

Q2.2017_ Unchanged market situation is still pushing prices higher

Owner-occupied residential housing: +5,3%*

Multi-family houses: + 6,7 %*

Office properties: +7,5%

Retail properties: + 1,5 %*

The upward trend on the German real estate market continued yet again in the second quarter of 2017. The vdp property price index rose by 5.9% compared with the corresponding quarter one year earlier. This growth in prices was attributable in particular to the markets for multi-family houses and for office and administration buildings. These two asset classes were once again in great demand among German and foreign institutional investors alike. But among private real estate buyers, too, the high level of demand for condominiums and owner-occupied houses was unbroken. Nor are there any signs of a trend reversal before the end of the year.

^{*} compared with the corresponding quarter the previous year



Prices for German housing recorded an increase of 6% compared with the corresponding quarter one year earlier, with owner-occupied housing prices rising 5.3%. The high demand for condominiums, preferably in metropolitan areas and popular university cities, continues unabated. Here, demand outstripped supply, particularly as new construction activity failed to satisfy demand. As a result, prices for condominiums were 6.4% higher than in the second quarter of 2016. The situation in the market for owner-occupied houses is similar, with prices rising at a slightly slower pace – by 4.8% – than for condominiums over the same period.

Growth in prices for multi-family houses is being driven by developments on the German housing market to a much greater extent. Investments in metropolitan areas are proving especially attractive and are in great demand. As a result, prices went up by 6.7% while returns, measured in terms of the cap rate index for multi-family houses, dropped by 3.5% against the corresponding quarter in 2016. Over the same period, new lease rentals saw a 2.9% rise, reflecting the persistently high demand for rented living space.

The market for commercial properties likewise remains in the focus of domestic and foreign investors: the corresponding index advanced by 5.5% compared with the second quarter of 2016. The low-interest-rate environment combined with high liquidity are fueling demand. Moreover, the fact that many investors consider Germany to be a safe haven in today's choppy international waters is probably giving additional momentum to demand for commercial properties.

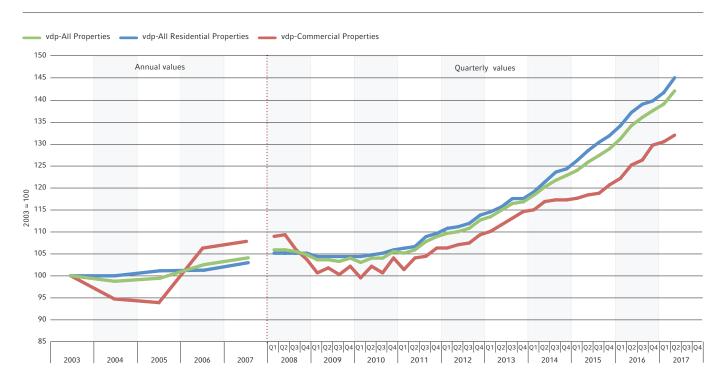
Office premises, the capital values of which surged by 7.5% against the same period one year earlier, generated particular interest among investors. The very high level of demand resulted in returns being compressed further. Accordingly, the cap rate index fell by 4.2%. On the rental market for office properties, demand remained strong, buoyed by the positive trend in employment in a robust economic setting. Often, demand outpaced an insufficient supply, pushing office rents 3% higher than in the second three-month period of 2016.

Compared with the other segments of the real estate market, prices for retail premises rose only slightly, by 1.5%. In this segment, too, investor interest remains strong. As a result, the cap rate index dipped by 1%. New lease rentals for retail properties saw an increase of 0.6% over the same period.



Real estate market as a whole:

Price trend continues on upward path



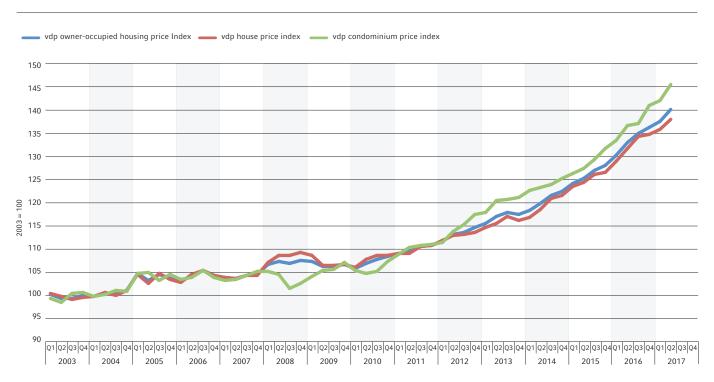
		All	properties	All re	esidential properties	All commercial properties	
	Year	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %
	2006	102.5	3.1	101.3	0.1	106.3	13.3
-	2007	104.1	1.6	102.9	1.6	107.9	1.5
=	2008	105.2	1.1	104.8	1.8	106.6	-1.2
100	2009	103.2	-1.9	104.0	-0.8	100.8	-5.4
II	2010	103.8	0.6	104.6	0.6	101.2	0.4
INDEX: 2003	2011	106.6	2.7	107.5	2.8	103.7	2.5
- DEX:	2012	110.6	3.8	111.7	3.9	107.1	3.3
Z	2013	115.2	4.2	116.2	4.0	112.1	4.7
-	2014	120.6	4.7	122.0	5.0	116.4	3.8
_	2015	126.6	5.0	129.2	5.9	118.7	2.0
	2016	134.8	6.5	137.7	6.6	125.8	6.0

		All properties		All re	All residential properties		All commercial properties	
	Quarter	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %	
	2015 Q3	127.5	4.7	130.4	5.7	118.7	1.5	
	2015 Q4	129.1	5.3	132.0	6.2	120.3	2.6	
	2016 Q1	131.2	5.8	134.2	6.4	122.1	3.8	
100	2016 Q2	134.3	6.7	137.3	6.9	125.2	5.8	
2003 =	2016 Q3	136.1	6.7	139.2	6.7	126.3	6.4	
INDEX: 20	2016 Q4	137.6	6.6	140.1	6.1	129.7	7.8	
	2017 Q1	139.1	6.0	141.9	5.7	130.3	6.7	
_	2017 Q2	142.2	5.9	145.5	6.0	132.1	5.5	



Owner-occupied housing:

No let-up in high demand



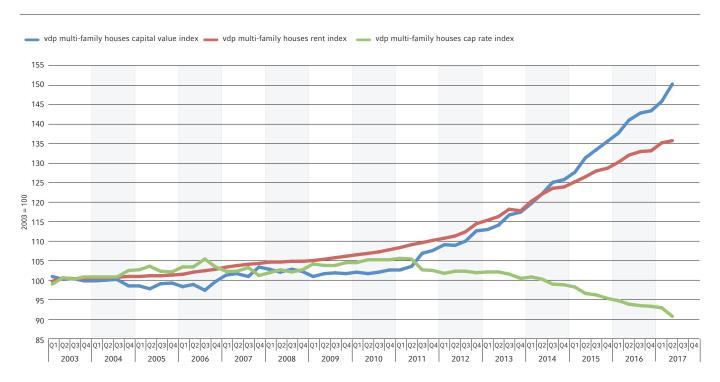
		Owner o	ccupied housing	Sir	ngle family houses	Condominiums	
	Y ear	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %
	2006	104.5	0.2	104.5	0.3	104.4	-0.3
•	2007	104.3	-0.2	104.2	-0.3	104.3	-0.1
	2008	107.4	3.0	108.7	4.3	103.7	-0.6
100	2009	106.9	-0.5	107.3	-1.3	105.8	2.0
II.	2010	107.5	0.6	108.0	0.7	106.0	0.2
2003	2011	110.2	2.5	110.2	2.0	110.5	4.2
IND EX:	2012	113.6	3.1	113.2	2.7	114.8	3.9
Z	2013	117.2	3.2	116.1	2.6	120.4	4.9
	2014	120.9	3.2	119.7	3.1	124.0	3.0
	2015	126.3	4.5	125.4	4.8	128.9	4.0
	2016	133.9	6.0	132.7	5.8	137.3	6.5

		Owner occupied housing		Sir	gle family houses	Condominiums	
	Quarter	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %
	2015 Q3	127.2	4.3	126.3	4.3	129.6	4.4
	2015 Q4	128.2	4.4	126.8	4.0	131.9	5.2
	2016 Q1	130.4	4.7	129.2	4.4	133.7	5.7
: 100	2016 Q2	133.3	6.3	132.0	5.9	137.0	7.3
2003 =	2016 Q3	135.3	6.4	134.5	6.5	137.4	6.0
INDEX: 20	2016 Q4	136.6	6.6	135.0	6.5	141.2	7.1
	2017 Q1	137.7	5.6	136.0	5.3	142.4	6.5
_	2017 Q2	140.3	5.3	138.3	4.8	145.8	6.4



Multi-family houses:

Demand has gathered pace



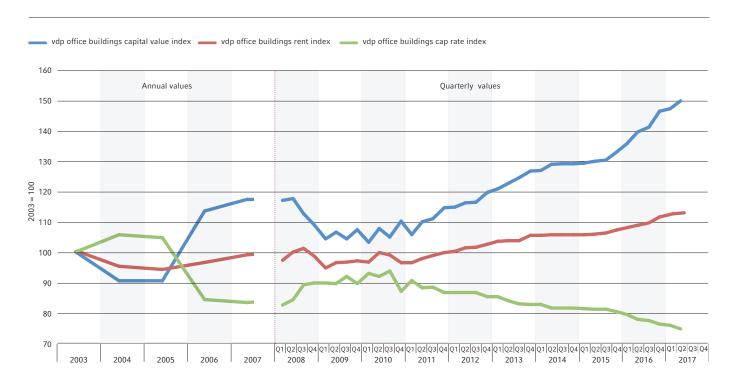
		Capital v		R	lesidential rents		Cap rate	
	Year	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %	
	2006	98.2	-0.2	101.9	1.0	103.8	1.2	
	2007	101.5	3.4	103.6	1.7	102.1	-1.6	
	2008	102.3	0.8	104.5	0.9	102.2	0.1	
100	2009	101.3	-1.0	105.3	0.8	104.0	1.8	
II	2010	101.8	0.5	106.9	1.5	104.9	0.9	
2003	2011	104.9	3.0	109.1	2.1	104.0	-0.9	
INDEX:	2012	110.0	4.9	112.1	2.7	101.9	-2.0	
Ξ	2013	115.2	4.7	116.8	4.2	101.4	-0.5	
	2014	123.1	6.9	122.4	4.8	99.5	-1.9	
	2015	132.0	7.2	127.1	3.8	96.3	-3.2	
	2016	141.4	7.1	132.2	4.0	93.5	-2.9	

		Capital value		F	Residential rents		Cap rate	
	Quarter	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %	
	2015 Q3	133.5	6.9	128.0	3.7	95.9	-2.9	
	2015 Q4	135.6	7.8	128.8	4.0	95.0	-3.6	
	2016 Q1	137.8	8.0	130.2	4.0	94.5	-3.7	
100	2016 Q2	141.1	7.5	132.1	4.5	93.6	-2.8	
2003 =	2016 Q3	143.0	7.1	133.1	4.0	93.1	-2.9	
X: 20	2016 Q4	143.5	5.8	133.3	3.5	92.9	-2.2	
INDEX:	2017 Q1	146.0	6.0	135.2	3.8	92.6	-2.0	
	2017 Q2	150.5	6.7	135.9	2.9	90.3	-3.5	



Office and administration buildings:

Pressure on returns persists



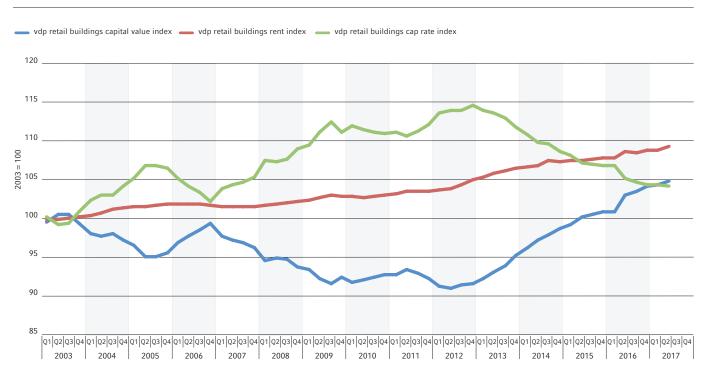
		Ca	pital value	value Residential rents			Cap rate	
	Y ear	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %	
_	2006	111.7	20.9	97.3	1.4	87.1	-16.2	
_	2007	115.0	3.0	99.1	1.8	86.2	-1.0	
_	2008	114.4	-0.5	99.7	0.6	87.3	1.3	
100	2009	105.9	-7.4	96.6	-3.1	91.2	4.5	
II .	2010	106.7	0.8	98.4	1.9	92.3	1.2	
2003	2011	110.5	3.6	98.7	0.3	89.3	-3.3	
INDEX: 2003	2012	117.2	6.1	102.0	3.3	87.1	-2.5	
Ž –	2013	124.1	5.9	104.8	2.7	84.5	-3.0	
_	2014	128.9	3.9	106.3	1.4	82.5	-2.4	
_	2015	131.1	1.7	106.9	0.6	81.6	-1.1	
_	2016	141.2	7.7	110.4	3.2	78.2	-4.2	

		Capital value		F	Residential rents		Cap rate	
	Quarter	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %	
	2015 Q3	130.8	1.0	106.9	0.6	81.7	-0.5	
	2015 Q4	133.4	3.0	107.9	1.5	80.9	-1.5	
	2016 Q1	136.3	5.0	108.9	2.3	79.9	-2.6	
100	2016 Q2	140.0	7.4	109.6	2.8	78.3	-4.3	
2003 =	2016 Q3	141.7	8.3	110.4	3.3	77.9	-4.7	
X: 20	2016 Q4	146.9	10.1	112.5	4.3	76.6	-5.3	
INDEX:	2017 Q1	147.8	8.4	112.6	3.4	76.2	-4.6	
	2017 Q2	150.5	7.5	112.9	3.0	75.0	-4.2	



Retail buildings:

Price growth slows down



		Capital value		R	desidential rents	Cap rate	
	Year	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %
	2006	98.3	2.5	101.7	0.1	103.5	-2.3
	2007	97.2	-1.1	101.4	-0.3	104.3	0.8
	2008	94.9	-2.4	101.8	0.4	107.3	2.9
100	2009	93.0	-2.0	102.5	0.7	110.2	2.7
II .	2010	92.9	-0.1	102.7	0.2	110.5	0.3
2003	2011	93.4	0.5	103.2	0.5	110.5	0.0
INDEX: 2003	2012	91.9	-1.6	103.9	0.7	113.0	2.3
Z	2013	94.1	2.4	105.5	1.5	112.1	-0.8
	2014	97.7	3.8	106.6	1.0	109.1	-2.7
	2015	100.3	2.7	107.1	0.5	106.8	-2.1
	2016	102.8	2.5	107.9	0.7	105.0	-1.7

		Capital value		F	Residential rents	Cap rate	
	Quarter	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %
-	2015 Q3	100.6	2.5	107.2	0.3	106.5	-2.3
	2015 Q4	100.8	2.0	107.3	0.5	106.4	-1.6
	2016 Q1	100.8	1.5	107.3	0.4	106.4	-1.1
100	2016 Q2	102.9	2.6	108.0	0.9	104.9	-1.6
2003 =	2016 Q3	103.3	2.7	107.9	0.7	104.4	-2.0
X: 20	2016 Q4	103.9	3.1	108.2	0.8	104.1	-2.2
INDEX:	2017 Q1	104.0	3.2	108.2	0.8	104.0	-2.3
	2017 Q2	104.5	1.5	108.6	0.6	103.9	-1.0



Methodology

Data basis

German financial institutions participating in the transaction database provide transaction details from their real estate financing business for input into the database. The database has been maintained since 2004 and provides statistically evaluable information on actual real estate transactions. Data are captured by the participating institutions in the form of appraisals of market and mortgage lending values that are prepared in the course of their mortgage lending activities. Property valuations are determined within each financial institution by certified property valuers or specially trained bank personnel. In addition to purchase price and date of purchase, the appraisal includes information about the property's macro and micro location, its age, layout and other price-influencing variables. In the case of certain types of property, information is also collected with regard to rental agreements and the date they were concluded. Information used to derive market and mortgage lending values is ascertained partly from submitted documentation and partly by valuers working in accordance with codified procedures. Table 1 provides an overview of the variables most frequently applied in the specification of individual indices for various market segments.

Table 1: Variables from the vdp's transaction database

Variable	Scaling	Characteristics
Macro location	Nominal	District or town in Germany
Micro location	Ordinal	Very good - good - average -
		moderate - poor - catastrophic
Living /usable space	Metric	Living or usable space m ²
Plot size	Metric	Plot size of property in m ²
Year built	Metric	Year property built
Layout	Ordinal	Very good - good - average -
j		moderate - poor - catastrophic
Condition	Ordinal	Very good - good - average -
		moderate - poor - catastrophic
Saleability	Ordinal	Very good - good - average -
		moderate - poor - catastrophic
Sub-property type	Nominal	Division of market segment
		into sub-segments
Purchase price	Metric	Purchase price of property in Euros
Rent	Metric	Contractual rent of property
		in Euros per m²

Substantive definitions of individual variables are coordinated with financial institutions via the contractual relationship between them and the vdp. In addition, property valuation in Germany is subject to strict regulations, which ensure that the valuation processes of individual institutions are harmonised to the greatest extent possible, especially as a result of the Verordnung über die Grundsätze für die Ermittlung der Verkehrswerte von Grundstücken (Regulation on the Principles for Determining the Market Value of Property - abbreviated to ImmoWertV) and the Beleihungswertermittlungsverordnung (Regulation on the Determination of the Mortgage Lending Value - abbreviated to BelWertV). Because the purchase prices and significant price-influencing characteristics of individual properties are determined in a uniform manner and because they are input into a uniform database structure, it is possible to analyse the data with the help of complex statistical procedures.

Calculation

As a result of the distinct heterogeneity of real estate properties and in order to be able to measure pure price changes, it is necessary to take account of the varying quality of the properties concerned when measuring prices. Various procedures exist which take explicit account of the differences in the quality of individual properties in order to be able to measure pure price changes.

All vdp real estate indices are calculated by making use of so-called hedonic models. The hedonic model is based on the idea that heterogeneous commodities can be described by reference to their characteristics. In other words, a commodity can be represented as the sum of its characteristics. With regard to real estate, this means that this set of attributes might include, for example, details of physical characteristics such as plot size, living area, year built and details as to the property's location. Each of these named attributes has a specific influence on the price of the property, but there is no market for the attributes themselves; they cannot be sold separately and therefore cannot be viewed in isolation. It is possible, nonetheless, implicitly to determine the proportion of the overall price of the property which each individual attribute makes up by examining real estate supply and demand. Multivariate regression models are used for this purpose, helping to provide a statistical estimate of the marginal contribution of each attribute. It is assumed that the model incorporates all relevant attributes and that deviations occur simply by coincidence and are not indicative of any systematic structures.

Weighting

The overall index is the weighted arithmetical average of the various price indices for residential and commercial real estate. The weightings used correspond to the share of monetary turnover in the German real estate market constituted respectively by residential and commercial real estate. Based on details provided by valuer committees (Gutachterausschüsse), these averaged 75.6% and 24.4%, respectively, between 2007 and 2012.

The price index for residential real estate is the weighted arithmetical average of the price index for owner-occupied housing and the capital value index for multi-family houses. The weightings used correspond to the proportion of private households in Germany that own dwellings or land. In 2003 this amounted to 48.8%. It therefore follows that the proportion of households that did not own dwellings or land amounted to 52.2%.

For the commercial property price index, the weightings attributable to the office property capital value index and the retail property capital value index correspond to the proportion of loans in the accounts of Pfandbrief Banks that were granted to these two categories. The figures for office property and retail property amount to 60% and 40%, respectively.

Publication

All vdp real estate price indices are published on a quarterly basis. Each year's first quarter index figures are published on 10 May of the same year (six weeks after the end of the quarter under review). Other publication dates are as follows:

- 10 August, 2nd quarter
- 10 November, 3rd quarter
- 10 February of the following year, 4th quarter (including figures for the year as a whole)

The index figures are released at 2:00 p.m. on the respective publication dates. Where the publication date falls on a Saturday, Sunday or public holiday, the index figures are published on the next working day at 2:00 p.m.

The accompanying press releases are published in German and English on the websites of the Verband deutscher Pfandbriefbanken e.V. (vdp) www.pfandbrief.de and vdpResearch GmbH www.vdpresearch.de. They are also published via press agencies.

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The vdp's know-how is tailored towards the specific interests of the Pfandbrief issuers, namely, the Pfandbrief business and the underlying business fields property finance, public-sector lending, ship and aircraft finance. The vdp assists its member banks also in regulatory matters and represents them vis-à-vis national regulatory authorities. By means of group governance, member institutions exchange information and experiences in vdp committees, which are then summarized and developed into market standards. The vdp also assists its member banks in the efficient structuring of their specialized loan or issuance businesses.

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Figures provided by vdpResearch are regarded by numerous banks as a crucial tool for valuing and assessing property and market risks. The Germany-wide real estate price indices which it prepares for the Association of German Pfandbrief Banks are also directed at interested members of the public. These provide an overview of general trends in real estate prices in Germany.

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