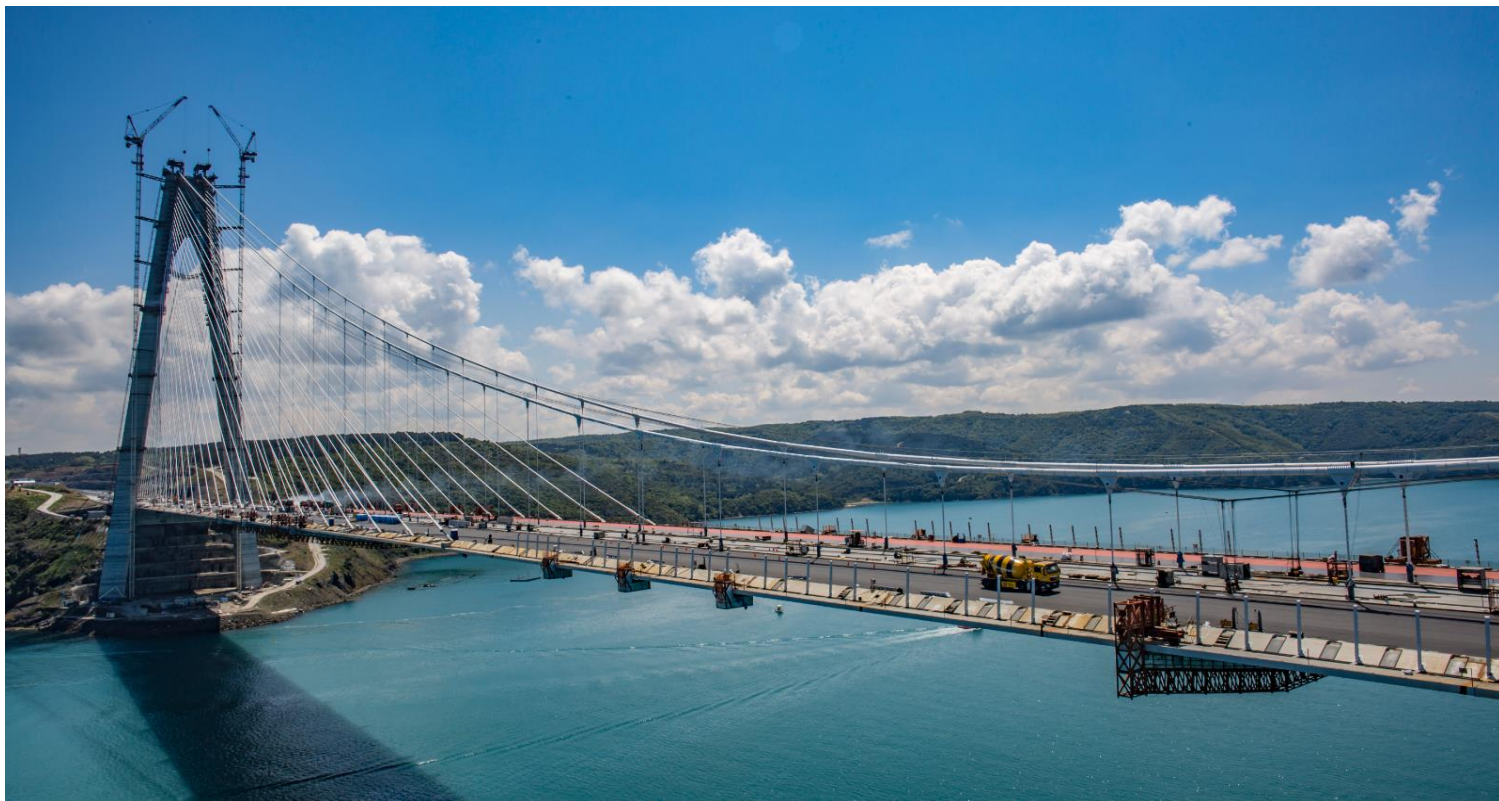




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# 2016 1H Results

Umut Zenar, GM  
Dr. Carsten Sauerland, CFO

24 August 2016

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# Agenda

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## 1. Market Overview

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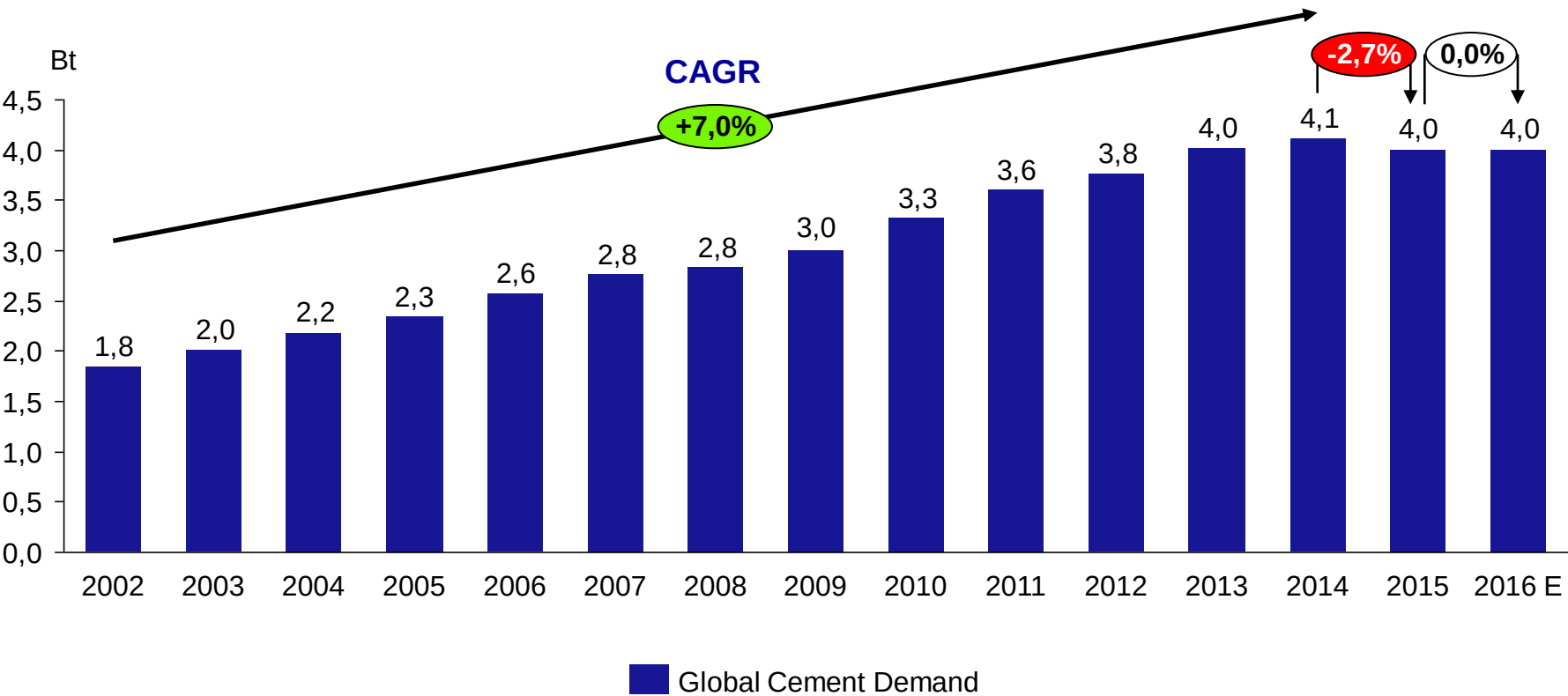
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# Global Market Trend (1/2)

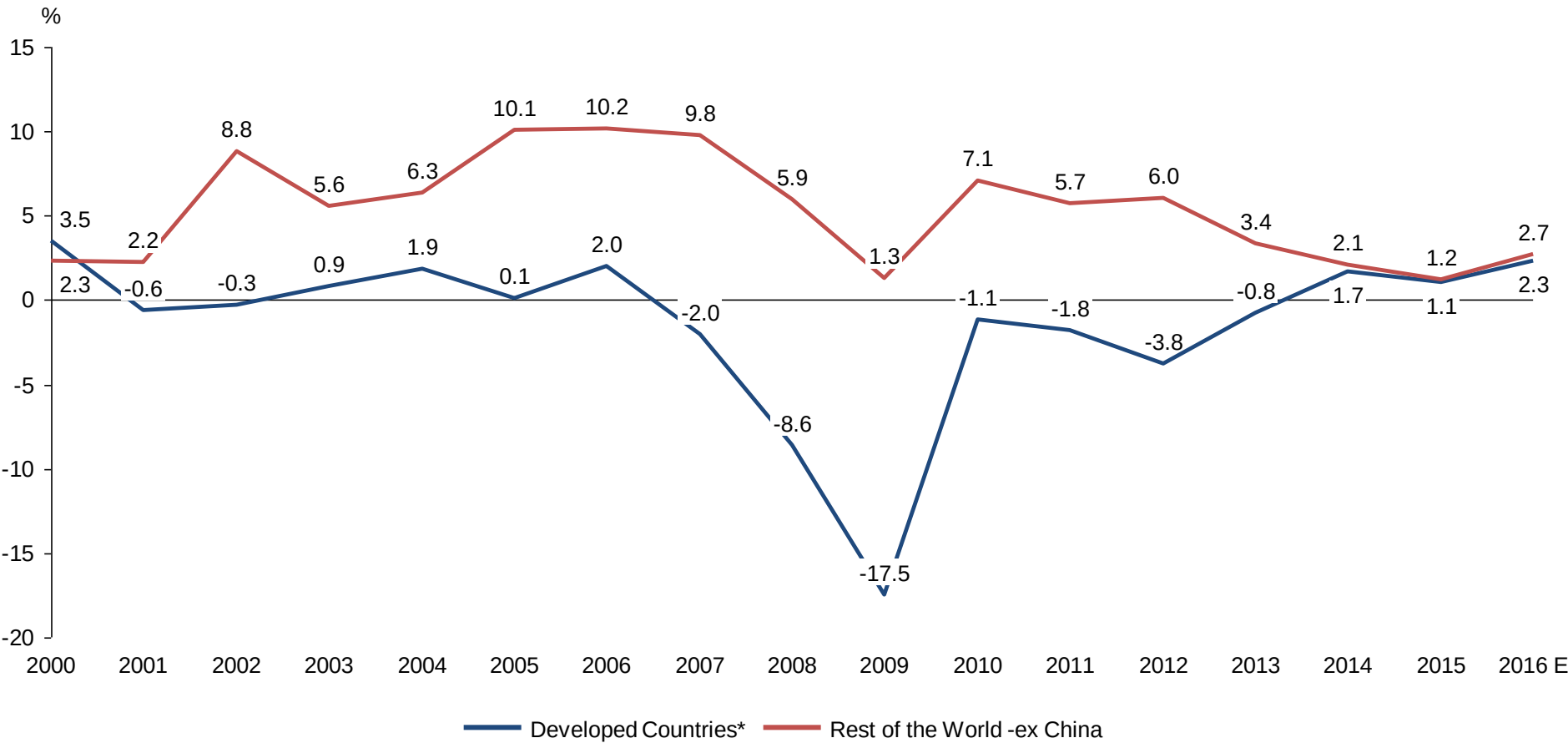
Global cement demand is expected to be 4b ton in 2016



Source: Global Cement Report 2015 11th Edition, CemWeek Monthly Reports

# Global Market Trend (2/2)

In line growth performance of developed and other countries in recent years

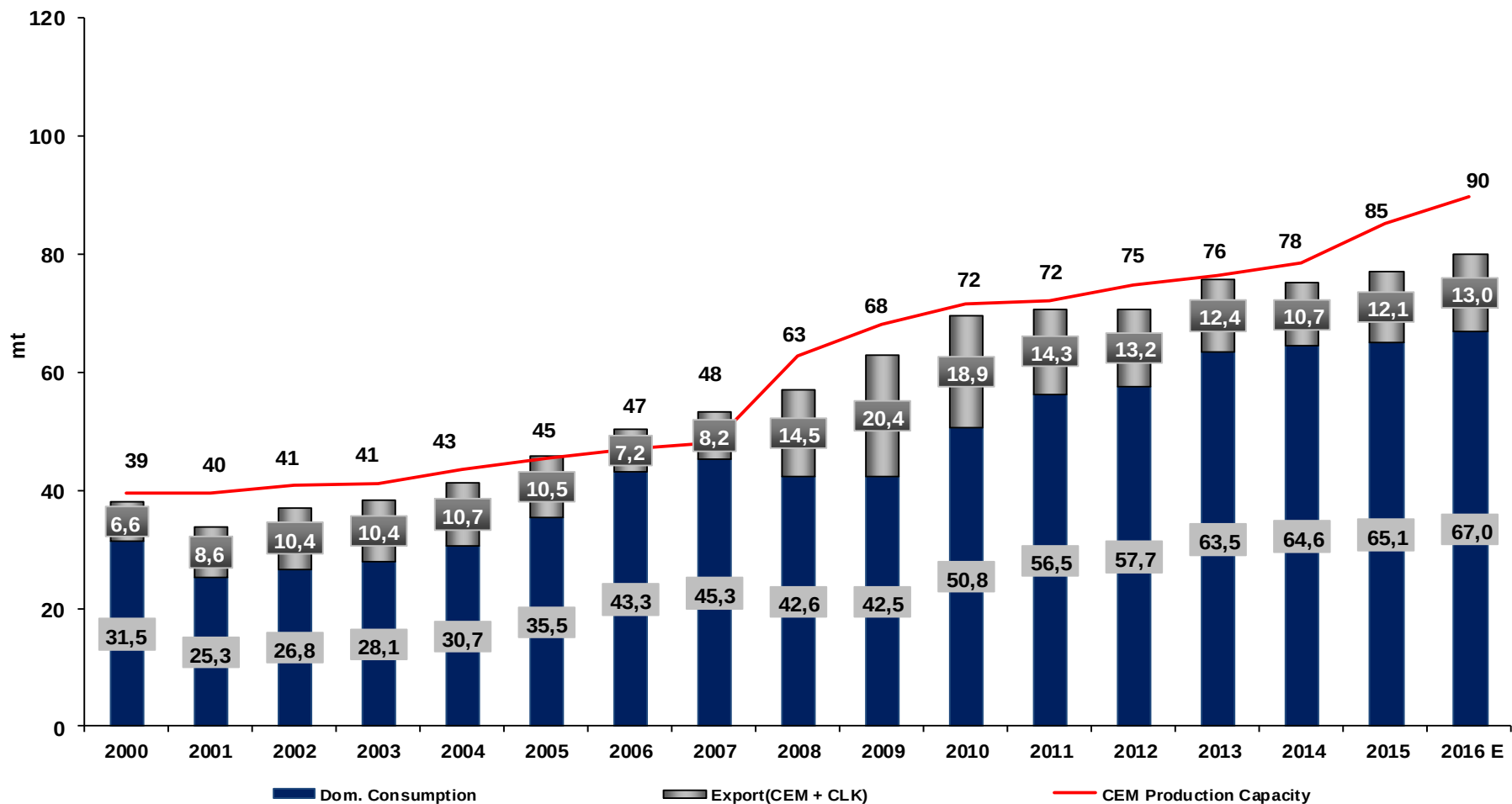


\* Developed Countries: Western Europe, North America, Developed Far East, Australia & New Zealand

Source: Global Cement Report 2015 11th Edition, CemWeek Monthly Reports, Exane BNP Paribas Reports

# Turkish Cement Industry

Domestic cement demand is expected to increase by 3% to hit 67mt in 2016

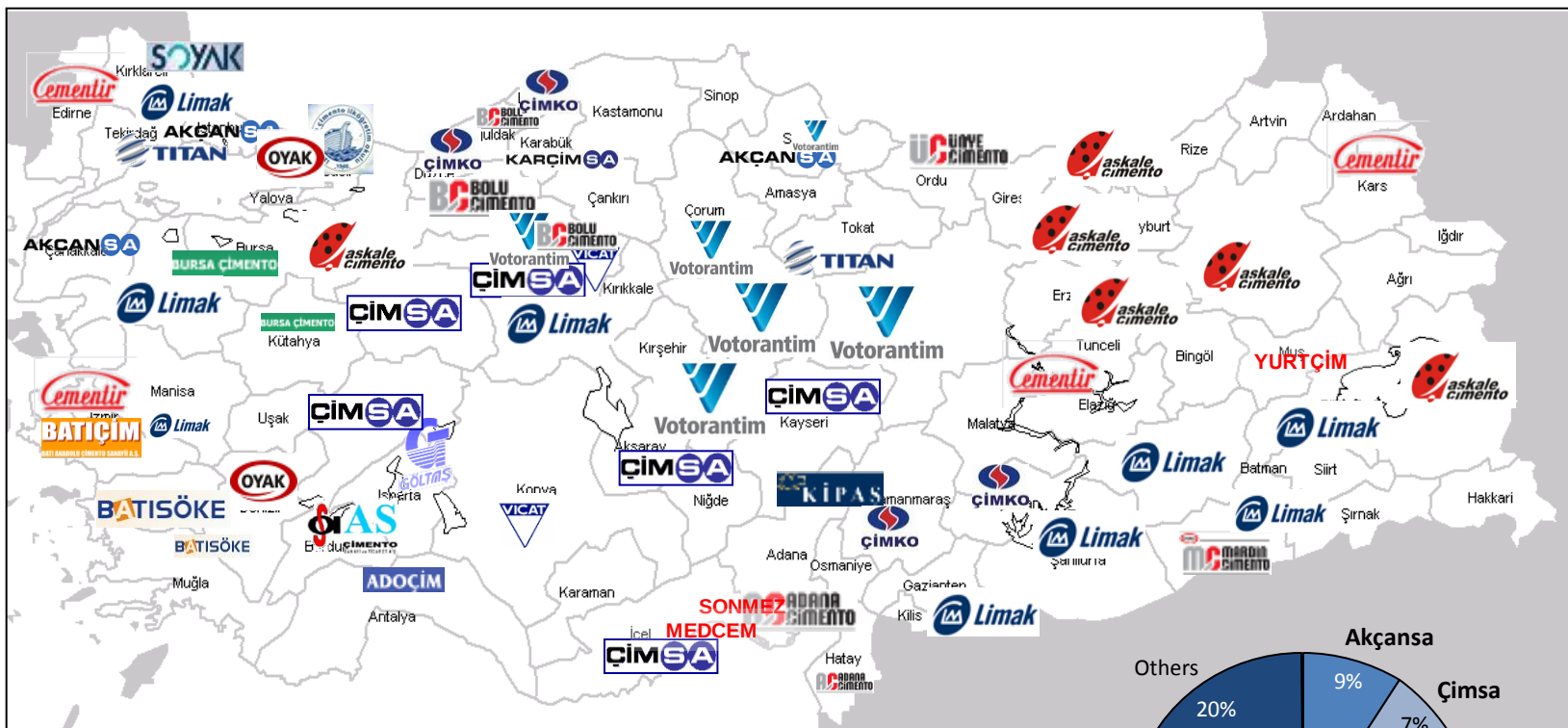


Source: TCMA and AKC estimations

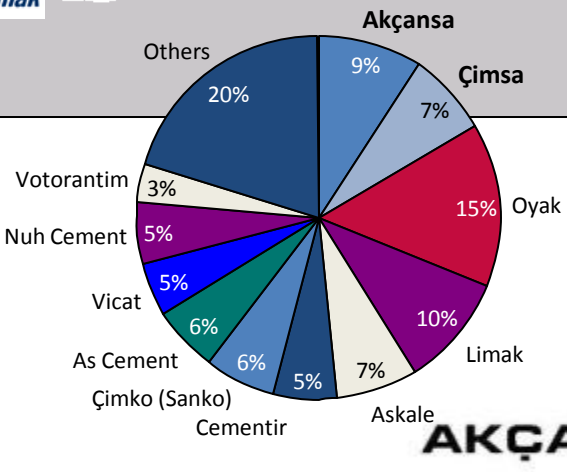
This presentation/report demonstrates "estimated results" of market research done by Akçansa Çimento Sanayi ve Ticaret A.Ş. in addition to Turkish Cement Manufacturers' Association figures

# Turkish Cement Industry on a Map

54 integrated plants, 18 grinding mills, 72 plants, 23 players and 40% of the Turkish cement capacity hold by top 3 groups



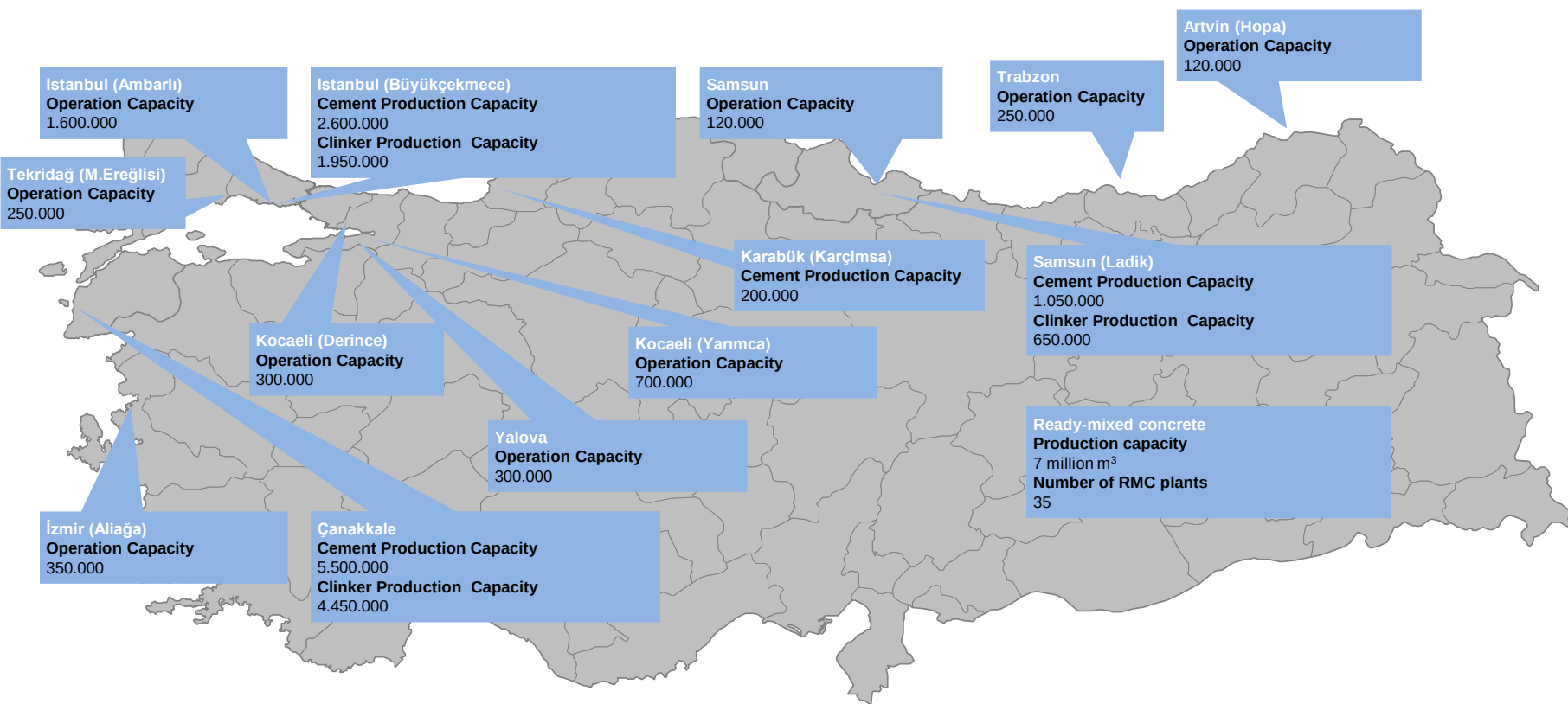
• Sabancı Cement Group is the leader of Turkish cement market with 16% market share based on clinker capacity.



Source: TCMA, Sabancı Cement Group and Annual reports



# Akçansa at a Glance



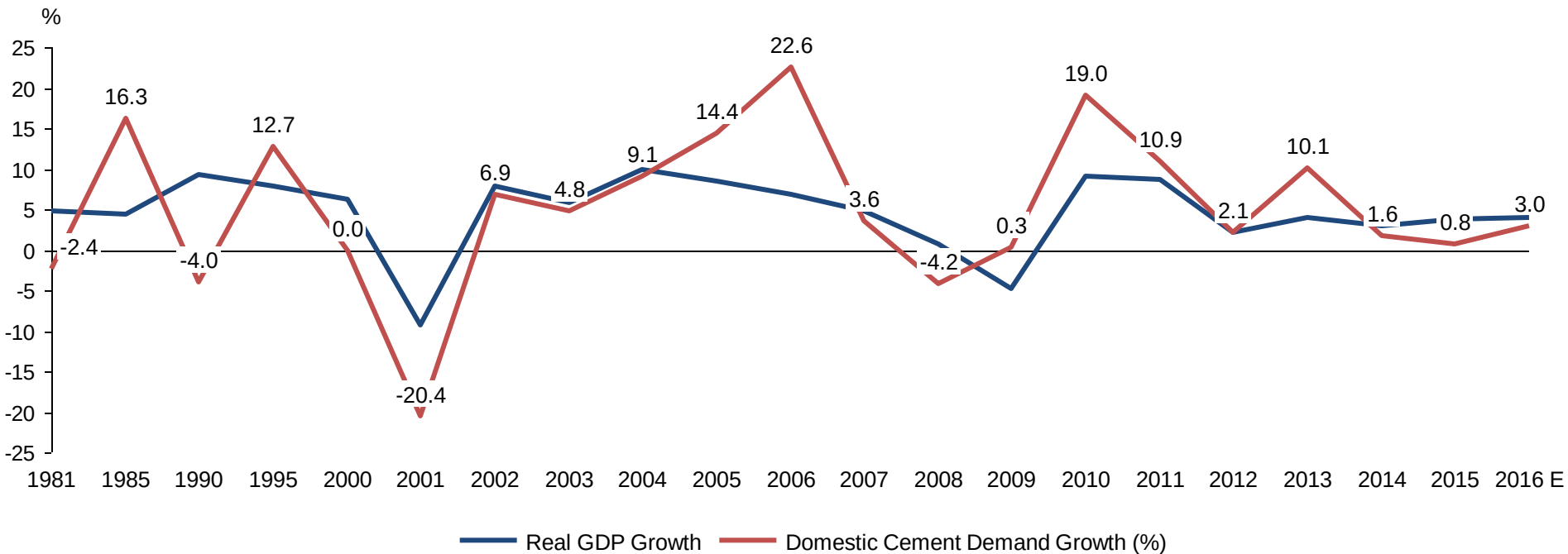
## Key Operational Highlights

| CEM                                                                                                                                          | RMC                                                                                                               | Ports                                                                                          | Terminals                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• 3 cement plants</li> <li>• 7,0m ton clinker capacity</li> <li>• 9,3m ton cement capacity</li> </ul> | <ul style="list-style-type: none"> <li>• 35 RMC plants</li> <li>• 7 million m<sup>3</sup> RMC capacity</li> </ul> | <ul style="list-style-type: none"> <li>• 2 ports</li> <li>• Ambarlı &amp; Çanakkale</li> </ul> | <ul style="list-style-type: none"> <li>• 9 domestic terminals</li> <li>• 4,0m ton total operating capacity</li> </ul> |



# Cement Consumption & GDP Growth Relation in Turkey

Multiplier factor resulted less than «1» in 2014&2015 with same expectation for 2016



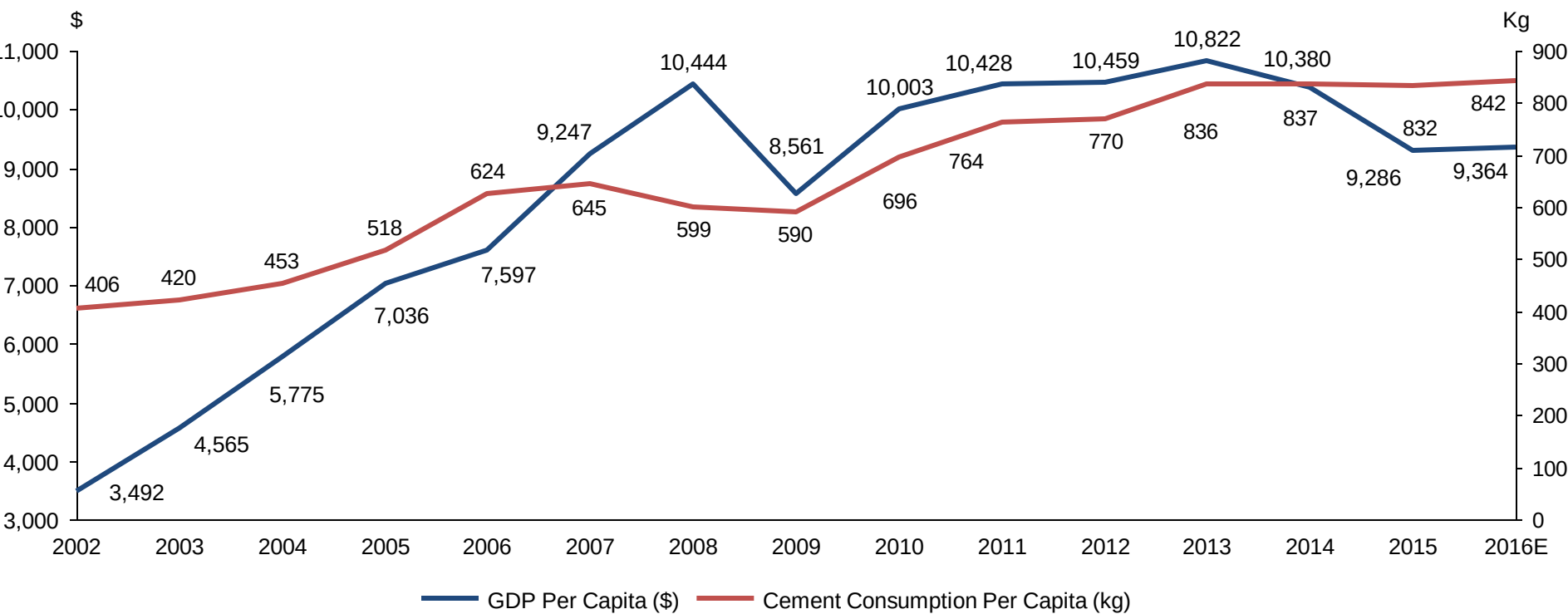
|         | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016E |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| Factor* | 0,0  | 2,2  | 0,9  | 0,8  | 0,9  | 1,7  | 3,3  | 0,8  | -6,0 | -0,1 | 2,1  | 1,2  | 1,0  | 2,5  | 0,6  | 0,3  | 0,7   |

Factor: Cement consumption growth/GDP growth

Source: TCMA and AKC estimations

# Cement Consumption & GDP Per Capita in Turkey

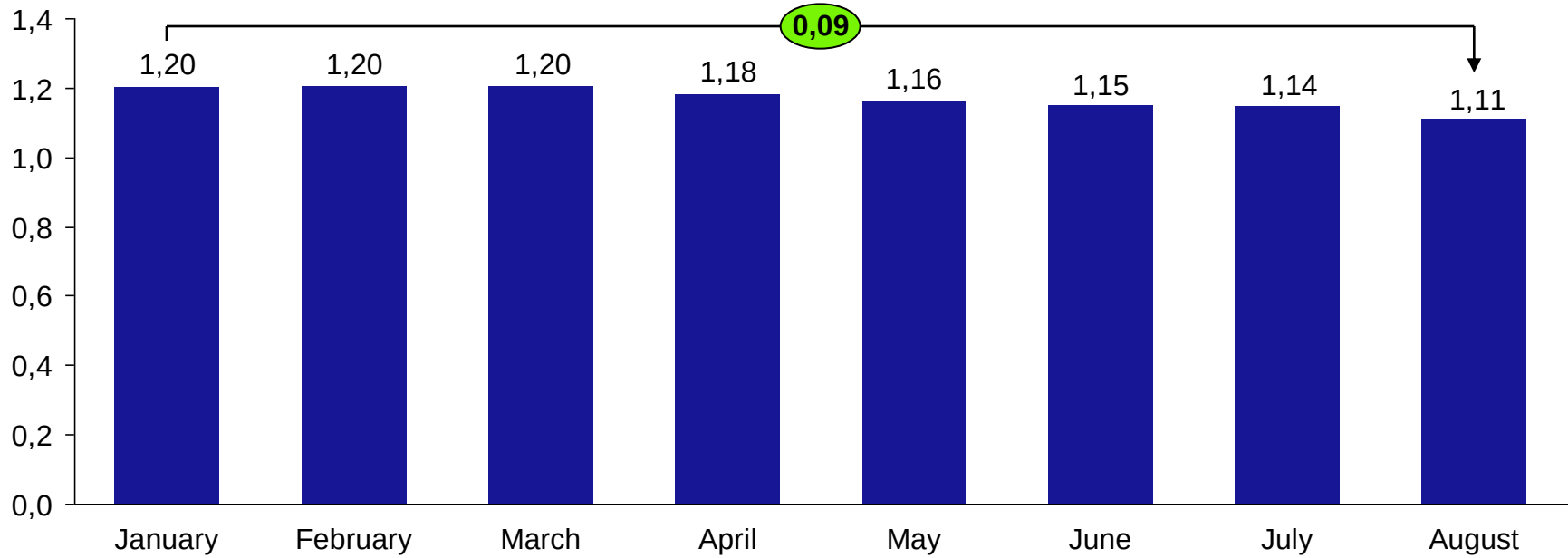
Positive correlation except 2014



Source: Sabancı Holding and Akçansa assumptions

# Housing Loan Interest Rates

Decreasing trend observed during the year 2016 and expected to continue with the support of Government



- TOKİ started a campaign and supported by government banks with **lower interest rates and attractive payment schedules**
- **Housing stocks** are expected to be decreased with the decreasing trend of rates and government incentives
- **Mortgage interest rates** of many government and commercial banks are **below 1% (p.m.)**

Source: TCMB, TOKİ

# Cement Consumption Components in Turkey

Cement consumption is expected to be triggered by housing and infrastructure investments in line with increasing urbanization



|                                 | 2006        | 2007        | 2008        | 2009        | 2010        | 2011        | 2012        | 2013        | 2014        | 2015        | 2016E       |
|---------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1. Private Housing              | 62%         | 57%         | 50%         | 51%         | 54%         | 52%         | 53%         | 53%         | 51%         | 45%         | 45%         |
| 2. Commercial                   | 14%         | 16%         | 13%         | 9%          | 11%         | 10%         | 11%         | 9%          | 10%         | 9%          | 9%          |
| 3. Public                       | 4%          | 5%          | 5%          | 5%          | 5%          | 5%          | 5%          | 5%          | 5%          | 7%          | 7%          |
| 4. Infrastructure/Projects      | 20%         | 22%         | 32%         | 35%         | 30%         | 33%         | 31%         | 33%         | 34%         | 39%         | 39%         |
| <b>Total cement consumption</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

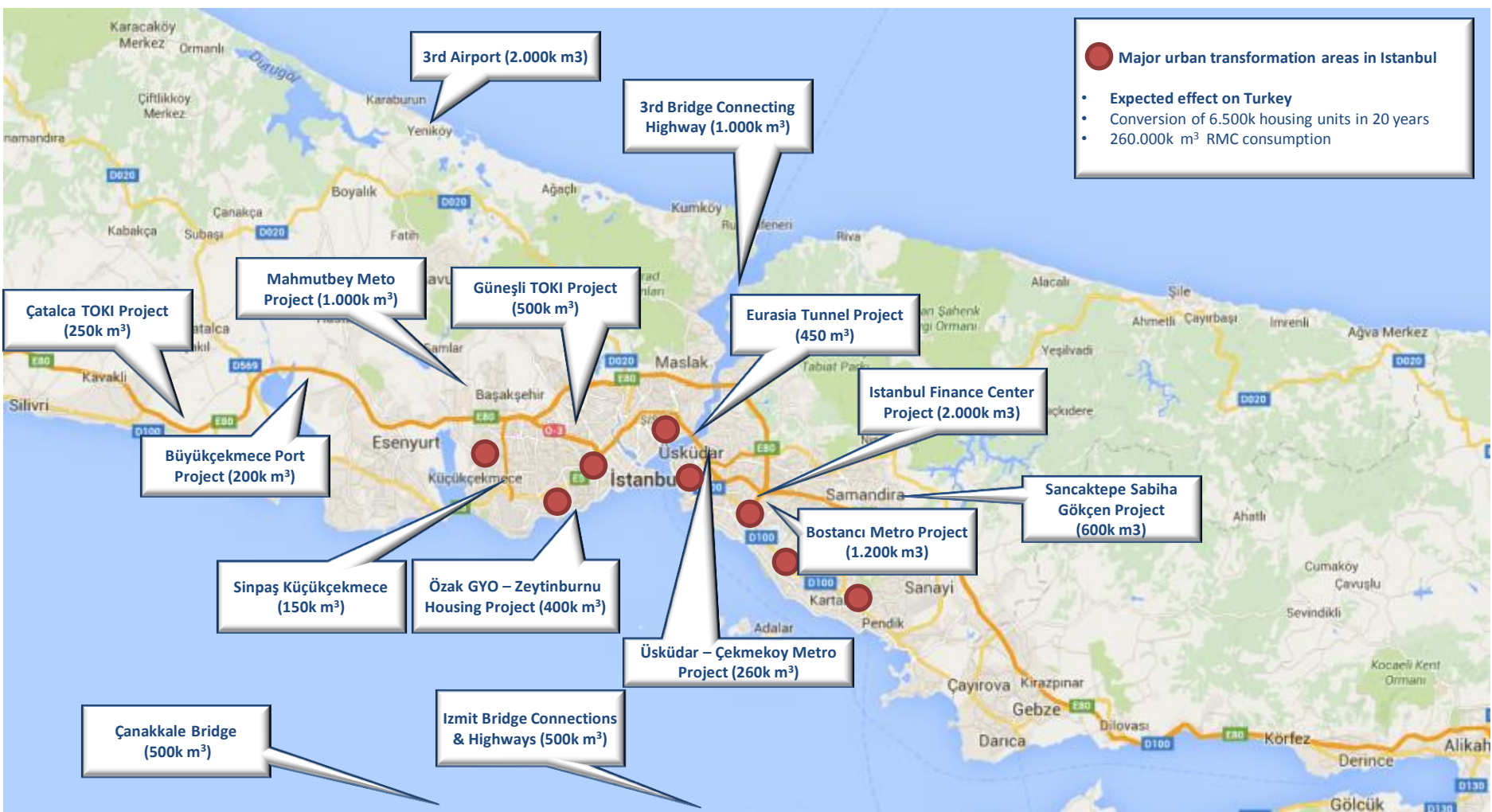


Source: TUIK and TCMA



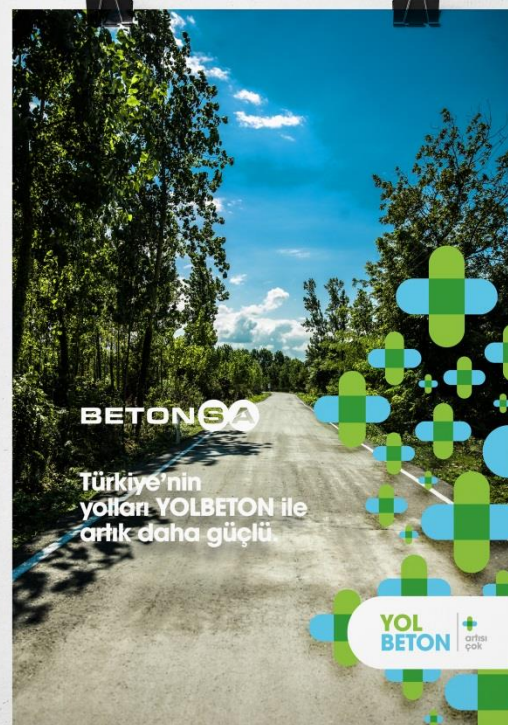
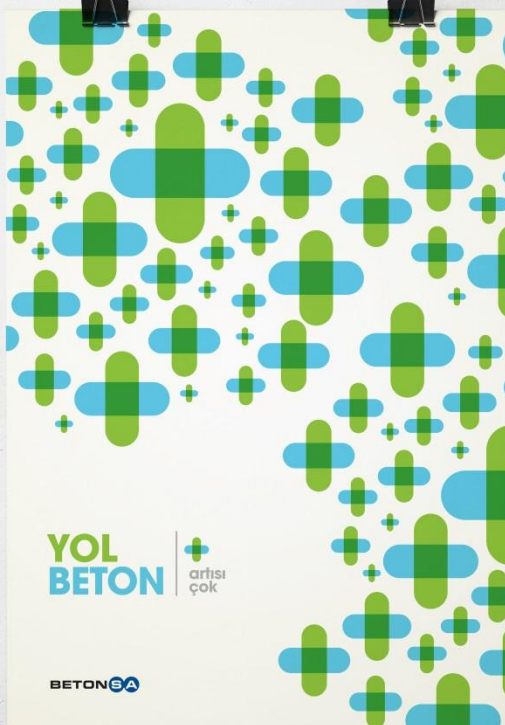
# Major Investments on a Map

Akcansa is a big beneficiary of large infrastructure projects in Marmara because it's located closer than the peers



# Concrete Roads «Yolbeton»

Tekirdağ and Çanakkale will follow the project started in Samsun



Please watch the video



**3<sup>rd</sup> Bridge will open at 26 August 2016**

**Türkiye'nin  
mega projesi  
3.Köprü Betonsa ile  
yükseliyor.**



Please watch the video

# Akçansa Port Operations

AKÇANSA  
PORT

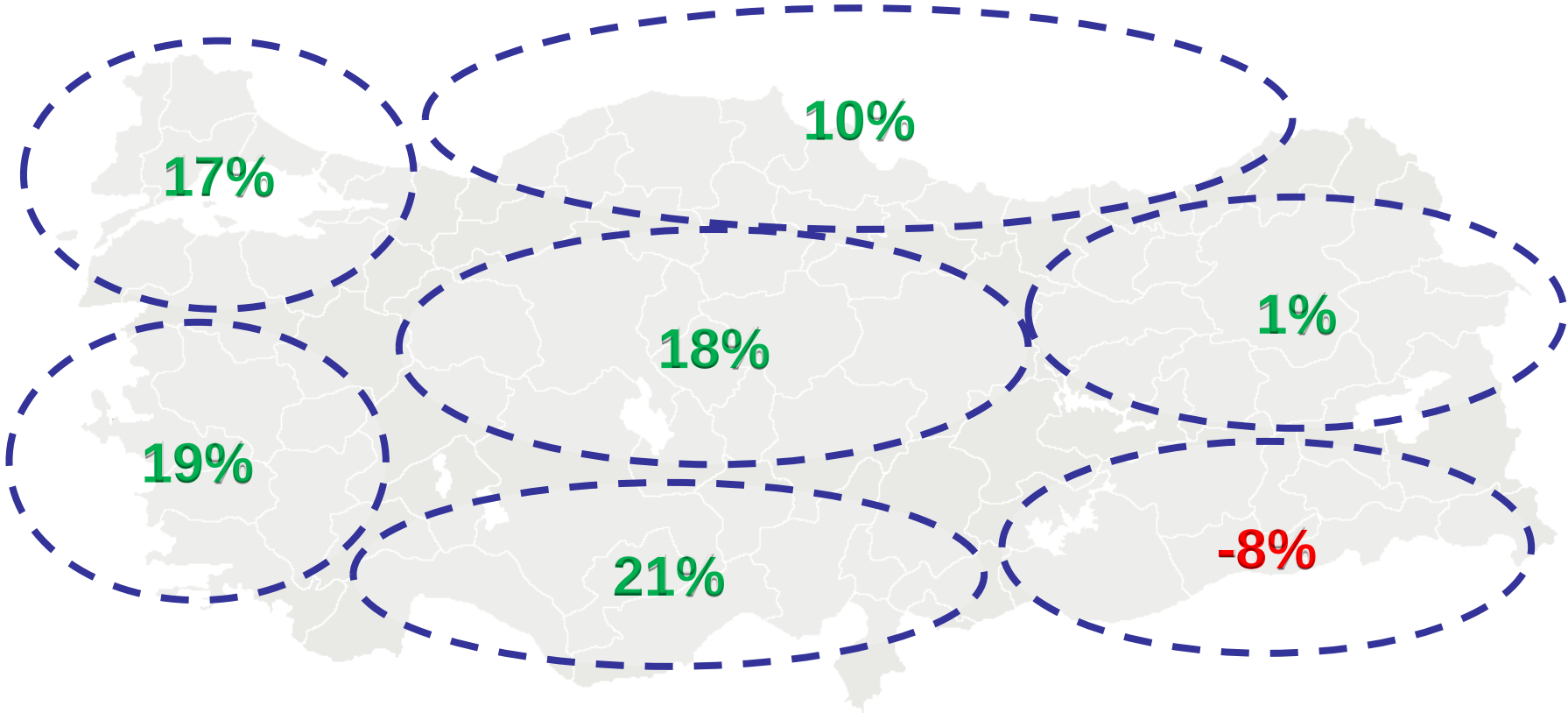


Akçansa Ambarlı Limanı,  
U.N. Ro-Ro seferleriyle  
dünyaya açılıyor!



# Domestic Sales Volume Change (May YTD)

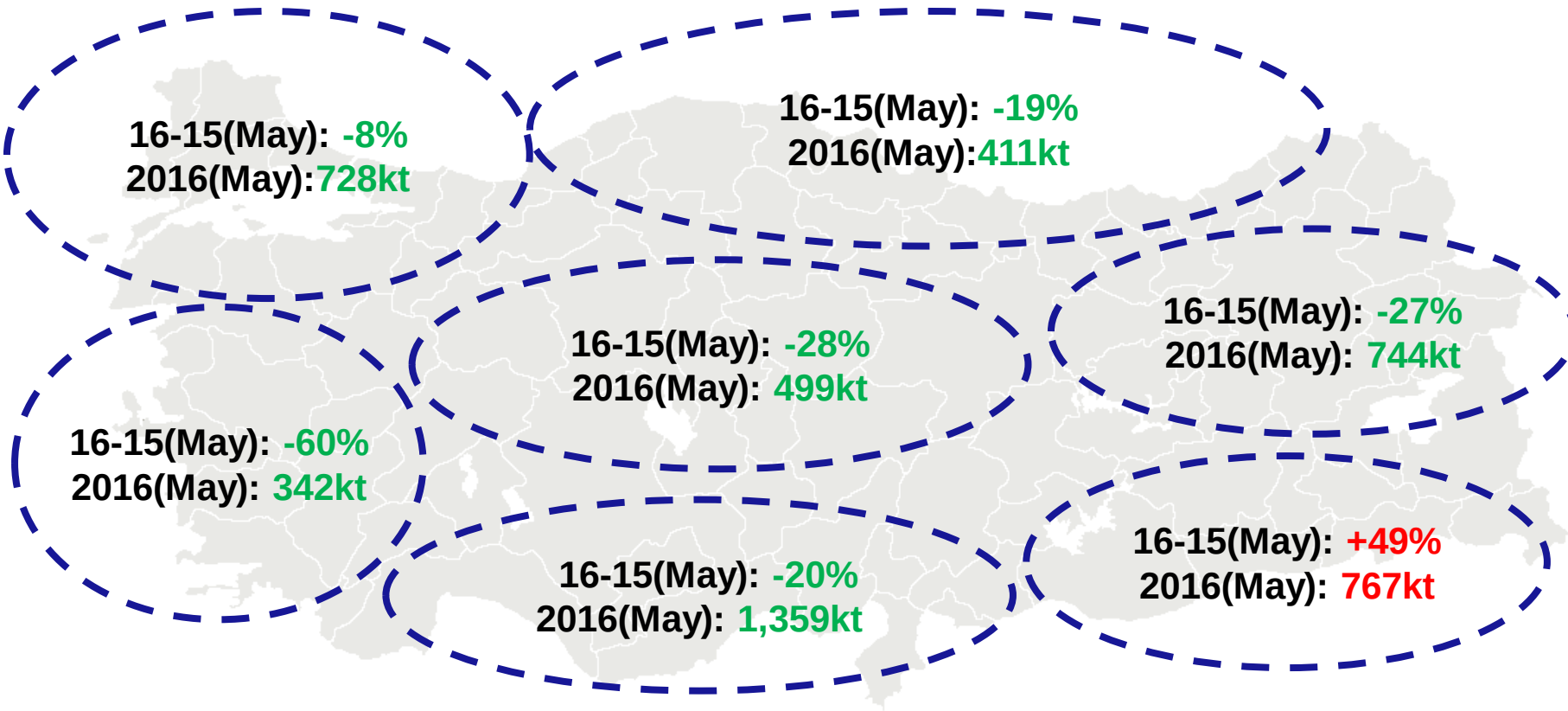
Cement demand in Turkish domestic market increased by 14% as at May 2016



Source: TCMA

# Clinker Stock Level Change (May YTD)

Total clinker stocks are 4,8mt with a 20% decrease in stock level compared to the last year's figure



Source: TCMA

# Volume, Price and Energy Cost Trends of Akçansa

Increase in domestic cement sales volume with stable prices

| 1H16                   | Domestic Cement |                |
|------------------------|-----------------|----------------|
|                        | Volume          | Price (TL/ton) |
| <b>Domestic Cement</b> | ↑               | →              |
| Marmara                | ↑               | →              |
| Aegean                 | ↓               | →              |
| Black Sea              | ↑               | →              |

| 1H16           | Export |                |
|----------------|--------|----------------|
|                | Volume | Price (\$/ton) |
| Export Cement  | ↑      | ↓              |
| Export Clinker | ↓      | ↓              |

- Shift from export clinker to domestic cement means 5% increase in total cement volume

| 1H16           | Readymix |               |
|----------------|----------|---------------|
|                | Volume   | Price (TL/m3) |
| <b>General</b> | ↓        | ↑             |
| Marmara        | ↓        | ↑             |
| Aegean         | ↑        | ↑             |
| Black Sea      | ↑        | ↑             |

| Energy Costs           | 1H16 |
|------------------------|------|
| Coal (USD / ton)       | ↓    |
| Petcoke (USD/ton)      | ↓    |
| Diesel (TL / Lt)       | ↓    |
| Electricity (TL / kwh) | ↑    |

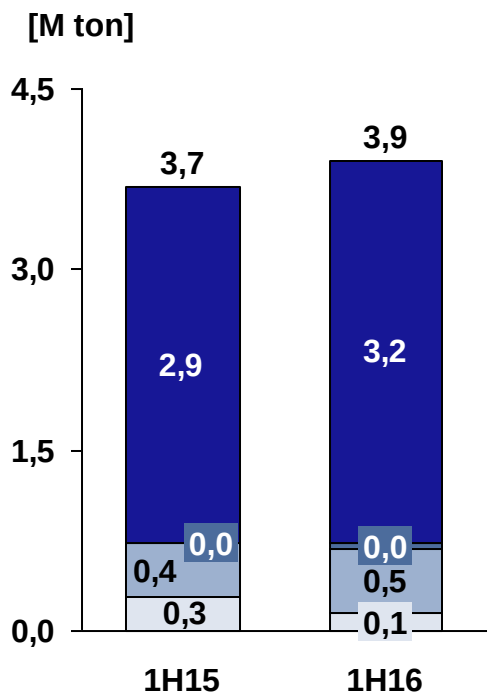
- Akçansa continues to benefit from **lower energy costs**
- We are in **fully hedged** position in petrocoke supply for FY16

Source: AKC management report

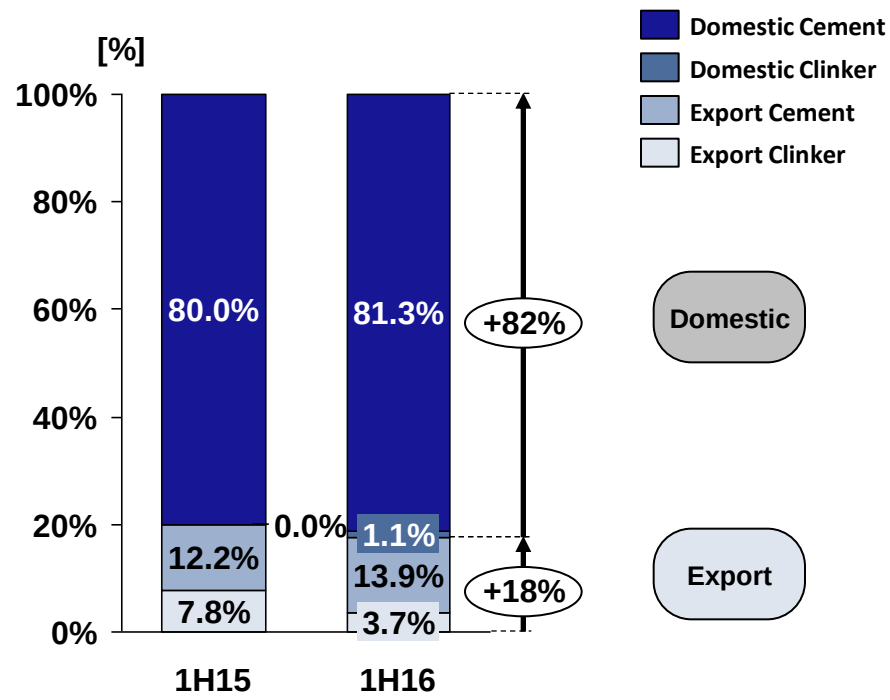
# Cement Sales Breakdown

Higher domestic cement volume in 1H16

Shipments



Product Mix

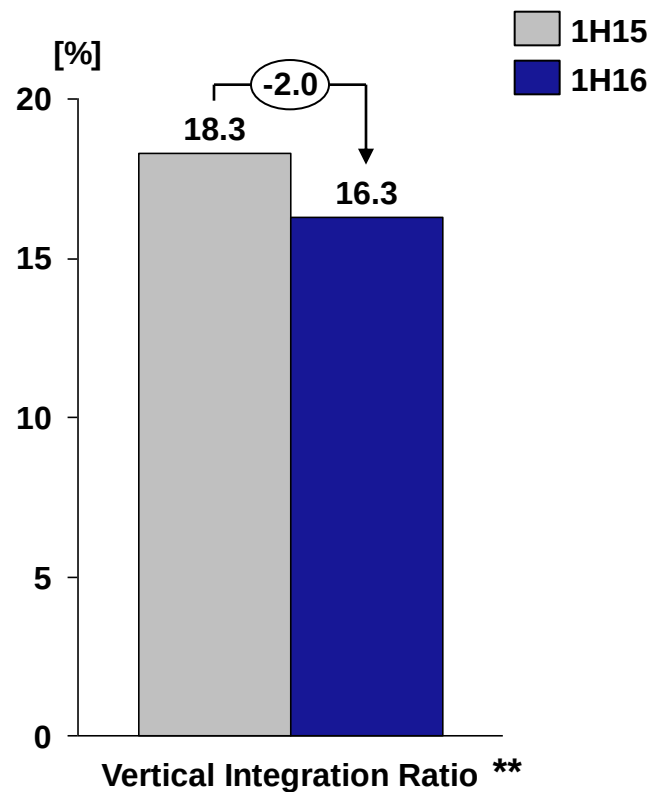
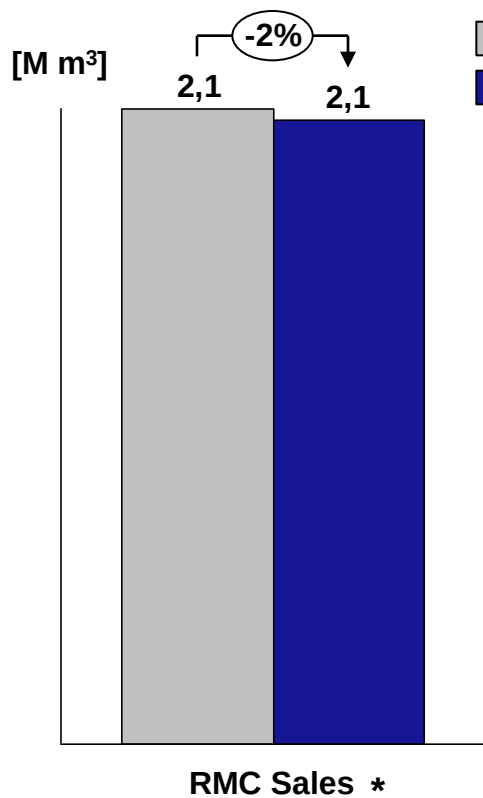


\*) Domestic cement figures include Karşımsa and transfer to RMC

Source: AKC management report

# Ready Mix Concrete Sales Breakdown

More strategic, innovation and pricing oriented sales strategy rather than volume in RMC



\*) RMC figures include RMC sales of Karşımsa

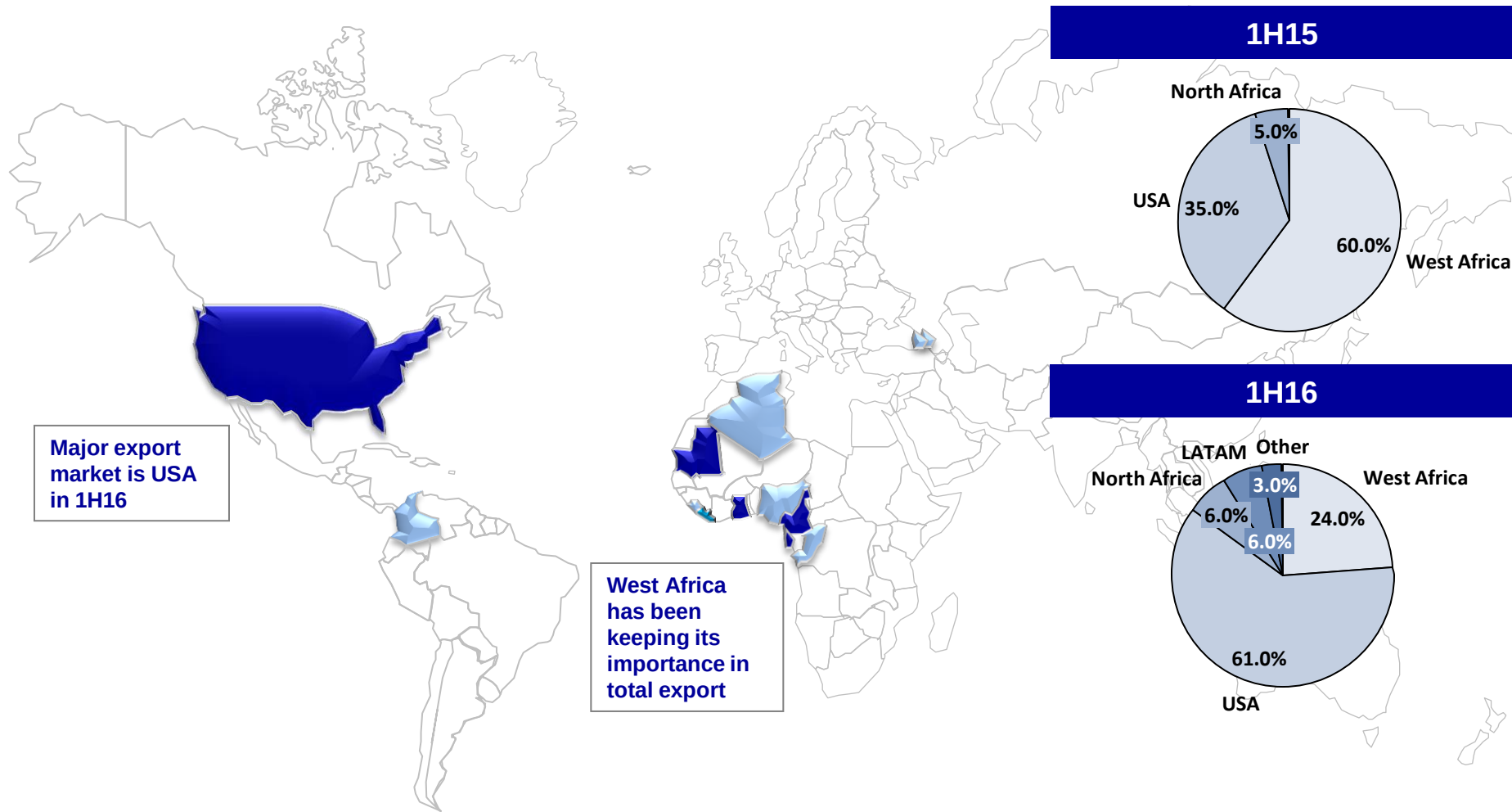
\*\*) Vertical integration ratio is calculated by dividing transfer of cement to RMX business line to total cement sales volume

Source: AKC management report

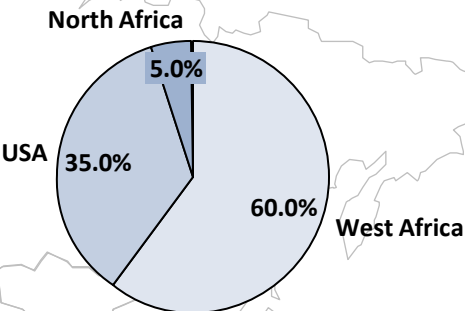


# Export Markets

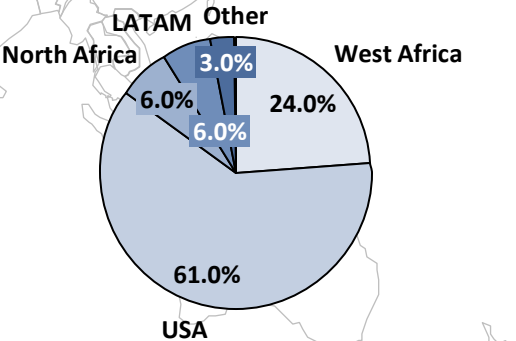
Shift from West Africa to USA



1H15



1H16



Source: AKC management report

 <50 k ton

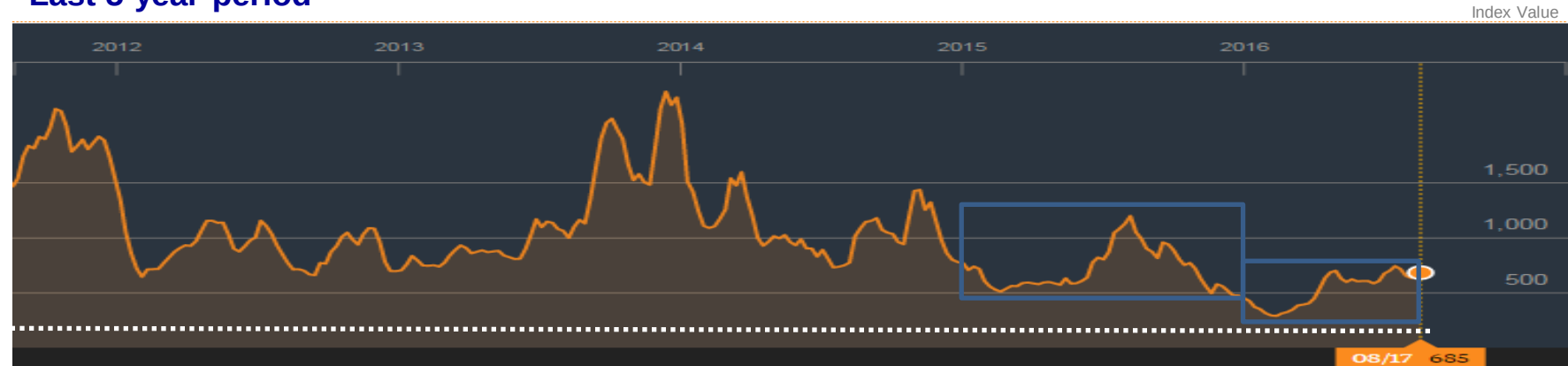
 >50; <100k ton

 >100 k ton

# Baltic Dry Index

Index is still lower than the 5 year average with an increasing trend in 1H16

## Last 5-year period



## Last 12 month period



Source: Bloomberg



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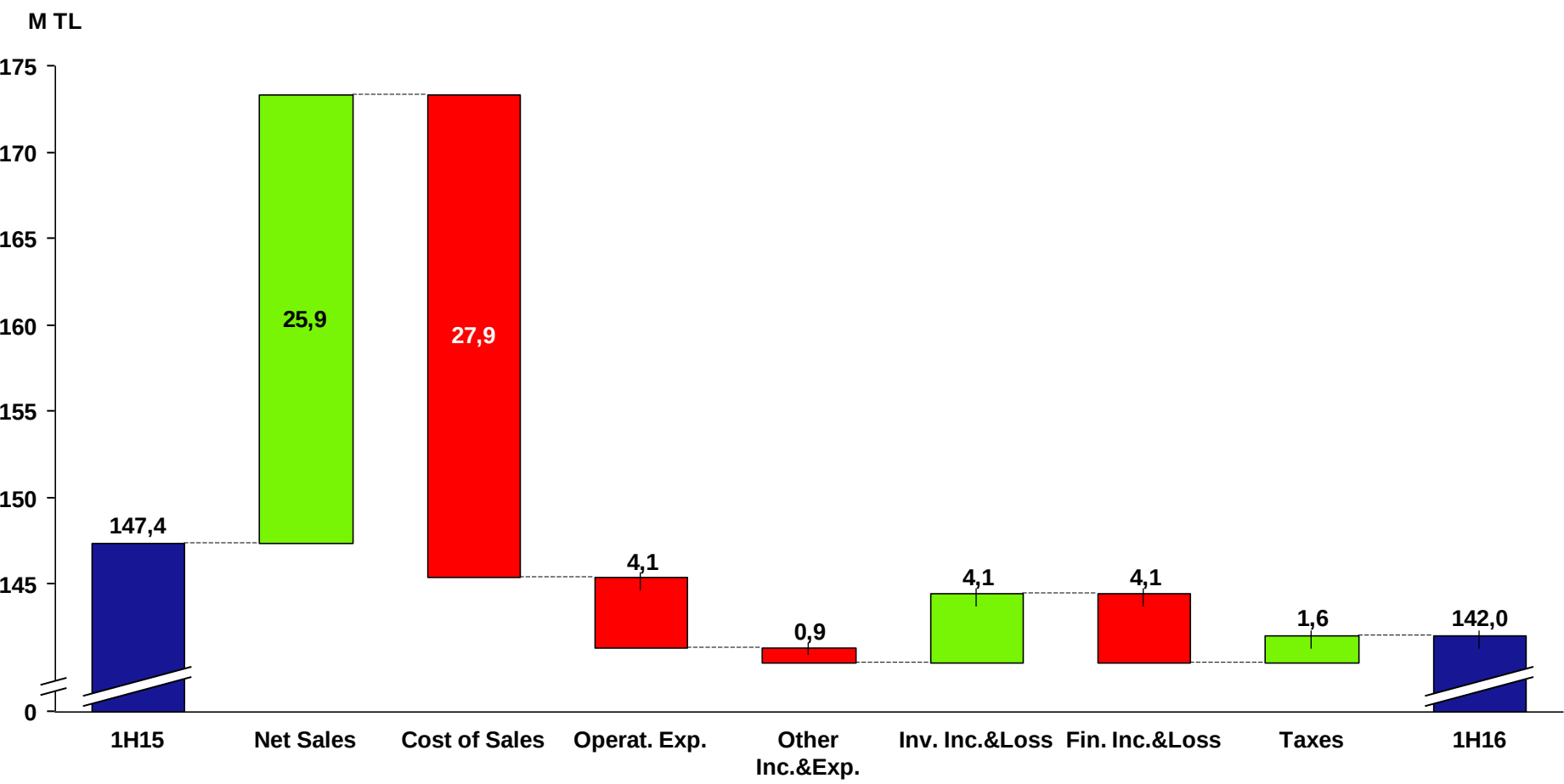
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# Income Statement

| Company (M TL)                           | 2Q15         | 2Q16         | Var. 2Q16<br>vs. 2Q15 | % Ch. Q      | 1H15         | 1H16         | Var 1H16<br>vs.1H15 | % Ch. YTD    |
|------------------------------------------|--------------|--------------|-----------------------|--------------|--------------|--------------|---------------------|--------------|
| Net Sales                                | 411,1        | 406,9        | (4,2)                 | -1,0%        | 710,0        | 735,9        | 25,9                | 3,7%         |
| Cost of Sales                            | (282,1)      | (282,6)      | (0,5)                 | 0,2%         | (501,3)      | (529,2)      | (27,9)              | 5,6%         |
| <b>Gross Margin</b>                      | <b>128,9</b> | <b>124,3</b> | <b>(4,6)</b>          | <b>-3,6%</b> | <b>208,7</b> | <b>206,7</b> | <b>(1,9)</b>        | <b>-0,9%</b> |
| Marketing&Sales Expense                  | (4,0)        | (5,1)        | (1,1)                 | 27,5%        | (8,6)        | (9,5)        | (0,9)               | 11,0%        |
| General Management Expenses              | (12,0)       | (14,6)       | (2,5)                 | 21,2%        | (25,3)       | (28,4)       | (3,2)               | 12,5%        |
| <b>EBIT</b>                              | <b>112,9</b> | <b>104,7</b> | <b>(8,3)</b>          | <b>-7,3%</b> | <b>174,8</b> | <b>168,8</b> | <b>(6,0)</b>        | <b>-3,5%</b> |
| Other Operating Income/Charges           | (3,6)        | (2,3)        | 1,3                   | -36,4%       | (3,3)        | (4,2)        | (0,9)               | 27,1%        |
| <b>Operating Income</b>                  | <b>109,4</b> | <b>102,4</b> | <b>(7,0)</b>          | <b>-6,4%</b> | <b>171,5</b> | <b>164,6</b> | <b>(6,9)</b>        | <b>-4,0%</b> |
| Income/Losses from Investment Activities | (0,5)        | 0,2          | 0,7                   | -136,2%      | 20,0         | 24,1         | 4,1                 | 20,4%        |
| Non-Operating Financial Income           | 1,3          | 2,7          | 1,4                   | 107,1%       | 2,4          | 3,7          | 1,3                 | 54,1%        |
| Non-Operating Financial Charge           | (9,8)        | (14,0)       | (4,2)                 | 43,4%        | (14,6)       | (20,0)       | (5,4)               | 36,9%        |
| <b>Profit/Loss before Taxes</b>          | <b>100,4</b> | <b>91,3</b>  | <b>(9,1)</b>          | <b>-9,1%</b> | <b>179,3</b> | <b>172,4</b> | <b>(6,9)</b>        | <b>-3,9%</b> |
| Taxes On Income                          | (20,3)       | (18,3)       | 2,0                   | -9,8%        | (31,9)       | (30,4)       | 1,6                 | -4,9%        |
| <b>Net Income/Loss</b>                   | <b>80,1</b>  | <b>73,0</b>  | <b>(7,1)</b>          | <b>-8,9%</b> | <b>147,4</b> | <b>142,0</b> | <b>(5,4)</b>        | <b>-3,6%</b> |
| <b>Gross Margin %</b>                    | <b>31,4%</b> | <b>30,5%</b> | <b>-0,8%</b>          |              | <b>29,4%</b> | <b>28,1%</b> | <b>-1,3%</b>        |              |
| <b>EBITDA Margin %</b>                   | <b>31,7%</b> | <b>30,2%</b> | <b>-1,6%</b>          |              | <b>29,5%</b> | <b>27,8%</b> | <b>-1,7%</b>        |              |
| <b>EBIT Margin %</b>                     | <b>27,5%</b> | <b>25,7%</b> | <b>-1,8%</b>          |              | <b>24,6%</b> | <b>22,9%</b> | <b>-1,7%</b>        |              |
| <b>Net Income Margin %</b>               | <b>19,5%</b> | <b>17,9%</b> | <b>-1,6%</b>          |              | <b>20,8%</b> | <b>19,3%</b> | <b>-1,5%</b>        |              |

Source: CMB financials and AKC calculations

# Net Income Bridge



Source: CMB financials and AKC calculations

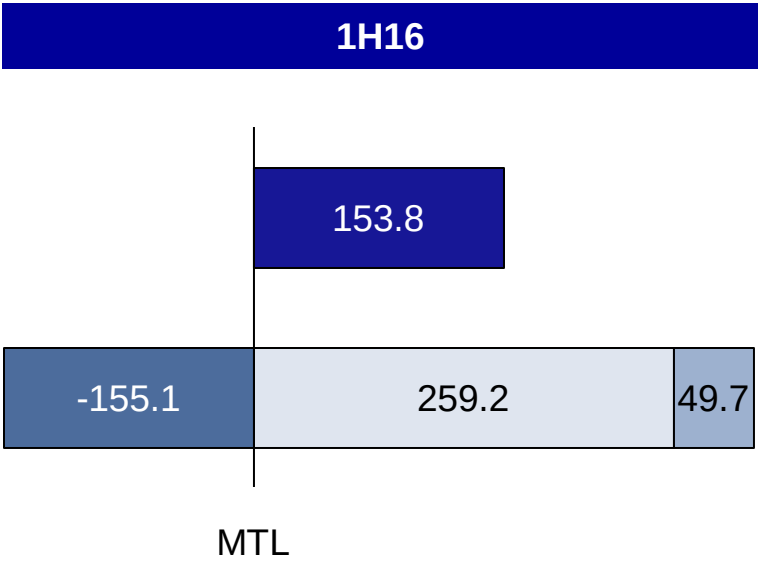
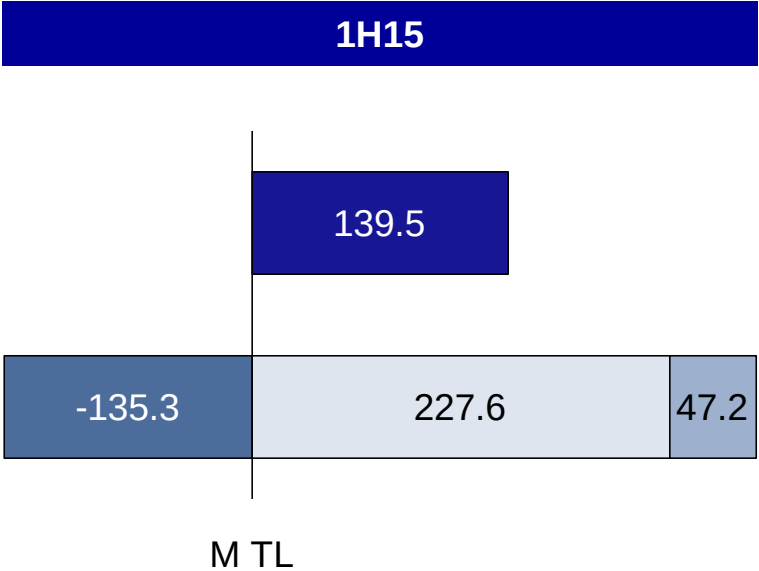


# Cash Flow

| Company (M TL)                                                         | 1H15          | 1H16          |
|------------------------------------------------------------------------|---------------|---------------|
| <b>Cash flow from operating activities</b>                             |               |               |
| Operating income before the changes in working capital                 | 211,8         | 207,0         |
| Changes in working capital                                             | (62,5)        | (43,6)        |
| Taxes paid                                                             | (21,6)        | (26,9)        |
| Other items                                                            | (3,4)         | 4,1           |
|                                                                        | <b>124,3</b>  | <b>140,5</b>  |
| <b>Cash flow from investing activities</b>                             |               |               |
| Tangible and intangible fixed assets                                   | (47,2)        | (49,7)        |
| Financial assets                                                       | (0,1)         | -             |
| Proceeds from fixed asset disposals                                    | 3,0           | 2,2           |
| Dividends Received                                                     | 19,9          | 23,1          |
|                                                                        | <b>(24,4)</b> | <b>(24,5)</b> |
| <b>Cash flow from financing activities</b>                             |               |               |
| Dividend payments                                                      | (227,6)       | (259,2)       |
| Net proceeds from bonds and loans                                      | 174,1         | 179,8         |
| Interest paid                                                          | (7,9)         | (12,2)        |
| Other items                                                            | 0,2           | 0,2           |
|                                                                        | <b>(61,1)</b> | <b>(91,4)</b> |
| <b>Net change in cash and cash equivalents - continuing operations</b> | <b>38,8</b>   | <b>24,6</b>   |
| <b>Change in cash &amp; cash equivalents</b>                           | <b>38,8</b>   | <b>24,6</b>   |
| Cash & cash equivalents at 1 January                                   | 13,3          | 21,9          |
| Cash & cash equivalents on 30 June                                     | 52,1          | 46,5          |

Source: CMB financials and AKC calculations

# Cash Flow Usage

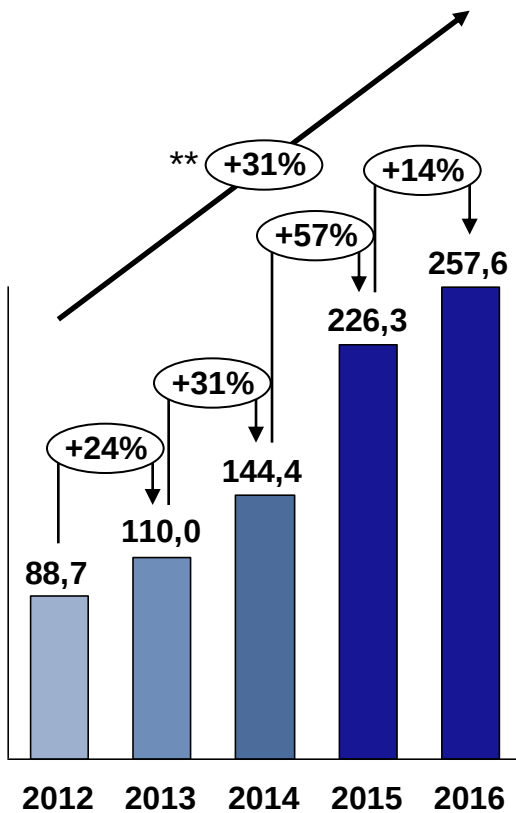


■ Adj. operating cash flow \*   ■ Dividend paid   ■ CAPEX   ■ Net debt reduction

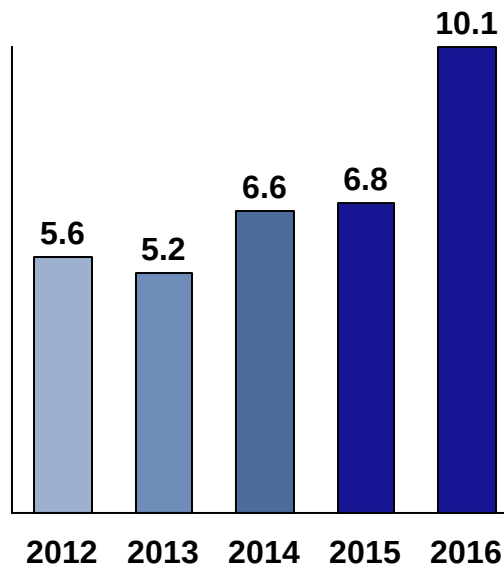
\*) Operating cash flow is adjusted for dividends received, interest paid and other items  
Source: CMB financials and AKC calculations

# Dividend Paid, Dividend Yield and Payout Ratio

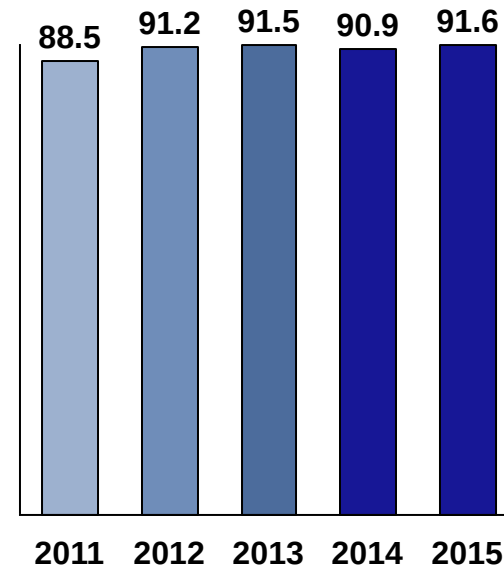
**Dividend Paid, gross M TL**



**Dividend Yield, %\***



**Payout Ratio %**



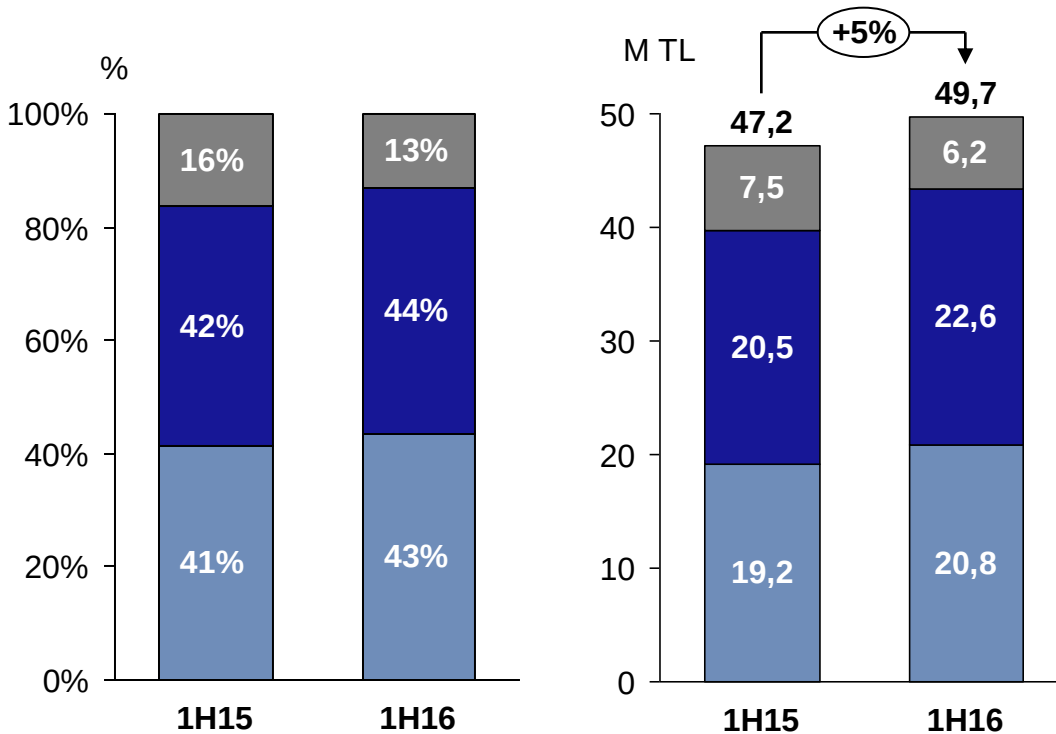
\*) Dividend yield calculations are based on gross dividend amounts

\*\*) CAGR (Compound Annual Growth) of dividend paid amount for the last four years

There has not been any change in dividend payment policy throughout years

Source: CMB financials and AKC calculations

# Capex Distribution



Legal & Environment (L&E)
  Improvement & Growth (I&G)
  Replacement (Rep)

## Key Investments in 1H16:

### **Cement Business Line:**

1. (I&G) Wind turbine investment (CNK)\*
2. (L&E) Process automation of kiln, raw and coal mill (BCM)\*\*
3. (I&G) Modification of kiln ESP dust conveying (CNK)\*

### **Ready Mix Concrete (RMC) Business Line:**

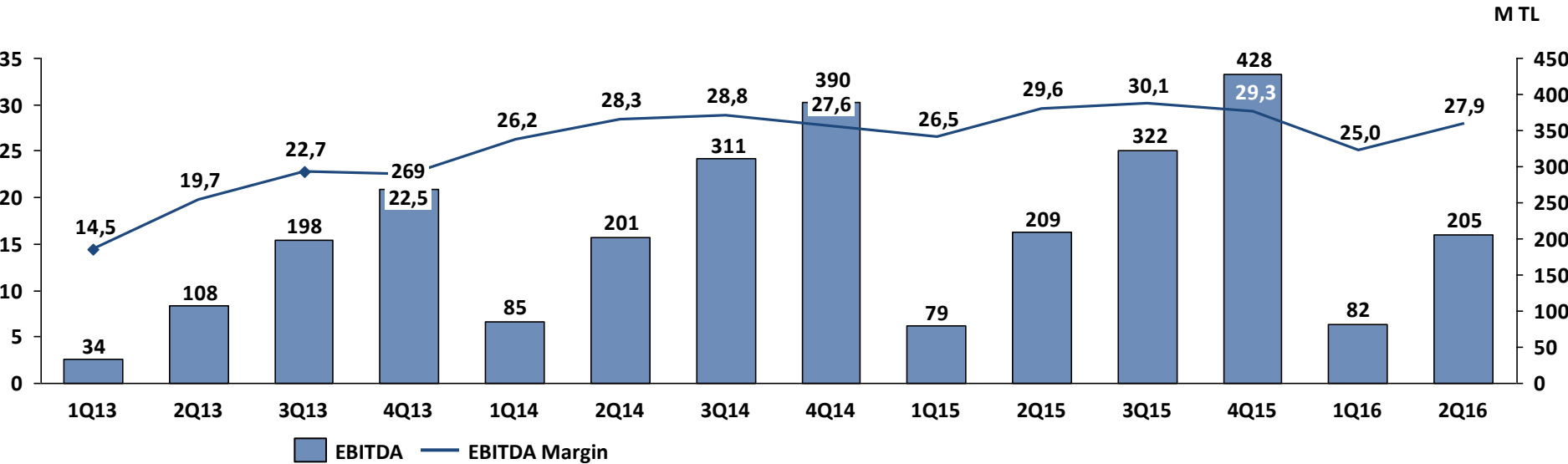
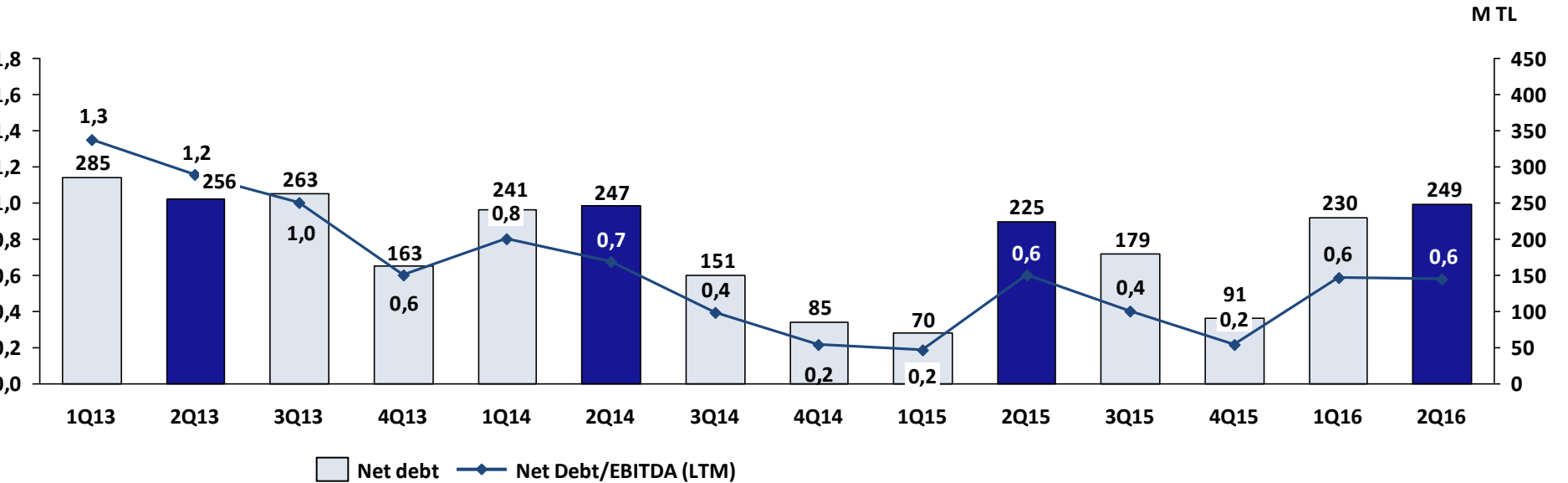
1. (I&G) New RMC plant investments in Gebze and Çatalca
2. (I&G) Capacity increase and relocation of RMC Plant in BCM\*\* Plant

\*) Çanakkale Plant

\*\*) Büyükçekmece Plant

Source: CMB financials and AKC calculations

# Net Debt / EBITDA & EBITDA Margins



# Balance Sheets

|             | 30.06.2015 | 31.12.2015 | 30.06.2016 | Variance<br>1H16 vs<br>FY15 |
|-------------|------------|------------|------------|-----------------------------|
| <b>M TL</b> |            |            |            |                             |

|                         |       |       |       |       |
|-------------------------|-------|-------|-------|-------|
| <b>Current Assets</b>   | 580,8 | 569,3 | 614,9 | 45,7  |
| Cash & cash equivalents | 52,1  | 21,9  | 46,5  | 24,7  |
| Trade receivables       | 378,8 | 398,9 | 426,4 | 27,5  |
| Inventories             | 125,0 | 135,2 | 134,1 | (1,1) |
| Other current assets    | 24,9  | 13,3  | 7,9   | (5,4) |

|                           |         |         |         |       |
|---------------------------|---------|---------|---------|-------|
| <b>Non-current Assets</b> | 1.100,1 | 1.135,8 | 1.145,1 | 9,3   |
| Financial investments     | 210,6   | 212,9   | 211,0   | (1,8) |
| Fixed Assets              | 754,1   | 786,4   | 798,5   | 12,0  |
| Goodwill                  | 129,5   | 129,5   | 129,5   | -     |
| Deferred tax assets       | 1,0     | 1,0     | 1,0     | 0,0   |
| Other non-current assets  | 5,0     | 6,0     | 5,1     | (0,9) |

|                     |                |                |                |             |
|---------------------|----------------|----------------|----------------|-------------|
| <b>TOTAL ASSETS</b> | <b>1.680,9</b> | <b>1.705,1</b> | <b>1.760,1</b> | <b>55,0</b> |
|---------------------|----------------|----------------|----------------|-------------|

|             | 30.06.2015 | 31.12.2015 | 30.06.2016 | Variance<br>1H16 vs<br>FY15 |
|-------------|------------|------------|------------|-----------------------------|
| <b>M TL</b> |            |            |            |                             |

|                            |       |       |       |        |
|----------------------------|-------|-------|-------|--------|
| <b>Current Liabilities</b> | 432,5 | 326,7 | 555,5 | 228,8  |
| Financial Liabilities      | 166,8 | 12,4  | 250,3 | 237,9  |
| Trade payables             | 210,0 | 271,1 | 256,6 | (14,4) |
| Tax payable                | 20,4  | 14,0  | 18,8  | 4,8    |
| Other current liabilities  | 35,3  | 29,2  | 29,7  | 0,5    |

|                                |       |       |       |        |
|--------------------------------|-------|-------|-------|--------|
| <b>Non-current Liabilities</b> | 182,5 | 177,8 | 122,9 | (54,9) |
| Financial Liabilities          | 109,9 | 100,5 | 45,0  | (55,6) |
| LT provisions                  | 27,1  | 30,0  | 32,1  | 2,1    |
| Deferred tax liabilities       | 45,5  | 47,2  | 45,8  | (1,4)  |
| Other non-current liabilities  | -     | -     | -     | -      |

|                            |         |         |         |         |
|----------------------------|---------|---------|---------|---------|
| <b>Shareholders Equity</b> | 1.065,9 | 1.200,6 | 1.081,7 | (118,9) |
| Paid in Capital            | 191,4   | 191,4   | 191,4   | -       |
| Retained earnings          | 554,8   | 554,8   | 578,3   | 23,5    |
| Comprehensive income       | 160,7   | 159,8   | 158,1   | (1,7)   |
| Net income                 | 146,4   | 281,1   | 141,8   | (139,3) |
| Minority interest          | 12,5    | 13,4    | 12,1    | (1,3)   |

|                                       |                |                |                |             |
|---------------------------------------|----------------|----------------|----------------|-------------|
| <b>TOTAL LIABILITIES &amp; EQUITY</b> | <b>1.680,9</b> | <b>1.705,1</b> | <b>1.760,1</b> | <b>55,0</b> |
|---------------------------------------|----------------|----------------|----------------|-------------|

|                                          | 30.06.2015 | 31.12.2015 | 30.06.2016 | Variance<br>1H16 vs<br>FY15 |
|------------------------------------------|------------|------------|------------|-----------------------------|
| <b>BS data and key ratios</b>            |            |            |            |                             |
| Working Capital                          | 293,8      | 263,1      | 303,9      | 40,8                        |
| <i>Working Capital / Net Sales (LTM)</i> | 21,2%      | 17,9%      | 20,3%      | 2,4%                        |
| Net debt                                 | 224,7      | 91,1       | 248,8      | 157,7                       |
| <i>Net debt / EBITDA (LTM)</i>           | 0,6x       | 0,2x       | 0,6x       | 0,4x                        |
| Net Debt / Equity                        | 21,1%      | 7,6%       | 23,0%      | 15,4%                       |

Source: CMB financials and AKC calculations



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# 2016 Outlook

No major change expected both in sales prices and input costs

| FY16                   | Expectations |       |
|------------------------|--------------|-------|
|                        | Volume       | Price |
| Domestic Cement (TL/t) | ↑            | →     |
| Export Cement (\$/t)   | ↑            | ↓     |
| Export Clinker (\$/t)  | ↓            | ↓     |
| RMC (TL/m3)            | →            | ↑     |

(\*) Latest FY forecast compared to FY15

## Compared to FY15:

- **Higher cement volume** with stable prices in domestic market while export prices are decreasing
- No change in volume of **RMC** but **higher sales prices**

| Energy Price           | 2016E |
|------------------------|-------|
|                        | FY    |
| Coal (USD / ton)       | →     |
| Petcoke (USD/ton)      | →     |
| Diesel (TL / Lt)       | ↑     |
| Electricity (TL / kWh) | →     |

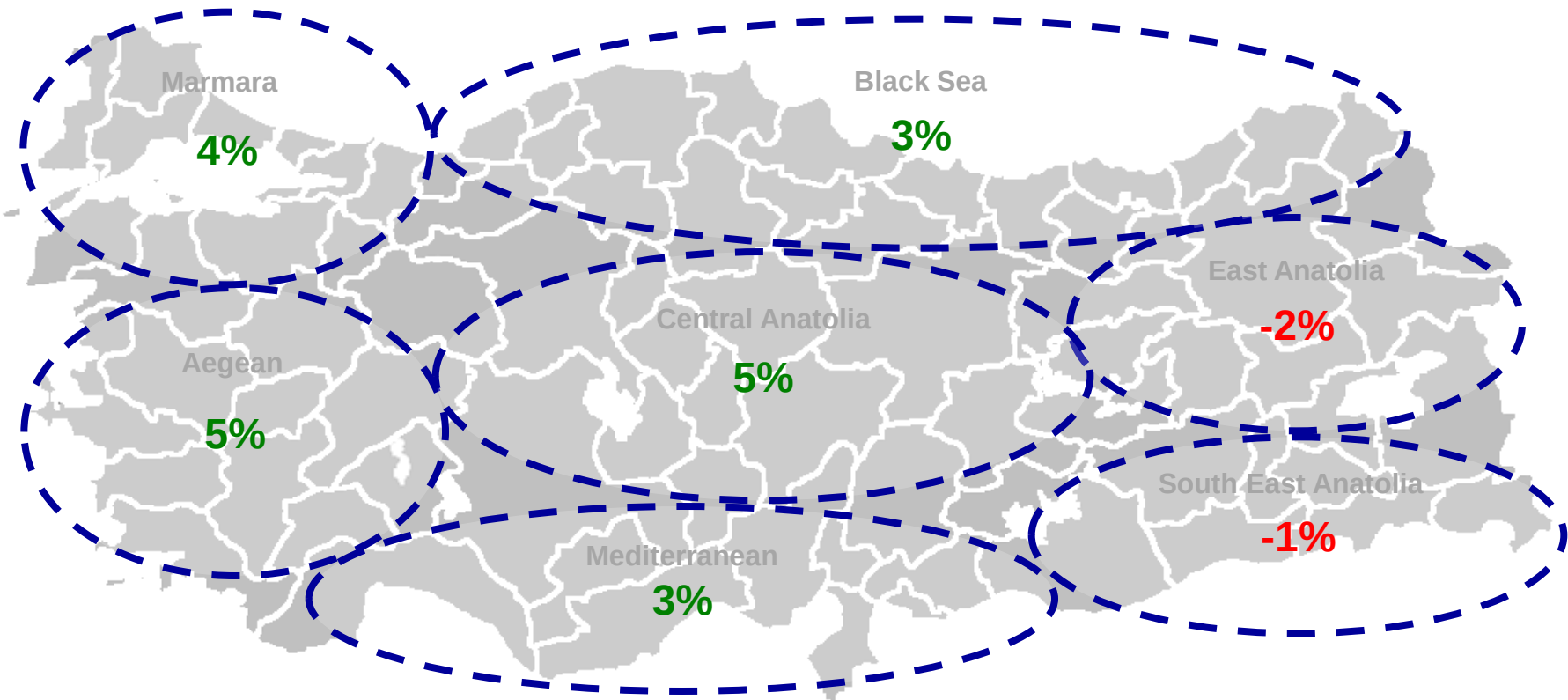
(\*) Latest forecast compared to 1H16

## Compared to 1H16:

- **No major price changes** in energy supply expected
- **100% of petrocoke requirement hedged** for 2016

# Regional Sales Volumes - 2016 Expectation

Cement demand in Turkish domestic market is expected to grow by 3% in 2016



Source: AKC estimations based on TCMA data

# Content

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# Awards, PR and Other Activities



## Awards, PR and Other Activities (continued)





## Awards, PR and Other Activities (continued)

**Akçansa Güzel Sanatlar Lisesi'ni  
2017 - 2018 eğitim dönemine kadar  
tamamlamayı hedefliyoruz.**





## Awards, PR and Other Activities (continued)



**Ladik Fabrikamıza**  
ÇEİS'ten İSG ödülü!

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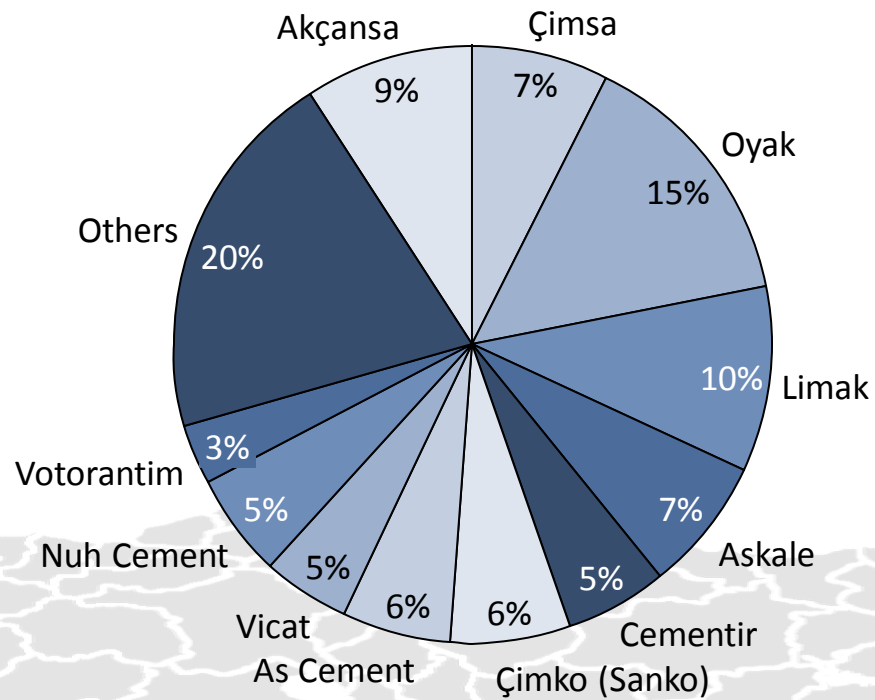
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# Appendix

# Turkey Clinker Capacity Distribution



First 3 groups form 40% of the Turkish Cement Capacity

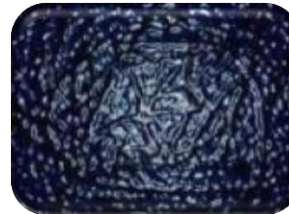
Source: TCMA



# Energy Always Matters

- To increase efficiency on energy usage
  - Flexibility in use of petrocake and coal
  - Use of import channels of HC Trading firms
  - High-sulfur petrocake usage permit
  - Hedging coal purchases to minimize cost inflation risk
  - Active electricity portfolio management
  - Canakkale Plant has been using shredded tire as alternative fuel since 2012
- To increase alternative fuel usage
  - Alternative fuel feeding system investment in Canakkale Plant
  - Agreement with Recydia Waste Management Company
  - Continue to import shredded tire
  - Planned to have RDF import license like shredded tire

## Primary



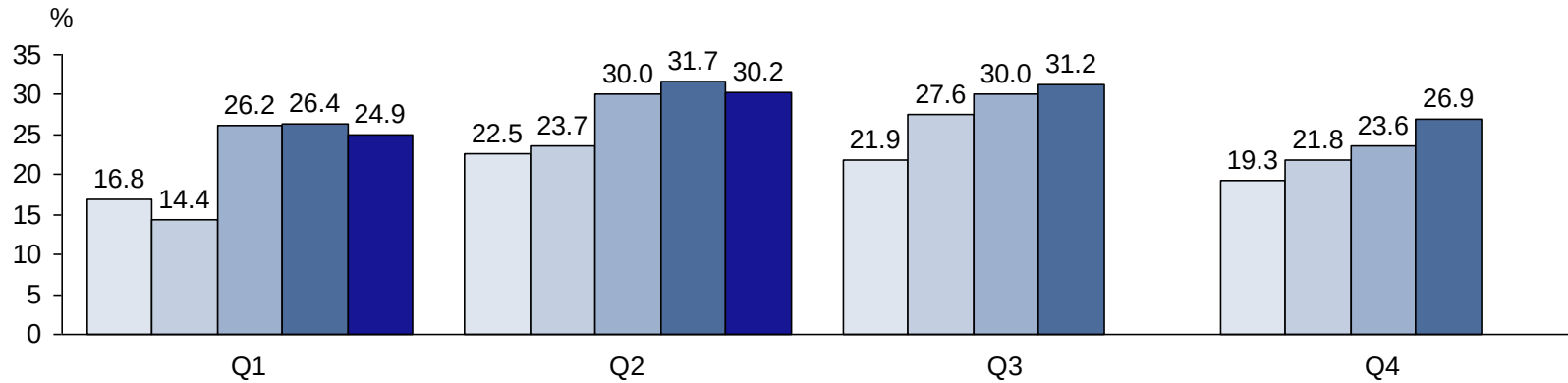
## Alternative



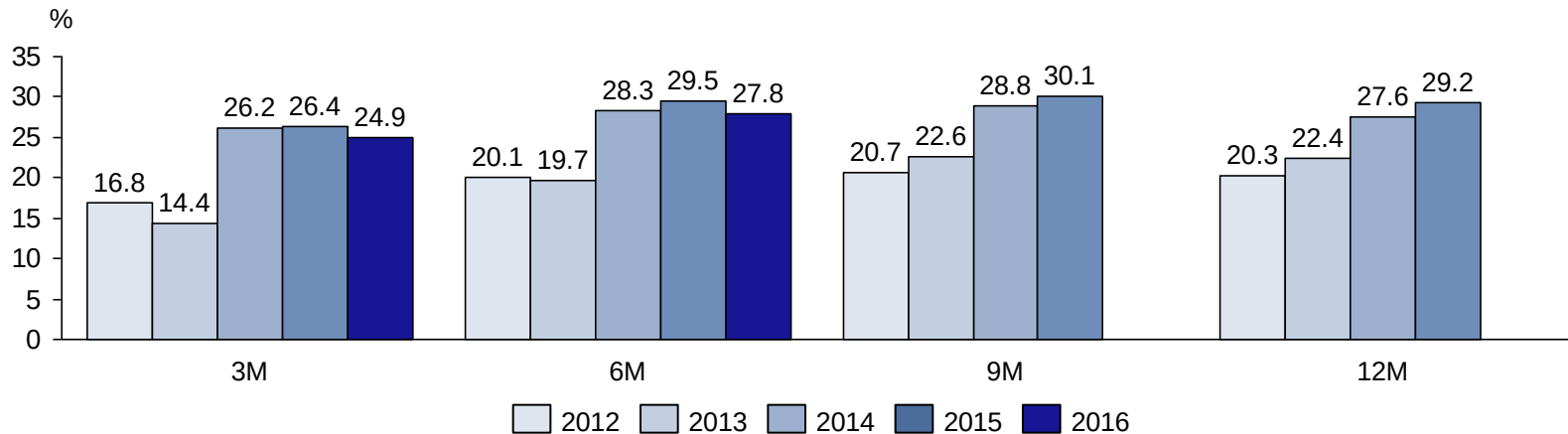


# EBITDA Margins

## EBITDA Margin\* - Quarterly



## EBITDA Margin\* - YTD



\*) Excludes the depreciation and amortization amount attributable to other operating expenses.

Source: AKC management report

# Akçansa Sustainability Approach

Sustainability  
Committee

Biodiversity

Sustainable  
Construction

Energy  
&  
Fuel

CO<sub>2</sub>

Reporting

- GRI Approval, January 2011
- First report in its sector
- 2nd report was approved as of June 2012
- 3rd report was approved as of November 2014
- Microalg pool in Canakkale Plant



# General Basics About Cement and RMC Production

## Production

- 1,6 ton limestone is consumed to produce 1 ton of clinker
- 75-90% clinker is consumed to produce 1 ton of cement
- 250-300 kg of cement in 1 m<sup>3</sup> RMC produced
- 1,5-2,0 ton of aggregate in 1 m<sup>3</sup> RMC produced depending on the type of RMC produced
- Distribution of cement production cost : 75-80 variable and 20-25% fixed costs

## Fuel

- A cement plant of 1 mio ton clinker capacity may consume 100 k ton petrocok or 130 k ton coal, or a mix of both
- 7.500 kcal/ton in petrocok vs. 6.000 kcal/ton in coal.
- Fuel accounts for 30-35% of the variable cost of producing 1 ton of cement
- 1% increase in alternative fuel usage have 1,5-2 mTL cost advantage per year

## Electricity

- Electricity accounts 25-30% of the variable cost of producing 1 ton of cement.
- 0,01 TL increase in cost of 1 kwh electricity corresponds to 1-1,5 TL cost increase in 1 ton of cement.
- Contribution of waste heat project
  - 33% of Çanakkale Plant electricity consumption
  - Monthly contribution to P&L of Akçansa will be around 1-1,5m TL based on current electricity prices