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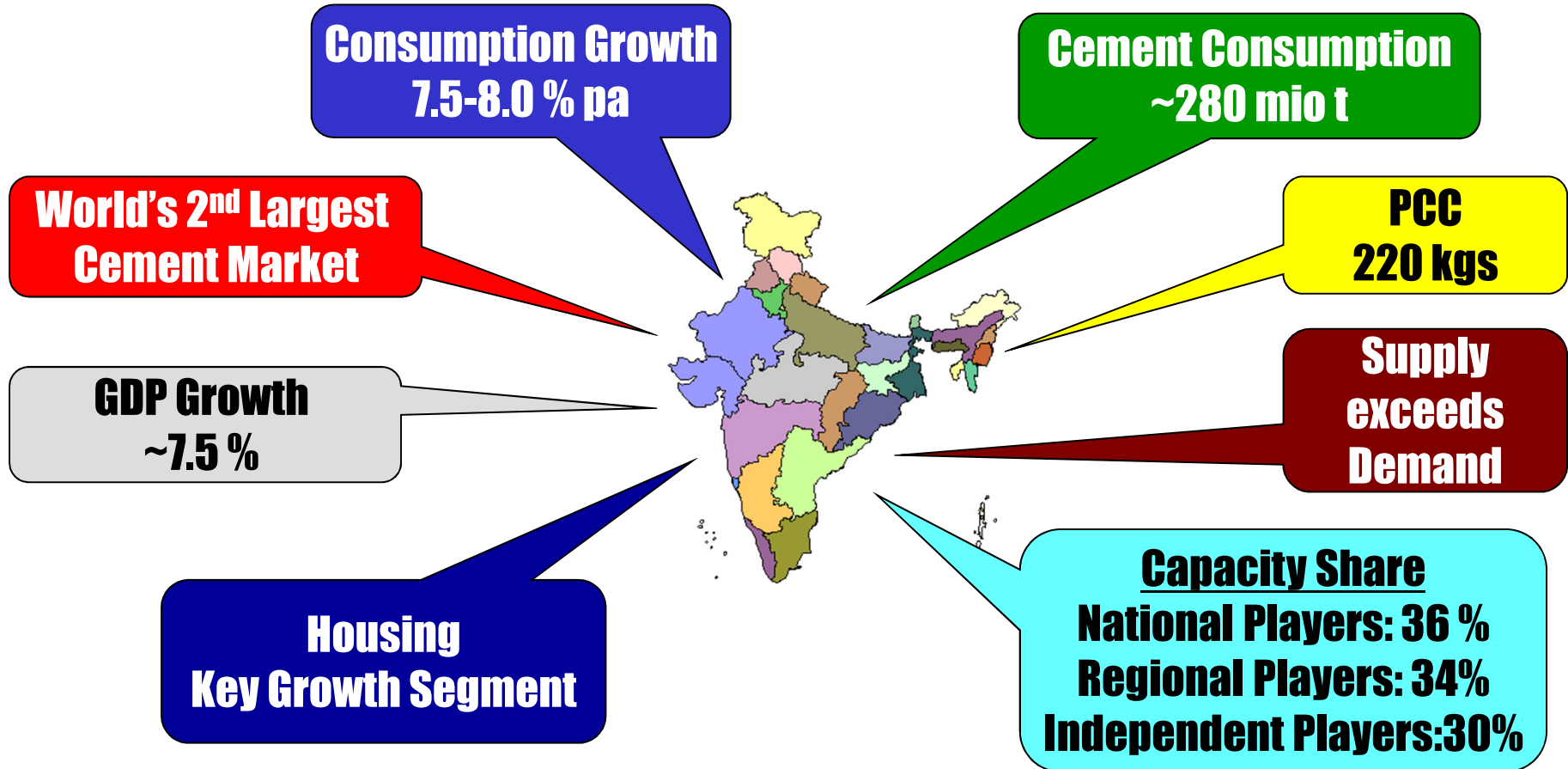
# **THE INDIAN CEMENT INDUSTRY**

## **MYTHS VS. FACTS**



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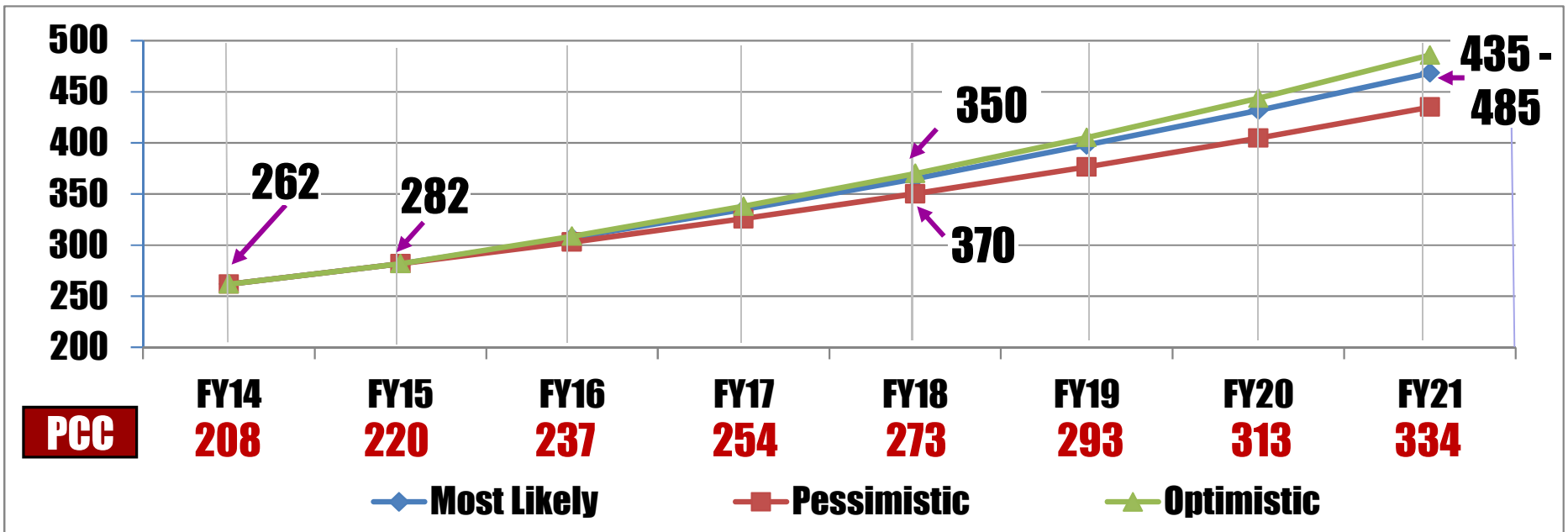
# Indian Cement Market – FY 2015



# Demand



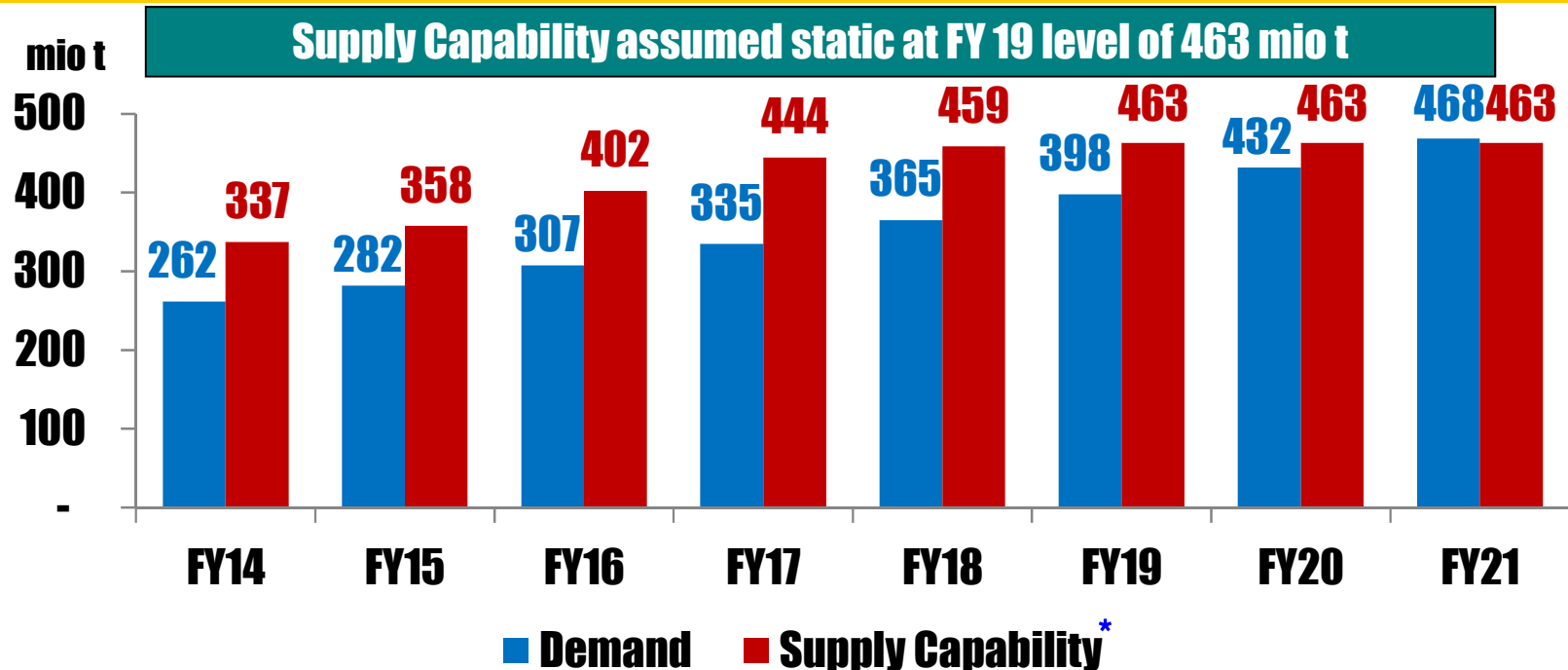
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Over the period, we expect the CAGR of Demand to vary between 7.5 to 9.5 % between the Pessimistic and Optimistic forecasts.

In the Most Likely case it is expected to be ~9% which would result in a PCC growth of 7 % pa.

# Demand & Supply Projections



*\*Refers to domestic supply (net of exports), assuming supply for any capacity added as 50% in Yr 1 & 100% from Yr2 onwards & 90% Cap. Util.*

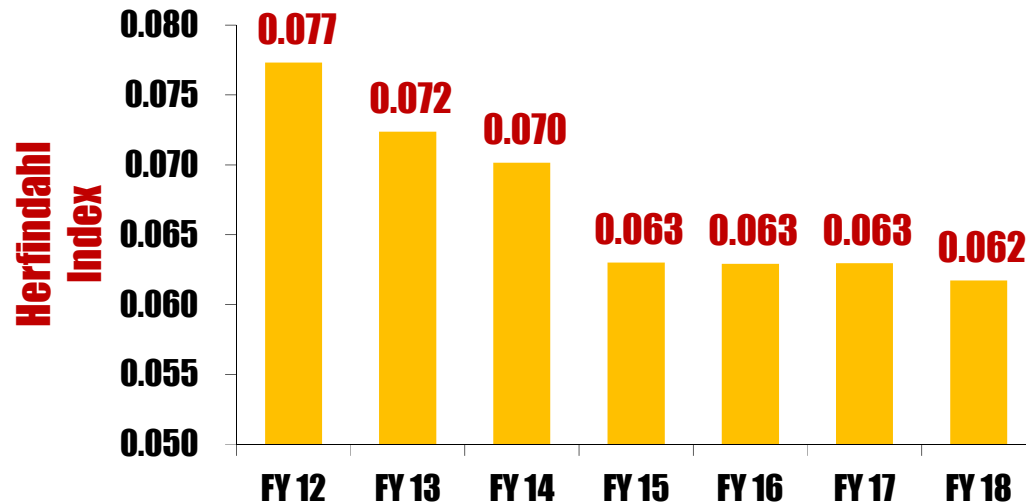
*Supply capability also accounts for possible plants' closure – those that are very old, are not strategically located and have paucity of limestone.*

**After trailing potential supply between FY 13-FY 20, demand could exceed supply beyond FY 20, if fresh capacity expansion is not planned earlier.**

# Myth 1: Industry Consolidation



**Herfindahl Index (HI) is a preferred metric to measure industry consolidation when studying market price implications.**



**The index is seen to be falling implying a negative impact on prices.**

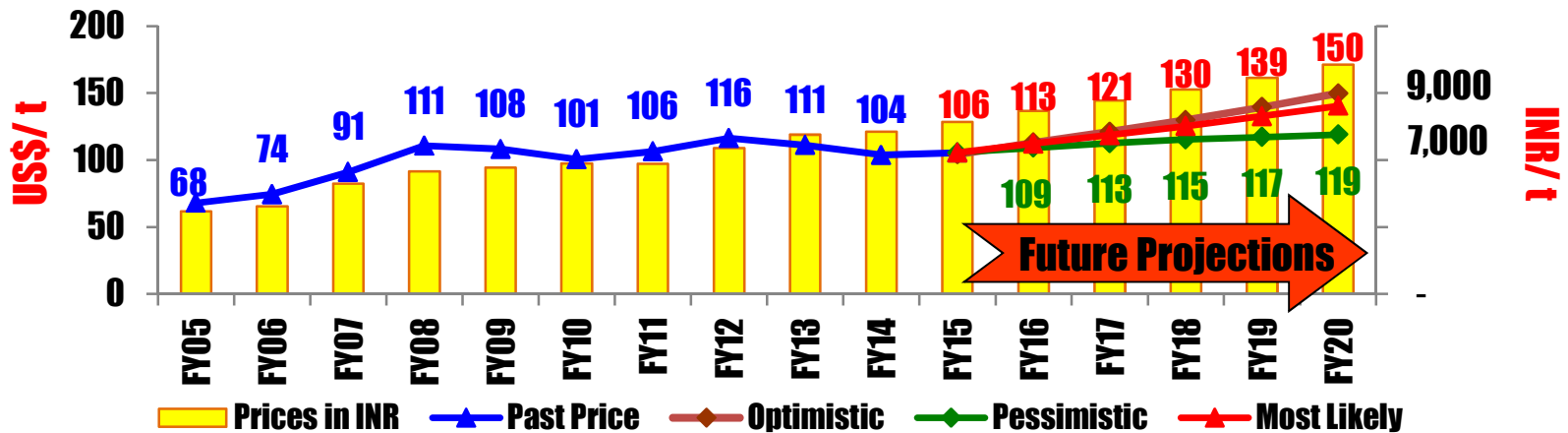
**To arrest this fall, the 3 largest players, singly or in tandem, have to create/ acquire more capacity.**

**Our analysis shows, that if either of these three players desire to arrest the Index at its FY12 level, they would need to attain a capacity of ~ 245 mio t by FY 18 (instead of the current estimated ~180 mio t).**



# Myth 2: Prices to Fall Sharply

- **Fear that prices may fall due to prevalent demand-supply gap.**
- **Hypothesis tested by modeling and simulating the combined impact of various variables on retail price. Over 40 variables evaluated.**
- **Prices in past have grown at 5-8% pa.**
- **Future prices likely to increase by around 6% pa.**



**After Demand -Supply, rising input materials' prices have the most significant impact.**

# Myth 3: High Breakeven Point



## Hypothesis tested by considering:

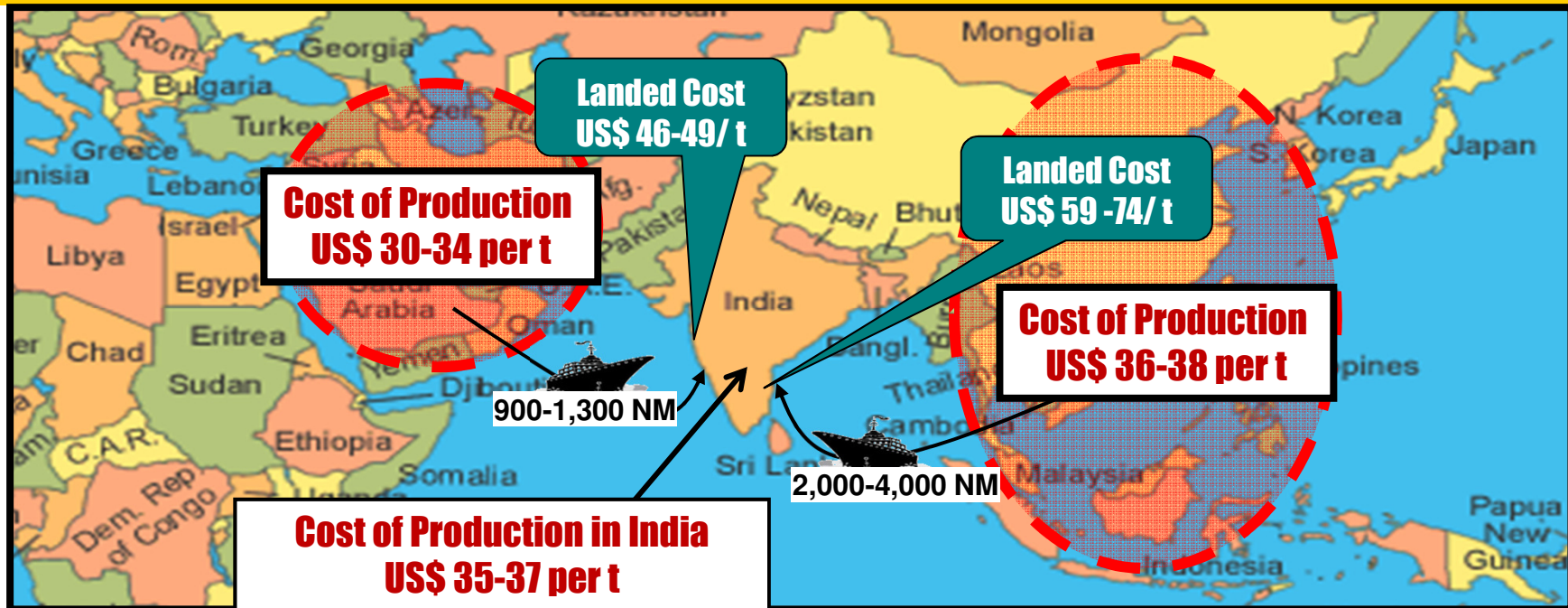
- ✓ Price points: **US\$ 106/ t** (FY 2015 levels), **US\$ 112/ t** (FY 2016 levels) & **US\$ 141 / t** (FY 2020 levels).
- ✓ Specific Investing Cost/ t of OPC: **US\$ 130-135.**
- ✓ Operational breakeven **in 4<sup>th</sup> year of operations.**

Price	Breakeven
US\$ 106/ t	48-50 %
US\$ 112/ t	46-48 %
US\$ 141/ t	43-45 %

**In Case 3, after considering loan repayment, breakeven seen to be ~ 70 %**

**Lower variable cost of production effected through improved, technologically-driven, energy efficiencies, falling cost of fuel and a much higher volume of blended cement.**

# Myth 4: Imports to Reduce Prices



**Bottlenecks hindering imports include ports infrastructure, domestic distribution, market reach, competitiveness with domestic players, etc.**

**Low threat of imports and its impact on prices.**



# Myth 5: Blending Material Shortage



## Fly ash

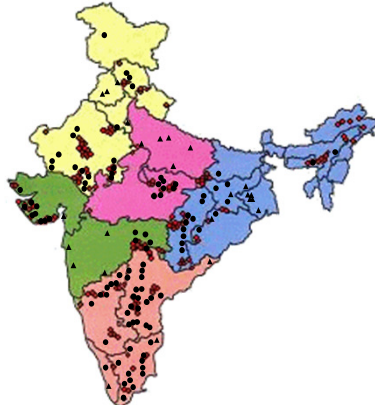
- **Current flyash generation is around 100 mio tpa.**
- **45 mio tpa of flyash is currently utilized by the cement industry.**
- **An additional 80 mio tpa could be available by FY 2016/2017 as against an incremental requirement of 25 mio tpa in next 4-5 years.**

## Slag

- **Current slag generation is around 13 mio tpa.**
- **8-9 mio tpa of slag is utilized by the cement industry.**
- **An additional 12 mio tpa could be available by FY 2016/ 2017 as against an incremental requirement of 6-7 mio tpa in next 4-5 years.**

**Availability appears assured. Yet, advance booking of future strategically located sources being increasingly adopted.**

# Myth 6: Limestone No Constraint



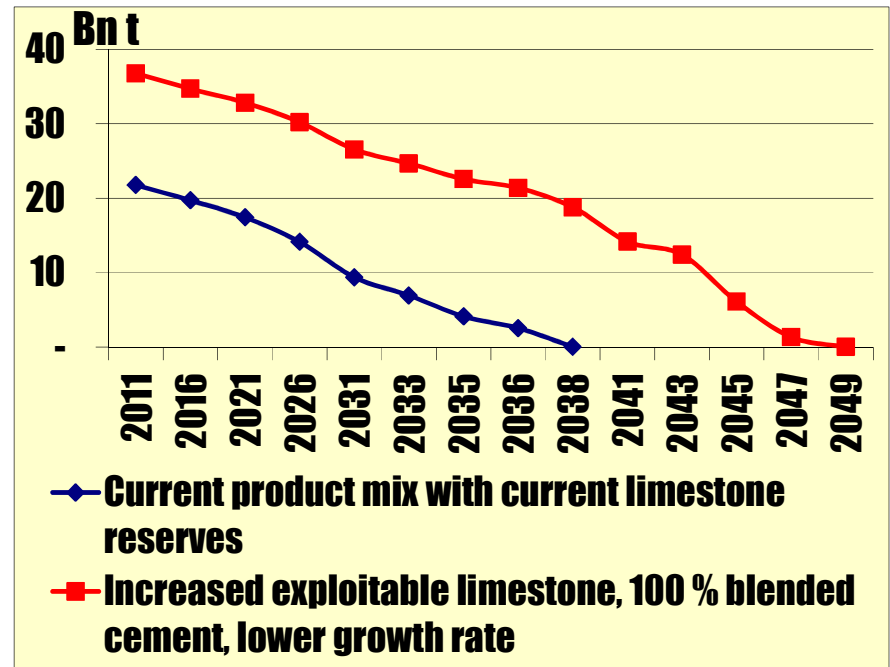
**Total Deposits = 50 bio t**

**Individual Deposit > 50 mio t  
CaO > 42%  
45 bio t**

**In Forest Land  
4 bio t**

**Statutorily Blocked  
19 bio t**

**Exploitable Reserves = 22 bio t**



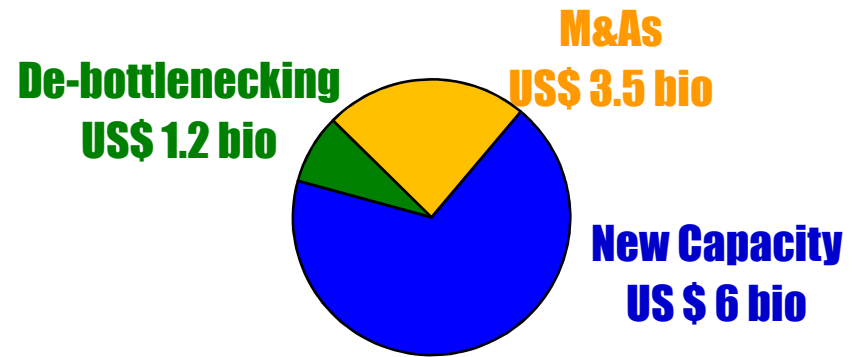
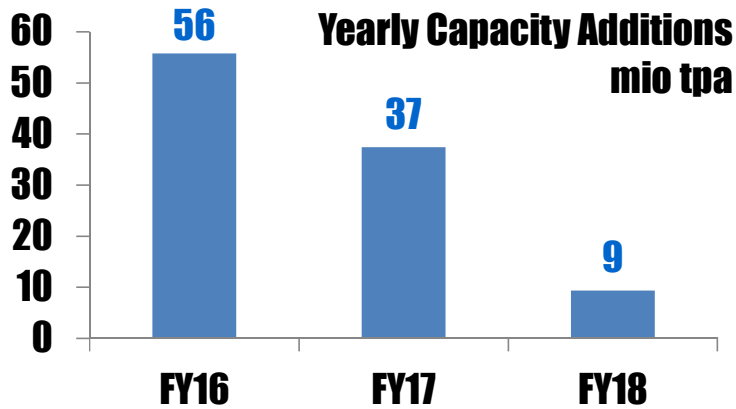
**Need to secure deposits  
well in advance**

# Implications

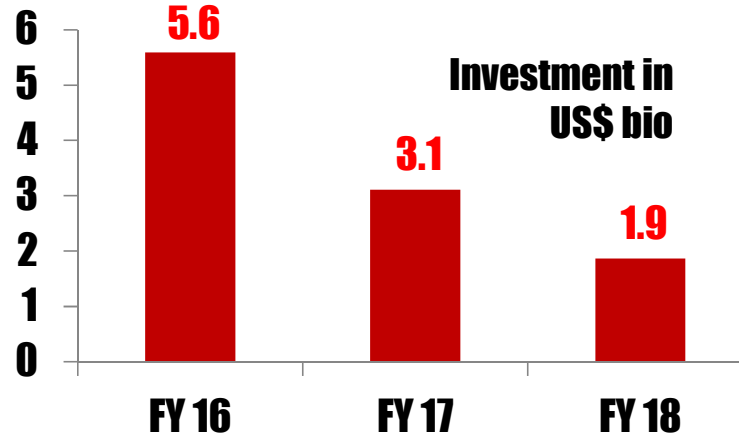


HAPPENING	IMPLICATION
<b>Increasing Cement Demand</b>	<b>Capacity expansion to continue 100 mio tpa in next 3-4 years</b>
<b>Deconsolidation</b>	<b>Lower control over the industry</b>
<b>Good Prices</b>	<b>Reasonable Returns</b>
<b>Low Breakeven Point</b>	<b>New players survival likelihood higher in nascent stage</b>
<b>Limestone Constraint</b>	<b>Conservation efforts and increased production of blended cement</b>
<b>Sufficient Blending Material</b>	<b>Availability not a constraint, however, need to tie up in advance with strategically located resources</b>

# Investment Size

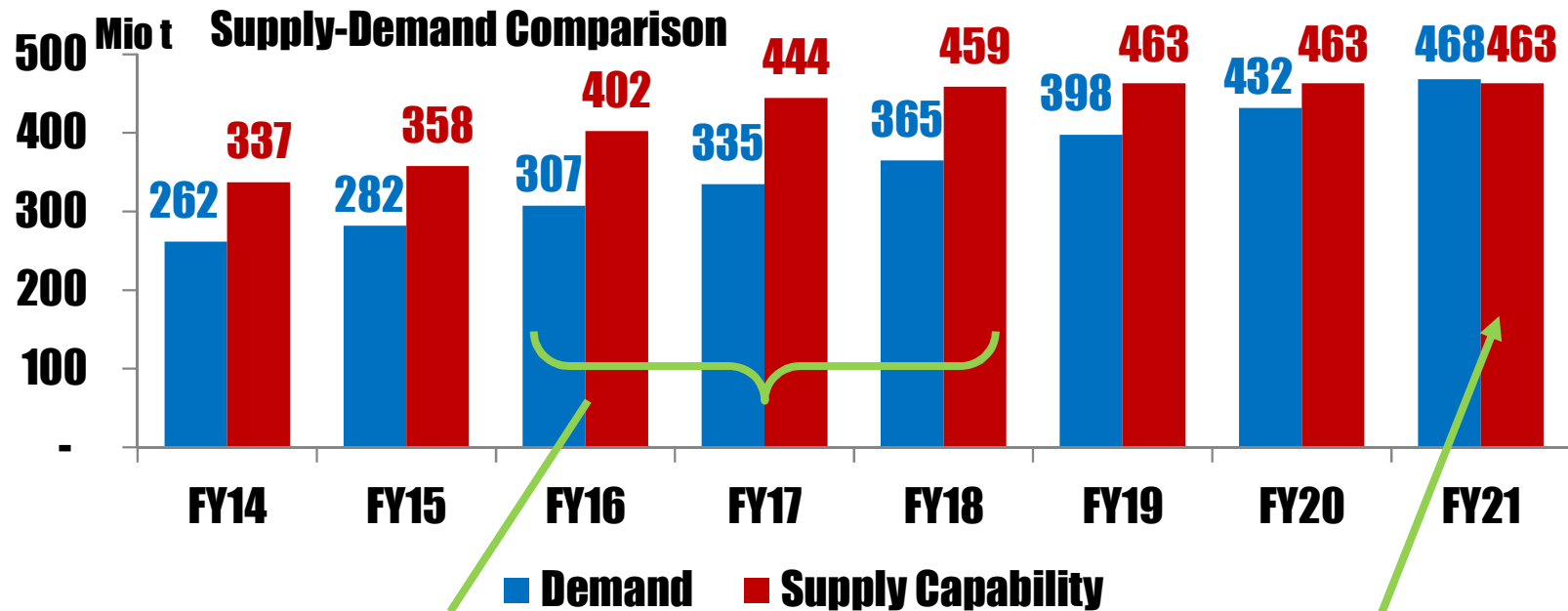


**Investment Cost likely to increase from the current US\$ 130/ t to ~ US\$ 160/ t. Gestation Period of 48-72 months.**



**Total Investment ~ US\$ 11 bio**

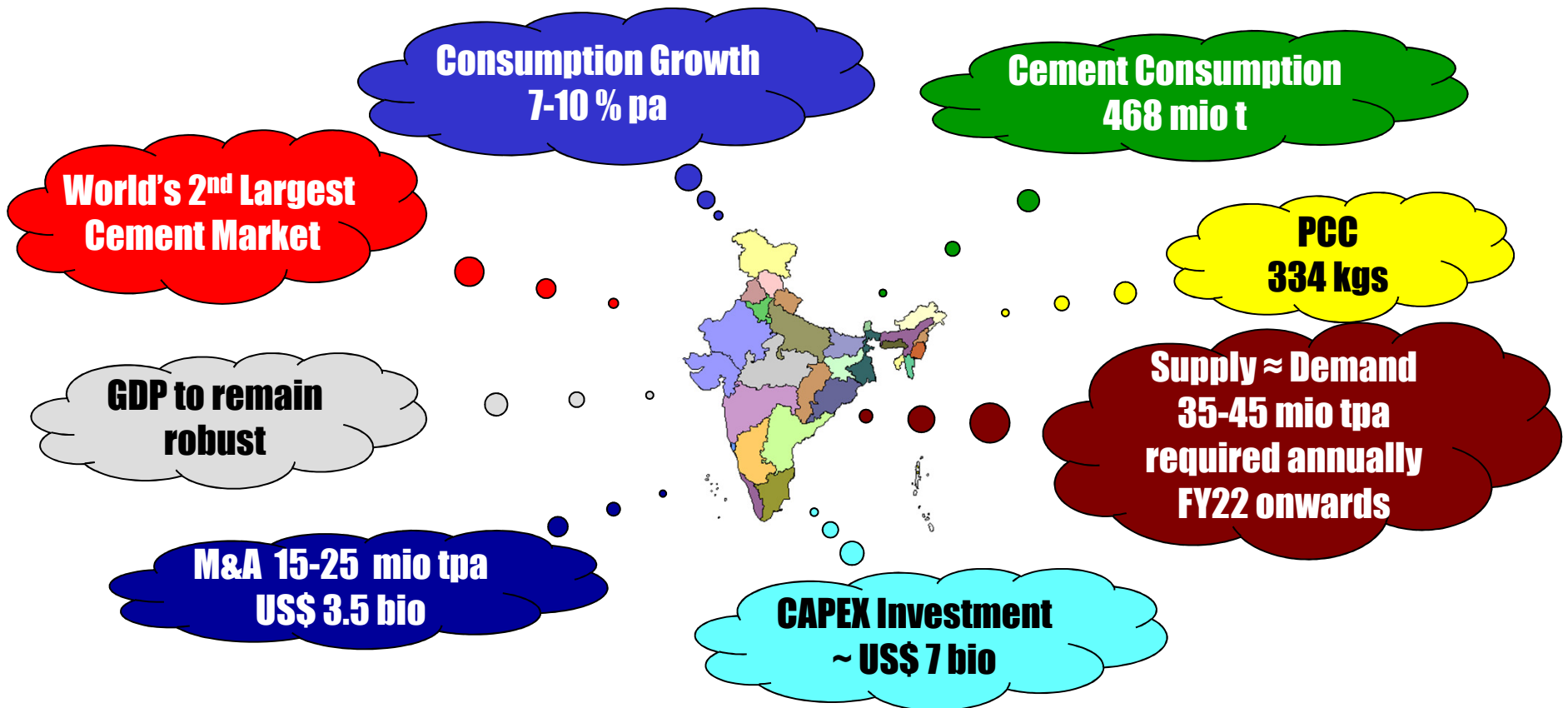
# Investment Timing



**Substantial surplus capacity seen in FY 2016 - FY 2018... Valuation could be lower!**  
**M&A could see 15-25 mio tpa exchanging hands.**

**Demand exceeds Supply.**  
**New expansion plans should be underway by FY 2016/ 17.**

# Indian Cement Market – FY 2021





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**Thank you**