Motilal Oswal

# 21ST ANNUAL WEALTH CREATION STUDY (2011-2016)

# FOCUSED INVESTING Power of allocation in Wealth Creation

#### **HIGHLIGHTS**

- Stock allocation (how much to buy) is a powerful tool for portfolio performance, but is under-researched vis-à-vis stock selection (what to buy)
- Kelly's formula offers 3 insights for equity investing: (1) Look for asymmetric payoff (2) Create edge (3) Bet big
- Opportunities for big bets come seldom; Focused Investing is a sound strategy to capitalize on them
- Keys to successful Focused Investing are: (1) Clear portfolio goal (2) Superior stock selection (3) Rational allocation (4) Active monitoring
- Disciplined practice should lead to exceptional returns rather than acceptable returns

"Bet seldom, and only when the odds are strongly in your favor, but when you do, bet big, hold for the long term, and control your downside risk."

- From the book Concentrated Investing, by Allan C Benello, Michael Van Biema, Tobias E Carlisle

|      | THE BIGGEST        |                   | THE FASTEST          |                 | THE MOST CONS      | STENT             |                  |
|------|--------------------|-------------------|----------------------|-----------------|--------------------|-------------------|------------------|
| Rank | Company            | Wealth<br>Created | Company              | 5-Year<br>Price | Company            | Appeared<br>in WC | 10-Year<br>Price |
|      |                    | (INR b)           |                      | CAGR (%)        |                    | Study (x)         | CAGR (%)         |
| 1    | TCS                | 2,637             | Ajanta Pharma        | 121             | Asian Paints       | 10                | 30               |
| 2    | HDFC Bank          | 1,475             | Welspun India        | 88              | Kotak Mahindra Ban | k 10              | 26               |
| 3    | Hindustan Unilever | 1,266             | Eicher Motors        | 70              | Sun Pharma         | 10                | 25               |
| 4    | ITC                | 1,197             | Kajaria Ceramics     | 66              | Titan Company      | 10                | 23               |
| 5    | Sun Pharma         | 1,169             | Vakrangee Software   | 63              | Bosch              | 10                | 22               |
| 6    | Infosys            | 948               | Bajaj Finance        | 59              | HDFC Bank          | 10                | 21               |
| 7    | HCL Technologies   | 819               | P I Industries       | 58              | Axis Bank          | 10                | 20               |
| 8    | Kotak Mahindra Ban | k 760             | Symphony             | 56              | Dabur India        | 10                | 20               |
| 9    | Maruti Suzuki      | 742               | Amara Raja Batteries | 56              | Nestle India       | 10                | 17               |
| 10   | HDFC               | 682               | Aurobindo Pharma     | 50              | Cummins India      | 10                | 17               |

#### TOP 10 WEALTH CREATORS (2011-2016)

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Investors are advised to refer through important disclosures made at the end of the Research Report.

# Motilal Oswal 21st Annual Wealth Creation Study

|   | Pa  | ge |
|---|---|----|
|   | Wealth Creation Study: Objective, Concept & Methodology | 1  |
|   | Wealth Creation 2011-16: Findings Summary 2             | -3 |
|   | Theme 2017: Focused Investing                           | 19 |
| ≻ | Wealth Creation 2011-16: Detailed Findings 20-3         | 33 |
| ≻ | Appendix 1: MOSL 100 – Biggest Wealth Creators          | 35 |
|   | Appendix 2: MOSL 100 – Fastest Wealth Creators          | 37 |
|   | Appendix 3: MOSL 100 – Wealth Creators (alphabetical)   | 38 |
|   |   |    |

#### Abbreviations and Terms used in this report

| Abbreviation / Term   | Description   |
|-----------------------|---|
| 2006, 2011, 2016, etc | Reference to years for India are financial year ending March, unless otherwise stated   |
| Avg                   | Average   |
| CAGR                  | Compound Annual Growth Rate   |
| L to P / P to L       | Loss to Profit / Profit to Loss. In such cases, calculation of PAT CAGR is not possible |
| INR b                 | Indian Rupees in billion  |
| Price CAGR            | In the case of aggregates, Price CAGR refers to Market Cap CAGR                         |
| WC                    | Wealth Created  |
| Wealth Created        | Increase in Market Capitalization over the last 5 years, duly adjusted for corporate    |
|                       | events such as fresh equity issuance, mergers, demergers, share buybacks, etc.          |

Note: Capitaline database has been used for this study. Source of all exhibits is MOSL analysis, unless otherwise stated

# Wealth Creation Study

**Objective, Concept & Methodology** 

#### Objective

The foundation of Wealth Creation is to buy businesses at a price substantially lower than their "intrinsic value" or "expected value". The lower the market value compared to the intrinsic value, the higher is the margin of safety. Every year for the past 21 years, we endeavor to cull out the characteristics of businesses that create value for their shareholders.

As Phil Fisher says, "It seems logical that even before thinking of buying any common stock, the first step is to see how money has been most successfully made in the past." Our Wealth Creation studies are attempts to study the past as a guide to the future, and gain insights into the various dynamics of stock market investing.

#### **Concept & Methodology**

Wealth Creation is the process by which a company enhances the market value of the capital entrusted to it by its shareholders. It is a basic measure of success for any commercial venture. For listed companies, we define Wealth Created as the difference in market capitalization over a period of last five years, after adjusting for equity dilution.

We rank the top 100 companies in descending order of absolute Wealth Created, **subject to the company's stock price at least outperforming the benchmark index (BSE Sensex in our case).** These top 100 Wealth Creators are also ranked according to speed (i.e. price CAGR during the period under study).

We present the study highlights in pages 2-3. The detailed findings are presented in pages 20-33. Appendix 1 (pages 34-35) ranks the 100 Wealth Creators by size, and Appendix 2 (pages 36-37) ranks the same 100 Wealth Creators by speed.

A theme study titled "Focused Investing – Power of allocation in Wealth Creation" is featured in pages 4-19.

# Wealth Creation 2011-2016

#### Highlights

#### TCS is the Biggest Wealth Creator for the fourth time in a row

- **TCS** has emerged as the biggest Wealth Creator for the period 2011-16, retaining the top spot it held even in the previous three study periods (2010-15, 2009-14 and 2008-13).
- **HDFC Bank** has inched up to No.2 after 3 years of remaining No.3.

#### Exhibit 1 Top 10 Biggest Wealth Creators

| Rank  | Company        | Wealth | Created | CAGR  | (%) | P/E  | (x)  | RoE  | (%)  |
|-------|----------------|--------|---------|-------|-----|------|------|------|------|
|       |                | INR b  | % share | Price | PAT | 2016 | 2011 | 2016 | 2011 |
| 1     | TCS            | 2,637  | 9       | 16    | 22  | 21   | 26   | 37   | 37   |
| 2     | HDFC Bank      | 1,475  | 5       | 18    | 26  | 21   | 27   | 17   | 16   |
| 3     | Hind. Unilever | 1,266  | 4       | 25    | 14  | 46   | 30   | 102  | 76   |
| 4     | ITC            | 1,197  | 4       | 13    | 14  | 28   | 28   | 28   | 30   |
| 5     | Sun Pharma     | 1,169  | 4       | 30    | 24  | 38   | 26   | 16   | 19   |
| 6     | Infosys        | 948    | 3       | 9     | 15  | 20   | 27   | 24   | 26   |
| 7     | HCL Tech       | 819    | 3       | 28    | 27  | 21   | 20   | 20   | 21   |
| 8     | Kotak Mahindra | 760    | 3       | 24    | 17  | 36   | 21   | 10   | 14   |
| 9     | Maruti Suzuki  | 742    | 3       | 24    | 14  | 25   | 16   | 17   | 16   |
| 10    | HDFC           | 682    | 2       | 10    | 18  | 17   | 23   | 20   | 21   |
| Total | of Top 10      | 11,695 | 41      | 18    | 19  | 24   | 25   | 23   | 24   |
| Total | of Top 100     | 28,436 | 100     | 19    | 16  | 22   | 19   | 20   | 22   |

#### Ajanta Pharma is the Fastest Wealth Creator again

- Ajanta Pharma has emerged as the Fastest Wealth Creator for the second time in a row, with 2011-16 stock price multiplier of 53x (121% CAGR).
- Eicher Motors is among the top 10 Fastest Wealth Creators for the last 5 studies.

| Rank | Company              | Price Appn. | CAGR  | R (%) | Mkt Cap | (INR b) | P/E  | (x)  |
|------|----------------------|-------------|-------|-------|---------|---------|------|------|
|      |                      | (x)         | Price | PAT   | 2016    | 2011    | 2016 | 2011 |
| 1    | Ajanta Pharma        | 53          | 121   | 52    | 124     | 2       | 31   | 5    |
| 2    | Welspun India        | 23          | 88    | 234   | 100     | 4       | 14   | 226  |
| 3    | Eicher Motors        | 14          | 70    | 48    | 520     | 36      | 42   | 20   |
| 4    | Kajaria Ceramics     | 13          | 66    | 30    | 76      | 6       | 33   | 9    |
| 5    | Vakrangee            | 11          | 63    | 52    | 105     | 8       | 27   | 17   |
| 6    | Bajaj Finance        | 10          | 59    | 39    | 373     | 26      | 29   | 10   |
| 7    | P I Industries       | 10          | 58    | 37    | 78      | 7       | 25   | 10   |
| 8    | Symphony             | 9           | 56    | 15    | 83      | 9       | 77   | 17   |
| 9    | Amara Raja Batteries | 9           | 56    | 27    | 150     | 16      | 31   | 11   |
| 10   | Aurobindo Pharma     | 8           | 50    | 28    | 436     | 57      | 22   | 10   |

#### Exhibit 2 Top 10 Fastest Wealth Creators

#### Asian Paints is the Most Consistent Wealth Creator

- Asian Paints is the Most Consistent Wealth Creator over 2006-16, by virtue of -
  - 1. Appearing among top 100 Wealth Creators in each of the last 10 studies; and
  - 2. Highest 10-year Price CAGR of 30%.

#### Exhibit 3 Top 10 Most Consistent Wealth Creators

|      |                | Appeared in  | 10-yr Price | 10-yr PAT | P/E  | (x)  | Rol  | E (%) |
|------|----------------|--------------|-------------|-----------|------|------|------|-------|
| Rank | Company        | WC Study (x) | CAGR (%)    | CAGR (%)  | 2016 | 2006 | 2016 | 2006  |
| 1    | Asian Paints   | 10           | 30          | 23        | 48   | 29   | 31   | 31    |
| 2    | Kotak Mahindra | 10           | 26          | 23        | 36   | 20   | 10   | 24    |
| 3    | Sun Pharma     | 10           | 25          | 25        | 38   | 30   | 16   | 41    |
| 4    | Titan Company  | 10           | 23          | 24        | 44   | 45   | 20   | 47    |
| 5    | Bosch          | 10           | 22          | 14        | 53   | 27   | 15   | 24    |
| 6    | HDFC Bank      | 10           | 21          | 31        | 21   | 28   | 17   | 16    |
| 7    | Axis Bank      | 10           | 20          | 33        | 13   | 20   | 16   | 18    |
| 8    | Dabur India    | 10           | 20          | 19        | 36   | 32   | 30   | 49    |
| 9    | Nestle India   | 10           | 17          | 11        | 63   | 29   | 32   | 92    |
| 10   | Cummins India  | 10           | 17          | 15        | 32   | 26   | 22   | 23    |

#### **Consumer/Retail is the biggest Wealth Creating sector**

Consumer/Retail has emerged as India's biggest Wealth Creating sector for the second consecutive time, and the third time in the last four years.

| Sector               | WC      | Share of | WC % | CAGR 11- | 16 (%) | P/E  | (x)  | RoE ( | %)   |
|----------------------|---------|----------|------|----------|--------|------|------|-------|------|
| (No of companies)    | (INR b) | 2016     | 2011 | Price    | PAT    | 2016 | 2011 | 2016  | 2011 |
| Consumer/Retail (23) | 6,364   | 22       | 8    | 21       | 15     | 38   | 30   | 31    | 32   |
| Banking/Finance (14) | 4,995   | 18       | 24   | 20       | 19     | 19   | 18   | 16    | 19   |
| Technology (7)       | 4,960   | 17       | 14   | 16       | 20     | 20   | 24   | 28    | 29   |
| Auto (15)            | 4,093   | 14       | 5    | 20       | 10     | 20   | 13   | 19    | 32   |
| Healthcare (15)      | 3,705   | 13       | 4    | 25       | 18     | 30   | 22   | 18    | 18   |
| Cement (5)           | 1,266   | 4        | 1    | 20       | 3      | 35   | 16   | 9     | 14   |
| Oil & Gas (3)        | 670     | 2        | 14   | 21       | 26     | 8    | 10   | 27    | 14   |
| Capital Goods (4)    | 513     | 2        | 7    | 16       | 11     | 33   | 26   | 17    | 18   |
| Telecom & Media (2)  | 394     | 1        | 3    | 17       | 19     | 21   | 23   | 13    | 10   |
| Metals / Mining (2)  | 289     | 1        | 15   | 7        | 7      | 11   | 12   | 16    | 17   |
| Utility (1)          | 203     | 1        | 3    | 9        | 18     | 12   | 18   | 14    | 12   |
| Others (9)           | 984     | 3        | 3    | 21       | 17     | 25   | 21   | 19    | 19   |
| Total                | 28,436  | 100      | 100  | 19       | 16     | 22   | 19   | 20    | 22   |

| Exhibit 4 Consumer/Retail is the top Wealth Creating sector | Exhibit 4 | Consumer/ | Retail is the | top Wealth | <b>Creating sector</b> |
|---|-----------|-----------|---------------|------------|------------------------|
|---|-----------|-----------|---------------|------------|------------------------|

#### **Commodity collapse drives up Wealth Destruction**

• 7 of the top 10 Wealth Destroyers are in the business of global commodities.

| Company                | Wealth [ | Destroyed | Price    |
|------------------------|----------|-----------|----------|
|                        | INR b    | % Share   | CAGR (%) |
| MMTC                   | 889      | 6         | -47      |
| NMDC                   | 735      | 5         | -19      |
| BHEL                   | 730      | 5         | -23      |
| O N G C                | 645      | 4         | -6       |
| Jindal Steel           | 592      | 4         | -39      |
| Vedanta                | 570      | 4         | -21      |
| State Bank of India    | 542      | 4         | -7       |
| NTPC                   | 529      | 3         | -8       |
| SAIL                   | 524      | 3         | -24      |
| Coal India             | 348      | 2         | -3       |
| Total of above         | 6,104    | 40        |          |
| Total Wealth Destroyed | 15,146   | 100       |          |

| Exhibit 6 | Тор | Wealth | Destroy | ying Sectors |
|-----------|-----|--------|---------|--------------|
|-----------|-----|--------|---------|--------------|

| Sector              | Wealth<br>Destroyed<br>(INR b) | %<br>Share |
|---------------------|--------------------------------|------------|
| Metals / Mining     | 5,058                          | 33         |
| Banking & Finance   | 2,991                          | 20         |
| Utilities           | 1,555                          | 10         |
| Capital Goods       | 1,393                          | 9          |
| Oil & Gas           | 1,256                          | 8          |
| Constn. / Real Est. | 1,012                          | 7          |
| Technology          | 301                            | 2          |
| Chemicals & Fert.   | 295                            | 2          |
| Telecom             | 214                            | 1          |
| Others              | 1,071                          | 7          |
| Total               | 15,146                         | 100        |

For detailed findings, please see pages 20-33.

# **Theme 2017**

# **Focused Investing**

#### Power of allocation in Wealth Creation

"Bet seldom, and only when the odds are strongly in your favor, but when you do, bet big, hold for the long term, and control your downside risk."

- from the book Concentrated Investing, by Allan C Benello, Michael Van Biema, Tobias E Carlisle

### 1. Backdrop

## 20 studies on "What to buy"; first one on "How much to buy"

Two key aspects of equity investing are: (1) What to buy (i.e. stock selection), and (2) How much to buy (i.e. stock allocation or weightage in a given portfolio). Almost all of the past 20 Annual Wealth Creation Studies have covered various aspects of what to buy. In this, the 21st Study, we focus on how much to buy.

The simplistic example of a hypothetical portfolio presented below shows how stock allocation can significantly influence investment performance. For the same set of stocks, 3 portfolios with different allocations turn in total return ranging from as low as -8.5% to as high as +18.5%.

|                 | Stock  |             | Allocation  |             | Port        | folio-level Re | turn        |
|-----------------|--------|-------------|-------------|-------------|-------------|----------------|-------------|
|                 | Return | Portfolio A | Portfolio B | Portfolio C | Portfolio A | Portfolio B    | Portfolio C |
| Stock 1         | 50%    | 10%         | 20%         | 5%          | 5.0%        | 10.0%          | 2.5%        |
| Stock 2         | 40%    | 10%         | 15%         | 5%          | 4.0%        | 6.0%           | 2.0%        |
| Stock 3         | 30%    | 10%         | 15%         | 5%          | 3.0%        | 4.5%           | 1.5%        |
| Stock 4         | 20%    | 10%         | 10%         | 5%          | 2.0%        | 2.0%           | 1.0%        |
| Stock 5         | 10%    | 10%         | 10%         | 10%         | 1.0%        | 1.0%           | 1.0%        |
| Stock 6         | 0%     | 10%         | 10%         | 10%         | 0.0%        | 0.0%           | 0.0%        |
| Stock 7         | -10%   | 10%         | 5%          | 10%         | -1.0%       | -0.5%          | -1.0%       |
| Stock 8         | -20%   | 10%         | 5%          | 15%         | -2.0%       | -1.0%          | -3.0%       |
| Stock 9         | -30%   | 10%         | 5%          | 15%         | -3.0%       | -1.5%          | -4.5%       |
| Stock 10        | -40%   | 10%         | 5%          | 20%         | -4.0%       | -2.0%          | -8.0%       |
| Portfolio Total |        | 100%        | 100%        | 100%        | 5.0%        | 18.5%          | -8.5%       |

#### Exhibit 1 Portfolios with the same stocks can turn in widely different returns based on allocation

Despite the above phenomenon, we are surprised to discover how little literature there is on this critical aspect of investing. Academicians tend to believe that stock allocation, even more than stock selection, borders on art rather than science, and hence, it depends to a great extent on the temperament and style of individual investment practitioners. Investment practitioners, in general, seem prone to allocate stocks more by intuition and emotion than reason.

In this study, we offer some insights on allocation, and suggest a rational approach for the same. In the following sections –

 We first analyze the only semblance of a framework for allocation – Kelly's formula – and derive from it insights for equity investing.

- Next, we suggest that the power of allocation is best exploited through Focused Investing, which essentially involves placing sizable bets on 15-20 stocks to generate exceptional (rather than acceptable) returns over the long term.
- Finally, we discuss the 4 keys to successful Focused Investing, incorporating a framework each for –
  - 1. What to buy QGLP (Quality, Growth, Longevity at favorable Price), and
  - 2. How much to buy CAP (Confidence-Adjusted Payoff).

# 2. Kelly's formula – insights for equity investing

#### Look for asymmetric payoff, Create edge, Bet big

In the mid-1950s, John Larry Kelly Jr, a scientist with Bell Labs, developed a formula for an optimal bet size on a wager with given payoffs (i.e. odds) and win-loss probabilities. The formula is as under:

# $f = (bp - q) \div b$

where: *f* is the fraction of the current bankroll to wager,

**b** is the net odds (expressed as rupees to be won for every rupee bet) or win-loss ratio,

- **p** is the probability of winning, and
- **q** is the probability of losing.

Betting this fraction repeatedly maximizes the long-term growth of the bankroll.

Example: You are offered a 100-rupee bet that every time a coin is tossed and you call heads or tails correctly, you will win 200 rupees. You have set aside 1,000 rupees for a series of bets. What should be your betting strategy?

Here, b (odds) =  $200 \div 100 = 2$ . Given a fair coin, the chances of correctly calling heads or tails is 1-in-2 i.e. 50%. Thus, p (probability of win) is 50% and q (probability of loss) is 50%. With this, the Kelly fraction works out to 25% as under:

 $f = (2 \times 0.5 - 0.5) \div 2 = 25\%$ 

Thus, you will bet 25% of 1,000, i.e. 250 rupees in your first bet. The subsequent bet size is dependent on the outcome of your first bet:

- If you win, your bankroll grows to 1,200 rupees, and your next bet size should be 25% of 1,200, i.e. 300 rupees.
- If you lose, your bankroll falls to 900 rupees, and your next bet size should be 25% of 900, i.e. 225 rupees.

For a long enough series of bets, this strategy will maximize the growth in your bankroll.

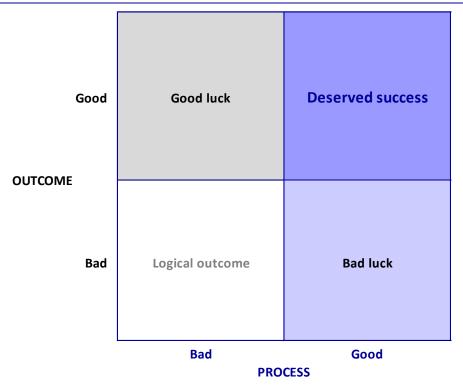
#### 2.1 Kelly's for equities: The meaning is more relevant than the math

Equity investing is starkly different from gambling in several ways.

• Odds/Payoff and Win-loss probabilities: In gambling, both the odds/payoff and the winloss probabilities are a given. In many situations, payoff is 1:1 and win-loss probability is 0.5:0.5. In cases like roulette where the payoff is higher, the probability of win is that much lower. Net-net, win or loss is purely an outcome of luck.

In contrast, in equity investing, neither payoff nor probability is fixed. Stock prices are known, but every investor has to individually estimate upside-downside and associated probabilities. Investors with superior knowledge, skills and processes can identify favorable payoff with favorable probabilities to win big.

Exhibit 2 Process-Outcome matrix: In equity investing, having a good process reduces the role of luck



- **Role of time:** In gambling, the outcome of one's bet win or loss is instantaneous. In equities, there is significant time-gap before it can be decided whether the bet was a win or a loss.
- **Nature of bets:** In gambling, bets are sequential. The outcome of one bet can influence the strategy for the next bet. In equities, investors need to make simultaneous bets on multiple stocks.

Given these differences, the mathematical relevance of Kelly is not very high in equities. And yet, two variants of the Kelly's formula offer meaningful insights for equity investing.

#### 2.1.1 Insight #1: Look for asymmetric payoff

One variant of Kelly's formula can be obtained with a suitable modification of b, i.e. odds. In gambling, odds are typically quoted as b:1, i.e. b rupees to be won for every 1 rupee bet. In

gambling, if one loses, the loss is always 100% of the amount wagered. Such is not the case in equities, where even if there is a loss, it is rarely 100% (except in case of bankruptcy).

Thus, for equities, it is better to interpret b as upside-downside ratio, say, U/D. Substituting b = U/D in Kelly's formula, we get:

$$f = (U/D \times p - q) \div (U/D)$$

This simplifies to:

$$f = (Up - Dq) \div U$$

where: **f** is the fraction of the current bankroll to invest in a stock,

U is the possible Upside in the stock,

p is the probability of such Upside,

D is the possible Downside in the stock, and

**q** is the probability of such Downside.

This variant clearly identifies the factors that should influence stock selection and allocation – Upside, Downside and the probabilities of both. The most favorable situation investors should look for is: Asymmetric payoff (high-upside-low-downside) coupled with high probability of win.

#### 2.1.2 Insight #2: Create edge

Yet another variant of Kelly is by author William Poundstone in his book, Fortune's Formula -

#### f = edge / odds

where: **f** is the fraction of the current bankroll to invest in a stock,

**edge** = bp - q or Up - Dq, i.e. the expected value of the financial proposition, and **odds** = b or U, i.e. the amount expected to win if one wins.

This variant can be interpreted both mathematically and non-mathematically. Mathematically, f is positive only when the numerator (edge or expected value) is greater than zero, i.e. no edge, no bet. In non-mathematical terms, edge may be defined as knowing something that others don't. So, here again: no edge, no bet.

As markets are fairly efficient, equity investors can expect to make big money only if they create an edge over the market. There are two sources of edge: (1) Information advantage, and (2) Analytical advantage. In modern-day markets, investors are unlikely to enjoy any significant information advantage. Hence, the main source of creating an edge is analytical advantage. This primarily includes time-tested frameworks/processes for analyzing various aspects of business and valuation – nature of industry, competitive landscape, size of opportunity, quality of management, channel checks, earnings forecasts, peer valuation, etc.

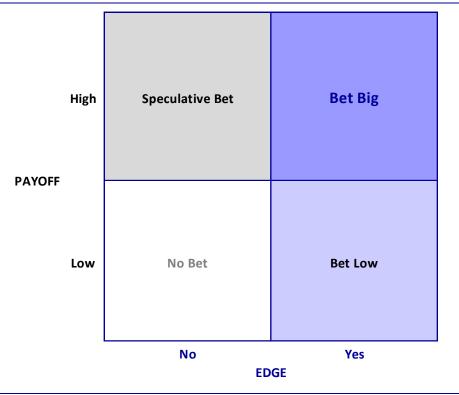
#### 2.1.3 Insight #3: Bet big

Whenever investors get an edge in asymmetric payoff situations, the Kelly message is clear: bet big.

Such opportunities for big bets come seldom; hence the need for Focused Investing.

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#### Exhibit 3 The payoff-edge decision matrix



#### 3. What is Focused Investing?

#### The golden mean of Diversified and Concentrated Investing

An extremely important aspect of investing is risk-return tradeoff. There are two contrasting investment styles around this: (1) Diversified investing, and (2) Concentrated investing.

#### 3.1 Diversified investing

The underlying strategy in diversified investing is to hold a fairly large number of stocks across many sectors so that unexpected adversity in any stock or sector does not unduly hurt overall portfolio performance.

In the active version of diversified investing, portfolio managers constantly buy and sell stocks, attempting to outperform the broader market, measured by benchmark indices such as Nifty 50, BSE Sensex, Nifty 500, etc. This involves a high level of transaction and management costs, leading to the emergence of an alternative approach – Index Investing – in the mid-1980s. Here, portfolio managers follow a relatively passive buy-and-hold strategy of the very stocks that constitute the benchmark indices. The core idea is to perform better than the actively managed funds by keeping costs very low.

The net result of both versions of diversified investing is the same – **modest returns**, typically hovering around the market average. Thus, the fully power of equity to deliver exponential returns remains unharnessed.

| Returns %     |      | Stocks in portfolio |      |      |      |      |      |      |        |
|---------------|------|---------------------|------|------|------|------|------|------|--------|
|               | 10   | 15                  | 20   | 25   | 30   | 50   | 100  | 250  | Stocks |
| Average       | 12.0 | 12.1                | 12.1 | 12.1 | 12.1 | 12.2 | 12.2 | 12.2 | 12.2   |
| Minimum       | 3.7  | 5.4                 | 5.3  | 5.9  | 7.5  | 8.1  | 10.1 | 10.7 | 12.2   |
| Maximum       | 21.3 | 20.0                | 18.7 | 17.2 | 17.3 | 15.8 | 14.8 | 13.5 | 12.2   |
| Std Deviation | 2.7  | 2.2                 | 1.9  | 1.7  | 1.5  | 1.2  | 0.8  | 0.4  | 0.0    |

Exhibit 4 Annual Return for Monte Carlo simulation portfolios in S&P Equal Weight Index (1999 to 2014): Higher the number of stocks, lower the standard deviation, and also lower the maximum return

**Source:** Adapted from the book *Concentrated Investing*, by Allan C Benello, Michael Van Biema and Tobias Carlisle

#### 3.2 Concentrated investing

Propagated by a handful of investors like John Keynes, Warren Buffett, Charlie Munger and Phil Fisher, Concentrated Investing essentially involves choosing a handful of stocks (typically not more than 10) that are expected to produce above-average returns, allocating a bulk of the portfolio to these stocks, and holding them for the long term across market cycles and fluctuations.

Concentrated investors believe that their in-depth knowledge of the businesses they buy into truly reduces the risk of owning them. In his book, *Common Stocks, Uncommon Profits*, Phil Fisher writes, "buying a company without sufficient knowledge of it may be even more dangerous than having inadequate diversification." Buffett's words in this regard are, "Diversification serves as a protection against ignorance. It you want to make sure that nothing bad happens to you relative to the market, you should own everything. There is nothing wrong with that. It's a perfectly sound approach for somebody who doesn't know how to analyze businesses."

Concentrated investors indeed tend to outperform the market significantly over the long term, but with relatively high year-to-year volatility.

| Exhibit 5 Charlie Munger's performance suggests some level of annual volatility |        |         |       |  |  |  |
|---|--------|---------|-------|--|--|--|
| %   | Return | S&P 500 | Alpha |  |  |  |
| 1962  | 30.1   | -7.6    | 37.7  |  |  |  |
| 1963  | 71.7   | 20.6    | 51.1  |  |  |  |
| 1964  | 49.7   | 18.7    | 31.0  |  |  |  |
| 1965  | 8.4    | 14.2    | -5.8  |  |  |  |
| 1966  | 12.4   | -15.8   | 28.2  |  |  |  |
| 1967  | 56.2   | 19.0    | 37.2  |  |  |  |
| 1968  | 40.4   | 7.7     | 32.7  |  |  |  |
| 1969  | 28.3   | -11.6   | 39.9  |  |  |  |
| 1970  | -0.1   | 8.7     | -8.8  |  |  |  |
| 1971  | 25.4   | 9.8     | 15.6  |  |  |  |
| 1972  | 8.3    | 18.2    | -9.9  |  |  |  |
| 1973  | -31.9  | -13.1   | -18.8 |  |  |  |
| 1974  | -31.5  | -23.1   | -8.4  |  |  |  |
| 1975  | 73.2   | 44.4    | 28.8  |  |  |  |
| CAGR  | 19.8   | 4.9     | 14.9  |  |  |  |

Exhibit 6 ... but Buffett's performance (under Buffett Partnerships) is impeccable

| %    | Return | Dow   | Alpha |
|------|--------|-------|-------|
| 1957 | 9.3    | -8.4  | 17.7  |
| 1958 | 32.2   | 38.5  | -6.3  |
| 1959 | 20.9   | 20.0  | 0.9   |
| 1960 | 18.6   | -6.2  | 24.8  |
| 1961 | 35.9   | 22.4  | 13.5  |
| 1962 | 11.9   | -7.6  | 19.5  |
| 1963 | 30.5   | 20.6  | 9.9   |
| 1964 | 22.3   | 18.7  | 3.6   |
| 1965 | 36.9   | 14.2  | 22.7  |
| 1966 | 16.8   | -15.6 | 32.4  |
| 1967 | 28.4   | 19.0  | 9.4   |
| 1968 | 45.6   | 7.7   | 37.9  |
| CAGR | 25.3   | 4.9   | 20.4  |

Source: Buffett's letters to partners

Source: Adapted from the book, Concentrated Investing

#### **3.3** Diversified v/s Concentrated Investing and the nature of capital

The nature of capital being managed seems to be a key determinant as to which of the two styles of investing will be practiced. Public money, largely in the form of open-ended mutual funds, tends to be managed based on a Diversified Investing strategy, whereas Concentrated Investing seems better suited for private / close-ended source of capital.

The obvious reason is that public money tends to be fickle and guided more by short-term performance. An open-ended mutual fund with a poor short-term performance faces the very real prospect of a run on its assets. This, in turn, makes such portfolio managers averse to short-term volatility that typically accompanies concentrated stock positions – they settle for safer but lower returns, instead.

#### 3.4 Focused Investing: The golden mean

We posit Focused Investing as the golden mean of the above two investment styles. Compared to 50+ stocks under Diversified Investing and 10 or fewer stocks under Concentrated Investing, we recommend a focused portfolio of 15-20 stocks. This offers the best of both worlds – adequate risk diversification and meaningful return magnification.

On the risk front, several studies have established that company-specific risks are sufficiently diversified by owning 15-20 stocks across sectors (depicted in Exhibit 6). Additional prudent allocation norms (e.g. not having more than 10% under any single stock) can further reduce volatility of performance.

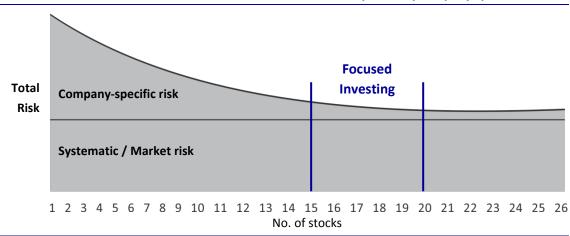


Exhibit 7 15-20 stocks from across sectors are sufficient to near-fully diversify company-specific risks

On the return front, having only 15-20 businesses allows meaningful allocations in highconviction stock ideas, magnifying overall portfolio return. An interesting 2012 study in the US showed that portfolios consisting of only the high-conviction bets of fund managers outperformed the very fund from which they were derived, and that too without significantly higher risk/volatility.

| · · · · · · · · · · · · · · · |            |            |
|-------------------------------|------------|------------|
| Portfolios                    | Return % * | Std Dev. % |
| Тор 5                         | 10.8       | 26.3       |
| Тор 10                        | 9.4        | 23.4       |
| Тор 15                        | 8.7        | 21.8       |
| Тор 20                        | 8.1        | 20.7       |
| Тор 25                        | 7.8        | 19.8       |
| Тор 30                        | 7.4        | 19.1       |
| All Funds                     | 6.3        | 19.5       |
| Own Index                     | 5.1        | 20.0       |
|                               |            |            |

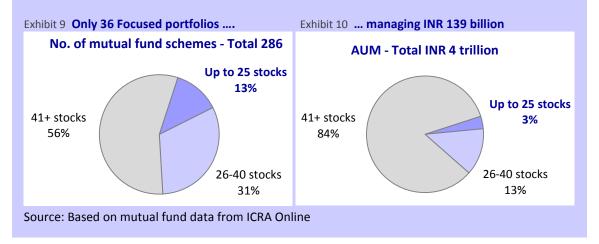
| Exhibit 8 | Portfolios of high-conviction stocks outperformed |
|-----------|---|
| the very  | portfolios from which they were carved out        |

\* 1999 to 2009

Source: Working paper Diversification versus Concentration ... and the Winner is? (Yeung et al 2012)

#### 3.5 Diversified v/s Focused Investing – The Indian scenario

The Indian mutual fund industry has about 286 schemes actively managing INR 4 trillion in assets. Diversified investing is clearly the dominant style. A high 56% of the schemes and an even higher 86% of assets are under portfolios with 41+ stocks. In contrast, only 13% of the schemes and 3% of the assets are under portfolios of 25 stocks or fewer.



#### 4. Four keys to successful Focused Investing

#### Portfolio goal, Selection, Allocation, Monitoring & Improvement

We believe there are 4 keys to successful Focused Investing:

- 1. Clear portfolio goal,
- 2. Superior stock selection,
- 3. Rational allocation, and
- 4. Active monitoring and improvement.

We discuss these below, incorporating a framework each for -

- What to buy QGLP (Quality, Growth, Longevity at favorable Price), and
- How much to buy CAP (Confidence-Adjusted Payoff).

#### 4.1 Clear portfolio goal

We believe setting a simple, clear and measurable portfolio goal should be the starting point of any investing process. A portfolio goal can be expressed in terms of absolute performance or relative to a suitable benchmark. For Focused Investing, an absolute performance goal is preferred. The portfolio goal will serve as a useful guidepost for both stock selection and stock allocation.

#### 4.2 Superior stock selection – QGLP

Having decided on the portfolio goal, the next step is superior stock selection. In Focused Investing, this is of utmost importance, as in a portfolio of 15-20 stocks, average allocation in each stock is meaningful enough to influence portfolio performance. So, investors are better off using a time-tested investment philosophy / process of stock selection. The end objective is to –

- Find asymmetric payoff (i.e. high upside potential with low downside risk),
- Create edge (i.e. have an information and/or analytical advantage over the market),
- Meet portfolio goal, and
- Diversify risk (i.e. select stocks from different sectors, not highly correlated to each other).

For most selections, we recommend a philosophy captured by the acronym QGLP -

- Q Quality of business and Quality of management,
- G Growth in earnings,
- L Longevity of Quality & Growth, and
- P favorable Price of purchase.

#### 4.2.1 Q = Quality of business x Quality of management

Expressing Quality as a product implies that if either Quality of Business or Quality of Management is zero, overall Q ends up as zero.

#### Exhibit 11 Key indicators of Q

| Quality of Business                       | Quality of Management                                      |
|---|--|
| Preferably secular business               | Unquestionable integrity                                   |
| Large profit pool                         | <ul> <li>Impeccable corporate governance</li> </ul>        |
| • Size of opportunity                     | <ul> <li>Concern for all stakeholders</li> </ul>           |
| Competitive landscape                     | <ul> <li>Preferably paying full tax and</li> </ul>         |
| – Monopoly, Oligopoly                     | a well-articulated dividend policy                         |
| <ul> <li>Dominant market share</li> </ul> | Demonstrable competence                                    |
| Niche / Strategic opportunity             | <ul> <li>Excellence in strategy &amp; execution</li> </ul> |
| Favorable demand-supply                   | <ul> <li>Sustaining competitive advantage</li> </ul>       |
| (especially in case of commodities)       | Growth mindset   |
| RoE and RoCE                              | <ul> <li>Long-range profit outlook</li> </ul>              |
| • Operating cash flow and Free cash flow  | <ul> <li>Efficient capital allocation</li> </ul>           |

Clearing the Quality filter significantly lowers risk of permanent capital loss.

#### 4.2.2 G = Growth in earnings

Growth in earnings is a key driver of value in a stock. However, growth is unique to each company, and hence, does not yield itself to any standard frameworks. Certain favorable high-growth situations include –

- Exponential opportunity in discretionary expenditure amidst linear growth in GDP
- Value Migration (from outdated business models to new ones, e.g. wired telephony to wireless)
- Sustained industry tailwind
- Small base with large opportunity
- New large investment getting commissioned
- Inorganic growth through M&A
- Consolidation of competition
- Operating & Financial leverage
- Turnaround from loss to profit

#### 4.2.3 L = Longevity of Quality & Growth

As Focused Investing is essentially a buy-and-hold strategy, selected stocks should ideally sustain their quality and growth for a long time into the future.

#### 4.2.4 P = Price (favorable)

A thorough analysis of Q-G-L will likely give investors an edge in terms of understanding the company's business, management and its earnings growth prospects. However, it is valuation analysis that will finally help investors determine whether the stock meets the portfolio goal, and decide whether it merits selection.

#### 4.3 Rational allocation – CAP

Having selected 15-20 stocks, most of which meet the portfolio goal, the next step is rational allocation of the same in a portfolio. The governing principles here are –

- Bet big when odds are strongly in favor, and at the same time,
- Increase the certainty of achieving the portfolio goal.

To achieve both these objectives, we suggest the framework **CAP** (Confidence-Adjusted **Payoff**). This framework draws inspiration from the allocation methodology pursued by Warren Buffett in managing the investment portfolio at Buffett Partnerships during the 1960s. He says, "The question always is, 'How much do I put in number one (ranked by expectation of relative performance) and how much do I put in number eight?'" (see Annexure for a fuller extract from his 1966 letter to partners on diversification and allocation).

The steps for CAP-based allocation are:

- Rank all the selected stocks in descending order of their expected 3 or 5-year upside.
- To this upside, apply a Confidence factor range from 0 to 100%. The main idea behind the Confidence factor is to deflate the expected upside for risks that may not have been explicitly captured in the upside calculations. (Note: If the Confidence factor is very low, perhaps the very selection may need to be questioned.)
- For each stock, arrive at Confidence-Adjusted Payoff (CAP) i.e. Upside x Confidence factor.
- Rank the stocks in descending order of CAP, and align the final allocation.

The more accurate the assessment of CAP, the higher will be the portfolio performance based on this allocation, rather than any other (e.g. equal weight).

Additional norms could include -

- not having any stock with allocation more than 10% of the portfolio value
- not having any stock with allocation less than 3% of the portfolio value
- not having more than 5% equity of any company

#### 4.4 Active monitoring & improvement

Having constructed the portfolio, the next step is active monitoring and improvement. This is very important, as odds on stocks change frequently due to change in underlying fundamentals, or stock price, or both.

Monitoring and improvement includes several things such as -

- estimating quarterly and annual earnings for companies in the portfolio and reviewing the actuals vis-à-vis estimates to ascertain whether the original investment thesis is on track
- staying updated on the latest developments in the company and sector, including periodic interaction with company management
- maintaining corroborative evidence on the company wherever possible, e.g. via interactions with competitors, dealers, customers, suppliers, ex-employees, etc
- watching out for irrational stock price movements, up or down, and an appropriate action plan for such cases
- constant search for investment ideas that may be superior to the ones currently held.

#### 4.5 Common mistakes of allocation

The three common mistakes of allocation to be avoided are: (1) over-allocation, (2) underallocation, and (3) overstaying with winners and losers. These mistakes can be associated with common psychological/behavioral biases as shown below.

| Al | ocation mistake          | Associated biases  |
|----|--------------------------|--|
| •  | Under-allocation         | • <b>Risk aversion:</b> People prefer to avoid or minimize uncertainty, even at the cost of lower payoff.  |
| •  | Over-allocation          | Overconfidence bias: People in general overestimate their knowledge and skills.  |
|    |                          | • <b>Confirmation bias:</b> People tend to search for and interpret information in a way that confirms one's pre-existing beliefs or hypotheses, while disregarding contrary information and alternative possibilities.            |
|    |                          | Both these biases combined are a potent recipe for over-allocation.  |
| •  | Overstaying with winners | • <b>Ownership bias:</b> Simply stated, this is the tendency to overvalue what you own simply because you own it.  |
| •  | Overstaying with losers  | • Loss aversion: People feel twice as bad about losing money as they feel about winning it. This causes investors to hold on to bad choices far too long, hoping that things will eventually improve and the loss will be avoided. |

Exhibit 12 Allocation mistakes can be traced to psychological/behavioral biases

## 5. Summary & conclusions

#### Adopt Focused Investing for exceptional rather than acceptable returns

In closing, we highlight the following points from the theme study -

- The prime focus of most investors is stock selection. In this, the power of stock allocation to enhance portfolio performance remains untapped.
- Kelly's formula offers a semblance of a framework for portfolio sizing. However, it is suited for gambling situations where payoffs and probabilities are a given. For equity investing, the takeaways from analyzing Kelly are
  - 1. Look for stocks with asymmetric payoff i.e. high upside potential with low downside risk
  - 2. Create edge i.e. have an information and/or analytical advantage over the market
  - 3. When both (1) and (2) coincide, bet big.
- As stocks markets are fairly efficient, opportunities for such big bets come seldom. Focused investing is a sound strategy to capitalize on these opportunities. By investing in 15-20 stocks with strongly favorable odds, investors can enjoy the golden mean of risk diversification and return magnification.
- We believe there are 4 keys to successful Focused Investing:
  - 1. Clear portfolio goal, which sets a guidepost for both stock selection and allocation
  - 2. Superior stock selection based on a time-tested investment philosophy or process
  - 3. Rational allocation
  - 4. Active monitoring and improvement.
- Disciplined practice of the above should lead to exceptional returns rather than acceptable returns.

#### **ANNEXURE: Warren Buffett on diversification and allocation**

(extract from letter dated 20 January 1966 to partners in Buffett Partnership Limited; key sections are highlighted in bold by us)

#### Diversification

Last year in commenting on the inability of the overwhelming majority of investment managers to achieve performance superior to that of pure chance, I ascribed it primarily to the product of: "(1) group decisions - my perhaps jaundiced view is that it is close to impossible for outstanding investment management to come from a group of any size with all parties really participating in decisions; (2) a desire to conform to the policies and (to an extent) the portfolios of other large well-regarded organizations; (3) an institutional framework whereby average is "safe" and the personal rewards for independent action are in no way commensurate with the general risk attached to such action; (4) an adherence to certain diversification practices which are irrational; and finally and importantly, (5) inertia."

This year in the material which went out in November, I specifically called your attention to a new Ground Rule reading, "7. We diversify substantially less than most investment operations. We might invest up to 40% of our net worth in a single security under conditions coupling an extremely high probability that our facts and reasoning are correct with a very low probability that anything could drastically change the underlying value of the investment."

We are obviously following a policy regarding diversification which differs markedly from that of practically all public investment operations. Frankly, there is nothing I would like better than to have 50 different investment opportunities, all of which have a mathematical expectation (this term reflects the range of all possible relative performances, including negative ones, adjusted for the probability of each - no yawning, please) of achieving performance surpassing the Dow by, say, 15 percentage points per annum. If the 50 individual expectations were not intercorelated (what happens to one is associated with what happens to the other) I could put 2% of our capital into each one and sit back with a very high degree of certainty that our overall results would be very close to such a 15 percentage point advantage.

It doesn't work that way.

We have to work extremely hard to find just a very few attractive investment situations. Such a situation by definition is one where my expectation (defined as above) of performance is **at least 10 percentage points per annum superior to the Dow**. Among the few we do find, the expectations vary substantially. The question always is, "How much do I put in number one (ranked by expectation of relative performance) and how much do I put in number eight?" This depends to a great degree on the wideness of the spread between the mathematical expectation of number one versus number eight. It also depends upon the probability that number one could turn in a really poor relative performance. Two securities could have equal mathematical expectations, but one might have .05 chance of performing 15 percentage points or more worse than the Dow, and the second might have only .01 chance of such performance. The wider range of expectation in the first case reduces the desirability of heavy concentration in it.

The above may make the whole operation sound very precise. It isn't. Nevertheless, our business is that of ascertaining facts and then applying experience and reason to such facts to reach expectations. Imprecise and emotionally influenced as our attempts may be, that is what the business is all about. The results of many years of decision-making in securities will demonstrate how well you are doing on making such calculations – whether you consciously realize you are making the calculations or not. I believe the investor operates at a distinct advantage when he is aware of what path his thought process is following.

There is one thing of which I can assure you. If good performance of the fund is even a minor objective, any portfolio encompassing one hundred stocks (whether the manager is handling one thousand dollars or one billion dollars) is not being operated logically. The addition of the one hundredth stock simply can't reduce the potential variance in portfolio performance sufficiently to compensate for the negative effect its inclusion has on the overall portfolio expectation.

Anyone owning such numbers of securities after presumably studying their investment merit (and I don't care how prestigious their labels) is following what I call the **Noah School of Investing - two of everything**. Such investors should be piloting arks. While Noah may have been acting in accord with certain time-tested biological principles, the investors have left the track regarding mathematical principles. (I only made it through plane geometry, but with one exception, I have carefully screened out the mathematicians from our Partnership.)

Of course, the fact that someone else is behaving illogically in owning one hundred securities doesn't prove our case. While they may be wrong in overdiversifying, we have to affirmatively reason through a proper diversification policy in terms of our objectives.

The optimum portfolio depends on the various expectations of choices available and the degree of variance in performance which is tolerable. The greater the number of selections, the less will be the average year-to-year variation in actual versus expected results. Also, the lower will be the expected results, assuming different choices have different expectations of performance.

I am willing to give up quite a bit in terms of leveling of year-to-year results (remember when I talk of "results," I am talking of performance relative to the Dow) in order to achieve better overall long-term performance. Simply stated, this means I am willing to concentrate quite heavily in what I believe to be the best investment opportunities recognizing very well that this may cause an occasional very sour year - one somewhat more sour, probably, than if I had diversified more. While this means our results will bounce around more, I think it also means that our long-term margin of superiority should be greater.

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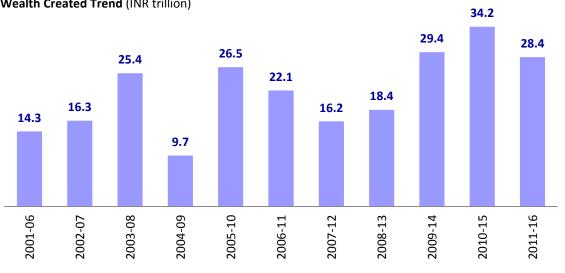
# 2011-16 Wealth Creation Study: Detailed findings

# **#1** Trend in Wealth Creation

#### INR28.4 trillion Wealth Created during 2011-16

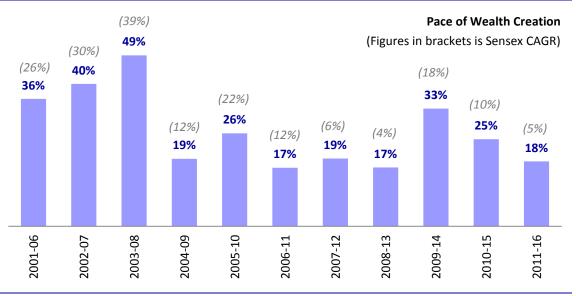
- The top 100 Wealth Creators created INR 28.4 trillion of wealth during 2011-16.
- This is the third highest ever quantum of Wealth Created.
- Pace of Wealth Creation is highly correlated to market returns. During 2011-16, pace of Wealth Creation was relatively slower at 18% CAGR given muted market CAGR of 5%.

#### Exhibit 1 During 2011-16, Wealth Created is high despite muted market performance



Wealth Created Trend (INR trillion)





#### **Key Takeaway**

#### Forget markets, think stocks

The above data proves that Wealth Creation happens in all kinds of market conditions. So, investors are better off focusing on which stocks to invest in, rather than timing the markets.

# **#2** The Biggest Wealth Creators

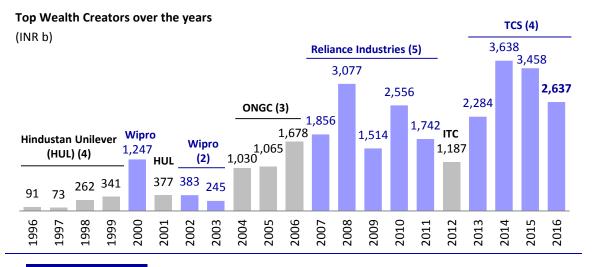
#### TCS is the Biggest Wealth Creator for the fourth time in a row

- TCS has emerged as the biggest Wealth Creator for the period 2011-16, retaining the top spot it held even in the previous three study periods (2010-15, 2009-14 and 2008-13).
- **HDFC Bank** has inched up to No.2 after 3 years of remaining No.3.
- Hindustan Unilever and ITC both clocked PAT CAGR of 14%. However, the former has pushed back ITC to No.4 on the back of massive 50% stock rerating from 30x to 46x.
- 8 of the top 10 Wealth Creators are the same as of last year. Kotak Mahindra Bank and Maruti Suzuki have entered the top 10 displacing Axis Bank and Tata Motors.

| Rank  | Company        | Wealth | Created | CAGR  | k (%) | P/E  | : (x) | RoE (%) |      |
|-------|----------------|--------|---------|-------|-------|------|-------|---------|------|
|       |                | INR b  | % share | Price | PAT   | 2016 | 2011  | 2016    | 2011 |
| 1     | TCS            | 2,637  | 9       | 16    | 22    | 21   | 26    | 37      | 37   |
| 2     | HDFC Bank      | 1,475  | 5       | 18    | 26    | 21   | 27    | 17      | 16   |
| 3     | Hind. Unilever | 1,266  | 4       | 25    | 14    | 46   | 30    | 102     | 76   |
| 4     | ITC            | 1,197  | 4       | 13    | 14    | 28   | 28    | 28      | 30   |
| 5     | Sun Pharma     | 1,169  | 4       | 30    | 24    | 38   | 26    | 16      | 19   |
| 6     | Infosys        | 948    | 3       | 9     | 15    | 20   | 27    | 24      | 26   |
| 7     | HCL Tech       | 819    | 3       | 28    | 27    | 21   | 20    | 20      | 21   |
| 8     | Kotak Mahindra | 760    | 3       | 24    | 17    | 36   | 21    | 10      | 14   |
| 9     | Maruti Suzuki  | 742    | 3       | 24    | 14    | 25   | 16    | 17      | 16   |
| 10    | HDFC           | 682    | 2       | 10    | 18    | 17   | 23    | 20      | 21   |
| Total | of Top 10      | 11,695 | 41      | 18    | 19    | 24   | 25    | 23      | 24   |
| Total | of Top 100     | 28,436 | 100     | 19    | 16    | 22   | 19    | 20      | 22   |

#### Exhibit 3 Top 10 Biggest Wealth Creators

Exhibit 4 TCS is the biggest Wealth Creator for the fourth year in a row



#### Key Takeaway

#### HDFC Bank persistently rising up the charts

HDFC Bank is climbing up the rank charts purely led by earnings growth. In fact, during 2011-16, its P/E actually fell from 27x to 21x. In the last 3 studies, TCS's Wealth Created has fallen from INR 3.6 trillion to INR 2.6 trillion. In contrast, HDFC Bank's Wealth Created is up from INR 1.3 trillion to INR 1.5 trillion.

## **#3** The Fastest Wealth Creators

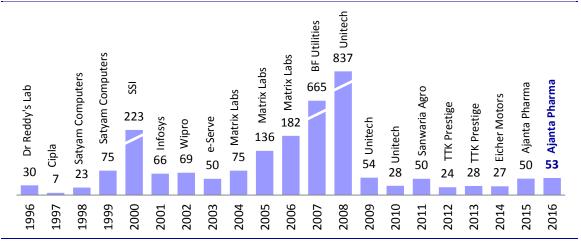
#### Ajanta Pharma is the Fastest Wealth Creator again

- Ajanta Pharma has emerged as the Fastest Wealth Creator for the second time in a row, with 2011-16 stock price multiplier of 53x (121% CAGR).
- Eicher Motors is among the top 10 Fastest Wealth Creators for the last 5 studies.
- Except Welspun which is virtually a turnaround case, all the other 9 Fastest Wealth Creators have seen massive P/E re-rating on the back of hyper earnings growth.
- The base 2011 market cap of 7 stocks was less than INR 20 billion, including 6 of them in single-digit billion.

| Rank | Company              | Price Appn. | CAGR  | R (%) | Mkt Cap | (INR b) | P/E (x) |      |
|------|----------------------|-------------|-------|-------|---------|---------|---------|------|
|      |                      | (x)         | Price | PAT   | 2016    | 2011    | 2016    | 2011 |
| 1    | Ajanta Pharma        | 53          | 121   | 52    | 124     | 2       | 31      | 5    |
| 2    | Welspun India        | 23          | 88    | 234   | 100     | 4       | 14      | 226  |
| 3    | Eicher Motors        | 14          | 70    | 48    | 520     | 36      | 42      | 20   |
| 4    | Kajaria Ceramics     | 13          | 66    | 30    | 76      | 6       | 33      | 9    |
| 5    | Vakrangee            | 11          | 63    | 52    | 105     | 8       | 27      | 17   |
| 6    | Bajaj Finance        | 10          | 59    | 39    | 373     | 26      | 29      | 10   |
| 7    | P I Industries       | 10          | 58    | 37    | 78      | 7       | 25      | 10   |
| 8    | Symphony             | 9           | 56    | 15    | 83      | 9       | 77      | 17   |
| 9    | Amara Raja Batteries | 9           | 56    | 27    | 150     | 16      | 31      | 11   |
| 10   | Aurobindo Pharma     | 8           | 50    | 28    | 436     | 57      | 22      | 10   |

#### Exhibit 5 Top 10 Fastest Wealth Creators (2011-16)





#### Key Takeaway

#### Small size + Scalability + Sound management = Superior Wealth Creation

All the Fastest Wealth Creators were small in the base year (i.e. 2011) and operating in a large sector (e.g. pharmaceuticals, finance, autos) or scalable niche (air-coolers, ceramic tiles). Under a sound management, such companies are able to clock a scorching pace of earnings growth. This in turn also drives up valuations, leading to superior Wealth Creation.

# **#4** The Most Consistent Wealth Creators

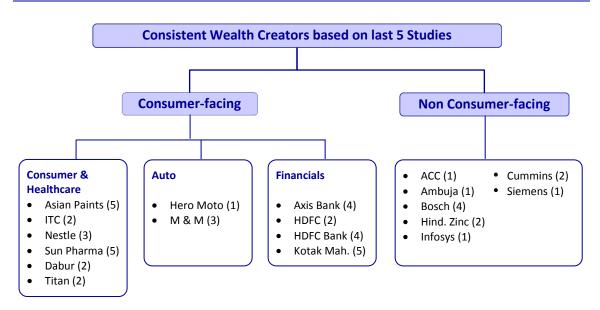
#### Asian Paints is the Most Consistent Wealth Creator

- Asian Paints is the Most Consistent Wealth Creator over the 10-year period 2006-16, by virtue of –
  - 3. Appearing among top 100 Wealth Creators in each of the last 10 studies; and
  - 4. Highest 10-year Price CAGR of 30%.
- 8 of the top 10 Most Consistent Wealth Creators are consumer-facing companies, with Bosch and Cummins India the only exceptions.

|      |                | Appeared in  | red in 10-yr Price 10-yr PAT P/E (x) Ro |          | Rol  | E (%) |      |      |
|------|----------------|--------------|---|----------|------|-------|------|------|
| Rank | Company        | WC Study (x) | CAGR (%)                                | CAGR (%) | 2016 | 2006  | 2016 | 2006 |
| 1    | Asian Paints   | 10           | 30                                      | 23       | 48   | 29    | 31   | 31   |
| 2    | Kotak Mahindra | 10           | 26                                      | 23       | 36   | 20    | 10   | 24   |
| 3    | Sun Pharma     | 10           | 25                                      | 25       | 38   | 30    | 16   | 41   |
| 4    | Titan Company  | 10           | 23                                      | 24       | 44   | 45    | 20   | 47   |
| 5    | Bosch          | 10           | 22                                      | 14       | 53   | 27    | 15   | 24   |
| 6    | HDFC Bank      | 10           | 21                                      | 31       | 21   | 28    | 17   | 16   |
| 7    | Axis Bank      | 10           | 20                                      | 33       | 13   | 20    | 16   | 18   |
| 8    | Dabur India    | 10           | 20                                      | 19       | 36   | 32    | 30   | 49   |
| 9    | Nestle India   | 10           | 17                                      | 11       | 63   | 29    | 32   | 92   |
| 10   | Cummins India  | 10           | 17                                      | 15       | 32   | 26    | 22   | 23   |

#### Exhibit 7 Top 10 Most Consistent Wealth Creators





NOTE: Bracket indicates number of times appeared within top 10 in last 5 Wealth Creation Studies

#### Key Takeaway

#### Strong discretionary brand = Consistent Wealth Creation

Strong brands in basic goods (e.g. Colgate) fail to feature among Consistent Wealth Creators given the missing element of growth. In contrast, discretionary brands like Asian Paints enjoy steady growth, translating to Consistent Wealth Creation, fairly agnostic to purchase price.

# **#5** Wealth Creators Index (Wealthex) v/s BSE Sensex

#### Superior earnings and price performance over benchmark

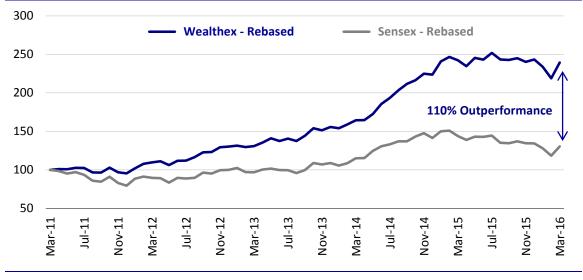
We compare Wealthex (top 100 Wealth Creators Market Cap index) with the BSE Sensex on 3 parameters - (1) market performance, (2) earnings growth and (3) valuation.

- Market performance: Over 2011-16, Wealth Creating companies have delivered return CAGR of 19% v/s 5% for the BSE Sensex. March 2016 over March 2011, Wealthex is up 140% whereas the Sensex is up 30% i.e. 110% outperformance over 5 years.
- Earnings growth: Wealthex clocked 5-year earnings CAGR of 13% v/s 5% for BSE Sensex. Further, YoY earnings growth for Wealthex is higher for every year except 2011.
- Valuation: Wealthex P/E has seen a marginal re-rating vis-à-vis the Sensex. Thus, the 14pp outperformance of Wealthex is explained largely by the 8pp higher earnings CAGR.

|                            | Mar-11 | Mar-12 | Mar-13 | Mar-14 | Mar-15 | Mar-16 | 5 Year   |
|----------------------------|--------|--------|--------|--------|--------|--------|----------|
|                            |        |        |        |        |        |        | CAGR (%) |
| BSE Sensex                 | 19,445 | 17,404 | 18,836 | 22,386 | 27,957 | 25,342 | 5        |
| YoY (%)                    |        | -10    | 8      | 19     | 25     | -9     |          |
| Wealthex - based to Sensex | 19,445 | 21,323 | 25,455 | 31,956 | 47,123 | 46,573 | 19       |
| YoY (%)                    |        | 10     | 19     | 26     | 47     | -1     |          |
| Sensex EPS (INR)           | 1,024  | 1,120  | 1,181  | 1,337  | 1,356  | 1,330  | 5        |
| YoY (%)                    |        | 9      | 5      | 13     | 1      | -2     |          |
| Wealthex EPS (INR)         | 1,120  | 1,147  | 1,376  | 1,580  | 1,840  | 2,084  | 13       |
| YoY (%)                    |        | 2      | 20     | 15     | 16     | 13     |          |
| Sensex PE (x)              | 19     | 16     | 16     | 17     | 21     | 19     | 0        |
| Wealthex PE (x)            | 17     | 19     | 19     | 20     | 26     | 22     | 5        |

Exhibit 9 Wealthex v/s Sensex: Superior market performance on the back of higher earnings growth

Exhibit 10 Wealthex invariably outperforms benchmark indices handsomely



#### Key Takeaway

#### "What not to buy" is as important as "What to buy"

Of the 30 Sensex stocks in 2011, as many as 18 underperformed over the next 5 years, down an average 12% CAGR. If an investor had avoided these and only bought the remaining 12, the average return CAGR would be 14%, handsomely higher than the Sensex's 5%.

# **#6** Wealth Creation: Sector analysis

#### Consumer/Retail is the biggest Wealth Creating sector again

- Consumer/Retail has emerged as India's biggest Wealth Creating sector for the second consecutive time, and the third time in the last four years.
- Deep cyclicals (Metals/Mining, Oil & Gas, Capital Goods) have significantly lost out to secular and quasi-secular sectors.
- Wealth Creation was highly concentrated top 5 sectors accounted for 74% of Wealth Creators and 85% of Wealth Created.

| Sector               | WC      | Share of | WC % | CAGR 11- | 16 (%) | P/E  | (x)  | RoE ( | %)   |
|----------------------|---------|----------|------|----------|--------|------|------|-------|------|
| (No of companies)    | (INR b) | 2016     | 2011 | Price    | PAT    | 2016 | 2011 | 2016  | 2011 |
| Consumer/Retail (23) | 6,364   | 22       | 8    | 21       | 15     | 38   | 30   | 31    | 32   |
| Banking/Finance (14) | 4,995   | 18       | 24   | 20       | 19     | 19   | 18   | 16    | 19   |
| Technology (7)       | 4,960   | 17       | 14   | 16       | 20     | 20   | 24   | 28    | 29   |
| Auto (15)            | 4,093   | 14       | 5    | 20       | 10     | 20   | 13   | 19    | 32   |
| Healthcare (15)      | 3,705   | 13       | 4    | 25       | 18     | 30   | 22   | 18    | 18   |
| Cement (5)           | 1,266   | 4        | 1    | 20       | 3      | 35   | 16   | 9     | 14   |
| Oil & Gas (3)        | 670     | 2        | 14   | 21       | 26     | 8    | 10   | 27    | 14   |
| Capital Goods (4)    | 513     | 2        | 7    | 16       | 11     | 33   | 26   | 17    | 18   |
| Telecom & Media (2)  | 394     | 1        | 3    | 17       | 19     | 21   | 23   | 13    | 10   |
| Metals / Mining (2)  | 289     | 1        | 15   | 7        | 7      | 11   | 12   | 16    | 17   |
| Utility (1)          | 203     | 1        | 3    | 9        | 18     | 12   | 18   | 14    | 12   |
| Others (9)           | 984     | 3        | 3    | 21       | 17     | 25   | 21   | 19    | 19   |
| Total                | 28,436  | 100      | 100  | 19       | 16     | 22   | 19   | 20    | 22   |

#### Exhibit 11 Consumer/Retail is the top Wealth Creating sector



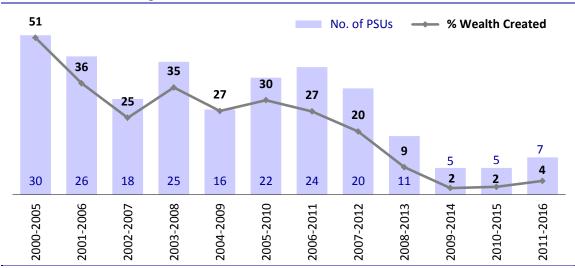
#### Key Takeaway

**Value Migration is increasingly becoming the key driver of rapid Wealth Creation** Three of the top 5 Wealth Creating sectors – Financials, Technology and Healthcare – are beneficiaries of Value Migration i.e. flow of value from outmoded business designs to new business designs. In Financials, value is migrating from public sector banks to private banks. In Technology and Healthcare, value is migrating from developed world to emerging markets.

# **#7** Wealth Creation: Ownership – Private v/s PSU

#### **PSUs remain insignificant in Wealth Creation**

- PSUs' (public sector undertakings) Wealth Creation performance continues to be dismal during 2011-16:
  - The number of PSUs in the top 100 Wealth Creators is only 7.
  - Wealth Created by these 7 PSUs is 4%, marginally higher than the previous two studies.
- The 7 Wealth Creating PSUs are BPCL, HPCL, Petronet LNG, Concor, LIC Housing, Bharat Electronics and Power Grid Corporation.
- Average Price CAGR of PSU Wealth Creators is 15% v/s 19% for private sector counterparts.

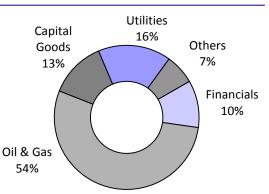


#### Exhibit 13 PSUs remain insignificant in Wealth Creation

# Exhibit 14 Robust PAT CAGR of 20% is the key driver of Wealth Creation for the 7 PSUs

|                                   | 2011-2016 |         |  |
|-----------------------------------|-----------|---------|--|
|                                   | PSU       | Private |  |
| No. of Wealth Creators in Top 100 | 7         | 93      |  |
| Share of Wealth Created (%)       | 4         | 96      |  |
| 5-year Sales CAGR (%)             | 7         | 18      |  |
| 5-year PAT CAGR (%)               | 20        | 16      |  |
| 5-year Price CAGR (%)             | 15        | 19      |  |
| P/E - 2011 (x)                    | 13        | 20      |  |
| P/E - 2016 (x)                    | 11        | 24      |  |
| RoE - 2011 (%)                    | 14        | 23      |  |
| RoE - 2016 (%)                    | 20        | 20      |  |

# Exhibit 15 3 of the 7 PSU Wealth Creators are from Oil & Gas (BPCL, HPCL, Petronet LNG)



#### Key Takeaway

# **Can industrial recovery and government focus lead to mean reversion for PSUs?** Fortunes of many PSUs hinge on performance of the economy, especially the industrial sector – Coal India, BHEL, SBI, SAIL, etc. Measures to boost industrial recovery – "Make in India", rate cuts – bode well for the fortunes of such PSUs. Further, the government too is focused on reviving PSUs e.g. merger of SBI associate banks. These, coupled with low valuations of PSUs, hold the potential to trigger mean reversion in Wealth Creation by PSUs.

# **#8** Wealth Creation: Market Cap Rank Analysis

In our 2015 Wealth Creation Study, we called large, mid and small cap stocks as **Mega**, **Mid** and **Mini**, defined as under:

- Mega Top 100 stocks by market cap rank for any given year
- Mid Next 200 stocks by market cap rank
- Mini All stocks below the top 300 ranks.

Market cap ranks of companies change constantly. Over time, companies also cross over from one category to another. For the period 2011-16, the market cap crossover matrix stands as under –

|   | Mini               | Mid              | Mega             | New | Demerger | TOTAL |
|---|--------------------|------------------|------------------|-----|----------|-------|
| <b>TO (in 2016)</b><br>Mega<br>Avg Return | 0                  | 26<br>31%        | 71<br>8%         | 3   | 0        | 100   |
| <b>Mid</b><br>Avg Return                  | 67<br>39%          | 88<br>9%         | 25<br>-16%       | 19  | 1        | 200   |
| <b>Mini</b><br>Avg Return                 | 2,479<br>1%        | 84<br>-20%       | 2<br>-32%        | 711 | 2        | 3,278 |
| Delisted,<br>Demerger, etc                | 397                | 2                | 2                | 2   | -3       | 400   |
| TOTAL<br>Avg Return                       | 2,943<br><i>2%</i> | 200<br><i>0%</i> | 100<br><i>1%</i> | 735 | 0        | 3,978 |

#### FROM (in 2011)

We analyzed the 3 positive crossovers -

- 1. Mini-to-Mega
- 2. Mini-to-Mid and
- 3. Mid-to-Mega.

#### 8.1 Mini-to-Mega: No companies

During 2011-16, there was no company which moved from Mini to Mega.

#### 8.2 Mini-to-Mid: 67 companies, 39% average Price CAGR

- During 2011-16, 67 companies crossed over from Mini to Mid category, generating an average return CAGR of 39%, v/s 5% for the Sensex.
- Of these 67 Mini-to-Mid stocks, 15 feature in our list of 100 Biggest Wealth Creators.
- 7 of the top 10 fastest Wealth Creators are featured in the list.

|                   | Mkt Ca | ap Rank | Price  | WC      | Rank    | PAT    | P/E  | (x)  |
|-------------------|--------|---------|--------|---------|---------|--------|------|------|
|                   | 2016   | 2011    | CAGR % | Biggest | Fastest | CAGR % | 2016 | 2011 |
| Ajanta Pharma     | 127    | 910     | 121    | 68      | 1       | 52     | 31   | 5    |
| Welspun India     | 153    | 728     | 88     | 81      | 2       | 234    | 14   | 226  |
| Kajaria Ceramics  | 190    | 606     | 66     | 100     | 4       | 30     | 33   | 9    |
| Vakrangee         | 148    | 520     | 63     | 83      | 5       | 52     | 27   | 17   |
| P I Inds          | 186    | 567     | 58     | 99      | 7       | 37     | 25   | 10   |
| Symphony          | 175    | 510     | 56     | 95      | 8       | 15     | 77   | 14   |
| Amara Raja        | 113    | 386     | 56     | 59      | 9       | 27     | 31   | 11   |
| Page Industries   | 122    | 359     | 50     | 72      | 11      | 32     | 58   | 31   |
| GRUH Finance      | 172    | 436     | 46     | 94      | 13      | 22     | 36   | 14   |
| Mindtree          | 144    | 388     | 46     | 84      | 14      | 42     | 18   | 15   |
| WABCO India       | 132    | 338     | 43     | 78      | 16      | 9      | 60   | 15   |
| Blue Dart Express | 117    | 304     | 43     | 69      | 17      | 15     | 75   | 29   |
| Supreme Inds      | 160    | 351     | 38     | 92      | 23      | 3      | 42   | 12   |
| Cholamandalam Inv | 139    | 327     | 33     | 90      | 27      | 49     | 19   | 27   |
| Abbott India      | 152    | 355     | 28     | 98      | 36      | 34     | 39   | 29   |

Exhibit 17 Mini to Mid (2011 16), 15 of 67 Mini to Mid stocks footu 

\* 2011-16 Wealth Creation Rank

#### 8.3 Mid-to-Mega: 26 companies, 31% average Price CAGR

- During 2011-16, 26 companies crossed over from Mid to Mega (listed on next page).
- All the 26 made it to this year's list of 100 Biggest Wealth Creators.
- The Mid-to-Mega portfolio delivered average return CAGR of 31% over 2011-16 v/s 5% for Sensex.

|                   | Mkt Ca | ip Rank | Price  | WC F    | lank *  | PAT    | P/E  | (x)  |
|-------------------|--------|---------|--------|---------|---------|--------|------|------|
|                   | 2016   | 2011    | CAGR % | Biggest | Fastest | CAGR % | 2016 | 2011 |
| Eicher Motors     | 36     | 222     | 70     | 13      | 3       | 48     | 42   | 19   |
| Bajaj Finance     | 49     | 282     | 59     | 23      | 6       | 39     | 29   | 10   |
| Aurobindo Pharma  | 43     | 166     | 50     | 19      | 10      | 28     | 22   | 10   |
| Britannia Inds    | 59     | 188     | 48     | 25      | 12      | 46     | 40   | 37   |
| Shree Cement      | 44     | 139     | 43     | 21      | 18      | 16     | 96   | 34   |
| Rajesh Exports    | 99     | 244     | 42     | 50      | 19      | 34     | 17   | 13   |
| Torrent Pharma    | 83     | 177     | 36     | 43      | 24      | 46     | 13   | 18   |
| Havells India     | 94     | 181     | 34     | 48      | 25      | 15     | 33   | 15   |
| Motherson Sumi    | 55     | 126     | 33     | 28      | 26      | 27     | 28   | 22   |
| Pidilite Inds     | 65     | 135     | 32     | 35      | 29      | 20     | 41   | 25   |
| Ashok Leyland     | 64     | 136     | 31     | 34      | 31      | 11     | 30   | 12   |
| Marico            | 60     | 122     | 28     | 36      | 37      | 23     | 44   | 34   |
| Emami             | 89     | 157     | 28     | 51      | 38      | 12     | 52   | 27   |
| P & G Hygiene     | 92     | 162     | 28     | 54      | 39      | 23     | 48   | 42   |
| Bajaj Finserv     | 72     | 134     | 27     | 42      | 42      | 13     | 15   | 8    |
| UPL               | 90     | 146     | 26     | 52      | 44      | 19     | 15   | 13   |
| Divi's Labs       | 77     | 116     | 24     | 44      | 53      | 21     | 23   | 21   |
| Tech Mahindra     | 40     | 123     | 23     | 32      | 56      | 26     | 15   | 9    |
| Apollo Hospitals  | 98     | 161     | 23     | 70      | 57      | 11     | 58   | 32   |
| Glenmark Pharma   | 86     | 133     | 23     | 57      | 58      | 10     | 31   | 17   |
| Yes Bank          | 51     | 103     | 23     | 37      | 59      | 28     | 14   | 15   |
| GlaxoSmith. Cons. | 79     | 109     | 22     | 46      | 60      | 18     | 37   | 33   |
| Bharat Forge      | 93     | 128     | 20     | 67      | 62      | 18     | 31   | 28   |
| LIC Housing       | 80     | 104     | 17     | 61      | 69      | 12     | 15   | 11   |
| Petronet LNG      | 96     | 114     | 16     | 80      | 71      | 7      | 22   | 15   |
| Castrol India     | 97     | 102     | 11     | 91      | 85      | 5      | 35   | 23   |
| Average           |        |         | 31     |         |         | 22     | 25   | 17   |

Exhibit 18 Mid-to-Mega (2011-16): 26 companies, 31% average Price CAGR v/s 5% for Sensex

\* 2011-16 Wealth Creation Rank

#### Key Takeaway

#### Mid category: A good place to hunt for Wealth Creators

The Mid-to-Mega portfolio of 26 stocks has handsomely outperformed the benchmark. The high success rate of 13% (26 of 200) makes the Mid category a good place to hunt for Wealth Creators.

# **#9** Wealth Creation: Valuation parameters analysis

#### Payback ratio < 1 offers distinctly superior returns

- The general rule of low valuation, high returns held true in 2011-16.
- Every study invariably suggests that the highest return is generated when payback ratio is less than 1x. Seven of the top 10 fastest Wealth Creators had payback ratio of less than 1x in the base year 2011.

(Payback is a proprietary ratio of Motilal Oswal, defined as current market cap divided by estimated profits over the next five years. For 2011, we calculate this ratio based on the actual profits reported over the next five years).

#### Range No. of WC % Share CAGR (%) RoE (%) in 2011 Cos. (INR b) of WC Price PAT P/E <10 2,047 10-20 7,055 20-30 16,923 > 30 2,410 Total 28,436 **Price / Book** < 2 2,197 ( 2-3 4,603 3-4 3,810 4-5 5,003 > 5 12,822 Total 28,436 **Price / Sales** <1 4,228 1-2 3,140 2-3 3,985 3-4 5,926 >4 11,156 Total 28,436 **Payback ratio** < 1 1,956 1-2 5,706 2-3 12,718 > 3 8,056 Total 28,436

#### Exhibit 19 Payback ratio less than 1x remains a sure shot formula for multi-baggers

# **#10** Those who missed the list

#### The big who didn't beat the market

- During 2011-16, the Sensex return CAGR was 5.4%.
- 5 companies Wipro, Indian Oil, Larsen & Toubro, ICICI Bank, Siemens created enough wealth to qualify among the 100 biggest, but failed to make it to the final list as their stock price return was lower than the Sensex.
- They made way for 5 others to join the list Wockhardt, Ramco Cement, Abbott India, P I Industries and Kajaria Ceramics.

| Exhibit 20 Tho | se who mis | ssed the list |              | Exhibit 21 and | those who | made it  |      |
|----------------|------------|---------------|--------------|----------------|-----------|----------|------|
|                | WC *       | Price         | Potential    |                | WC *      | Price    | Size |
|                | (INR b)    | CAGR (%)      | Size Rank ** |                | (INR b)   | CAGR (%) | Rank |
| Wipro          | 234        | 3.3           | 33           | Wockhardt      | 72        | 25       | 96   |
| IOCL           | 144        | 3.3           | 57           | Ramco Cem.     | 71        | 32       | 97   |
| L & T          | 114        | 2.0           | 76           | Abbott India   | 70        | 28       | 98   |
| ICICI Bank     | 86         | 1.2           | 90           | P I Inds       | 70        | 58       | 99   |
| Siemens        | 78         | 4.5           | 96           | Kajaria Cera.  | 69        | 66       | 100  |
|                |            |               |              |                |           |          |      |

\* - Wealth Created; \*\* Size rank had the stock outperformed the benchmark

#### The fast who didn't make it big

- The 100th biggest Wealth Creator created Wealth of INR 69 billion. Over a 100 more companies beat the benchmark return CAGR 5.4% but created absolute wealth less than INR 69 billion.
- The table below lists the top 20 among them.

#### Exhibit 22 The fast who didn't make it big

|                    | Price    | Price            | Wealth Created |
|--------------------|----------|------------------|----------------|
|                    | CAGR (%) | Appreciation (x) | (INR b)        |
| Solar Industries   | 43       | 5.9              | 52             |
| J K Cements        | 37       | 4.8              | 37             |
| Balkrishna Inds    | 36       | 4.7              | 49             |
| Fag Bearings       | 36       | 4.6              | 50             |
| Dalmia Bharat      | 34       | 4.3              | 49             |
| Finolex Industries | 33       | 4.2              | 34             |
| Persistent Systems | 33       | 4.2              | 47             |
| SRF                | 33       | 4.1              | 57             |
| SPARC              | 33       | 4.1              | 54             |
| Hexaware Tech      | 32       | 4.1              | 62             |
| Arvind             | 32       | 4.0              | 54             |
| Bajaj Corp         | 31       | 3.9              | 42             |
| Honeywell Auto     | 31       | 3.8              | 56             |
| Force Motors       | 29       | 3.6              | 27             |
| ICRA               | 29       | 3.6              | 28             |
| Thomas Cook (I)    | 29       | 3.6              | 40             |
| Aegis Logistics    | 27       | 3.4              | 23             |
| Sundram Fasteners  | 27       | 3.3              | 25             |
| Entertain. Network | 25       | 3.1              | 25             |
| Capital First      | 25       | 3.1              | 25             |

# **#11** Wealth Destruction: Companies & Sectors

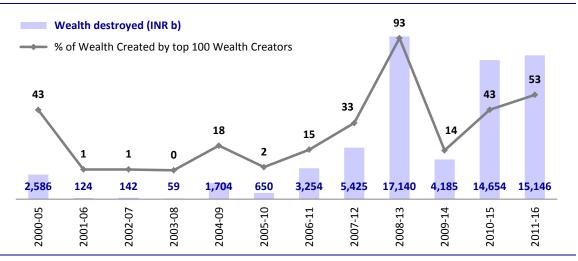
#### The Commodity Collapse Continues

- The total Wealth Destroyed during 2011-16 is INR 15 trillion, 53% of the total Wealth Created by top 100 companies.
- 7 of the top 10 Wealth Destroyers are in the business of global commodities.
- The broader theme of Wealth Destruction is cyclical downturn. Metals / Mining is the biggest Wealth Destroying sector as was the case last year. This is followed by Banking & Finance, which mainly includes state-owned banks at the wrong end of the NPA cycle. Capital Goods and Construction / Real Estate also corroborate the cyclical downturn theme.

| Exhibit 23                        | ning ton 1 |         | atuovous list |
|-----------------------------------|------------|---------|---------------|
| Global commodity compa<br>Company | Wealth [   | Price   |               |
|                                   | INR b      | % Share | CAGR (%)      |
| MMTC                              | 889        | 6       | -47           |
| NMDC                              | 735        | 5       | -19           |
| BHEL                              | 730        | 5       | -23           |
| O N G C                           | 645        | 4       | -6            |
| Jindal Steel                      | 592        | 4       | -39           |
| Vedanta                           | 570        | 4       | -21           |
| State Bank of India               | 542        | 4       | -7            |
| NTPC                              | 529        | 3       | -8            |
| SAIL                              | 524        | 3       | -24           |
| Coal India                        | 348        | 2       | -3            |
| Total of above                    | 6,104      | 40      |               |
| <b>Total Wealth Destroyed</b>     | 15,146     | 100     |               |

| Exhibit 24<br>The usual suspects at t | the sector leve                | el too     |
|---------------------------------------|--------------------------------|------------|
| Sector                                | Wealth<br>Destroyed<br>(INR b) | %<br>Share |
| Metals / Mining                       | 5,058                          | 33         |
| Banking & Finance                     | 2,991                          | 20         |
| Utilities                             | 1,555                          | 10         |
| Capital Goods                         | 1,393                          | 9          |
| Oil & Gas                             | 1,256                          | 8          |
| Constn. / Real Est.                   | 1,012                          | 7          |
| Technology                            | 301                            | 2          |
| Chemicals & Fert.                     | 295                            | 2          |
| Telecom                               | 214                            | 1          |
| Others                                | 1,071                          | 7          |
| Total                                 | 15,146                         | 100        |

#### Exhibit 25 Level of Wealth Destruction continues to climb



#### Key Takeaway

#### Cyclicals – When to Sell as important as When to Buy

Investing in secular stocks and investing in cyclical stocks are best treated as two distinct investment styles. In both cases, When to Buy is important. However, when investing in cyclical stocks, When to Sell is as important if not more. Failure to sell at the peak of the cycle will most likely lead to a prolonged period of underperformance.

# Appendix 1: MOSL 100: Biggest Wealth Creators (2011-2016)

| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22   | TCSHDFC BankHind. UnileverITCSun PharmaInfosysHCL TechnologiesKotak Mahindra BankMaruti SuzukiH D F CAsian PaintsUltraTech CementEicher MotorsLupinBoschB P C LAxis BankIndusInd BankAurobindo PharmaTata Motors   | INR b           2,637           1,475           1,266           1,197           1,169           948           819           760           742           682           591           574           484           480           443           428           401           380 | Share (%)         9.3         5.2         4.5         4.2         4.1         3.3         2.9         2.7         2.6         2.4         2.1         2.0         1.7         1.6         1.5 | Price           16           18           25           13           30           9           28           24           10           28           23           70           29           25 | PAT<br>22<br>26<br>14<br>14<br>24<br>15<br>27<br>17<br>17<br>14<br>18<br>16<br>10<br>48<br>21 | Sales           24           26           11           12           38           18           14           28           10           16           13           29 | 2016           37           17           102           28           16           24           20           10           17           20           31           10           36 | <b>2011</b> 37 16 76 30 19 26 21 14 16 21 38 13  | <b>2016</b> 21 21 46 28 38 20 21 36 25 17 48 40                | 2011<br>26<br>27<br>30<br>28<br>26<br>27<br>20<br>21<br>16<br>23<br>29<br>23 |
|--|--|---|---|--|---|---|--|--|--|--|
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22   | HDFC BankHind. UnileverITCSun PharmaInfosysHCL TechnologiesKotak Mahindra BankMaruti SuzukiH D F CAsian PaintsUltraTech CementEicher MotorsLupinBoschB P C LAxis BankIndusInd BankAurobindo PharmaTata Motors  | 1,475<br>1,266<br>1,197<br>1,169<br>948<br>819<br>760<br>742<br>682<br>591<br>574<br>484<br>480<br>443<br>428<br>401  | 5.2<br>4.5<br>4.2<br>4.1<br>3.3<br>2.9<br>2.7<br>2.6<br>2.4<br>2.1<br>2.0<br>1.7<br>1.7<br>1.6<br>1.5   | 18<br>25<br>13<br>30<br>9<br>28<br>24<br>24<br>24<br>24<br>10<br>28<br>23<br>70<br>29  | 26<br>14<br>14<br>24<br>15<br>27<br>17<br>14<br>18<br>16<br>10<br>48                          | 26<br>11<br>12<br>38<br>18<br>14<br>28<br>10<br>16<br>16<br>16<br>13<br>29  | 17<br>102<br>28<br>16<br>24<br>20<br>10<br>17<br>20<br>31<br>10  | 16         76         30         19         26         21         14         16         21         38         13 | 21<br>46<br>28<br>38<br>20<br>21<br>36<br>25<br>17<br>48<br>40 | 27<br>30<br>28<br>26<br>27<br>20<br>21<br>16<br>23<br>29<br>23               |
| 3<br>4<br>5<br>6<br>7<br>8<br>9<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22   | Hind. Unilever<br>ITC<br>Sun Pharma<br>Infosys<br>HCL Technologies<br>Kotak Mahindra Bank<br>Maruti Suzuki<br>H D F C<br>Asian Paints<br>UltraTech Cement<br>Eicher Motors<br>Lupin<br>Bosch<br>B P C L<br>Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors | 1,266<br>1,197<br>1,169<br>948<br>819<br>760<br>742<br>682<br>591<br>574<br>484<br>480<br>443<br>428<br>401   | 4.5<br>4.2<br>4.1<br>3.3<br>2.9<br>2.7<br>2.6<br>2.4<br>2.1<br>2.0<br>1.7<br>1.7<br>1.7<br>1.6<br>1.5   | 25<br>13<br>30<br>9<br>28<br>24<br>24<br>24<br>10<br>28<br>23<br>70<br>29  | 14<br>14<br>24<br>15<br>27<br>17<br>14<br>18<br>16<br>10<br>48                                | 11<br>12<br>38<br>18<br>14<br>28<br>10<br>16<br>16<br>13<br>29  | 102           28           16           24           20           10           17           20           31           10   | 76<br>30<br>19<br>26<br>21<br>14<br>16<br>21<br>38<br>13   | 46<br>28<br>38<br>20<br>21<br>36<br>25<br>17<br>48<br>40       | 30<br>28<br>26<br>27<br>20<br>21<br>16<br>23<br>29<br>23                     |
| 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22   | ITC<br>Sun Pharma<br>Infosys<br>HCL Technologies<br>Kotak Mahindra Bank<br>Maruti Suzuki<br>H D F C<br>Asian Paints<br>UltraTech Cement<br>Eicher Motors<br>Lupin<br>Bosch<br>B P C L<br>Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors                   | 1,197<br>1,169<br>948<br>819<br>760<br>742<br>682<br>591<br>574<br>484<br>480<br>443<br>428<br>401  | 4.2<br>4.1<br>3.3<br>2.9<br>2.7<br>2.6<br>2.4<br>2.1<br>2.0<br>1.7<br>1.7<br>1.6<br>1.5   | 13<br>30<br>9<br>28<br>24<br>24<br>10<br>28<br>23<br>70<br>29  | 14<br>24<br>15<br>27<br>17<br>14<br>18<br>16<br>10<br>48                                      | 12<br>38<br>18<br>14<br>28<br>10<br>16<br>16<br>13<br>29  | 28<br>16<br>24<br>20<br>10<br>17<br>20<br>31<br>10   | 30<br>19<br>26<br>21<br>14<br>16<br>21<br>38<br>13   | 28<br>38<br>20<br>21<br>36<br>25<br>17<br>48<br>40             | 28<br>26<br>27<br>20<br>21<br>16<br>23<br>29<br>23                           |
| 5         6         7         8         9         10         11         12         13         14         15         16         17         18         19         20         21         22 | Sun Pharma<br>Infosys<br>HCL Technologies<br>Kotak Mahindra Bank<br>Maruti Suzuki<br>H D F C<br>Asian Paints<br>UltraTech Cement<br>Eicher Motors<br>Lupin<br>Bosch<br>B P C L<br>Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors                          | 1,169<br>948<br>819<br>760<br>742<br>682<br>591<br>574<br>484<br>480<br>443<br>428<br>401   | 4.1<br>3.3<br>2.9<br>2.7<br>2.6<br>2.4<br>2.1<br>2.0<br>1.7<br>1.7<br>1.6<br>1.5  | 30<br>9<br>28<br>24<br>24<br>10<br>28<br>23<br>70<br>29  | 24<br>15<br>27<br>17<br>14<br>18<br>16<br>10<br>48  | 38         18         14         28         10         16         16         13         29  | 16<br>24<br>20<br>10<br>17<br>20<br>31<br>10   | 19<br>26<br>21<br>14<br>16<br>21<br>38<br>13   | 38<br>20<br>21<br>36<br>25<br>17<br>48<br>40                   | 26<br>27<br>20<br>21<br>16<br>23<br>29<br>23                                 |
| 6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22   | Infosys<br>HCL Technologies<br>Kotak Mahindra Bank<br>Maruti Suzuki<br>H D F C<br>Asian Paints<br>UltraTech Cement<br>Eicher Motors<br>Lupin<br>Bosch<br>B P C L<br>Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors  | 948<br>819<br>760<br>742<br>682<br>591<br>574<br>484<br>480<br>443<br>428<br>401  | 3.3<br>2.9<br>2.7<br>2.6<br>2.4<br>2.1<br>2.0<br>1.7<br>1.7<br>1.6<br>1.5   | 9<br>28<br>24<br>24<br>10<br>28<br>23<br>70<br>29  | 15<br>27<br>17<br>14<br>18<br>16<br>10<br>48  | 18         14         28         10         16         16         13         29   | 24<br>20<br>10<br>17<br>20<br>31<br>10   | 26<br>21<br>14<br>16<br>21<br>38<br>13   | 20<br>21<br>36<br>25<br>17<br>48<br>40                         | 27<br>20<br>21<br>16<br>23<br>29<br>23                                       |
| 7         8         9         10         11         12         13         14         15         16         17         18         19         20         21         22                     | HCL Technologies<br>Kotak Mahindra Bank<br>Maruti Suzuki<br>H D F C<br>Asian Paints<br>UltraTech Cement<br>Eicher Motors<br>Lupin<br>Bosch<br>B P C L<br>Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors   | 819           760           742           682           591           574           484           480           443           428           401   | 2.9<br>2.7<br>2.6<br>2.4<br>2.1<br>2.0<br>1.7<br>1.7<br>1.6<br>1.5  | 28<br>24<br>24<br>10<br>28<br>23<br>70<br>29   | 27<br>17<br>14<br>18<br>16<br>10<br>48  | 14<br>28<br>10<br>16<br>16<br>13<br>29  | 20<br>10<br>17<br>20<br>31<br>10   | 21<br>14<br>16<br>21<br>38<br>13   | 21<br>36<br>25<br>17<br>48<br>40                               | 20<br>21<br>16<br>23<br>29<br>23   |
| 8           9           10           11           12           13           14           15           16           17           18           19           20           21           22   | Kotak Mahindra Bank<br>Maruti Suzuki<br>H D F C<br>Asian Paints<br>UltraTech Cement<br>Eicher Motors<br>Lupin<br>Bosch<br>B P C L<br>Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors   | 760<br>742<br>682<br>591<br>574<br>484<br>480<br>443<br>428<br>401  | 2.7<br>2.6<br>2.4<br>2.1<br>2.0<br>1.7<br>1.7<br>1.6<br>1.5   | 24<br>24<br>10<br>28<br>23<br>70<br>29   | 17<br>14<br>18<br>16<br>10<br>48  | 28<br>10<br>16<br>16<br>13<br>29  | 10<br>17<br>20<br>31<br>10   | 14<br>16<br>21<br>38<br>13   | 36<br>25<br>17<br>48<br>40                                     | 21<br>16<br>23<br>29<br>23   |
| 9         10         11         12         13         14         15         16         17         18         19         20         21         22   | Maruti Suzuki<br>H D F C<br>Asian Paints<br>UltraTech Cement<br>Eicher Motors<br>Lupin<br>Bosch<br>B P C L<br>Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors  | 742<br>682<br>591<br>574<br>484<br>480<br>443<br>428<br>401   | 2.6<br>2.4<br>2.1<br>2.0<br>1.7<br>1.7<br>1.6<br>1.5  | 24<br>10<br>28<br>23<br>70<br>29   | 14<br>18<br>16<br>10<br>48  | 10<br>16<br>16<br>13<br>29  | 17<br>20<br>31<br>10   | 16<br>21<br>38<br>13   | 25<br>17<br>48<br>40   | 16<br>23<br>29<br>23   |
| 10           11           12           13           14           15           16           17           18           19           20           21           22                           | H D F C<br>Asian Paints<br>UltraTech Cement<br>Eicher Motors<br>Lupin<br>Bosch<br>B P C L<br>Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors   | 682<br>591<br>574<br>484<br>480<br>443<br>428<br>401  | 2.4<br>2.1<br>2.0<br>1.7<br>1.7<br>1.6<br>1.5   | 10<br>28<br>23<br>70<br>29   | 18<br>16<br>10<br>48  | 16<br>16<br>13<br>29  | 20<br>31<br>10   | 21<br>38<br>13   | 17<br>48<br>40   | 23<br>29<br>23   |
| 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>21<br>22   | Asian Paints<br>UltraTech Cement<br>Eicher Motors<br>Lupin<br>Bosch<br>B P C L<br>Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors  | 591<br>574<br>484<br>480<br>443<br>428<br>401   | 2.1<br>2.0<br>1.7<br>1.7<br>1.6<br>1.5  | 28<br>23<br>70<br>29   | 16<br>10<br>48  | 16<br>13<br>29  | 31<br>10   | 38<br>13   | 48<br>40   | 29<br>23   |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>21<br>22   | UltraTech Cement<br>Eicher Motors<br>Lupin<br>Bosch<br>B P C L<br>Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors  | 574<br>484<br>480<br>443<br>428<br>401  | 2.0<br>1.7<br>1.7<br>1.6<br>1.5   | 23<br>70<br>29   | 10<br>48  | 13<br>29  | 10   | 13   | 40   | 23   |
| 13       14       15       16       17       18       19       20       21       22  | Eicher Motors<br>Lupin<br>Bosch<br>B P C L<br>Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors  | 484<br>480<br>443<br>428<br>401   | 1.7<br>1.7<br>1.6<br>1.5  | 70<br>29   | 48  | 29  |  |  |  |  |
| 14         15         16         17         18         19         20         21         22   | Lupin<br>Bosch<br>B P C L<br>Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors   | 480<br>443<br>428<br>401  | 1.7<br>1.6<br>1.5   | 29   |   |   | 36   | 1 4  |  |  |
| 15<br>16<br>17<br>18<br>19<br>20<br>21<br>22   | Bosch<br>B P C L<br>Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors  | 443<br>428<br>401   | 1.6<br>1.5  |  | 21  |   |  | 14   | 42   | 20   |
| 16<br>17<br>18<br>19<br>20<br>21<br>22   | Bosch<br>B P C L<br>Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors  | 428<br>401  | 1.5   | 25   |   | 20  | 21   | 26   | 29   | 21   |
| 16<br>17<br>18<br>19<br>20<br>21<br>22   | B P C L<br>Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors   | 428<br>401  | 1.5   |  | 8   | 10  | 15   | 21   | 53   | 24   |
| 17<br>18<br>19<br>20<br>21<br>22   | Axis Bank<br>IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors  | 401   |   | 24   | 35  | 4   | 29   | 12   | 8  | 12   |
| 18<br>19<br>20<br>21<br>22   | IndusInd Bank<br>Aurobindo Pharma<br>Tata Motors   |   | 1.4   | 10   | 20  | 22  | 16   | 18   | 13   | 17   |
| 19<br>20<br>21<br>22   | Aurobindo Pharma<br>Tata Motors  |   | 1.3   | 30   | 32  | 26  | 13   | 15   | 25   | 21   |
| 20<br>21<br>22   | Tata Motors  | 379   | 1.3   | 50   | 28  | 26  | 28   | 23   | 22   | 10   |
| 21<br>22   |  | 365   | 1.3   | 9  | 7   | 18  | 16   | 48   | 9  | 7  |
| 22   | Shree Cement   | 360   | 1.3   | 43   | 16  | 10  | 7  | 11   | 96   | 34   |
|  | Godrej Consumer  | 346   | 1.3   | 30   | 10  | 10  | 22   | 28   | 41   | 25   |
| 23   | Bajaj Finance  | 322   | 1.1   | 59   | 39  | 39  | 17   | 18   | 29   | 10   |
| 23   | M & M  | 322   | 1.1   | 12   | 2   | 16  | 11   | 20   | 23   | 15   |
| 24   | Britannia Inds   | 277   | 1.1   | 48   | 46  | 10  | 45   | 37   | 40   | 37   |
|  |  |   |   |  | 5   | 7   | 27   | 58   |  | 15   |
| 26   | Bajaj Auto   | 274<br>271  | 1.0   | <u> </u>   |   | 8   | 37   | 62   | 20   | 15   |
| 27   | Hero MotoCorp  |   | 1.0   |  |   | -   | -  |  | 20   |  |
| 28   | Motherson Sumi   | 270   | 0.9   | 33   | 27  | 36  | 30   | 24   | 28   | 22   |
| 29   | Dabur India  | 268   | 0.9   | 21   | 17  | 16  | 30   | 40   | 36   | 30   |
| 30   | Zee Entertainment  | 264   | 0.9   | 26   | 11  | 14  | 25   | 20   | 35   | 19   |
| 31   | Dr Reddy's Labs  | 239   | 0.8   | 13   | 10  | 7   | 13   | 24   | 33   | 28   |
| 32   | Tech Mahindra  | 237   | 0.8   | 23   | 26  | 39  | 22   | 29   | 15   | 9  |
| 33   | Adani Ports  | 231   | 0.8   | 13   | 25  | 29  | 22   | 22   | 18   | 30   |
| 34   | Ashok Leyland  | 228   | 0.8   | 31   | 11  | 13  | 26   | 24   | 30   | 12   |
| 35   | Pidilite Inds  | 227   | 0.8   | 32   | 20  | 15  | 27   | 28   | 41   | 25   |
| 36   | Marico   | 226   | 0.8   | 28   | 23  | 14  | 34   | 28   | 44   | 34   |
| 37   | Yes Bank   | 223   | 0.8   | 23   | 28  | 27  | 18   | 19   | 14   | 15   |
| 38   | United Spirits   | 205   | 0.7   | 19   | -10   | 5   | 18   | 13   | 115  | 26   |
| 39   | Power Grid Corpn   | 203   | 0.7   | 6  | 18  | 20  | 14   | 12   | 12   | 18   |
| 40   | Nestle India   | 202   | 0.7   | 9  | 2   | 6   | 32   | 96   | 63   | 43   |
| 41   | Hindustan Zinc   | 194   | 0.7   | 6  | 10  | 7   | 21   | 22   | 10   | 12   |
| 42   | Bajaj Finserv  | 186   | 0.7   | 27   | 13  | 42  | 14   | 27   | 15   | 8  |
| 43   | Torrent Pharma   | 178   | 0.6   | 36   | 46  | 25  | 53   | 26   | 13   | 18   |
| 44   | Divi's Labs  | 172   | 0.6   | 24   | 21  | 23  | 26   | 24   | 23   | 21   |
| 45   | Cadila Healthcare  | 162   | 0.6   | 15   | 16  | 16  | 28   | 33   | 21   | 23   |
| 46   | GlaxoSmithkline Cons.  | 160   | 0.6   | 22   | 18  | 13  | 28   | 31   | 37   | 32   |
| 47   | Bharat Electronics   | 158   | 0.6   | 17   | 10  | 6   | 15   | 17   | 21   | 15   |
| 48   | Havells India  | 155   | 0.5   | 34   | 15  | 7   | 24   | 47   | 33   | 15   |
| 49   | Cipla  | 154   | 0.5   | 10   | 8   | 17  | 12   | 15   | 28   | 26   |
| 50   | Rajesh Exports   | 151   | 0.5   | 42   | 34  | 52  | 22   | 16   | 17   | 13   |
| Rank   | Company  |   | h Created   | CAG  | GR (2011-   |   | RoE  | : (%)  | P/E  | (x)  |
|  |  | INR b   | Share (%)   | Price  | PAT   | Sales   | 2016   | 2011   | 2016   | 2011   |

# Appendix 1: MOSL 100: Biggest Wealth Creators (2011-2016) ... continued

| Rank | Company              | Wealth | n Created | CAG   | GR (2011-: | L6, %) | RoE    | : (%) | P/E  | E (x) |
|------|----------------------|--------|-----------|-------|------------|--------|--------|-------|------|-------|
|      |                      | INR b  | Share (%) | Price | PAT        | Sales  | 2016   | 2011  | 2016 | 2011  |
| 51   | Emami                | 151    | 0.5       | 28    | 12         | 16     | 29     | 33    | 52   | 27    |
| 52   | UPL                  | 145    | 0.5       | 26    | 19         | 18     | 20     | 15    | 15   | 13    |
| 53   | HPCL                 | 145    | 0.5       | 17    | 21         | 6      | 29     | 14    | 5    | 6     |
| 54   | P & G Hygiene        | 145    | 0.5       | 28    | 23         | 20     | 28     | 25    | 48   | 39    |
| 55   | Glaxosmith. Pharma   | 145    | 0.5       | 13    | -8         | 5      | 22     | 30    | 86   | 31    |
| 56   | Berger Paints        | 139    | 0.5       | 41    | 19         | 15     | 24     | 21    | 47   | 21    |
| 57   | Glenmark Pharma      | 138    | 0.5       | 23    | 10         | 21     | 24     | 22    | 31   | 17    |
| 58   | MRF                  | 136    | 0.5       | 44    | 46         | 22     | 34     | 21    | 7    | 8     |
| 59   | Amara Raja Batteries | 134    | 0.5       | 56    | 27         | 22     | 23     | 23    | 31   | 11    |
| 60   | Ambuja Cement        | 133    | 0.5       | 10    | -10        | 5      | 7      | 17    | 50   | 19    |
| 61   | LIC Housing Finance  | 132    | 0.5       | 17    | 12         | 21     | 18     | 23    | 15   | 11    |
| 62   | Titan Company        | 132    | 0.5       | 12    | 10         | 12     | 20     | 42    | 44   | 39    |
| 63   | Oracle Financial     | 131    | 0.5       | 12    | 1          | 6      | 32     | 21    | 25   | 15    |
| 64   | Idea Cellular        | 130    | 0.5       | 10    | 24         | 18     | 10     | 7     | 16   | 25    |
| 65   | Grasim Inds          | 127    | 0.4       | 9     | 0          | 11     | 9      | 15    | 16   | 10    |
| 66   | TVS Motor            | 125    | 0.4       | 40    | 23         | 12     | 25     | 19    | 41   | 22    |
| 67   | Bharat Forge         | 124    | 0.4       | 20    | 18         | 8      | 18     | 15    | 31   | 28    |
| 68   | Ajanta Pharma        | 122    | 0.4       | 121   | 52         | 28     | 35     | 22    | 31   | 5     |
| 69   | Blue Dart Express    | 120    | 0.4       | 43    | 15         | 17     | 47     | 17    | 75   | 25    |
| 70   | Apollo Hospitals     | 119    | 0.4       | 23    | 11         | 18     | 9      | 10    | 58   | 32    |
| 71   | Sundaram Finance     | 118    | 0.4       | 40    | 9          | 16     | 14     | 22    | 24   | 7     |
| 72   | Page Industries      | 117    | 0.4       | 50    | 32         | 29     | 46     | 47    | 58   | 31    |
| 73   | Colgate-Palmolive    | 114    | 0.4       | 15    | 8          | 13     | 59     | 105   | 38   | 28    |
| 74   | Piramal Enterprises  | 107    | 0.4       | 20    | 28         | 32     | 7      | 2     | 19   | 26    |
| 75   | Bayer Crop Science   | 107    | 0.4       | 33    | 18         | 12     | 17     | 20    | 44   | 27    |
| 76   | Kansai Nerolac       | 104    | 0.4       | 26    | 20         | 13     | 21     | 20    | 32   | 26    |
| 77   | ABB                  | 102    | 0.4       | 10    | 36         | 5      | 10     | 3     | 89   | 257   |
| 78   | WABCO India          | 99     | 0.3       | 43    | 9          | 16     | 19     | 33    | 60   | 15    |
| 79   | Cummins India        | 98     | 0.3       | 11    | 4          | 5      | 22     | 33    | 32   | 23    |
| 80   | Petronet LNG         | 97     | 0.3       | 16    | 7          | 16     | 13     | 23    | 22   | 15    |
| 81   | Welspun India        | 96     | 0.3       | 88    | 234        | 23     | 35     | 0     | 14   | 226   |
| 82   | JSW Steel            | 95     | 0.3       | 7     | -2         | 12     | 7      | 11    | 20   | 12    |
| 83   | Vakrangee            | 94     | 0.3       | 63    | 52         | 29     | 26     | 14    | 27   | 17    |
| 84   | Mindtree             | 94     | 0.3       | 46    | 42         | 25     | 25     | 13    | 18   | 15    |
| 85   | United Breweries     | 91     | 0.3       | 11    | 15         | 11     | 14     | 14    | 73   | 83    |
| 86   | Gillette India       | 86     | 0.3       | 20    | 20         | 14     | 25     | 14    | 68   | 66    |
| 87   | CRISIL               | 85     | 0.3       | 23    | 11         | 17     | 32     | 41    | 47   | 27    |
| 88   | Container Corpn.     | 84     | 0.3       | 9     | -2         | 10     | 10     | 18    | 31   | 18    |
| 89   | 3M India             | 84     | 0.3       | 26    | 15         | 12     | 20     | 18    | 60   | 38    |
| 90   | Cholamandalam Inv.   | 81     | 0.3       | 33    | 49         | 28     | 16     | 7     | 19   | 27    |
| 91   | Castrol India        | 79     | 0.3       | 11    | 5          | 3      | 108    | 89    | 30   | 22    |
| 92   | Supreme Inds         | 75     | 0.3       | 38    | 3          | 4      | 17     | 35    | 42   | 10    |
| 93   | Bajaj Holdings       | 74     | 0.3       | 13    | -1         | -12    | 15     | 31    | 7    | 4     |
| 94   | GRUH Finance         | 74     | 0.3       | 46    | 22         | 29     | 29     | 29    | 36   | 14    |
| 95   | Symphony             | 74     | 0.3       | 56    | 15         | 9      | 34     | 41    | 77   | 17    |
| 96   | Wockhardt            | 72     | 0.3       | 25    | -14        | 4      | 8      | 322   | 36   | 6     |
| 97   | Ramco Cement         | 71     | 0.3       | 32    | 21         | 7      | 18     | 12    | 17   | 12    |
| 98   | Abbott India         | 70     | 0.2       | 28    | 34         | 20     | 23     | 20    | 39   | 30    |
| 99   | P I Inds             | 70     | 0.2       | 58    | 37         | 24     | 27     | 32    | 25   | 10    |
| 100  | Kajaria Ceramics     | 69     | 0.2       | 66    | 30         | 20     | 25     | 28    | 33   | 9     |
| Dowl | TOTAL                | 28,436 | 100.0     | 19    | 16         | 15     | 20<br> | 22    | 22   | 19    |
| Rank | Company              |        | Created   |       | GR (2011-: |        |        | E (%) |      | E (x) |
|      |                      | INR b  | Share (%) | Price | PAT        | Sales  | 2016   | 2011  | 2016 | 2011  |

# Appendix 2: MOSL 100: Fastest Wealth Creators (2011-2016)

| Rank | Company              | 2011-1   | 6 Price   | CAGR 11 | L-16 (%) | Wealt | h Created | RoE  | : (%) | P/E  | (x)  |
|------|----------------------|----------|-----------|---------|----------|-------|-----------|------|-------|------|------|
|      |                      | CAGR (%) | Times (x) | PAT     | Sales    | INR b | Share (%) | 2016 | 2011  | 2016 | 2011 |
| 1    | Ajanta Pharma        | 121      | 52.8      | 52      | 28       | 122   | 0.4       | 35   | 22    | 31   | 5    |
| 2    | Welspun India        | 88       | 23.3      | 234     | 23       | 96    | 0.3       | 35   | 0     | 14   | 226  |
| 3    | Eicher Motors        | 70       | 14.4      | 48      | 29       | 484   | 1.7       | 36   | 14    | 42   | 20   |
| 4    | Kajaria Ceramics     | 66       | 12.6      | 30      | 20       | 69    | 0.2       | 25   | 28    | 33   | 9    |
| 5    | Vakrangee            | 63       | 11.3      | 52      | 29       | 94    | 0.3       | 26   | 14    | 27   | 17   |
| 6    | Bajaj Finance        | 59       | 10.2      | 39      | 39       | 322   | 1.1       | 17   | 18    | 29   | 10   |
| 7    | P I Inds             | 58       | 9.7       | 37      | 24       | 70    | 0.2       | 27   | 32    | 25   | 10   |
| 8    | Symphony             | 56       | 9.3       | 15      | 9        | 74    | 0.3       | 34   | 41    | 77   | 17   |
| 9    | Amara Raja Batteries | 56       | 9.3       | 27      | 22       | 134   | 0.5       | 23   | 23    | 31   | 11   |
| 10   | Aurobindo Pharma     | 50       | 7.6       | 28      | 26       | 379   | 1.3       | 28   | 23    | 22   | 10   |
| 11   | Page Industries      | 50       | 7.5       | 32      | 29       | 117   | 0.4       | 46   | 47    | 58   | 31   |
| 12   | Britannia Inds       | 48       | 7.2       | 46      | 13       | 277   | 1.0       | 45   | 37    | 40   | 37   |
| 13   | GRUH Finance         | 46       | 6.6       | 22      | 29       | 74    | 0.3       | 29   | 29    | 36   | 14   |
| 14   | Mindtree             | 46       | 6.6       | 42      | 25       | 94    | 0.3       | 25   | 13    | 18   | 15   |
| 15   | MRF                  | 44       | 6.1       | 46      | 22       | 136   | 0.5       | 34   | 21    | 7    | 8    |
| 16   | WABCO India          | 43       | 6.0       | 9       | 16       | 99    | 0.3       | 19   | 33    | 60   | 15   |
| 17   | Blue Dart Express    | 43       | 6.0       | 15      | 17       | 120   | 0.4       | 47   | 17    | 75   | 25   |
| 18   | Shree Cement         | 43       | 6.0       | 16      | 10       | 360   | 1.3       | 7    | 11    | 96   | 34   |
| 19   | Rajesh Exports       | 42       | 5.7       | 34      | 52       | 151   | 0.5       | 22   | 16    | 17   | 13   |
| 20   | Berger Paints        | 41       | 5.6       | 19      | 15       | 139   | 0.5       | 24   | 21    | 47   | 21   |
| 21   | Sundaram Finance     | 40       | 5.4       | 9       | 16       | 118   | 0.4       | 14   | 22    | 24   | 7    |
| 22   | TVS Motor            | 40       | 5.4       | 23      | 12       | 125   | 0.4       | 25   | 19    | 41   | 22   |
| 23   | Supreme Inds         | 38       | 5.1       | 3       | 4        | 75    | 0.3       | 17   | 35    | 42   | 10   |
| 24   | Torrent Pharma       | 36       | 4.6       | 46      | 25       | 178   | 0.6       | 53   | 26    | 13   | 18   |
| 25   | Havells India        | 34       | 4.3       | 15      | 7        | 155   | 0.5       | 24   | 47    | 33   | 15   |
| 26   | Motherson Sumi       | 33       | 4.2       | 27      | 36       | 270   | 0.9       | 30   | 24    | 28   | 22   |
| 27   | Cholamandalam Inv.   | 33       | 4.1       | 49      | 28       | 81    | 0.3       | 16   | 7     | 19   | 27   |
| 28   | Bayer Crop Science   | 33       | 4.1       | 18      | 12       | 107   | 0.4       | 17   | 20    | 44   | 27   |
| 29   | Pidilite Inds        | 32       | 4.0       | 20      | 15       | 227   | 0.8       | 27   | 28    | 41   | 25   |
| 30   | Ramco Cement         | 32       | 3.9       | 20      | 7        | 71    | 0.3       | 18   | 12    | 17   | 12   |
| 31   | Ashok Leyland        | 31       | 3.8       | 11      | 13       | 228   | 0.8       | 26   | 24    | 30   | 12   |
| 32   | Godrej Consumer      | 30       | 3.8       | 19      | 19       | 346   | 1.2       | 20   | 28    | 41   | 25   |
| 33   | Sun Pharma           | 30       | 3.7       | 24      | 38       | 1,169 | 4.1       | 16   | 19    | 38   | 26   |
| 34   | IndusInd Bank        | 30       | 3.7       | 32      | 26       | 380   | 1.3       | 13   | 15    | 25   | 20   |
| 35   | Lupin                | 29       | 3.6       | 21      | 20       | 480   | 1.5       | 21   | 26    | 29   | 21   |
| 36   | Abbott India         | 28       | 3.5       | 34      | 20       | 70    | 0.2       | 23   | 20    | 39   | 30   |
| 37   | Marico               | 28       | 3.5       | 23      | 14       | 226   | 0.8       | 34   | 28    | 44   | 34   |
| 38   | Emami                | 28       | 3.5       | 12      | 16       | 151   | 0.5       | 29   | 33    | 52   | 27   |
| 39   | P & G Hygiene        | 28       | 3.5       | 23      | 20       | 145   | 0.5       | 23   | 25    | 48   | 39   |
| 40   | Asian Paints         | 28       | 3.4       | 16      | 16       | 591   | 2.1       | 31   | 38    | 48   | 29   |
| 41   | HCL Technologies     | 28       | 3.4       | 27      | 10       | 819   | 2.9       | 20   | 21    | 21   | 20   |
| 42   | Bajaj Finserv        | 20       | 3.3       | 13      | 42       | 186   | 0.7       | 14   | 27    | 15   | 8    |
| 43   | 3M India             | 26       | 3.2       | 15      | 12       | 84    | 0.3       | 20   | 18    | 60   | 38   |
| 45   | UPL                  | 26       | 3.2       | 13      | 12       | 145   | 0.5       | 20   | 15    | 15   | 13   |
| 44   | Kansai Nerolac       | 26       | 3.2       | 20      | 18       | 143   | 0.3       | 20   | 20    | 32   | 26   |
| 45   | Zee Entertainment    | 26       | 3.2       | 11      | 13       | 264   | 0.4       | 21   | 20    | 32   | 19   |
| 40   | Bosch                | 25       | 3.1       | 8       | 14       | 443   | 1.6       | 15   | 20    | 53   | 24   |
| 47   | Hind. Unilever       | 25       | 3.1       | 8       | 10       | 1,266 | 4.5       | 102  | 76    | 46   | 30   |
| 48   | Wockhardt            | 25       | 3.1       | -14     | 4        | 72    | 0.3       | 8    | 322   | 36   | 6    |
|      | Kotak Mahindra       | 25       | 3.0       | -14     | 28       | 72    | 2.7       | 10   | 14    | 36   | 21   |
|      |                      |          |           |         |          |       |           |      |       |      |      |
| RAUK | Company              |          | 6 Price   | CAGR 11 |          |       | h Created |      | 2011  | P/E  |      |
|      |                      | CAGR (%) | rimes (x) | PAT     | Sales    | INR b | Share (%) | 2016 | 2011  | 2016 | 2011 |

# Appendix 2: MOSL 100: Fastest Wealth Creators (2011-2016) ... continued

| Rank | Company              | 2011-1     | L6 Price  | CAGR (1 | 1-16, %) | Wealt  | h Created | Ro   | E (%) | P/   | E (x) |
|------|----------------------|------------|-----------|---------|----------|--------|-----------|------|-------|------|-------|
|      |                      | CAGR (%)   | Times (x) | PAT     | Sales    | INR b  | Share (%) | 2016 | 2011  | 2016 | 2011  |
| 51   | BPCL                 | 24         | 2.9       | 35      | 4        | 428    | 1.5       | 29   | 12    | 8    | 12    |
| 52   | Maruti Suzuki        | 24         | 2.9       | 14      | 10       | 742    | 2.6       | 17   | 16    | 25   | 16    |
| 53   | Divi's Labs          | 24         | 2.9       | 21      | 23       | 172    | 0.6       | 26   | 24    | 23   | 21    |
| 54   | CRISIL               | 23         | 2.9       | 11      | 17       | 85     | 0.3       | 32   | 41    | 47   | 27    |
| 55   | UltraTech Cement     | 23         | 2.8       | 10      | 13       | 574    | 2.0       | 10   | 13    | 40   | 23    |
| 56   | Tech Mahindra        | 23         | 2.8       | 26      | 39       | 237    | 0.8       | 22   | 29    | 15   | 9     |
| 57   | Apollo Hospitals     | 23         | 2.8       | 11      | 18       | 119    | 0.4       | 9    | 10    | 58   | 32    |
| 58   | Glenmark Pharma      | 23         | 2.8       | 10      | 21       | 138    | 0.5       | 24   | 22    | 31   | 17    |
| 59   | Yes Bank             | 23         | 2.8       | 28      | 27       | 223    | 0.8       | 18   | 19    | 14   | 15    |
| 60   | GlaxoSmithkline Cons | 22         | 2.7       | 18      | 13       | 160    | 0.6       | 28   | 31    | 37   | 32    |
| 61   | Dabur India          | 21         | 2.6       | 17      | 16       | 268    | 0.9       | 30   | 40    | 36   | 30    |
| 62   | Bharat Forge         | 20         | 2.5       | 18      | 8        | 124    | 0.4       | 18   | 15    | 31   | 28    |
| 63   | Gillette India       | 20         | 2.5       | 20      | 14       | 86     | 0.3       | 25   | 14    | 68   | 66    |
| 64   | Piramal Enterprises  | 20         | 2.5       | 28      | 32       | 107    | 0.4       | 7    | 2     | 19   | 26    |
| 65   | United Spirits       | 19         | 2.4       | -10     | 5        | 205    | 0.7       | 18   | 13    | 115  | 26    |
| 66   | HDFC Bank            | 18         | 2.3       | 26      | 26       | 1,475  | 5.2       | 17   | 16    | 21   | 27    |
| 67   | HPCL                 | 17         | 2.2       | 21      | 6        | 145    | 0.5       | 29   | 14    | 5    | 6     |
| 68   | Bharat Electron      | 17         | 2.2       | 10      | 6        | 158    | 0.6       | 15   | 17    | 21   | 15    |
| 69   | LIC Housing Finance  | 17         | 2.2       | 12      | 21       | 132    | 0.5       | 18   | 23    | 15   | 11    |
| 70   | TCS                  | 16         | 2.1       | 22      | 24       | 2,637  | 9.3       | 37   | 37    | 21   | 26    |
| 71   | Petronet LNG         | 16         | 2.1       | 7       | 16       | 97     | 0.3       | 13   | 23    | 22   | 15    |
| 72   | Colgate-Palmolive    | 15         | 2.0       | 8       | 13       | 114    | 0.4       | 59   | 105   | 38   | 28    |
| 73   | Cadila Healthcare    | 15         | 2.0       | 16      | 16       | 162    | 0.6       | 28   | 33    | 21   | 23    |
| 74   | Hero MotoCorp        | 13         | 1.9       | 10      | 8        | 271    | 1.0       | 37   | 62    | 20   | 17    |
| 75   | Dr Reddy's Labs      | 13         | 1.9       | 10      | 7        | 239    | 0.8       | 13   | 24    | 33   | 28    |
| 76   | ,<br>Bajaj Holdings  | 13         | 1.8       | -1      | -12      | 74     | 0.3       | 15   | 31    | 7    | 4     |
| 77   | Adani Ports          | 13         | 1.8       | 25      | 29       | 231    | 0.8       | 22   | 22    | 18   | 30    |
| 78   | Glaxosmith. Pharma   | 13         | 1.8       | -8      | 5        | 145    | 0.5       | 22   | 30    | 86   | 31    |
| 79   | ITC                  | 13         | 1.8       | 14      | 12       | 1,197  | 4.2       | 28   | 30    | 28   | 28    |
| 80   | Titan Company        | 12         | 1.8       | 10      | 12       | 132    | 0.5       | 20   | 42    | 44   | 39    |
| 81   | Oracle Financial     | 12         | 1.8       | 1       | 6        | 131    | 0.5       | 32   | 21    | 25   | 15    |
| 82   | M & M                | 12         | 1.7       | 2       | 16       | 321    | 1.1       | 11   | 20    | 24   | 15    |
| 83   | Cummins India        | 11         | 1.7       | 4       | 5        | 98     | 0.3       | 22   | 33    | 32   | 23    |
| 84   | United Breweries     | 11         | 1.7       | 15      | 11       | 91     | 0.3       | 14   | 14    | 73   | 83    |
| 85   | Castrol India        | 11         | 1.7       | 5       | 3        | 79     | 0.3       | 108  | 89    | 30   | 22    |
| 86   | Bajaj Auto           | 11         | 1.6       | 5       | 7        | 274    | 1.0       | 27   | 58    | 20   | 15    |
| 87   | Idea Cellular        | 10         | 1.6       | 24      | 18       | 130    | 0.5       | 10   | 7     | 16   | 25    |
| 88   | ABB                  | 10         | 1.6       | 36      | 5        | 102    | 0.4       | 10   | 3     | 89   | 257   |
| 89   | Cipla                | 10         | 1.6       | 8       | 17       | 154    | 0.5       | 12   | 15    | 28   | 26    |
| 90   | Axis Bank            | 10         | 1.6       | 20      | 22       | 401    | 1.4       | 16   | 18    | 13   | 17    |
| 91   | HDFC                 | 10         | 1.6       | 18      | 16       | 682    | 2.4       | 20   | 21    | 17   | 23    |
| 92   | Ambuja Cement        | 10         | 1.6       | -10     | 5        | 133    | 0.5       | 7    | 17    | 50   | 19    |
| 93   | Nestle India         | 9          | 1.6       | 2       | 6        | 202    | 0.7       | 32   | 96    | 63   | 43    |
| 94   | Tata Motors          | 9          | 1.6       | 7       | 18       | 365    | 1.3       | 16   | 48    | 9    | 7     |
| 95   | Grasim Inds          | 9          | 1.6       | 0       | 11       | 127    | 0.4       | 9    | 15    | 16   | 10    |
| 96   | Container Corpn      | 9          | 1.5       | -2      | 10       | 84     | 0.3       | 10   | 18    | 31   | 18    |
| 97   | Infosys              | 9          | 1.5       | 15      | 18       | 948    | 3.3       | 24   | 26    | 20   | 27    |
| 98   | JSW Steel            | 7          | 1.4       | -2      | 10       | 95     | 0.3       | 7    | 11    | 20   | 12    |
| 99   | Power Grid Corpn     | 6          | 1.4       | 18      | 20       | 203    | 0.7       | 14   | 12    | 12   | 12    |
| 100  | Hindustan Zinc       | 6          | 1.3       | 10      | 7        | 194    | 0.7       | 21   | 22    | 10   | 12    |
|      | TOTAL                | 19         | 2.4       | 16      | 15       | 28,436 | 100.0     | 20   | 22    | 22   | 19    |
| Rank | Company              |            | L6 Price  |         | 1-16, %) |        | h Created |      | E (%) |      | E (x) |
|      | . ,                  |            | Times (x) | PAT     | Sales    | INR b  | Share (%) | 2016 | 2011  | 2016 | 2011  |
|      |                      | S. S. (70) |           | 171     | Juica    |        | 5         | 2010 |       | 2010 |       |

# Appendix 3: MOSL 100: Alphabetical order

|                      | WC F    | Rank    | W     | /ealth Cre | ated      |                     | WC I    | Rank    | V     | Vealth Cre | ated      |
|----------------------|---------|---------|-------|------------|-----------|---------------------|---------|---------|-------|------------|-----------|
| Company              | Biggest | Fastest | INR b | Price      | Price     | Company             | Biggest | Fastest | INR b | Price      | Price     |
|                      |         |         |       |            | Mult. (x) | · ·                 |         | Tustest |       |            | Mult. (x) |
| 3M India             | 89      | 43      | 84    | 26         | 3.2       | Hind. Unilever      | 3       | 48      | 1,266 | 25         | 3.1       |
| ABB                  | 77      | 88      | 102   | 10         | 1.6       | Hindustan Zinc      | 41      | 100     | 194   | 6          | 1.3       |
| Abbott India         | 98      | 36      | 70    | 28         | 3.5       | Idea Cellular       | 64      | 87      | 130   | 10         | 1.6       |
| Adani Ports          | 33      | 77      | 231   | 13         | 1.8       | IndusInd Bank       | 18      | 34      | 380   | 30         | 3.7       |
| Ajanta Pharma        | 68      | 1       | 122   | 121        | 52.8      | Infosys             | 6       | 97      | 948   | 9          | 1.5       |
| Amara Raja Batteries | 59      | 9       | 134   | 56         | 9.3       | ITC                 | 4       | 79      | 1,197 | 13         | 1.8       |
| Ambuja Cement        | 60      | 92      | 133   | 10         | 1.6       | JSW Steel           | 82      | 98      | 95    | 7          | 1.4       |
| Apollo Hospitals     | 70      | 57      | 119   | 23         | 2.8       | Kajaria Ceramics    | 100     | 4       | 69    | 66         | 12.6      |
| Ashok Leyland        | 34      | 31      | 228   | 31         | 3.8       | Kansai Nerolac      | 76      | 45      | 104   | 26         | 3.2       |
| Asian Paints         | 11      | 40      | 591   | 28         | 3.4       | Kotak Mahindra      | 8       | 50      | 760   | 24         | 3.0       |
| Aurobindo Pharma     | 19      | 10      | 379   | 50         | 7.6       | LIC Housing Finance | 61      | 69      | 132   | 17         | 2.2       |
| Axis Bank            | 17      | 90      | 401   | 10         | 1.6       | Lupin               | 14      | 35      | 480   | 29         | 3.6       |
| BPCL                 | 16      | 51      | 428   | 24         | 2.9       | M & M               | 24      | 82      | 321   | 12         | 1.7       |
| Bajaj Auto           | 26      | 86      | 274   | 11         | 1.6       | Marico              | 36      | 37      | 226   | 28         | 3.5       |
| Bajaj Fin.           | 23      | 6       | 322   | 59         | 10.2      | Maruti Suzuki       | 9       | 52      | 742   | 24         | 2.9       |
| Bajaj Finserv        | 42      | 42      | 186   | 27         | 3.3       | Mindtree            | 84      | 14      | 94    | 46         | 6.6       |
| Bajaj Holdings       | 93      | 76      | 74    | 13         | 1.8       | Motherson Sumi      | 28      | 26      | 270   | 33         | 4.2       |
| Bayer Crop Science   | 75      | 28      | 107   | 33         | 4.1       | MRF                 | 58      | 15      | 136   | 44         | 6.1       |
| Berger Paints        | 56      | 20      | 139   | 41         | 5.6       | Nestle India        | 40      | 93      | 202   | 9          | 1.6       |
| Bharat Electron      | 47      | 68      | 158   | 17         | 2.2       | Oracle Financial    | 63      | 81      | 131   | 12         | 1.8       |
| Bharat Forge         | 67      | 62      | 124   | 20         | 2.5       | P & G Hygiene       | 54      | 39      | 145   | 28         | 3.5       |
| Blue Dart Express    | 69      | 17      | 120   | 43         | 6.0       | PIInds              | 99      | 7       | 70    | 58         | 9.7       |
| Bosch                | 15      | 47      | 443   | 25         | 3.1       | Page Industries     | 72      | 11      | 117   | 50         | 7.5       |
| Britannia Inds       | 25      | 12      | 277   | 48         | 7.2       | Petronet LNG        | 80      | 71      | 97    | 16         | 2.1       |
| Cadila Healthcare    | 45      | 73      | 162   | 15         | 2.0       | Pidilite Inds       | 35      | 29      | 227   | 32         | 4.0       |
| Castrol India        | 91      | 85      | 79    | 11         | 1.7       | Piramal Enterprises | 74      | 64      | 107   | 20         | 2.5       |
| Cholamandalam Inv.   | 90      | 27      | 81    | 33         | 4.1       | Power Grid Corpn    | 39      | 99      | 203   | 6          | 1.4       |
| Cipla                | 49      | 89      | 154   | 10         | 1.6       | Rajesh Exports      | 50      | 19      | 151   | 42         | 5.7       |
| Colgate-Palmolive    | 73      | 72      | 114   | 15         | 2.0       | Shree Cement        | 21      | 18      | 360   | 43         | 6.0       |
| Container Corpn      | 88      | 96      | 84    | 9          | 1.5       | Sun Pharma          | 5       | 33      | 1,169 | 30         | 3.7       |
| CRISIL               | 87      | 54      | 85    | 23         | 2.9       | Sundaram Finance    | 71      | 21      | 118   | 40         | 5.4       |
| Cummins India        | 79      | 83      | 98    | 11         | 1.7       | Supreme Inds        | 92      | 23      | 75    | 38         | 5.1       |
| Dabur India          | 29      | 61      | 268   | 21         | 2.6       | Symphony            | 95      | 8       | 74    | 56         | 9.3       |
| Divi's Labs          | 44      | 53      | 172   | 21         | 2.0       | Tata Motors         | 20      | 94      | 365   | 9          | 1.6       |
| Dr Reddy's Labs      | 31      | 75      | 239   | 13         | 1.9       | TCS                 | 1       | 70      | 2,637 | 16         | 2.1       |
| Eicher Motors        | 13      | 3       | 484   | 70         | 1.9       | Tech Mahindra       | 32      | 56      | 2,037 | 23         | 2.1       |
| Emami                | 51      | 38      | 151   | 28         | 3.5       | The Ramco Cement    | 97      | 30      | 71    | 32         | 3.9       |
| Gillette India       | 86      | 63      | 86    | 20         | 2.5       | Titan Company       | 62      | 80      | 132   | 12         | 1.8       |
| Glaxosmith. Pharma   |         |         |       |            |           | Torrent Pharma      |         |         |       |            |           |
|                      | 55      | 78      | 145   | 13         | 1.8       |                     | 43      | 24      | 178   | 36         | 4.6       |
| GlaxoSmithh. Cons.   | 46      | 60      | 160   | 22         | 2.7       | TVS Motor           | 66      | 22      | 125   | 40         | 5.4       |
| Glenmark Pharma      | 57      | 58      | 138   | 23         | 2.8       | UltraTech Cement    | 12      | 55      | 574   | 23         | 2.8       |
| Godrej Consumer      | 22      | 32      | 346   | 30         | 3.8       | United Breweries    | 85      | 84      | 91    | 11         | 1.7       |
| Grasim Inds          | 65      | 95      | 127   | 9          | 1.6       | United Spirits      | 38      | 65      | 205   | 19         | 2.4       |
| GRUH Finance         | 94      | 13      | 74    | 46         | 6.6       | UPL                 | 52      | 44      | 145   | 26         | 3.2       |
| HDFC                 | 10      | 91      | 682   | 10         | 1.6       | Vakrangee           | 83      | 5       | 94    | 63         | 11.3      |
| HPCL                 | 53      | 67      | 145   | 17         | 2.2       | WABCO India         | 78      | 16      | 99    | 43         | 6.0       |
| Havells India        | 48      | 25      | 155   | 34         | 4.3       | Welspun India       | 81      | 2       | 96    | 88         | 23.3      |
| HCL Technologies     | 7       | 41      | 819   | 28         | 3.4       | Wockhardt           | 96      | 49      | 72    | 25         | 3.0       |
| HDFC Bank            | 2       | 66      | 1,475 | 18         | 2.3       | Yes Bank            | 37      | 59      | 223   | 23         | 2.8       |
| Hero MotoCorp        | 27      | 74      | 271   | 13         | 1.9       | Zee Entertainment   | 30      | 46      | 264   | 26         | 3.1       |

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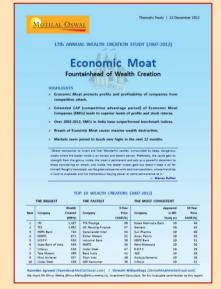
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| 1 2 3  | The Bidgest<br>THE Bidgest<br>Company<br>TCS<br>TC<br>HDFC Bank<br>Sun Pharma<br>Hindurtan Unite            | Mid-to-Meg<br>bollapalooz<br>Longevity a<br>e been search<br>odels that expl<br>il eften come o<br>Wealth<br>Created<br>(NR b)<br>3,458<br>1,545<br>1,545<br>1,545<br>1,545<br>1,545   | pp ministra big changes<br>effect of MoGLP (Mi<br>effect of MoGLP (Mi<br>mi<br>set for Istinguiesz result<br>in their occurrence of<br>the Istinguiesz result<br>top for large control<br>THE FASTEST<br>Company<br>Ajorta Pharma<br>Symphony<br>Ester Motors<br>P I Influencias   | in ranks, dri<br>d-size, Qualit<br>Its all my life.<br>Really big effe<br>nions of factor<br>S-Year<br>Price<br>CAGE (%)<br>119<br>105<br>50   | ny, Growth, as Tris very interests,<br>losippideos effer<br>rs." - Charlie Munger<br>THE MOST COT<br>Company<br>Titas Company<br>Son Pharma<br>Asian Paints<br>Roata Mahindra<br>Dabur India   | cts,<br>r<br>Appeared<br>in WC<br>Study (*)<br>10<br>10<br>10<br>10<br>10<br>10  | Price<br>CAGR (%)<br>43<br>36<br>35<br>34<br>31   |
| 1 2 3 4 5  | THE BIGGEST<br>Company<br>TCS<br>TCS<br>TC<br>BOFC Bank<br>Son Pharma                                       | <ul> <li>Mid-to-Meg<br/>Jollapalooz<br/>Longwity a<br/>se been searchi-<br/>odcit stat eagle<br/>il often come of<br/>Wealth<br/>Create of<br/>(INIE b)<br/>(INIE b)<br/>1.545<br/>1.545<br/>1.545<br/>1.545<br/>1.545<br/>1.545<br/>1.545</li> </ul>  | pa marks a big change<br>effect of McGLP (Min<br>of Price).<br>Ing for foliapuloeza result<br>an their occurrence. J<br>The course of the second<br>transformer of the second<br>transformer of the second<br>THE FASTEST<br>Company<br>Ajanta Pharma<br>Symphony<br>Elicier Moness<br>Page Industries<br>Page Industries  | in ranks, dri<br>d-size, Qualit<br>tts all my life.<br>Really big effe<br>ninner of factor<br>Frise<br>CAGR (%)<br>119<br>109<br>109<br>109<br>109<br>109<br>109<br>109<br>109<br>109  | ny, Growth,<br>so Tra very intereste<br>etc., foliopsiesa effe<br>re <sup>-1</sup> - Charlie Murge<br><b>HEE MOST COP</b><br>THE MOST COP<br>Company<br>Titan Company<br>Sun Planna<br>Asian Planna<br>Kotak Mahindra  | r<br>NSISTENT<br>Appeared<br>in WC<br>Study (*)<br>10<br>10<br>10<br>10  | Price<br>CAGR (%)<br>43<br>36<br>35<br>35<br>34   |
| 1 2 3 4 5 6  | THE BIGGEST<br>Company<br>TCS<br>TCC<br>HDPC Back<br>Sour Pharma<br>Hindutan Unite<br>HCL Tack              | Mid-to-Meg<br>bollapalooz<br>Longevity a<br>e been search<br>odels that expl<br>il eften come o<br>Wealth<br>Created<br>(NR b)<br>3,458<br>1,545<br>1,545<br>1,545<br>1,545<br>1,545   | pp ministra big changes<br>effect of MoGLP (Mi<br>effect of MoGLP (Mi<br>mi<br>set for Istinguiesz result<br>in their occurrence of<br>the Istinguiesz result<br>top for large control<br>THE FASTEST<br>Company<br>Ajorta Pharma<br>Symphony<br>Ester Motors<br>P I Influencias   | in ranks, dri<br>d-size, Qualit<br>tts all my life.<br>Really big effe<br>nions of factor<br>Warrows (2)<br>3-Year<br>Price<br>CAGR (%)<br>119<br>100<br>85<br>90<br>85<br>77<br>62  | y, Growth,<br>so Tra very intereste<br>etc., foliopaieosa effe<br>re." – Charlie Monge<br>Context<br>THE MOST COT<br>Company<br>Titan Company<br>Son Pharma<br>Asian Paints<br>Reak Mahindra<br>Dabot India<br>Dasah   | NSISTENT<br>Appeared<br>in WC<br>Study (x)<br>10<br>10<br>10<br>10<br>10<br>10   | Price<br>CAGR (%)<br>43<br>36<br>35<br>34<br>31<br>29                                     |
| 1 2 3 4 5 6 7  | THE BIGGEST<br>Company<br>TCS<br>TC<br>HDPC Bank<br>Sun Pharma<br>Hindustan Unite<br>HDC Bank<br>Sun Pharma | <ul> <li>Mid-to-Meg<br/>Jollapalooza<br/>Longevity a<br/>e ben searble<br/>edel: that expl<br/>il eften corre o<br/>Wealth<br/>Created<br/>(NIR b)<br/>3,658<br/>1,565<br/>1,565<br/>1,565<br/>1,565<br/>1,565</li> </ul>  | pp micha a big changes<br>effect of MoGLP (Mi<br>defice) and MoGLP (Mi<br>and for bilippolesz result<br>in their accurrence of<br>the big form large control<br>to the second second<br>THE FASTEST<br>Company<br>Ajorta Pharma<br>Symphony<br>Escher Motors<br>P I Industrise<br>Page Industrise<br>Westhandh<br>Baja) France   | in ranks, dri<br>d-size, Qualit<br>tts all my life.<br>Really be effect<br>tions of factor<br>Price<br>CAGB (%)<br>100<br>50<br>55<br>77<br>68<br>68   | transformer and a series of the series of th | KSISTENT<br>Appeared<br>in WC<br>Study (*)<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                               | Price<br>CAGR (%)<br>43<br>36<br>35<br>34<br>31<br>29<br>28                               |
| 1 2 3 4 5 6 7 8 9                                    | THE BIGGEST<br>Campany<br>TES<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC | Mid-to-Meg<br>Iollagalooza<br>Longevity a<br>ic been searchi-<br>occis that eagle<br>il often come of<br>Wealth<br>Created<br>(NIR b)<br>3.458<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.545<br>1.54 | ps much a big changes<br>effect of MAGLP (Mi<br>and Price).<br>ag for forganizes area<br>in their accurates<br>their accurates<br>THE FASTEST<br>Company<br>Ajont Pharma<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Company<br>Comp | in ranks, dri<br>d-size, Qualit<br>Its all my life.<br>Really big effect<br>closes of factor<br>S-Year<br>Price<br>CAGR (%)<br>119<br>100<br>85<br>77<br>66<br>65<br>65<br>99  | by Growth, and Crowth, and Sank Committing India Committee India Comm | NSISTENT<br>Appeared<br>in WC<br>Study (4)<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                   | Price<br>CAGR (%)<br>43<br>35<br>34<br>31<br>29<br>28<br>28<br>27                         |
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>8 | THE BIGGEST<br>Campany<br>TCS<br>TCC<br>TCC<br>TCC<br>TCC<br>TCC<br>TCC<br>TCC<br>TCC<br>TCC                | <ul> <li>Mid-to-Meg<br/>Ioligaviocz<br/>Longevity a<br/>we been varatio<br/>weath<br/>Created<br/>(INK b)<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55<br/>1.55</li></ul>  | pp mich a big change<br>effect of MoGUP (Mi<br>and Price).<br>and Price).<br>and for Magnetize and<br>their occurrence   | in ranks, dri<br>disize, Qualit<br>Its all my life.<br>Really big effections of factor<br>and the second second<br>second second second<br>second second second<br>second second second<br>second second second<br>second second second second second second<br>second second second second second second second<br>second second second second second second second second<br>second second second second second second second second<br>second second second<br>second second | ng, Growth, as Tri very interesting<br>cts, follogulees, effective Marger<br>The Most Marger<br>THE MOST COP<br>Company<br>Titan Company<br>Sain Planna<br>Asian Plants<br>Rotal Mahindra<br>Dabor India<br>Baah<br>Asis Banh<br>Asis Banh<br>Sain Halla<br>Baah<br>Asis Banh  | xSISTENT<br>Appeared<br>in WC<br>5sudy (s)<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | Price<br>CAGR (N)<br>43<br>36<br>35<br>34<br>31<br>29<br>28<br>27<br>27<br>27<br>27<br>25 |



| 1                               | MOTILAL  | Osw                                      | AL.  |                                  | Thematic 5   | tudy   Dec           | ember 201                  |
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|                                 |  |  | 18th ANNU  | AL WEAL                          | TH CREATION  | STUDY (2             | 008-2013                   |
|                                 | -  |  | Uncon  | nmor                             | Profits  |                      |                            |
|                                 | 0 576  |  |  |                                  | ndurance   |                      |                            |
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|                                 | and a second   |  | Stock mark   |                                  | impenies = Oncomi  | nen wealth (         | reación in                 |
|                                 |  |  |  |                                  | f Value Creators is v  |                      |                            |
|                                 |  |  | corporate-p<br>the probab  |                                  | ion-cyclical business  | significantly        | increases                  |
|                                 |  |  | > Endurance  | of Value Cre                     | ators is mainly thre   |                      |                            |
|                                 | 1  | 4  | innovation/<br>capital mis-  |                                  | , major regulatory o   | hanges, and          |                            |
|                                 |  |  |  |                                  | s have become man  |                      |                            |
|                                 |  |  |  |                                  | e collapsing from 51<br>dian equities; the ri                                      |                      |                            |
|                                 |  |  |  | or long-term                     |  | at-reward eq         | uation is                  |
|                                 |  |  |  |                                  |  |                      |                            |
|                                 |  |  |  |                                  | for a stock to earn a n  |                      |                            |
|                                 |  |  |  |                                  | arns. If the business e<br>40 years, you're not go                                 |                      |                            |
|                                 |  |  |  |                                  | originally buy it at a hu<br>I over 20 or 30 years, e                              |                      |                            |
| -                               |  |  |  | ou'll end up v                   | ith one hell of a resul  |                      |                            |
|                                 |  |  |  | - Ch                             | arlie Munger, Vice-Cha   | irman, Berkshi       | re Hetheway                |
|                                 |  | то                                       | P 10 WEALTH CF   | REATORS                          | 2008-2013)   |                      |                            |
|                                 | THE BIGGEST  |  | THE FASTEST  |                                  | THE MOST CON   |                      |                            |
|                                 | Company  | Wealth<br>Created                        | Company  | S-Year<br>Price                  | Company  | Appeared<br>in WC    | 2004-13<br>Price           |
| Part                            | Contrast (   | (INR b)                                  | 10000  | CAGR (N)                         |  | Study (x)            | CAGR                       |
| Rank                            |  |  |  |                                  | Asian Paints   | 10                   | 36                         |
| - 1                             | TCS  | 2,284                                    | TTK Prestige   |                                  |  |                      |                            |
|                                 | TCS<br>ITC<br>HDFC Bank  | 2,284<br>1,635<br>872                    | TTK Prestige<br>Eicher Motors<br>Page Industries   | 95<br>59<br>51                   | Kotak Mahindra Ba<br>Sun Pharma  | nk 10<br>10          | 39                         |
| 1<br>2<br>3<br>4                | ITC<br>HDFC Bank<br>Infeatys                                     | 1.635<br>872<br>639                      | Eicher Motors<br>Page Industries<br>Wockhardt  | 59<br>51<br>50                   | Kotak Mahindra Ba<br>Sun Pharma<br>Hindustan Zinc                                  | 10                   | 33                         |
| 1<br>2<br>3<br>4<br>5           | ITC<br>HDFC Bank<br>Infease<br>Sun Pharma                        | 1,635<br>872<br>639<br>592               | Eicher Motors<br>Page Industries<br>Wockhardt<br>Grasim Inds                                 | 59<br>51<br>50<br>50             | Kotak Mahindra Ba<br>Sun Pharma<br>Hindustan Zinc<br>ITC                           | 10<br>10<br>10       | 83<br>32<br>21             |
| 1<br>2<br>3<br>4                | ITC<br>HDFC Bank<br>Infeays<br>Sun Pharma<br>O N G C             | 1,635<br>872<br>839<br>592<br>567        | Eicher Motors<br>Page Industries<br>Weckhardt<br>Grasim Inds<br>GRUH Finance                 | 59<br>51<br>50<br>50<br>47       | Kotak Mahindra Ba<br>Sun Pharma<br>Hindustan Zinc<br>ITC<br>Axis Bank              | 10<br>10<br>10       | 33<br>32<br>21<br>21       |
| 1<br>2<br>3<br>4<br>5<br>6      | ITC<br>HDFC Bank<br>Infease<br>Sun Pharma                        | 1,635<br>872<br>639<br>592               | Eicher Motors<br>Page Industries<br>Wockhardt<br>Grasim Inds                                 | 59<br>51<br>50<br>50             | Kotak Mahindra Ba<br>Sun Pharma<br>Hindustan Zinc<br>ITC                           | 10<br>10<br>10       |                            |
| 1<br>2<br>3<br>4<br>5<br>6<br>7 | ITC<br>HDFC Bank<br>Infeasys<br>Sun Pharma<br>O N G C<br>H D F C | 1,635<br>872<br>839<br>592<br>567<br>559 | Eicher Motors<br>Page Industries<br>Wockhardt<br>Grasim Inds<br>GRUH Finance<br>GSK Consumer | 59<br>51<br>50<br>50<br>47<br>47 | Kotak Mahindra Ba<br>Sun Pharma<br>Hindustan Zinc<br>ITC<br>Axis Bank<br>HDPC Bank | 10<br>10<br>10<br>10 | 33<br>32<br>21<br>21<br>21 |





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| 2                                  | MOTILAL  | Osw  | AL   |   | Thematic  | :Study   9C   | lecember 2011  |
|------------------------------------|--|--|--|---|---|---|--|
|                                    | 16TH   | ANNUA  | AL WEALTH CR   | EATION  | STUDY (200  | 06-2011)  |  |
|                                    |  | BI   | lue Chip   | Inv   | estina  |   |  |
|                                    |  |  | ating wealth   |   |   |   |  |
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|                                    |  | ment gro   | fountains of divide<br>with potential than is  |   |   |   |  |
|                                    | quali  | y of the   | here is no profitable<br>company doesn't sta<br>dend payouts and k   | op at prof  |   |   |  |
|                                    |  |  |  |   |   |   |  |
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| >           | Understanding of  | of Great, G  | iood and Gruesome c  | ompanie   | es is critical to inve   | stment suc  | cess.  |
|             | Great time to be<br>likely to remain  |  | ompanies (perpetual b<br>ite some time.  | onds) at  | reasonable price   | s, as intere  | st rates are   |
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| <b>Ronk</b> | of commodities.<br>Corporate profit<br>the market botto<br>THE BIGGEST<br>Company<br>Related Industries<br>Childo<br>Bhati Airdel<br>NAVIC                                    | vesiti<br>Wesiti<br>(Ra b)<br>3,077<br>1,593<br>1,505<br>1,355   | dor chum - dominance<br>last five years is unitielle<br>ex levels of 7,700.<br>10 WEALTH CREAT<br>THE FASTEST<br>Company<br>CAI<br>United<br>Jai Corp<br>NAMIC<br>Financial Schwideges<br>BF Uklikes             | V to cor<br>ORS (2<br>S-Year<br>Price<br>DR (%)<br>284<br>216<br>187<br>177<br>173          | 1003 - 2008)<br>THE MOST C<br>Company<br>Infess<br>Here Handa<br>Renbary Labs<br>Sun Pharma<br>Reliance Industries                     | ONSISTEM<br>Appeared<br>in W(c)<br>10<br>10<br>9<br>9                           | (T<br>10-Year<br>Price<br>CAGR (%)<br>26.7<br>16.5<br>8.7<br>46.0<br>40.5  |
| Ronk        | of commodities.<br>Corporate profit<br>the market botto<br>THE BIGGEST<br>Company<br>Reliance Industries<br>CNIGC<br>Binost Airdel<br>NAVIDC<br>MARTC<br>BHEL                 | v see a se<br>boom of<br>m at Sens<br>TOP<br>Wealth<br>Created<br>(Rab)<br>3,077<br>1,593<br>1,505<br>1,366<br>1,366<br>1,366<br>1,366 | dor chum - deminance<br>last fire years is unitielle<br>ex levels of 7,700.<br>10 WEALTH CREAT<br>THE FASTEST<br>Company<br>CAN<br>United<br>jai Comp<br>MMC<br>France Technologies<br>BF Unites<br>Asso Diffuse | CRS (2<br>5-Year<br>Price<br>58 (%)<br>284<br>216<br>187<br>173<br>160                      | 1003 - 2008)<br>THE MOST C<br>Company<br>Infests<br>Here Handa<br>Renbary Labs<br>Son Pharma<br>Reliance inductives<br>Here Inductives | ONSISTED<br>Appeared<br>in WC<br>Study (4)<br>10<br>10<br>10<br>9<br>9<br>9     | 10-Year<br>Price<br>CAGR (\$)<br>257<br>165<br>87<br>460<br>405  |
| ><br>Ronk   | of commodities.<br>Corporate profit<br>the market botto<br>THE BIGGEST<br>Company<br>Relarce Industries<br>CNIGC<br>Biost Juriel<br>INVDC<br>MMITC<br>BHBL<br>Larren & Toubro | o see a se<br>boom of im at Sens<br>TOP<br>Wealth<br>Created<br>(Ra b)<br>3,077<br>1,583<br>1,585<br>1,386<br>1,084<br>952<br>813      | dor chum - dominance<br>last five years is unitielle<br>ex levels of 7,700.  10 WEALTH CREAT THE FASTEST Company CAI United Jai Corp MARC Financia Technologies BF Ukites Alas Officiae NARC                     | CRS (2<br>5-Year<br>Price<br>DR (X)<br>284<br>216<br>187<br>177<br>177<br>177<br>160<br>155 | tinue. However, w<br>1003 - 2008)<br>THE MOST C<br>Cempany<br>Infess<br>Marc Harris<br>Resource Industries<br>HOFC<br>Cipic            | ONSISTED<br>Appeared<br>in W(c)<br>10<br>10<br>10<br>9<br>9<br>9<br>9           | 10-Year<br>Price<br>CAGR (%)<br>257<br>16.5<br>8.7<br>16.5<br>8.7<br>16.5<br>8.7<br>16.5<br>8.7<br>16.5<br>8.7<br>16.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10 |
| <b>Ronk</b> | of commodities.<br>Corporate profit<br>the market botto<br>THE BIGGEST<br>Company<br>Reliance Industries<br>CNIGC<br>Binost Airdel<br>NAVIDC<br>MARTC<br>BHEL                 | v see a se<br>boom of<br>m at Sens<br>TOP<br>Wealth<br>Created<br>(Rab)<br>3,077<br>1,593<br>1,505<br>1,366<br>1,366<br>1,366<br>1,366 | dor chum - deminance<br>last fire years is unitielle<br>ex levels of 7,700.<br>10 WEALTH CREAT<br>THE FASTEST<br>Company<br>CAN<br>United<br>jai Comp<br>MMC<br>France Technologies<br>BF Unites<br>Asso Diffuse | CRS (2<br>5-Year<br>Price<br>58 (%)<br>284<br>216<br>187<br>173<br>160                      | 1003 - 2008)<br>THE MOST C<br>Company<br>Infests<br>Here Handa<br>Renbary Labs<br>Son Pharma<br>Reliance inductives<br>Here Inductives | ONSISTER<br>Appeared<br>in WC<br>Study (a)<br>10<br>10<br>9<br>9<br>9<br>9<br>9 | 10-Year<br>Price<br>CAGR (\$)<br>257<br>165<br>87<br>460<br>405  |

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|                  |   |   |   |  |   |   |   |
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|                  | Creat   | ng wea  | alth from th  | e unknov   | vn and uni  | nowable   |   |
|                  |   |   |   |  | HIGH  | ILIGHTS   |   |
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|                  | THE BIGGEST   |   | O WEALTH C<br>THE FASTEST   |  | Indi<br>crea<br>Savi<br>thro<br>opp<br>fina   | cator of fast<br>ation<br>- Ten Trillion<br>ings through<br>w up many<br>ortunities in<br>ncial service<br>10)<br>CONSISTER   | e valuation<br>test wealth<br>n Dallar<br>2020 - wi<br>UU investin<br>Indian<br>55  |
| Ronj             |   |   |   | 5-Year<br>Price  | Indi<br>crei<br>Sav<br>thra<br>opp<br>fina<br>(2005 - 20  | cator of fast<br>ation<br>— Ten Trillio<br>Ings through<br>w up many<br>ortunities in<br>ncial service<br>10)   | e valuation<br>test wealth<br>2020 - wi<br>UU investin<br>Indian<br>25  |
| Ronk             | Company   | Wealth<br>Created<br>(Ra b)   | THE FASTEST   | 5-Year   | (2005 - 20<br>THE MOST<br>Company   | cater of fast<br>stion<br>- Ten Thillion<br>Inga through<br>w up many i<br>ortunities in<br>artunities in<br>CONSISTEN<br>Appeared<br>In WC<br>Study (A)  | e valuation<br>test wealth<br>n Dollar<br>2020 – wi<br>UU investin<br>Indian<br>cs<br>NT<br>10-Near<br>Price<br>CAOR (S)  |
| 1                | <b>Company</b><br>Reliance Inda.  | Wealth<br>Created<br>(Ra b)<br>2,556  | THE FASTEST<br>Compony  | 5-Year<br>Price<br>CAOR (%)<br>%   | (2005 - 20)<br>THE MOST<br>Cempeny<br>Here Handa Ma   | cator of fast<br>tition<br>- Ten Trillion<br>Ings through<br>w up many w up many w<br>ortunilies in<br>necial service<br>10)<br>CONSISTEP<br>Appeared<br>In WC<br>Starby (a)<br>tor 100   | e valuation<br>test wealth<br>n Doller<br>2020 - w<br>UU investin<br>Indian<br>cs<br>NT<br>10-Year<br>Price<br>CAOR (%)<br>339  |
| 1 2              | Company<br>Reliance Inda.<br>O N G C  | Wealth<br>Created<br>(Ra b)<br>2,556<br>1,092   | THE FASTEST<br>Company<br>Unitech<br>Areiro TSD   | 5-Year<br>Price<br>CAGR (%)<br>95<br>65  | (2005 - 20<br>THE MOST<br>Campany<br>Here Handa Md<br>Sun Fharma  | cator of fast<br>trion<br>- Ten Trillion<br>ings through<br>w up many<br>ortunities in<br>necial service<br>10)<br>CONSISTEP<br>Appeared<br>in WC<br>Study (a)<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                | e valuation<br>nobilar<br>2020 - wi<br>UU immestin<br>Indian<br>cs<br>NT<br>10-Year<br>Price<br>CAOR (%)<br>33.9<br>33.9<br>33.9  |
| 1                | Company<br>Relance Inda.<br>O N G C<br>NWDC   | Wealth<br>Created<br>(Ra b)<br>2,556<br>1,092<br>1,014  | THE FASTEST<br>Composy<br>Unitech<br>Arevo TSD<br>Jorda Dated   | 5-Year<br>Price<br>CAGR (%)<br>%<br>%  | (2005 - 20)<br>THE MOST<br>Cempany<br>Hara Handa Ma<br>Sun Phorma<br>Asian Phorma   | cater of fast<br>trian - Ten Trillion<br>Inga through<br>w up many i<br>ortunities in<br>nocial service<br>IO) CONSISTEP<br>Appeared<br>in WC<br>Study (4)<br>for 10<br>10<br>10  | a valuation<br>test wealth<br>n Dollar<br>2020 - wi<br>UU investin<br>totion<br>cs<br>NT<br>10-Year<br>Price<br>CAOR (%)<br>339<br>332<br>2223                              |
| 1<br>2<br>3<br>4 | Company<br>Reliance Inda.<br>O N G C<br>NWDC<br>NTPC  | Wealth<br>Created<br>(Ra b)<br>2,556<br>1,092<br>1,014<br>1,000                               | THE FASTEST<br>Compony<br>Unitech<br>Areno T&D<br>Junial Deteil<br>Adani Enterprises  | 5-Year<br>Price<br>CAOR (%)<br>%<br>86<br>82<br>73   | (2005 - 20<br>THE MOST<br>Cempany<br>Here Handa MC<br>Aue Plante<br>Aue Plante<br>Mere Handa MC<br>Here Handa MC<br>Here Handa MC | cater of fast<br>trion<br>- Ten Trelloon<br>ings through<br>w up many<br>ortunities in<br>necial service<br>10)<br>CONSISTEP<br>Appeared<br>in WC<br>Study (s)<br>Nor<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10         | a valuation<br>test wealth<br>n Dollar<br>2020 - wi<br>UU investin<br>Indian<br>cs<br>10-Near<br>Price<br>CAOR (%)<br>332<br>223<br>221                                     |
| 1 2              | Company<br>Relance Inds.<br>O N G C<br>NMDC<br>NMTC<br>B H E L                                | Wealth<br>Created<br>(Ra b)<br>2,556<br>1,092<br>1,014<br>1,000<br>980                        | THE FASTEST<br>Company<br>Unitech<br>Arena T&D<br>Josial Steal<br>Adam Enterprises<br>Sean Goo                                    | 5-Year<br>Price<br>CAGR (%)<br>%<br>66<br>62<br>73<br>67   | (2005 - 20<br>THE MOST<br>Company<br>Hero Handa Mc<br>Sun Rhorma<br>Auton Parks<br>H D F C<br>H MC Standa                         | cater of fast<br>trian<br>- Ten Thillion<br>ings through<br>w up many<br>orrunities in<br>nicial service<br>10)<br>CONSISTER<br>Appeared<br>in WC<br>Study (a)<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                | a valuation<br>test wealth<br>Dollar<br>2020 - wi<br>UU investin<br>todion<br>5<br>NT<br>10-Near<br>Price<br>CAOR (%)<br>339<br>332<br>239<br>332<br>2231<br>267            |
| 1 2 3 4          | Company<br>Reliance Inds.<br>O N G C<br>NMPC<br>NMPC<br>B H E L<br>B H E L                    | Waath<br>Created<br>(Ra b)<br>2,556<br>1,092<br>1,014<br>1,000<br>980<br>570                  | THE FASTEST<br>Company<br>Unitech<br>Arena T&D<br>Josial Steal<br>Adam Enterprises<br>Sean Goo                                    | 5-Year<br>Price<br>CAO1 (%)<br>95<br>85<br>82<br>73<br>87<br>87<br>87<br>87<br>87  | (2005 - 20<br>THE MOST<br>Cempany<br>Here Handa MC<br>Aue Plante<br>Aue Plante<br>Mere Handa MC<br>Here Handa MC<br>Here Handa MC | cater of fast<br>attion<br>- Ten Thillied<br>in Thillied<br>many through<br>w up many<br>many in<br>attinuits<br>in many<br>CONSISTEP<br>Appeared<br>in WC<br>Brody (a)<br>in<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | a valuation<br>n Dollar<br>2020 – wi<br>UU investin<br>Indian<br>s<br>NT<br>10-Near<br>Price<br>CAOR (%)<br>332<br>223<br>223<br>221<br>2267<br>237                         |
| 1<br>2<br>3<br>4 | Company<br>Faliance Inda.<br>O N G C<br>NMDC<br>NMPC<br>B H E L<br>Infogn Technologies<br>TCS | Wealth<br>Created<br>(Ra b)<br>2,556<br>1,092<br>1,014<br>1,014<br>1,000<br>980<br>670<br>638 | THE FASTEST<br>Company<br>Unliech<br>Armo TSD<br>Jordal Steel<br>Adari Enterprises<br>Sess Goe<br>Skrivan Tronsport<br>Exide Indo | 5-Year<br>Price<br>CAOR (%)<br>%<br>86<br>82<br>73<br>87<br>85<br>82<br>73<br>85<br>82<br>73<br>85<br>83<br>83<br>83<br>83<br>83<br>83<br>83<br>83<br>83<br>83<br>83<br>83<br>83 | (2005 - 20<br>THE MOST<br>Here Monda Me<br>San Parma<br>Here Manda Me<br>San Parma<br>Augu Parks<br>Here Manda Me<br>San Parma    | colter of fast<br>attion<br>- Ten Thillion<br>nga through<br>mu up many<br>ortunities in<br>nocial service<br>to<br>CONSISTEP<br>Appeared<br>in WC<br>Study (n)<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10               | a voluation<br>isst wealth<br>n Doller<br>2020 – wi<br>UU investin<br>Indian<br>indian<br>S<br>NT<br>10-Year<br>Price<br>CAOR (%)<br>339<br>332<br>267<br>223<br>267<br>199 |
| 1 2 3 4          | Company<br>Reliance Inds.<br>O N G C<br>NMPC<br>NMPC<br>B H E L<br>B H E L                    | Waath<br>Created<br>(Ra b)<br>2,556<br>1,092<br>1,014<br>1,000<br>980<br>570                  | THE FASTEST<br>Company<br>Unitech<br>Arena T&D<br>Josial Steal<br>Adam Enterprises<br>Sean Goo                                    | 5-Year<br>Price<br>CAO1 (%)<br>95<br>85<br>82<br>73<br>87<br>87<br>87<br>87<br>87  | (2005 - 20<br>THE MOST<br>Company<br>Hero Handa Mc<br>Sun Rhorma<br>Auton Parks<br>H D F C<br>H MC Standa                         | colter of fast<br>attion<br>- Ten Thillion<br>nga through<br>mu up many<br>ortunities in<br>nocial service<br>to<br>CONSISTEP<br>Appeared<br>in WC<br>Study (n)<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10               | a valuation<br>n Dollar<br>2020 – wi<br>UU investin<br>Indian<br>s<br>NT<br>10-Near<br>Price<br>CAOR (%)<br>332<br>223<br>223<br>221<br>2267<br>237                         |

|      |                            | NUA                         | 2002<br>L WEAL             | - 2007  |  | N STI   | UDY  |
|------|----------------------------|-----------------------------|----------------------------|---|--|---|--|
|      |                            |                             | BY RAAME                   | DEO AGRAV   | /AL  |   |  |
|      |                            | TOP                         | 10 WEALTH C                | REATORS (2  | 002 - 2007)  |   |  |
|      | THE BIGGEST                |                             | THE FASTEST                |   | THE MOST C   | ONSISTEN  | т  |
| Rank | Company                    | Wealth<br>Created<br>(Rs b) | Company                    | 5-Year<br>Price<br>CAGE (%)                                     | Company  | Appeared<br>in WC<br>Study (a)  | 15-Ye<br>Pric  |
| 1    | Reliance Inds              | 1,856                       | IF Utilities               | 267   | Hero Honda   | 12  |  |
| 2    | ONGC                       | 1,490                       | Unitech                    | 246   | Ranbaxy Labs   | 12  |  |
|      | Bharti Ainel               | 1,366                       | Anant Raj Inds             | 232   | Wpro   | 11  |  |
|      | Infosys Tech               | 855                         | Praj Indi                  | 207   | Cipla  | 11  |  |
|      | ICICI Bank                 | 566                         | Aban Offshore              | 170   | Dr Roddy 5 Labs  | 11  |  |
|      | BHEL                       | 512                         | Kirl Brothers              | 156   | HDFC   | 11  |  |
|      | S A I L<br>Larsen & Toubro | 451                         | Guj Flourochem<br>Sexa Goa | 138   | Asian Paints   | 10  |  |
|      | State Bank of India        |                             | Areva 1&D                  | 134   | Nicholas Picamal   | 10  |  |
|      | Wero                       | 304                         | Pantaloon Retail           | 129   | GlasoSmithKine   | 10  |  |
|      |                            |                             | <b>S</b> )                 | to la<br>chan<br>guara<br>& Indiah<br>buoya<br>& imw<br>& At cu | shifts<br>ins are found w<br>inge business<br>ges or sustaine<br>inteed when one<br>inext trillion dollar<br>int corporate profi<br>istment.<br>rrent valuations,<br>is low. However | opportunit;<br>d growth;<br>grossly ov<br>journey will<br>ts, and boor<br>margin of s | y, posit<br>losses a<br>erpays,<br>see distin<br>m in savi<br>afety in |
| Raam |                            |                             | e<br>Alithan               | lift th<br>quite  | e market to rich<br>some time.   | levels of w   |  |