowledge of brand diffusion processes, particularly if there is evidence for differences in behavioural loyalty. To understand the extent to which the poorest really differ in their buying, behavioural benchmarks are needed. Fortunately, there is a developed literature with generalised models of aggregate brand performance in the form of EG, and one in particular describes behavioural loyalty, the DJ Law (Ehrenberg *et al.*, 1990). The next section reviews this literature and develops the research question.

	Adults 18+ (millions)	% under poverty line
India	379	22
China	239	4
Indonesia	57	11
Nigeria	44	70
Brazil	32	4
Ethiopia	31	30
Pakistan	30	30
DR Congo	30	63
Egypt	30	28
The Philippines	29	22

**Table I.**Top 10 BOP markets, millions of adults

Sources: Column 1 - Euromonitor's income and wealth model, 2015; Column 2 - CIA World Factbook, 2019



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## 2.1 Empirical generalisations in marketing

An EG is a relationship between two or more variables that has been widely observed to hold across a range of conditions (Uncles and Wright, 2004). EGs are managerially useful because they predict: "what tends to happen to consumer behavior and, therefore, business performance, when a firm, brand or other relevant entity engages in a certain marketing behavior" (Hanssens, 2018, p. 6).

Many EGs established in stationary markets reliably predict recurring patterns of buyer behaviour in terms of how many consumers buy, how often they buy and what else they buy (Bound, 2009). EG explanatory theory is integrated into the NBD-Dirichlet model of purchase incidence and brand choice (Goodhardt *et al.*, 1984) but its components, including DJ, may be applied independently to provide benchmarks in new marketing environments. Such differentiated replications would then reveal any contingency effects operating in the new contexts (Easton, 2002).

The idea that similar basic human needs shape the behaviour of individuals regardless of where they live supports the supposition that many consumer-related constructs or EGs may indeed be universal. But if DJ is to be considered as a successful theory by marketing scientists, it must continue to predict in novel settings (Hunt, 1994). That is why Burgess and Steenkamp (2013) called for more testing in new market contexts, i.e. real-world learning laboratories, to develop contingency theory.

## 2.2 Double jeopardy

DJ says that small brands are punished twice for being small: they have fewer buyers than bigger competitors, and those buyers are somewhat less loyal (Ehrenberg *et al.*, 1990). The EG summarises the outcome effects of repeat buying in repertoire markets with a simple model that integrates the theoretical assumptions of the law and predicts behavioural loyalty (purchase frequency) from brand size.

Where b is brand penetration – the number buying it at least once in a period – and w is the average brand purchase frequency across those buyers, the model relates the values in the sales equations for competing brand (x, y, ..., n) described by the equation:

$$w_x(l-b_x) = w_y(l-b_y) = w_o,$$

where value  $w_o$  is a constant for the category, estimated as the average value of w(l-b) for all observed brands. The predicted value of  $w_x$  for a given  $b_x$  is therefore  $w_o/(l-b)$ , which shows that the fewer the buyers (b) the smaller w must be, the DJ effect.

In this form the model makes two independence assumptions (Goodhardt *et al.*, 1984). The first is that buying of different brands is independent across consumers (e.g. the proportion of households that buy brand x in the period is  $b_x$  irrespective of whether they also buy brand y); and second, brands do not differ in how often their customers buy the total category on average, and no one brand monopolises the heaviest category buyers.

It is still surprising to some that these assumptions are widely found to hold, but the EG has predicted loyalty in scores of product categories (Ehrenberg *et al.*, 2004) over the past 50 years. It has been extended to product variants (Singh *et al.*, 2004), TV programme choice (Ehrenberg *et al.*, 1990), retailing (Pleshko and Souiden, 2007), fashion retail (Brewis-Levie and Harris, 2000), sports teams (Doyle *et al.*, 2013) and infrequently bought goods and brand extensions (Ehrenberg and Goodhardt, 2001). The theory has made novel predictions about brand defection (Wright and Riebe, 2010), mental market share (Romaniuk, 2013), social marketing (Gruneklee *et al.*, 2016) and anti-brand social media activity (Kucuk, 2010).

The two assumptions suggest that buyers behave habitually because they are experienced with the category and the brands in their individual repertoires. A zero-order assumption also implies that category buying remains stationary. However, this may not be



true for BOP segments where new buyers and new brand entrants may violate stationarity. Any deviation from theoretical values would show that the strict assumptions of the law have been breached (nevertheless providing valuable insight).

The DJ law was developed in mature stable categories. Its no segmentation assumption arises because households buy habitually from individually different repertoires of competing brands that they perceive as close substitutes. In aggregate this means, first, that the most popular brands get bought a little more frequently simply because rather more people know about them, and second, most brand buyers in a given time period are light buyers of that brand and devote more of their category purchasing to other brands, so the number of buyers any brand attracts is the main determinant of performance.

## 2.3 Extending the analysis to a new context

The negative view of marketing barriers in BOP markets is likely based on an unrealistic view of brand loyalty. It supposes that at the BOP, buyers are light for extrinsic reasons including spotty distribution, low disposable income, etc., but it gives no evidence of loyalty at the BOP or any other level. However, it has been repeatedly shown that most brand buyers in any customer base are predictably light buyers (Graham *et al.*, 2017). This should be the case at the BOP as well and means that brand strategy is obvious and tactics are clear – to deliver consistent penetration growth across the whole market (Dawes, 2016).

Almost all research involving stochastic modelling of consumer purchase data has been done in developed markets. Of the 46 studies included in this EG review (Table AI), 84 per cent were conducted in highly developed markets, and the few that included data from developing markets (Thailand, South Africa, Indonesia, Nigeria and Kenya) did so at the category level without specifically looking at the BOP segment. To the best of the authors' knowledge, no previous analysis of BOP buying behaviour based on recorded purchase data has been published. It therefore remains an empirical question as to whether BOP consumers behave in ways that mirror more affluent consumers. The main research question is:

## RQ1. Does the double jeopardy law apply at the bottom of the pyramid?

If brand performance metrics (BPMs) are shown to be normal in the BOP, then DJ provides an excellent prescription for growth, since the greatest difference between competing brands is in the number of buyers each attracts. In context, the model predicts the necessary sales equation ( $b \times w$ ) for any planned market share, and this study examines brand buying through a DJ lens to understand the differences in BPM's between brands in the BOP.

The research contributes evidence-based knowledge of consumer behaviour, strengthens and extends useful EG and provides managerial insight for strategic planning. The next section discusses the methodology employed, before presenting the results and their implications.

## 3. Method

#### 3.1 Data

This study analysed purchasing records in 35 CPG categories recorded by a consumer panel of 3,265 households in Egypt. The panel was recruited for commercial purposes by Kantar-TNS to quotas that contained representatives from each socio-economic group (Plate 1) including BOP participants. Reporting quality was rigorously controlled. The income classifications are designed to be similar across countries or markets, dividing populations roughly by income quintiles. Markets with large BOP segments are highly skewed towards the poorest. For comparison, in the UK the C2, D and E segments account for around half the population; in Egypt, they account for 84 per cent, with 31 per cent at the BOP, at incomes of \$2.50 per day or less.

The panel data used here do not rely on respondents' unreliable memories or intentions (Sharp *et al.*, 2012; Malhotra *et al.*, 2010) but are a comprehensive record of household purchasing. Nevertheless, this is a limited panel, so data for the smallest brands in the smaller categories risk some sample error. To minimise this, analysis for each category was conducted over the longest possible time period of 15 months and restricted to the Top 10 brands, generally accounting for over 90 per cent of category sales.

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## 3.2 Analysis

The analysed CPG categories included detergents, soaps and deodorants as well as food products including yoghurts, cereals, confectionery and processed cheese. Based on purchase occasion, category and brand performance measures were tabulated for the period to describe relative competitive outcomes; market share, penetration, average purchase frequency, behavioural brand loyalty metrics including relative proportions of heavy and light buyers, category purchases, share of category requirements and 100 per cent loyal households.

Many international or global brands appear in the data, but an obvious BOP market characteristic was a recurring "loose" brand classification within the Top 10 brands. These are generic products sold by weight or by the piece. This was treated in subsequent analysis as a discrete competitive entity.

The DJ model was estimated for each category for the Top 10 brands and its fit evaluated, then BOP households were isolated from the panel and a further model fitting conducted to investigate the nature of BOP buying.

## 4. Results

This section presents an analysis of buying behaviour for laundry detergent, and processed cheese, both typical CPG categories but with market-specific penetration, purchase rate and branding. The results for these categories were similar to those of all other categories, all 35 of which clearly demonstrated clear DJ patterns. This is followed by an analysis of the market structure and buying behaviour of the BOP segment and a summary of model fittings across all categories.

#### 4.1 Laundry detergents

The metrics in Table II show familiar patterns of split-loyal buying for a frequently bought category that reaches almost every household. The main pattern in the table is that theoretical and observed purchase frequencies vary together (r = 0.83; p = 0.003). A Wilcoxon signed-rank test showed no significant difference between observed and theoretical values (Z = -1.224, p = 0.240). Market share, penetration and SCR are all strongly correlated with purchase frequency and with each other (average r = 0.9). The proportion buying any brand just once is larger for smaller brands, and bigger brands have higher repeat rates. In addition, the percentage buying a brand six or more times is lower for smaller brands, so that not only do small brands have fewer buyers, but those buyers also buy less often (a DJ pattern).

Note that one brand, Leader HS, is clearly out of line (% error = 130) with purchase frequency double the theoretical prediction (T = 4.2; O = 9.7). This is because Leader HS is strongly promoted and distributed in rural areas where poorer consumers buy small pack sizes, frequently, raising the brand's purchase rate. This segmentation strategy is also why Leader HS has only a third of the market share of brands with similar purchase frequency, showing that share depends more on the number of buyers than on buying frequency.

Typically, the customer base of a brand includes many one-time buyers, and few loyal buyers. Looking at the Top 4 brands, more buyers buy 6+ times, compared to once. Yet on



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Table II. Brand performance metrics for laundry detergents, Egypt 2015–2016

	Market	Penetration	Average pu	Average purchase frequency		% buying	ing.		Category	ory	10	100% loyal
Detergent Top 10 (96% of sales)	Share %	<i>q</i> %	Observed $w$	Observed $w$ Theoretical $w_o/(l-b)$ Once		2+ 4+		6+ P	'urchase	SCR (%)	Pen. %	Purchase SCR (%) Pen. % Avg. purchase
Category	100	94	29.2									
Ariel HS	36	80	12.5	16.8	6	14		64	30	41	2	10.3
Persil HS	56	75	9.4	13.3	18	20		49	31	30	2	16.4
Oxi HS	15	26	7.1	8.1	22	56		37	33	22	П	15.2
Leader HS	∞	22	9.7	4.2	22	21		4	35	28	က	23.0
Extra HS	က	17	4.7	4.0	38	56		23	32	15	0	35.5
Ariel LS	2	20	3.2	4.1	33	31		18	22	13	1	6.4
Tide HS	2	19	2.9	4.1	25	27		12	33	6	0	1.0
Persil LS	2	14	3.4	3.8	44	24		21	24	14	П	3.4
Tide LS	1	12	3.0	3.7	48	25		14	24	13	П	3.6
Loose HS	1	6	4.2	3.6	22	19	9	20	35	12	П	1.0
Average	OI	33	0.9	9.9	35	23		30	30	20	I	9.11.6
O vs T												
Correlation			0.83									
MAD			1.9									
MAPE $\%$			32									
				7 7.								

**Note:** The observed loyalty in the entire category is lower than expected with the exception of Leader HS which is strongly niching **Source:** Kantar Worldpanel

average, only 1 per cent are 100 per cent loyal (i.e. 99 per cent of category buyers are switchers) – loyalty is not exclusive.

Note that market metrics of liquid soap (LS) deviate from the general patterns. LS is purchased by A and B class consumers where 6 of the Top 10 brands were liquid, while only 3 were bought by the middle classes, and none by class E. Industry practitioners explained that LS is an innovation in Egypt, and higher SECs are more capable of adopting it, e.g. by buying new washing machines that can use it.

The detergent category shows that established patterns of normal buying behaviour are present. Some slight deviations from theoretical values suggest market partitioning due to differences in distribution and product formats; these are also found in mature markets.

## 4.2 Processed cheese

Table III shows that BPMs for cheese brands also align closely to brand penetration. Purchase frequency varies less than penetration – the biggest brand has 14 times the penetration but only 3 times the purchase frequency of the smallest brand – a DJ pattern. This says that the number of brand buyers and not their degree of loyalty explain differences in brand size. In sum, DJ patterns are again dominant (r = 0.72; p = 0.018; Wilcoxon Z = -0.178, p = 0.883), MAPE was acceptable at 21 per cent and MAD at 0.6 points.

Elseedy has a higher than predicted purchase rate (42 per cent error). As a smaller brand with 9 per cent market share, Elseedy has relatively more frequent buyers (6+ times), high SCR (46 per cent) and high purchase frequency of 100 per cent loyal consumers. Further analysis found that like Leader HS in detergents, Elseedy is popular with the SEC E where it has 24 per cent market share and purchase frequency of 4.7. Few from SEC A or B buy it because its distribution and promotion is focussed on poorer areas. This, in turn, raises the question of whether the particularities of BOP consumer segments may violate the known laws of marketing. We now proceed to a closer analysis of BOP markets to find out.

## 4.3 BOP consumer buying patterns

Of the Egyptian consumer market's six socio-economic classes, the largest is Class E (31 per cent), which is also the poorest (BOP). The richest, Class A, is a tiny 0.4 per cent of the population. In practice, most international marketers target Class A because of its wealth and concentrated distribution (Table IV). The marketplace outcomes of targeting strategies can be seen in Table V showing the top brands of laundry detergent for each SEC.

The market leader (Ariel HS) leads in five of six SECs; and the Top 4 brands are the same in four of six SECs. The two where the leading brands are slightly different are A and B – small, rich segments that together make up just 6 per cent of the population. The brands targeting these segments tend to be small, e.g. Persil LS and Ariel LS each have 2 per cent market share. In contrast, the five biggest brands are big with the poorer but bigger SECs, suggesting that marketers who seek size and growth should target as broadly as possible.

Table VI shows that the BOP segment has all the normal buying behaviour of the category as a whole; looking down the columns, purchase frequency varies directly with size of the brands, the percentage of buyers buying each brand once, 2+, 4+, etc. is similar to the figures for the overall market, and high purchase frequencies for the top brands suggests that bigger brands enjoy more repeat buying than smaller – a classic DJ pattern.

Table VI also shows that all BPMs vary together. Again Leader HS (variance = 130 per cent) breaks from predicted values because of its small pack sizes and increased buying rate (Prahalad, 2005; Simanis and Hart, 2008). Even so, the DJ patterns remain clear. If Leader HS is removed from the analysis, MAPE drops to an acceptable 21 per cent. Thus observed deviations can be explained, in this case by the marketing strategies of certain brands, and not by any peculiarities of BOP consumers.



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Table III.
Brand performance metrics for processed cheese, Egypt 2015–2016

i	Market	Penetration	Purch	Purchase frequency		% buying	ng		Category	gory	10	100% loyal
Cheese Top 10 (97% of sales) Share %	Share %	<i>q</i> %	Observed $w$	Observed $w$ Theoretical $w_o/(l-b)$ Once	Once	2+	4+	+9	Purchase	SCR (%)	Pen. %	Purchase SCR (%) Pen. % Avg. purchase
Category	100	02	7.2									
President	35	41	4.4	3.9	34	53	14	22	6	51	24	3.8
Teama	17	83	2.9	3.3	48	53	10	13	6	33	16	2.8
Other	10	18	2.8	2.8	53	28	∞	11	6	32	20	1.9
La Vache	10	14	3.5	2.7	46	25	10	18	12	30	7	1.9
Milkana	6	14	3.2	2.7	4	31	11	14	10	33	17	3.5
Elseedy	6	12	3.7	2.6	33	30	14	18	8	46	21	5.1
Kiri	4	10	2.3	2.5	09	53	4	8	12	19	9	1.3
Firo	1	က	2.1	2.4	09	24	6	7	7	32	18	2.7
Labanita	1	က	1.5	2.4	72	25	1	2	14	11	9	1.0
Domty	1	က	1.4	2.4	71	27	2	0	14	10	7	1.0
Average	OI	$I_2$	2.8	2.8	53	28	∞	II	IO	30	14	2.5
O vs T												
Correlation				0.72								
MAD				9.0								
MAPE $\%$				21								
Source: Kantar Worldnanel	orldnanel											

To verify the generalisability of the findings, analysis was extended to 35 categories, and over 800 brands. The observed results for every category were compared against theoretical values and confirmed that the DJ equation closely predicts buying rates (r = 0.99; p = 0.000), with acceptable error (MAPE = 15 per cent, Wilcoxon Z = -0.059, p = 0.992).

In established markets, CPG market leaders usually have slightly lower market shares than the 40 per cent observed here (about 37 per cent, Euromonitor, 2016), and market share tends to be more evenly distributed between competitors. And while it might be expected in the BOP that the biggest brands would be the cheaper domestic ones, in fact, a third are foreign, showing that foreign brands can not only become established, but also attain leadership. Note also that the household category penetration of 70 per cent suggests that most Egyptian households bought most categories at least once in 15 months.

Next the implications for developing theoretical and practical knowledge are discussed.

## 5. Discussion

Abstract learning occurs when the findings obtained through replication studies are integrated with previous research to arrive at or update EG. Bass and Wind (1995) hold that "Science is a process in which data and theory interact leading to generalized explanations of disparate types of phenomena. Thus, empirical generalizations are the building blocks of science". This underlines the importance of research for establishing generalisability and boundary conditions in disparate settings. BOP research contexts are widely disparate to the "traditional" context of highly developed markets. If established EGs hold in new contexts, they build confidence in the universality of a theory. If on the other hand, the

Socio-economic class (SEC)	Title	Per cent	Household monthly income bracket (Egyptian pounds)
A	Higher upper class	0.4	20,000+
В	Upper class	5	12,000-19,999
C1	Upper middle class	11	6,000-11,999
C2	Lower middle class	26	1,500-5,999
D	Lower class	27	500-1,499
E	Very low class (BOP)	31	Up to 499

**Notes:** These socio-economic classes (SECs) were defined to establish international comparability. In addition to household income, occupation, education, club membership, travel, owned durables, transportation and residence were considered

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Table IV.
The skewed
distribution of
socio-economic classes
(SECs) in Egypt

	A	В	Socio-econom C1	ic classes (SECs C2	) D	Е
First brand	Persil LS	Ariel HS	Ariel HS	Ariel HS	Ariel HS	Ariel HS
Second brand	Ariel HS	Persil HS	Persil HS	Persil HS	Persil HS	Persil HS
Third brand	Ariel LS	Ariel LS	Oxi HS	Oxi HS	Oxi HS	Oxi HS
Fourth brand	Persil HS	Persil LS	Leader HS	Leader HS	Leader HS	Leader HS
Fifth brand	Tide LS	Oxi HS	Ariel LS	Extra HS	Extra HS	Extra HS

**Notes:** A Wilcoxon signed-rank test showed no significant difference between observed and theoretical values (Z = -1.020, p = 0.336). Ariel is the leading brand in the entire category, and in all SECs except for A. These few richest category buyers do not choose the local and regional brands

Table V.
Top 5 brands (in rank
share order) in each of
the six SECs
in the laundry
detergent category



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Table VI.
Brand performance
metrics in SEC E,
showing DJ patterns
at the BOP, Egypt
2015-2016

Detorton to Ton	Market	Penetration	Put	Purchase freq.		% buying	ing		Category	ry		100% loyal
10 (99% of sales)	Share	9% p	Observed $w$	Observed $w$ Theoretical $w_o((l-b))$ Once	Once	2+	4+	+9	Purchase	SCR	Pen.	Avg. purchase
Category		86	35.1									
Ariel HS	32	62	13.8	17.1	10	13	12	65	36	36	1	11.4
Persil HS	56	62	11.5	17.1	14	14	12	09	37	31	2	25.8
Oxi HS	17	89	8.6	11.3	17	23	14	46	37	23	2	23.3
Leader HS	13	36	12.9	5.6	13	18	12	22	37	35	2	25.7
Extra HS	4	26	5.4	4.9	37	21	14	88	35	16	1	3.0
Tide HS	2	22	3.6	4.6	21	22	7	16	38	6	0	0.0
Bonux HS	2	14	3.7	4.2	45	24	13	18	42	6	0	0.0
Loose HS	1	6	4.2	4.0	23	18	က	56	35	12	2	1.0
Bahy HS	1	7	4.5	3.9	43	36	4	17	43	11	0	0.0
Other	1	13	2.2	4.1	62	23	6	9	40	5	0	0.0
Average O vs T		35	0.7	2.7	35	22	01	34	38	61	I	0.6
Correlation				0.78								
$\stackrel{\text{MAD}}{\text{MAPE}}~\%$				2.4 32								
Source: Kantar Worldpanel	orldpanel											

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results fail to hold, boundary conditions may be established. In either case, marketing Including BOP science progresses.

This paper contributes to marketing theory first via a differentiated replication of the stochastic w(l-b) modelling technique in a new context characterised by rapid growth. category immaturity and masses of BOP consumers. The resulting empirical analyses show how stochastic modelling techniques represent a fruitful area for the development of explanatory theory.

The second contribution is to provide empirical evidence that patterns of behaviour typical of mature advanced economies are also generated in a very different BOP market. Against the view that "an entirely new strategic process" is required (Simanis and Hart, 2008), this study provides guidance by showing that in cross-section the assumptions underlying the DI law are not violated when analysing dynamic market data. This helps to advance knowledge and provides insight for international strategic marketing planning, by making it possible to predict consumer buying behaviour. This, in turn, provides guidelines for where to direct marketing efforts and robust benchmarks against which to evaluate results.

If DI assumptions hold in BOP markets, then brand choice behaviour follows familiar rules; the biggest brands are those that can tackle the bigger demographic segments to acquire more buyers. For every brand, the majority of its customer base will be light buyers because they regularly buy other brands too. The key to brand size is therefore total buyer numbers, not buyer lovalty.

The third contribution is to demonstrate that the idea that market structures or buying behaviour at the BOP are markedly different is ripe for rethinking and empirical testing (Section 2 above, e.g. Luiz, 2006; Batra, 1999; Eyring et al., 2011). This study shows that BOP buyer behaviour has many familiar characteristics (Uncles et al., 2010; Bayne et al., 2014) and that understanding both the similarities and differences are vital to the formation of effective marketing strategy. BOP buying patterns are virtually identical to those seen in other markets. BOP consumers are not constrained to low price or generic products (as might have been expected), rather, they buy across the brand spectrum (Subrahmanyan and Gomez-Ariaz, 2008), further supporting the premise that there are solid bottom-line reasons to develop BOP marketing strategies (Gueslaga and Marshall, 2008; Agnihotri, 2013).

The fourth contribution concerns brand leaders that are often far larger than their nearest competitors. Whether they are local, regional or multinational, what unites them is that they target the broader market, especially the BOP, exploiting their positional advantages (Martin et al., 2017) or market embeddedness (Halaszovich and Lundan, 2016). The finding that both AMNEs and emerging multinational enterprises can attain category leadership suggests that the BOP holds opportunity for sales and growth.

Empirical evidence in this study revealed buying behaviour that was consistent across all categories. Even with "expected" divisions, such as between AMNE brands and local imitators the BPMs differ only according to the size of the brand. This is because consumers see the products as functionally similar, as substitutes – even at very different price points. Similar patterns have been reported in many other markets; for Chinese retailers (Uncles et al., 2010; Uncles and Kwok, 2008), South African banks (Bayne et al., 2014) and Nigerian and Kenyan soft drinks (Romaniuk and Sharp, 2016).

## 5.1 Marketer imposed restrictions

Brands that restrict their marketing to certain small market segments (e.g. targeting SEC A) tend to remain small. Even if they are market leaders within the selected segments, they enjoy very little market share in the overall market. This is in line with Sharp (2010) and Romaniuk and Sharp's (2016) arguments against brands that place restrictions on their growth by trying to "lock" and own buyers of a certain segment.



BOP purchasing is instead limited by the brands' marketing and distribution efforts. Some brands (Leader HS detergent) focus on dispersed rural BOP buyers, and do exceptionally well with them, but not because BOP buyers have unusual loyalty patterns (or deviate from theoretical values). If managers choose to serve the BOP segment, the evidence shows that they can expect BOP consumers to respond in ways that follow the law-like patterns of consumer buying observed elsewhere.

The benefit of targeting all possible category buyers is that it enables brands to grow large. And with size, come higher loyalty metrics (a DJ pattern). While the practical difficulties of reaching millions of buyers may mean that managers only have the resources to address some segments, they are still better off targeting the BOP segment and the smallest SEC A. Targeting A alone will never deliver the same volume.

## 5.2 Conclusions

In established markets the route to growth is through salience – the brand must be both mentally and physically available at the buying situation to increase the chances of being bought. And when bought, brands are usually bought by light buyers who are a great majority in every market (Sharp, 2010; Romaniuk *et al.*, 2018). DJ holds across the BOP in every category observed, and brands that achieve leadership are those that gain salience across the whole market – successfully increasing their chances for every sale. Also, leadership means success beyond that in developed economies since it tends to create a twofold difference in share between leader and challenger. The evidence therefore suggests that there is ample scope for a fortune at the BOP, and it follows a well-established pattern.

## 5.3 Research limitations and suggestions for future research

The collection of consumer panel data in BOP markets is quite new and this data set is relatively small, which limits the generalisability of this research. As available data become more accurate, representative and reliable, it will enable comparisons between different slices of time, additional categories and different markets, enabling analysis to move from the cross-sectional to the longitudinal.

The empirical results raise new questions about market structure. While there is room for growth at the BOP, how can brands secure market presence that will enable that growth? What strategies do category leading brands follow? How does the strategy vary for local, regional and multinational brands? Is targeting the whole market a viable alternative for resource-constrained companies? And if not, what are the better choices to leverage in-market capabilities and resource bases? How does product or brand innovation fit in strategic marketing planning for BOP consumers? Attempts at tackling such questions will further contribute to the theoretical development of the international marketing literature.

This research demonstrates that consumer behaviour EGs are found in the BOP segment. But this is not to say that all BOP segments are the same – one in India may be quite unlike one in Algeria, Bangladesh or even different states in India, and further research should investigate how BOP consumers behave especially in underexplored markets. Furthermore, such studies could be replicated over time and across industries to identify how behaviours evolve over time as markets develop.

BOP deviations from DJ norms are also potential areas for theory development. The under prediction of one-time buying observed in some categories and consequent over prediction of loyalty metrics present potentially valuable directions for research and model refinement. More research is required to determine whether these deviations are present in other markets, and whether the model could be modified to accommodate the particular conditions. These insights into market structure and deviations from theoretical norms help to focus future research questions towards consolidating theory through in-depth and long-term research.

This paper details the findings from an application of the DJ Law. The discoveries are Including BOP encouraging. The next steps will involve fitting more complex models, for example, the in international NBD-Dirichlet (Goodhardt et al., 1984) that can estimate a wider range of metrics across competing brands, including duplication of purchase, share-based lovalty measures and other norms including brand Pareto share.

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Appendix			Including BOP in international marketing
Citation	Full citation	Research sample	strategy
Allenby and Lenk (1994)	Allenby, G.M. and Lenk, P.J. (1994), "Modelling household purchase behavior with logistic normal regression", <i>Journal of the American Statistical Association</i> , Vol. 89 No. 428, pp. 1218-1231	USA	95
Bandyopadhyay and Gupta (2004)	Bandyopadhyay, S. and Gupta, K. (2004), "Comparing double jeopardy effects at the behavioral and attitudinal levels", <i>Journal of Product &amp; Brand Management</i> , Vol. 13 No. 3, pp. 180-191	North America	
Barwise and Ehrenberg (1985)	Barwise, P.T. and Ehrenberg, A.S.C. (1985), "Consumer beliefs and brand usage", <i>Journal of Market Research Society</i> , Vol. 27, pp. 81-93	UK	
Bayne et al. (2014)	Bayne, T., Samuels, B. and Sharp, B. (2014), "Marketing banks:	South Africa	
Bennett and Graham (2010)	target new, not loyal customers", <i>AdMap</i> , April, pp. 40-41 Bennett, D. and Graham, C. (2010), "Is loyalty driving growth for the brand in front? A two-purchase analysis of car category dynamics in Thailand", <i>Journal of Strategic Marketing</i> , Vol. 18 No. 7, pp. 573-585	Thailand	
Bennett (2008)	Bennett, D. (2008), "Brand loyalty dynamics – China's television brands come of age", <i>Australasian Marketing Journal</i> , Vol. 16 No. 2, pp. 39-50	China	
Bowman and Lele- Pingle (1997)	Bowman, D. and Lele-Pingle, S. (1997), "Buyer behavior in business-to-business services: the case of foreign exchange", <i>International Journal of Research in Marketing</i> , Vol. 14 No. 5, pp. 499-508	North America and Europe	
Brewis-Levie and Harris (2000)	Brewis-Levie, M. and Harris, P. (2000), "An empirical analysis of buying behaviour in UK high street womenswear retailing using the Dirichlet model", <i>The International Review of Retail</i> , <i>Distribution and Consumer Research</i> , Vol. 10 No. 1, pp. 41-57	UK	
Brewis-Levie and Harris (2000)	Brewis-Levie, M. and Harris, P. (2000), "An empirical analysis of buying behaviour in UK high street womenswear retailing using the Dirichlet model", <i>The International Review of Retail</i> , <i>Distribution and Consumer Research</i> , Vol. 10 No. 1, pp. 41-57	UK	
Colombo et al. (2000)	Colombo, R., Ehrenberg, A. and Sabavala, D. (2000), "Diversity in analyzing brand-switching tables: the car challenge", <i>Canadian Journal of Marketing Research</i> , Vol. 19, pp. 23-36	Europe	
Danaher <i>et al.</i> (2003)	Danaher, P.J., Wilson, I.W. and Davis, R.A. (2003), "A comparison of online and offline consumer brand loyalty", <i>Marketing Science</i> , Vol. 22 No. 4, pp. 461-476	USA	
Dawes (2002)	Dawes, J.G. (2002), "Survey responses using scale categories follow a 'double jeopardy' pattern", Australian and New Zealand Marketing Academy Conference, Melbourne	Australia	
Doyle <i>et al.</i> (2013)	Doyle, J.P., Filo, K., McDonald, H., Funk, D.C. (2013), "Exploring sport double brand jeopardy: the link between team market share and attitudinal loyalty", <i>Sport Management Review</i> , Vol. 16, pp. 285-297	Australia	
Ehrenberg and Goodhardt (2001)	Ehrenberg, A. and Goodhardt, G.J. (2001), "New brands: near-instant loyalty", <i>Journal of Targeting, Measurement and Analysis for Marketing</i> , Vol. 10 No. 1, pp. 9-16	UK	
Ehrenberg et al. (2004)	Ehrenberg, A.S., Uncles, M. and Goodhardt, G. (2004), "Understanding brand performance measures: using Dirichlet benchmarks" Journal of Business Research, Vol. 57, pp. 1307-1325.	USA, UK, Germany and	Table AI.

benchmarks", Journal of Business Research, Vol. 57, pp. 1307-1325 Japan



A review of empirical generalisations in

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(continued)

IMR 37,1	Citation	Full citation	Research sampl
01,1	Ehrenberg et al. (1990)	Ehrenberg, A.S.C., Goodhart, G.J. and Barwise, T.P. (1990), "Double jeopardy revisited". <i>Journal of Marketing</i> , Vol. 54, pp. 82-91	USA and UK
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Citation	Full citation	Research sample	Including BOP in international
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Sharp and Sharp (1997)	Sharp, B. and Sharp, A. (1997), "Loyalty programs and their impact on repeat-purchase loyalty patterns", <i>International Journal of Research in Marketing</i> , Vol. 14 No. 5, pp. 473-486	Australia	97
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