





Eight Years of Growth

03 November 2016









































11 Research Highlights

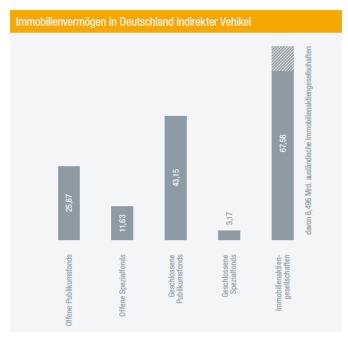
- Market capitalisation of German sector reaches EUR56bn (+ 38% yoy), exceeding the EUR50bn mark
- 2. Gross property value reaches EUR90bn (+14% yoy)
- 3. German share of the EPRA exceeds 20% (up 5%p)
- 4. Germany remains 2nd largest EPRA region
- 5. Gap to UK as No.1 reduced by 2/3 (Germany as double Brexit winner)
- 6. Germany with 2nd & 3rd largest European company
- 7. Growth still driven by domestic residential assets
- 8. IPO engine temporarily on hold, two new listings, however
- 9. H1 equity issuance very slow at EUR1bn, down 78% you
- 10. German share of European equity issuance down to 10%
- 11. Number of listed German real estate companies down 20% since 2011





Why Our Research Effort?

 Our previous research notes have shown that relevance of listed real estate has been massively underestimated in Germany due to a lack of comparable data



Quelle: Unternehmensangaben, ZIA, Barkow Consulting

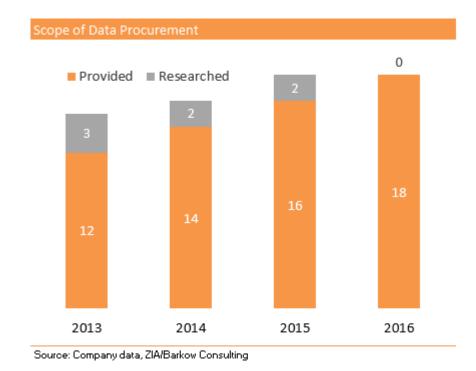
4th edition emphasizes the growing importance of listed real estate in Germany





- All 18 leading German real estate companies support research effort and have provided data
- Crucial data gap closed emphasizing importance of listed real estate in Germany

Scope of Data Procurement						
Company	2013	2014	2015	2016		
Adler Real Estate	n/a	n/a	Researched	Provided		
ADO Properties	n/a	n/a	n/a	Provided		
Alstria	Provided	Provided	Provided	Provided		
Buwog	n/a	Researched	Provided	Provided		
Vonovia	Provided	Provided	Provided	Provided		
Dt. Euroshop	Provided	Provided	Provided	Provided		
Dt. Office	Researched	Provided	Provided	n/a		
Dt. Wohnen	Provided	Provided	Provided	Provided		
DIC Asset	Provided	Provided	Provided	Provided		
Fair Value	Provided	Provided	Provided	Provided		
DEMIRE	n/a	n/a	n/a	Provided		
GAGFAH	Provided	Provided	n/a	n/a		
Grand City Properties	n/a	Researched	Researched	Provided		
GSW	Provided	n/a	n/a	n/a		
Hamborner	Provided	Provided	Provided	Provided		
LEG	Provided	Provided	Provided	Provided		
Patrizia	Provided	Provided	Provided	Provided		
Polis	Provided	Provided	Provided	n/a		
TAG	Researched	Provided	Provided	Provided		
TLG	n/a	n/a	Provided	Provided		
VIB	Researched	Provided	Provided	Provided		
WCM	n/a	n/a	Provided	Provided		
Provided	12	14	16	18		
Researched	3	2	2	0		

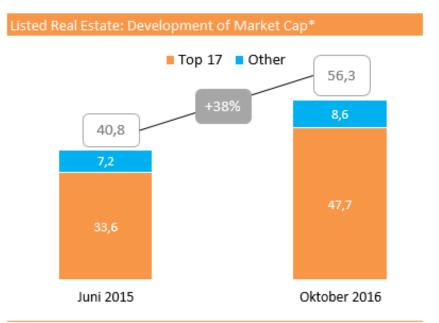






Development of Market Capitilisation

- Top 17 repreent 85% of sector
- Market cap reaches EUR56bn ...
- ... superceding EUR50bn threshold for the first time and significantly



^{*)} including Buwog

Source: Company data, Bloomberg, Ellwanger & Geiger, ZIA/Barkow Consulting

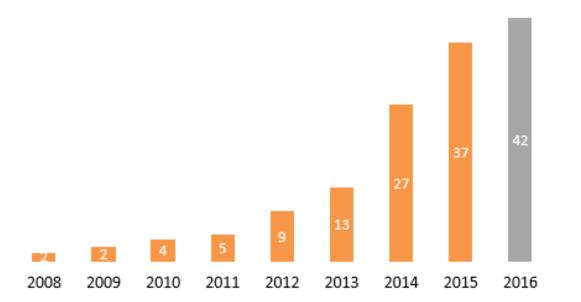




Development of Top 17 Free Float over the Long Run

- Free Float up from EUR1.5b in 2008 yoy to EUR42bn in 2016
- Sector growth seems to be moderating, however

Investible Free Float of German RE Companies (in EURbn)



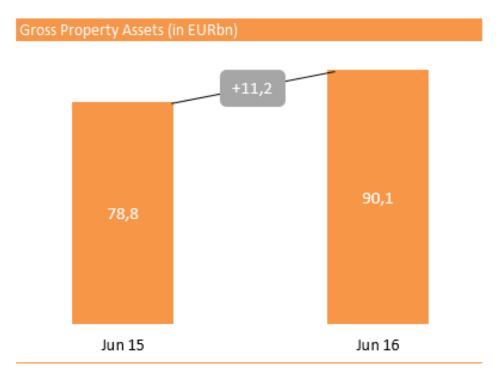
Source: Company data, Bloomberg, ZIA/Barkow Consulting





Development of Gross Property Value

Gross Property Value increases to EUR90.1bn (up 14% or EUR11.2bn yoy)



Source: Company data, Bloomberg, Ellwanger & Geiger, ZIA/Barkow Consulting





Development of Gross Property Value

Top 17 companies hold properties valued at EUR76bn





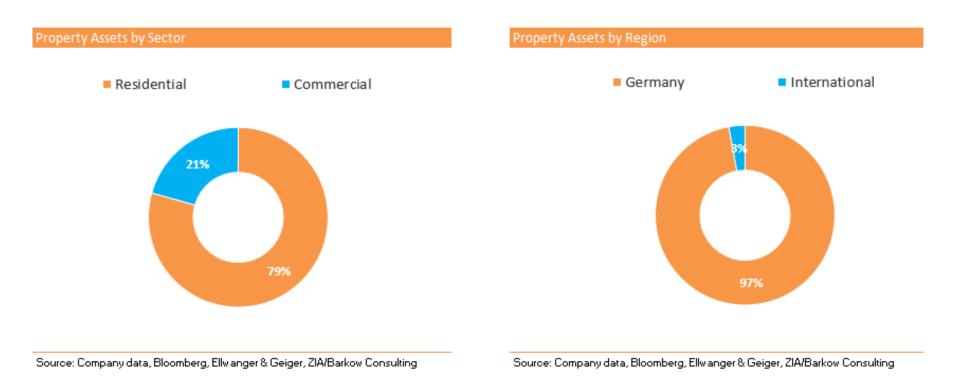
Source: Company data, Bloomberg, Bankhaus Ellwanger & Geiger, ZIA/Barkow Consulting





Gross Property Assets

- Share of residential real estate assets further up by 1%p yoy to now 79%
- Share of international assets still negligible at 3% and even marginally down yoy

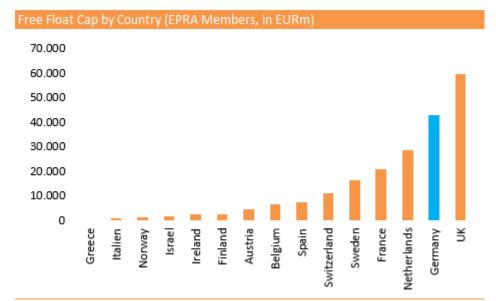




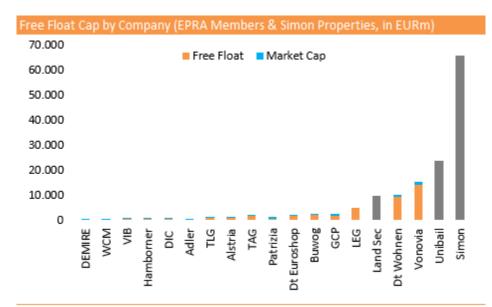


Development in European Context

- Germany remains 2nd largest country
- Gap to UK significantly narrowed, down 2/3 to currently EUR17bn
- Vonovia 2nd largest European company
- Dt. Wohnen at No.3



Source: EPRA, ZIA/Barkow Consulting



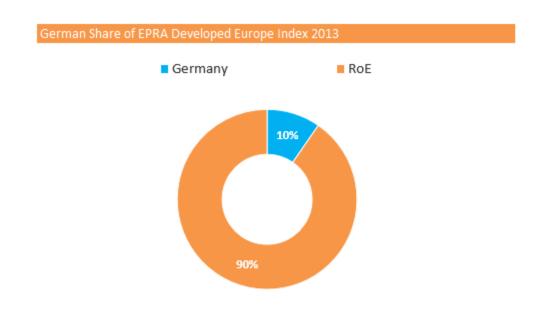
Source: Company data, Bloomberg, EPRA, Ellwanger & Geiger, ZIA/Barkow Consulting





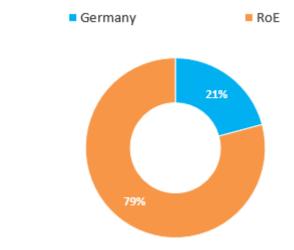
Germany increases share in EPRA Developed Europe Index

- German share currently 21%
- German share more than doubled since 2013
- Germany a double Brexit winner



Source: EPRA, ZIA/Barkow Consulting





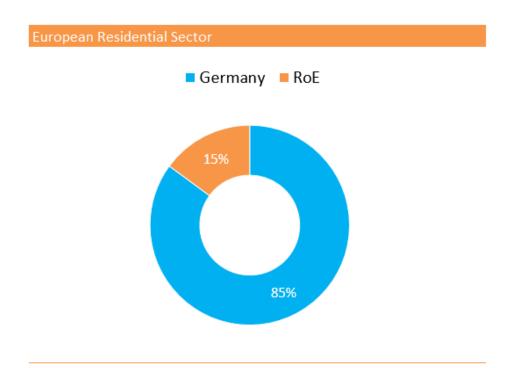
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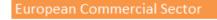


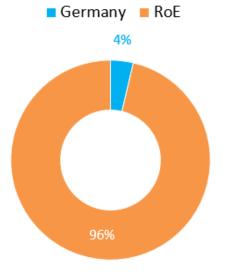


European Sector Weights

- German Resi dominates European residentail sector
- Germany's weight in the european commercial sector still negligible







Source: EPRA, ZIA/Barkow Consulting



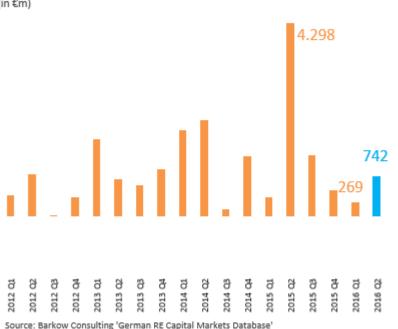


Development of Equity Issuance

- Slowing: EUR1bn issued in H1 2015 (down 78% yoy)
- Slight improvement in Q2
- No IPO, two Listings (Corestate, DEFAMA)

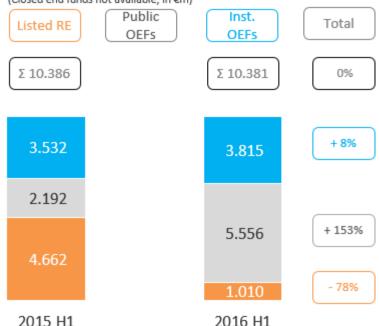
Listed Real Estate: Q2 Still Slow

Listed RE equity placements (in €m)



Slow Flows for Listed Real Estate

Net capital flows of indirect RE investment vehicles (Closed end funds not available, in €m)

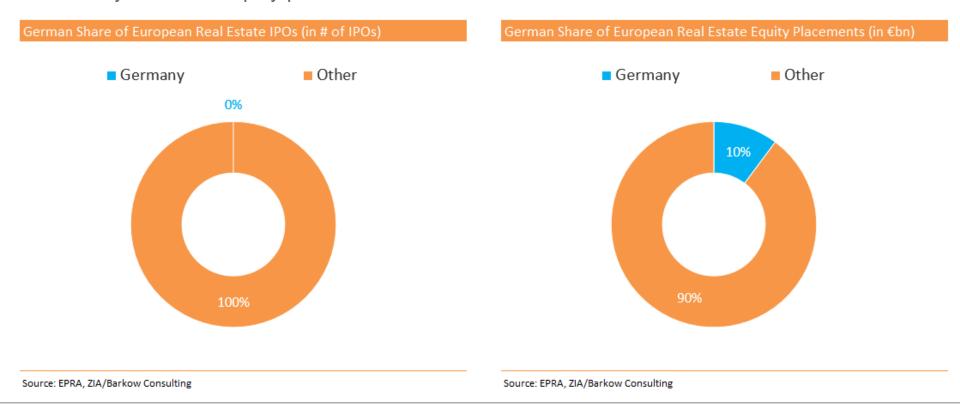






European Equity Issuance and IPOs 2016

- 6 European IPOs until Q3, none in Germany
- Germany with 10% equity placement share until Q3



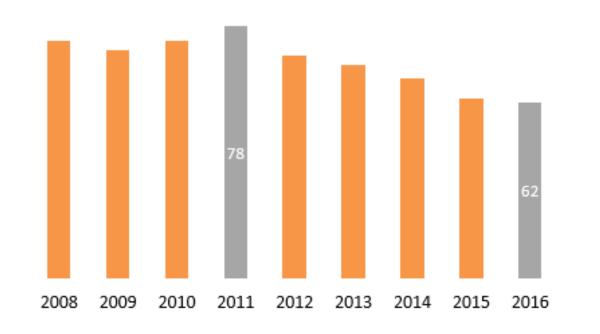




German Real Estate: A shrinking sector

• Number of German real estate stocks down by >20% since 2011

Number of Listed German RE Companies



Source: Ellwanger & Geiger, ZIA/Barkow Consulting





Most data points with new highs

German Listed Sector: Property Data				
in EURbn @ Period End	Jun 15	Jun 16	Delta 15-16	Delta 15-16
Total Property on Balance Sheet (total assets)	78,8	90,1	11,2	14,3%
By Sector				
Residential	61,8	71,5	9,6	15,6%
Commercial	17,0	18,6	1,6	9,5%
By Geography				
Germany	76,3	87,4	11,1	14,6%
International	2,6	2,6	0,0	-1,1%
German Listed Sector: Capital Markets Data				
in EURbn @ Period End	Jun 15	Okt 16	Delta 15-16	Delta 15-16
Total Market Cap	40,8	56,3	15,4	37,8%
Top 17 Market Cap	33,6	47,7	14,0	41,7%
Top 17 Free Float	28,4	41,6	13,2	46,4%
EPRA Europe ex UK EU German Share	27,0%	29,9%	2,9%	10,6%
EPRA Europe German Share	15,9%	20,8%	4,9%	30,5%

Source: Company data, EPRA, Ellwanger & Geiger, Bloomberg, ZIA, Barkow Consulting





Can the trend continue?

- Hard to see how positive drivers can get better still
 - Interest rates below zero
 - Large companies relatively well capitalised
 - Large portfolios hard to find

- Future growth will depend on
 - Improved growth momentum in commercial sector
 - Interest rate environment