

Property prices unaffected by the economic environment

Compared with the corresponding quarter the previous year:

Property market as a whole: +6.7 %

Housing: **+6.6 %** Owner-occupied housing: + 7.3 % Multi-family houses: + 6.0 %

Housing top 7 markets: **+4.6 %** Owner-occupied housing: +4.1 % Multi-family houses: +4.7 %

Commercial: **+6.8 %** Office properties: +10.5 % Retail properties: -0.6 %



Property prices unaffected by the economic environment

Market as a whole

Despite sobering figures on the German economy and global and European uncertainties, German residential and commercial property prices continued to rise in the second guarter of 2019. This is confirmed by the vdp property price index, which climbed by 6.7% compared with the corresponding quarter one year earlier. The general trend is due to the continuing low level of interest rates, which could fall further still if the European Central Bank resumes the bond purchase programme as announced. For many investor groups, property investment remains one of the most popular asset classes, with the result that they are constantly expanding their investment activities. Limited supply is keeping yields under pressure. As a consequence, cap rates in the residential and commercial segments continued to fall.

Housing market

The housing market, which is dominated by German investors in particular, recorded a 6.6% rise in prices in the second guarter of 2019. Thus it appears that price momentum in the housing market continued to ease slightly. The vdp index for multi-family houses showed a somewhat weaker increase, rising by 6.0%. Here, the willingness to acquire property at any price appears to be declining against the backdrop of the risks posed by government intervention such as rent caps in urban centres and the rent brake. New lease rentals rose by a further 4.6% within twelve months, indicating that the market situation remains very tight in many towns and cities.

Prices of owner-occupied housing have risen much more sharply. The corresponding vdp index rose by 7.3% compared with the same quarter the previous year. Single-family house prices rose by 7.6%, a considerably higher rate than for condominiums, which went up by 6.4%. In both cases, growth rates continue to reflect persistently high demand for home ownership, supported by the further decline in interest rates.

Top 7 housing market

Price growth momentum in the top 7 cities appears to be flattening out more noticeably than in the market as a whole. No doubt this is due to the very high price increases realised in recent years. Prices rose by 4.6% compared with the same quarter of the previous year. In the area of owner-occupied housing, there was little difference between single-family houses and condominiums during this period. Prices in both submarkets rose by 4.1% compared with the second quarter of 2018.

Prices for multi-family houses increased by 4.7%. The first signs of a possible easing can be seen in the rental markets of the top 7 cities: prices for new lease rentals rose somewhat less strongly, increasing by 3.6% compared with the same period of the previous year. This indicates that measures such as the introduction of the rent brake and increased construction activity may be starting to have an effect. The oftcited overheating of the top 7 markets is still present, but appears to be gradually cooling off.

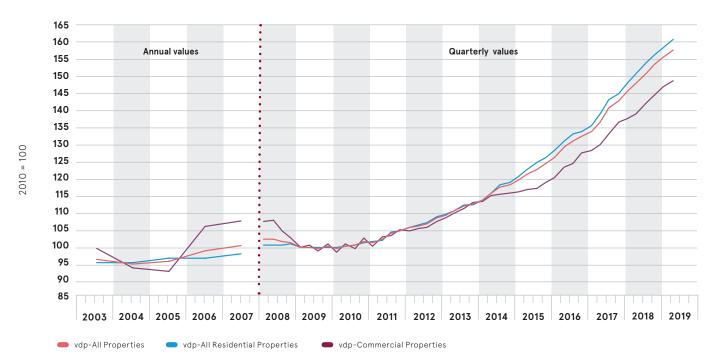
Commercial property market

On the other hand, there was no loss of momentum in the commercial property market, where prices increased by 6.8%. Hence, for the first time in a long while, this market segment recorded a stronger increase than residential property. This growth was driven solely by the trend of the office property market which rose by 10.5%, representing the strongest hike in prices in the entire observation period. On the one hand, this is due to the investment market. Offices remain the most popular form of investment property, with the result that the cap rate fell by 3.4% compared with the same quarter of the previous year. On the other hand, despite the economic downturn, there is high demand for office space in the user market, which cannot be met against the backdrop of historically low vacancy rates. Consequently, office rents rose at an above-average rate of 6.7%.

Retail property prices have been under pressure for several quarters, with the result that they recorded a further slight decline of 0.6%. In this market segment, investors continued to focus on types of property less affected by the growth of online trading. Consequently, the cap rate rose by 0.2%. On the user side, the trend of declining demand for space from textile retailers and lower space use per store continued. Pressure on landlords increased as a result, so that rents decreased slightly by 0.4%.

Real estate market as a whole

Office properties dominate the price trend



		All properties	S	All residentia	l properties	All commercial properties		
	Year	Index	y-o-y change in %	Index	y−o−y change in %	Index	y-o-y change in %	
	2008	101.4	1.1	100.2	2.0	105.2	-1.2	
00	2009	99.5	-1.9	99.4	-0.8	99.7	-5.3	
	2010	100.0	0.5	100.0	0.6	100.0	0.4	
	2011	102.7	2.6	102.7	2.7	102.4	2.4	
	2012	106.4	3.7	106.7	3.8	105.5	3.0	
7017	2013	110.7	4.1	110.9	3.9	110.4	4.6	
	2014	115.9	4.7	116.4	5.0	114.6	3.8	
	2015	121.7	5.0	123.3	5.9	117.0	2.1	
	2016	129.5	6.4	131.4	6.5	123.7	5.8	
	2017	138.3	6.8	140.5	6.9	131.8	6.5	
	2018	149.4	8.0	152.2	8.3	140.7	6.8	

Index: 2010 = 100

Index: 2010 = 100

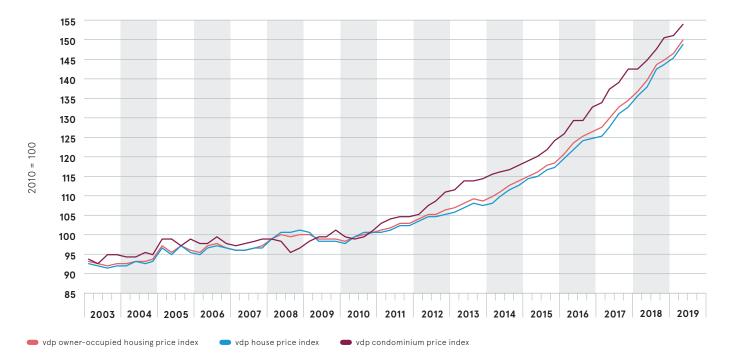
All residential properties

Quarter Index Y=o-Y change in % Index Q3 2017 140.6 7.5 143.1 Q4 2017 142.7 8.0 144.8 Q1 2018 145.3 8.8 147.8 Q2 2018 147.9 8.3 150.8 Q3 2018 150.8 7.3 153.7 Q4 2018 153.5 7.6 156.4	у-о-у change in %r 7.7 8.3 9.2	Index 132.9 136.3 137.5	у-о-у change in % 7.0 7.0
Q4 2017 142.7 8.0 144.8 Q1 2018 145.3 8.8 147.8 Q2 2018 147.9 8.3 150.8 Q3 2018 150.8 7.3 153.7	8.3	136.3	7.0
Q1 2018145.38.8147.8Q2 2018147.98.3150.8Q3 2018150.87.3153.7			
Q2 2018 147.9 8.3 150.8 Q3 2018 150.8 7.3 153.7	9.2	137.5	
Q3 2018 150.8 7.3 153.7			7.4
	8.7	139.0	7.1
Q4 2018 153.5 7.6 156.4	7.4	142.0	6.8
	8.0	144.5	6.0
Q1 2019 155.4 7.0 158.2	7.0	146.7	6.7
Q2 2019 157.7 6.7 160.7		148.4	6.8

Owner-occupied housing

Declining interest rates strongly stimulate demand

Owner occupied housing



Owner occupied housing Single family houses Condominiums y-o-y change in % y-o-y change in % y-o-y change in % Year Index Index Index 2008 100.0 3.3 100.6 4.3 97.9 -0.6 99.4 99.3 -1.3 99.8 2.0 2009 -0.6 2010 100.0 0.6 100.0 0.7 100.0 0.2 104.3 2011 102.4 2.4 101.9 1.9 4.3 2012 105.5 3.0 104.7 2.7 108.3 3.9 2013 108.7 3.1 107.5 2.6 113.6 4.9 2014 112.1 3.1 110.8 3.1 117.0 3.0 2015 117.2 4.6 116.0 4.7 121.7 4.0 2016 124.2 6.0 122.8 5.8 129.6 6.5 2017 131.4 5.8 129.6 5.5 138.5 6.8 2018 141.5 7.7 140.2 8.2 146.6 5.8

		Owner occup	ieu nousing	Single family f	louses	Condominium			
	Quarter	Index	y-o-y change in %	Index	у-о-у change in %	Index	y-o-y change in %		
	Q3 2017	133.0	6.0	131.4	5.6	139.3	7.4		
0	Q4 2017	134.9	6.6	133.0	6.4	142.6	7.0		
= 100	Q1 2018	137.1	7.4	135.7	7.8	142.9	6.3		
2010	Q2 2018	137.1 7 139.7 7 143.8 8	7.5	138.4	8.1	145.0	5.3		
\$X: 2	Q3 2018	143.8	8.1	142.8	8.7	147.8	6.1		
Index:	Q4 2018	145.3	7.7	143.9	8.2	150.6	5.6		
	Q1 2019	146.9	7.2	145.8	7.4	151.5	6.0		
	Q2 2019	149.9	7.3	148.8	7.6	154.3	6.4		

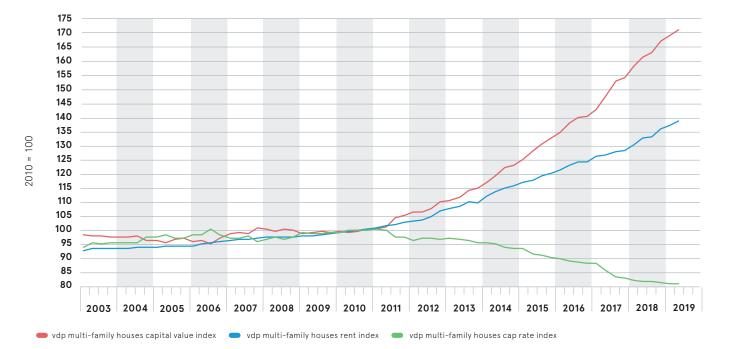
Single family houses

Condominiums

Index: 2010 = 100

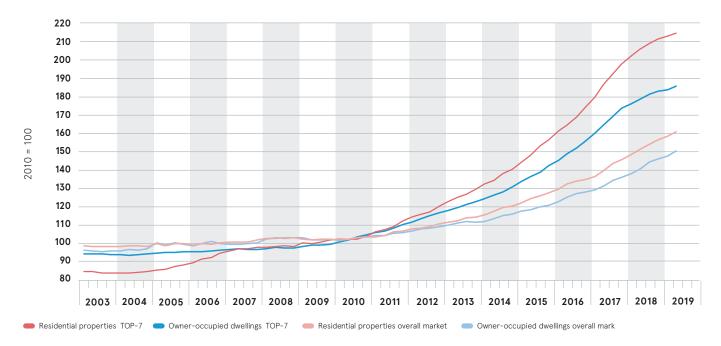
Multi-family houses:

Price growth weakening slightly



Capital value Residential rents Cap rate y-o-y change in % y-o-y change in % y-o-y change in % Year Index Index Index 2008 100.4 0.7 97.7 0.8 97.4 0.1 99.5 -0.9 98.5 0.8 99.1 1.7 2009 2010 100.0 0.6 100.0 1.5 100.0 0.9 102.1 99.1 2011 103.0 3.0 2.1 -0.9 2012 107.9 4.8 104.8 2.7 97.1 -1.9 2013 113.1 4.8 109.3 4.2 96.6 -0.5 2014 120.8 6.8 114.5 4.8 94.8 -1.9 2015 129.5 7.3 118.9 3.9 91.8 -3.2 2016 138.7 7.1 123.7 4.0 89.1 -2.9 2017 149.7 7.9 127.7 3.2 85.3 -4.3 2018 9.0 163.2 133.6 4.6 81.9 -4.0

	Capital value		Residential re	ents	Cap rate	
Quarter	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %
Q3 2017	153.4	9.3	128.2	2.9	83.6	-5.8
Q4 2017	154.9	9.9	128.8	3.3	83.2	-6.0
Q1 2018	158.9	10.9	130.9	3.5	82.4	-6.6
Q2 2018	162.1	9.7	133.1	4.6	82.1	-4.7
Q3 2018	163.8	6.8	133.8	4.4	81.7	-2.3
Q4 2018	167.8	8.4	136.6	6.0	81.4	-2.2
Q1 2019	169.8	6.9	137.7	5.2	81.1	-1.6
Q2 2019	171.9	6.0	139.2	4.6	81.0	-1.3



Owner occupied housing – Top 7*

Price growth slowing

For all the individual figures of the TOP-7 cities, go to www.vdoresearch.de

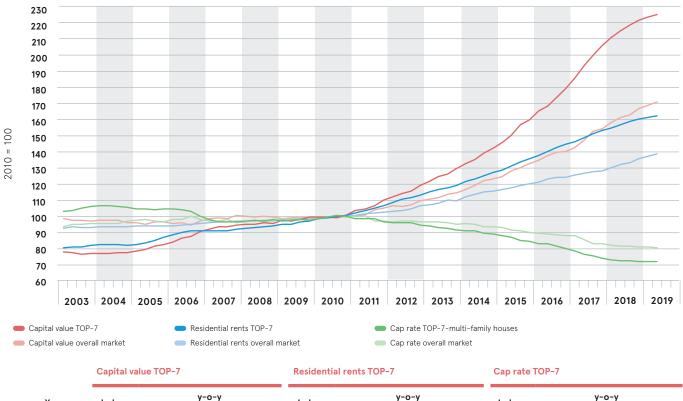
		Residential p	operties TOP-7	Owner occup	ied housing TOP-7
	Year	Index	у-о-у change in %	Index	y-o-y change in %
	2008	95.4	1.6	94.5	0.7
0	2009	97.9	2.5	96.1	1.6
	2010	100.0	2.2	100.0	4.1
	2011	106.3	6.3	105.4	5.4
= 100	2012	114.9	8.1	112.0	6.3
010	2013	124.4	8.3	118.4	5.8
Index: 2010	2014	135.3	8.7	125.9	6.3
Inde	2015	150.0	10.9	136.7	8.6
	2016	167.6	11.7	150.0	9.7
	2017	190.5	13.7	167.3	11.5
	2018	209.3	9.9	180.7	8.0

		Residential p	properties TOP-7	Owner occupied housing TOP-7			
	Quarter	Index	y-o-y change in %	Index	y-o-y change in %		
= 100	Q3 2017	194.1	14.5	169.8	12.0		
	Q4 2017	199.6	14.1	174.4	12.3		
	Q1 2018	204.3	13.1	176.8	10.4		
010	Q2 2018	207.8	10.7	179.5	9.0		
Index: 2010	Q3 2018	211.2	8.8	182.5	7.5		
Inde	Q4 2018	214.0	7.2	184.1	5.5		
	Q1 2019	215.6	5.6	185.0	4.7		
	Q2 2019	217.4	4.6	186.9	4.1		

*Berlin, Cologne, Dusseldorf, Frankfurt am Main, Hamburg, Munich, Stuttgart

Multi-family houses – Top 7*

Rental price growth easing



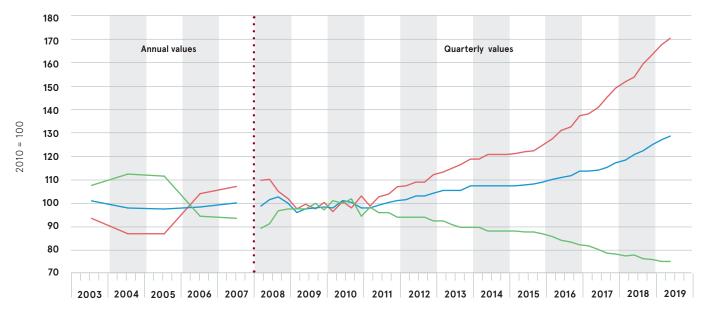
	Year	Index	y-o-y change in %	Index	y-о-у change in %	Index	y-o-y change in %
	2008	95.7	1.8	93.7	2.4	97.9	0.5
	2009	98.4	2.8	96.4	2.9	98.0	0.1
	2010	100.0	1.6	100.0	3.7	100.0	2.0
0	2011	106.6	6.6	104.9	4.9	98.4	-1.6
= 100	2012	115.8	8.6	111.4	6.2	96.2	-2.2
2010	2013	126.2	9.0	117.6	5.6	93.2	-3.1
:X: 2	2014	138.0	9.4	125.0	6.2	90.5	-2.9
Index:	2015	153.8	11.4	132.8	6.3	86.4	-4.6
	2016	172.6	12.3	142.0	6.9	82.3	-4.8
	2017	197.1	14.2	150.7	6.1	76.5	-7.1
	2018	217.6	10.4	158.4	5.1	72.8	-4.8

	Capital value 1		TOP-7	Residential rents TOP-7 Cap rate TOP-7		-7	
	Quarter	Index	y−o−y change in %	Index	y-o-y change in %	Index	y-o-y change in %
	Q3 2017	201.2	15.2	152.2	6.2	75.6	-7.8
0	Q4 2017	206.9	14.6	153.9	5.8	74.4	-7.6
= 100	Q1 2018	212.3	13.7	155.6	5.8	73.3	-7.0
2010	Q2 2018	216.0	11.2	157.5	5.2	72.9	-5.3
ex: 20	Q3 2018	219.5	9.1	159.5	4.8	72.6	-3.9
Index:	Q4 2018	222.7	7.6	161.2	4.7	72.4	-2.7
	Q1 2019	224.5	5.8	162.3	4.3	72.3	-1.4
	Q2 2019	226.3	4.7	163.2	3.6	72.1	-1.1

*Berlin, Cologne, Dusseldorf, Frankfurt am Main, Hamburg, Munich, Stuttgart

Office and administration buildings

High demand from users and investors boosts price growth



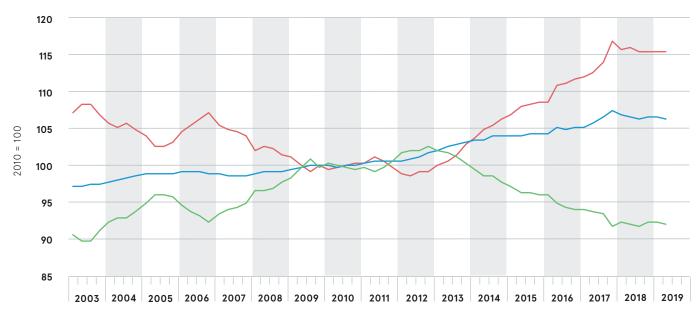
🛑 vdp office buildings capital value index 🛛 🔵 vdp office buildings rent index 💭 vdp office buildings cap rate index

		Capital value		Residential rents		Cap rate	
	Year	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-о-у change in %
	2008	107.2	-0.7	101.3	0.6	94.5	1.3
	2009	99.3	-7.3	98.1	-3.1	98.8	4.5
	2010	100.0	0.7	100.0	1.9	100.0	1.2
0	2011	103.6	3.6	100.2	0.2	96.7	-3.3
= 100	2012	109.9	6.0	103.6	3.4	94.3	-2.5
2010	2013	116.4	5.9	106.4	2.7	91.5	-3.0
ex: 2	2014	120.9	3.9	108.0	1.5	89.3	-2.3
Index:	2015	122.9	1.7	108.7	0.6	88.4	-1.1
	2016	132.4	7.7	112.1	3.2	84.7	-4.2
	2017	143.6	8.4	115.7	3.2	80.6	-4.9
	2018	157.4	9.6	122.1	5.5	77.6	-3.7

		Capital value		Residential re	Residential rents		
	Quarter	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %
	Q3 2017	145.6	9.5	115.7	3.2	79.5	-5.8
0	Q4 2017	149.3	8.3	117.9	3.1	79,0	-4.8
= 100	Q1 2018	152.1	9.7	119.1	4.1	78.3	-5.1
2010	Q2 2018	154.2	9.2	121.1	5.6	78.5	-3.3
ex: 2(Q3 2018	159.5	9.6	122.8	6.1	77.0	-3.1
Index:	Q4 2018	163.7	9.7	125.4	6.4	76.6	-3.0
	Q1 2019	167.6	10.2	127.4	7.0	76.0	-2.9
	Q2 2019	170.5	10.5	129.2	6.7	75.8	-3.4

Retail buildings

ural change in retail causes rents and prices to decline further



🛑 vdp retail buildings capital value index 🛛 🛑 vdp retail buildings rent index 💭 vdp retail buildings cap rate index

		Capital value		Residential rents		Cap rate	
	Year	Index	y-o-y change in %	Index	y−o−y change in %	Index	y-o-y change in %
	2008	102.2	-2.5	99.1	0.4	97.1	2.9
	2009	100.1	-2.0	99.9	0.7	99.7	2.7
	2010	100.0	-0.1	100.0	0.1	100.0	0.3
= 100	2011	100.6	0.6	100.5	0.5	100.0	0.0
	2012	99.0	-1.5	101.2	0.7	102.2	2.3
2010	2013	101.3	2.3	102.8	1.6	101.4	-0.8
sx: 2	2014	105.2	3.8	103.7	0.9	98.6	-2.8
Index:	2015	108.0	2.7	104.3	0.5	96.6	-2.1
	2016	110.6	2.5	105.0	0.7	94.9	-1.7
	2017	113.9	2.9	106.4	1.3	93.4	-1.6
	2018	115.8	1.7	106.7	0.3	92.1	-1.3

		Capital value		Residential re	nts	Cap rate	
	Quarter	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %
	Q3 2017	114.0	2.5	106.7	1.6	93.6	-0.9
5	Q4 2017	117.0	4.5	107.6	2.1	92.0	-2.3
=	Q1 2018	115.8	3.4	106.8	1.4	92.3	-1.9
	Q2 2018	116.1	3.1	106.8	1.0	92.0	-2.1
	Q3 2018	115.6	1.4	106.3	-0.4	91.9	-1.8
	Q4 2018	115.6	-1.2	106.7	-0.8	92.3	0.4
	Q1 2019	115.5	-0.2	106.6	-0.2	92.3	0.0
	Q2 2019	115.4	-0.6	106.4	-0.4	92.2	0.2

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.

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

Table 1: Variables from the vdp's transaction database

Variable	Scaling	Characteristics
Makrolage	Nominal	Landkreis oder kreisfreie Stadt in Deutschland
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 - 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 m ²

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 Bel-WertV). 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 weights used correspond with the percentage share of households in Germany living in their own home. For the year 2011 this share stood at 50.7%. Accordingly, 49.3% lived in a rented dwelling. The weights were derived on the basis of the building and housing census conducted by the Federal Statistical Office in 2011. The price index for owner-occupied housing is calculated as a weighted arithmetic mean of the percentage of households living in their own singlefamily house or condominium. In 2011 these shares amounted to 79.7% for single-family houses and 20.3% for condominiums.

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.

Top 7 residential properties

The top 7 residential property indices are calculated analogously to the calculation for the vdp's nationwide property price indices. The indices are estimated separately for each of the cities on the basis of the transaction database. Then, the seven individual indices of the relevant market segment are aggregated according to the respective shares to form a top 7 index. For more information, please visit the website of vdpResearch.

Base year

Starting from this edition, the base year for the indices is 2010.

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, 3. Quartal
- 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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Imprint

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The member institutions of the **Association of German Pfandbrief Banks** (Verband deutscher Pfandbriefbanken, vdp) have been the market leaders in commercial real estate finance in Germany and hold sizeable market shares in residential real estate finance as well. As the representative of its member banks, the vdp performs this function vis-à-vis all executive bodies of politics on both the national and the European stage and a wider public.

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.

Scientific editing:

vdpResearch GmbH Georgenstrasse 22, 10117 Berlin www.vdpresearch.de

vdpResearch GmbH, a subsidiary of the Association of German Pfandbrief Banks (vdp), works intensively on compiling, analyzing and forecasting property prices in the context of real estate finance. Its remit includes measuring and forecasting trends in rents and prices in the residential and commercial property sectors at the regional and national level.

To measure the movements of rents and prices, vdpResearch makes use of a unique transaction database that is also used to provide property-related comparative prices, comparative rents and other valuation parameters. These parameters are central to specially developed software solutions for valuing standard and individual properties and are fully compliant with regulations governing market and property valuation.

Today, the products and services of vdpResearch are a key component for many credit institutions in the evaluation and assessment of property and market price risks. The nationwide property price indices that vdpResearch prepares for the Association of German Pfandbrief Banks are geared to an interested public and offer an overview of general price trends in Germany's real estate markets.

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