

Prices for German properties continue to rise

Compared with the corresponding quarter the previous year:

Overall market: + 7,3 %

Housing market: + 7,4 %

Owner-occupied residential housing: + 8,1 %

Multi-family houses: + 6,8 %

TOP-7 Housing market: + 8,8 %

TOP-7 Owner-occupied residential housing: + 7,5 %

TOP-7 Multi-family houses: + 9,1 %

Commercial property market: + 6,8 %

Office properties: + 9,6 % Retail properties: +1,5 %





Prices for German properties continue to rise

Market as a whole

Price growth on the German property market continued yet again in the third quarter of 2018. The vdp property price index rose by 7.3% compared with the corresponding quarter one year earlier. The indices for housing and commercial properties, which are combined in this overall index, continued on an upward projectory, albeit with different growth rates. The starting point of the persistent rise in prices is still the favorable development in German economic activity. Due to the dampened growth in construction output and the drop in external demand for exports, growth in real gross domestic product is slightly weaker than in the previous year. Nevertheless, the German economy is stable despite the uncertainty surrounding future international developments and remains on an expansionary path. Employment has risen as a result, and unemployment has again fallen to a new low. This development goes hand in hand with a further increase in household incomes.

Housing market

Residential property prices increased once again. Compared with the third quarter of 2017, prices went up by 7.4%. This growth resulted, amongst other things, from the 6.8% rise in prices for multi-family houses, while prices for owner-occupied housing advanced by 8.1%.

Multi-family houses are the predominant type of property in urban concentrations and in towns and cities that have seen population figures surge in recent years. This is feeding a persistently high demand for living space. In consequence, new lease rentals rose once again, this time by 4.4%. The strong demand for housing makes multi-family houses attractive for investors, too, causing returns to decrease further. The index here fell by 2.3%.

Owner-occupied housing presents a similar picture, as the supply continues to lag behind demand, particularly in urban concentrations. Buyers are therefore increasingly turning to the surrounding areas, where price levels are still lower. Single-family houses went up in price by 8.7% compared with the third quarter of 2017. The growth in prices for condominiums was not quite as strong, at 6.1%.

Top 7 housing market

Prices for residential properties in the top 7 markets jumped by 8.8% compared with the third quarter of 2017. The top 7 markets therefore continued to show a more dynamic growth than the rest of Germany, although the discrepancy between the growth rates appears to be less pronounced than in previous quarters. Amongst other things, this is attributable to the fact that metropolitan areas outside the top 7 cities have also experienced sharp price hikes in the meantime, whereas there are signs that price growth is flattening in Germany's top 7 cities. Prices for owner-occupied housing in the large cities rose by 7.5%, i.e. less strongly than the average for Germany as a whole. There are scarcely any signs of easing in the rental housing market. New lease rentals rose by 4.8% compared with the

third quarter of last year. Combined with a 3.9% decline in the cap rate index, this led to an increase in prices for multi-family houses of 9.1%.

Commercial property market

In the third quarter of 2018, commercial property prices were 6.8% higher than in the corresponding period one year earlier. This increase was primarily driven by the persistently high demand for office premises, prices for which advanced by 9.6% year-on-year. Employment continues to rise, keeping demand for office space high. This demand contrasts with falling vacancy rates and a relatively low level of new construction activity. As a result, new lease rentals for office premises went up by 6.1%.

Prospects of a stable cash flow from letting commercial properties combined with a lack of alternative investments are keeping investor demand relatively stable. Returns dropped once again as a result, with the relevant index falling by 3.1%.

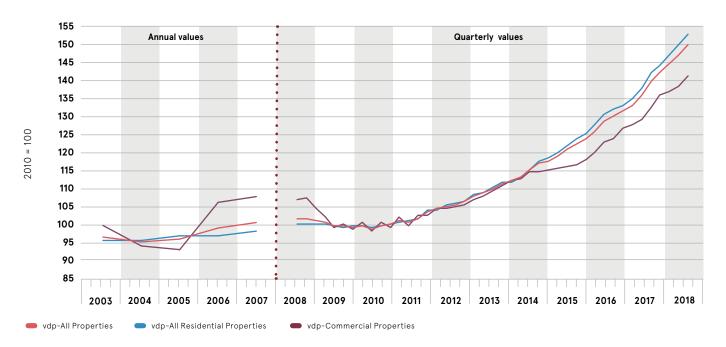
The situation in the market for retail premises is somewhat different. Prices rose only slightly, by 1.5%, compared with the third quarter one year before.

It was primarily the rental market for retail space that led to this weak result. The mounting competition from online stores is depressing demand for retail properties. Consequently, the index for new lease rentals dipped 0.4% compared with the third quarter of 2017.

Demand among investors for retail properties remains stable, so that returns were down slightly. The index in this market segment fell by 1.8%.

Real estate market as a whole

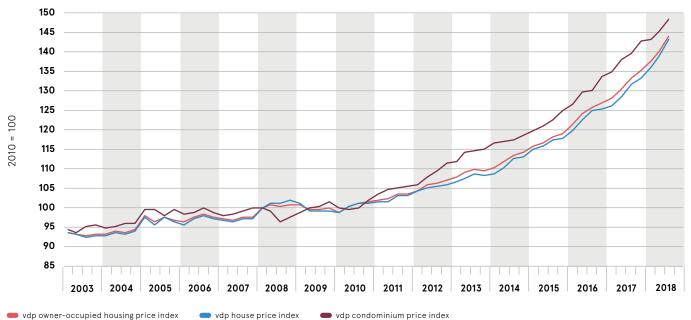
Rise in prices continues



		All properties		All residential	All residential properties		All commercial properties	
	Year	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %	
	2007	100.4	1.6	98.2	1.5	106.5	1.5	
	2008	101.4	1.1	100.2	2.0	105.2	-1.2	
	2009	99.5	-1.9	99.4	-0.8	99.7	-5.3	
00	2010	100.0	0.5	100.0	0.6	100.0	0.4	
0 = 100	2011	102.7	2.6	102.7	2.7	102.4	2.4	
Index: 2010	2012	106.4	3.7	106.7	3.8	105.5	3.0	
eX:	2013	110.7	4.1	110.9	3.9	110.4	4.6	
hul	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	
		All properties		All residential	properties	All commerci	al properties	
	Quarter	Index	y-o-y change in %	Index	y-o-y change in %r	Index	y-o-y change in %	
	Q4 2016	132.1	6.5	133.7	6.2	127.4	7.5	
00	Q1 2017	133.6	5.9	135.4	5.8	128.0	6.5	
100	Q2 2017	136.5	5.8	138.7	5.9	129.7	5.4	
Index: 2010	Q3 2017	140.6	7.5	143.1	7.7	132.9	7.0	
e X	Q4 2017	142.7	8.0	144.8	8.3	136.3	7.0	
lnd	Q1 2018	145.3	8.8	147.8	9.2	137.5	7.4	
	Q2 2018	147.9	8.3	150.8	8.7	139.0	7.1	
	Q3 2018	150.8	7.3	153.7	7.4	142.0	6.8	

Owner-occupied housing

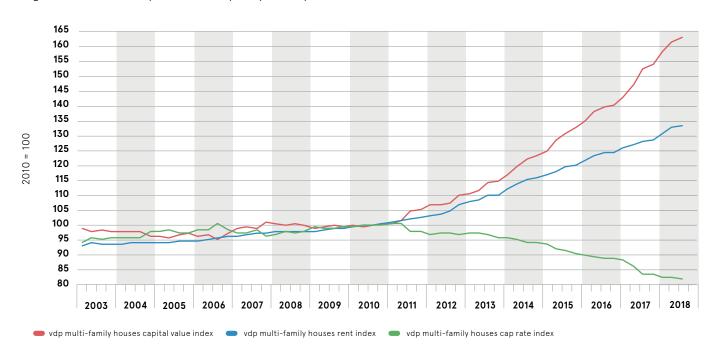
Family houses again see strongest price growth



	Owner occup	ied housing	Single family houses		Condominiun	Condominiums	
Year	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %	
2007	96.9	-0.2	96.5	-0.2	98.4	-0.2	
2008	100.0	3.3	100.6	4.3	97.9	-0.6	
2009	99.4	-0.6	99.3	-1.3	99.8	2.0	
2010	100.0	0.6	100.0	0.7	100.0	0.2	
2011	102.4	2.4	101.9	1.9	104.3	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	
	Owner occup	ied housing	Single family I	houses	Condominiun	ns	
Quarter	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %	
Q4 2016	126.6	6.6	124.9	6.5	133.3	7.1	
Q1 2017	127.6	5.5	125.9	5.3	134.4	6.5	
Q2 2017	129.9	5.1	128.0	4.8	137.6	6.4	
Q3 2017	133.0	6.0	131.4	5.6	139.3	7.4	
Q4 2017	134.9	6.6	133.0	6.4	142.6	7.0	
Q1 2018	137.1	7.4	135.7	7.8	142.9	6.3	
Q2 2018	139.7	7.5	138.4	8.1	145.0	5.3	
Q3 2018	143.8	8.1	142.8	8.7	147.8	6.1	

Multi-family houses

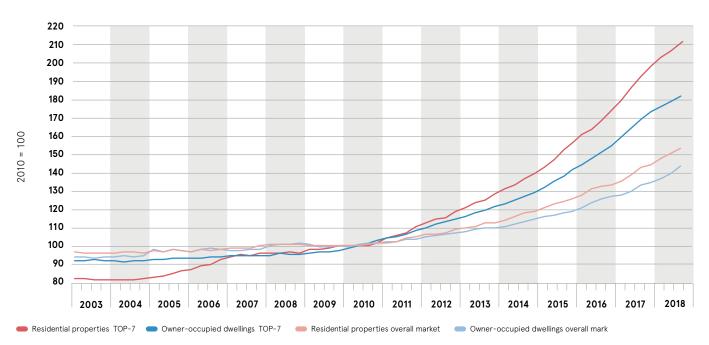
High investment activity continues to push prices up



	Capital value			Residential re	ents	Cap rate	
	Year	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %
	2007	99.6	3.4	96.9	1.6	97.3	-1.7
	2008	100.4	0.7	97.7	0.8	97.4	0.1
	2009	99.5	-0.9	98.5	0.8	99.1	1.7
0	2010	100.0	0.6	100.0	1.5	100.0	0.9
= 100	2011	103.0	3.0	102.1	2.1	99.1	-0.9
010	2012	107.9	4.8	104.8	2.7	97.1	-1.9
Index: 2010	2013	113.1	4.8	109.3	4.2	96.6	-0.5
Inde	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
		Capital value		Residential rents		Cap rate	
	Quarter	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %
	Q4 2016	140.9	5.8	124.7	3.5	88.5	-2.2
0	Q1 2017	143.3	6.0	126.5	3.8	88.3	-2.0
= 100	Q2 2017	147.8	6.6	127.2	2.9	86.1	-3.5
010	Q3 2017	153.4	9.3	128.2	2.9	83.6	-5.8
Index: 2010 =	Q4 2017	154.9	9.9	128.8	3.3	83.2	-6.0
Inde	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

Owner-occupied housing Top 7*

Momentum slows down slightly



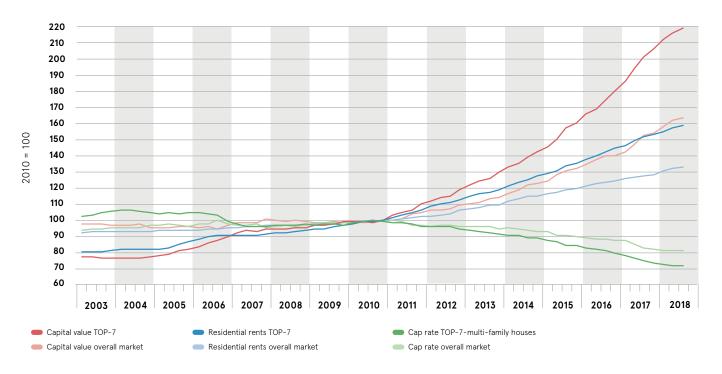
		Residential p	roperties TOP-7	Owner occupi	ed housing TOP-7
	Year	Index	y-o-y change in %	Index	y-o-y change in %
	2007	94.0	5.9	93.9	1.2
	2008	95.4	1.6	94.5	0.7
	2009	97.9	2.5	96.1	1.6
0	2010	100.0	2.2	100.0	4.1
= 100	2011	106.3	6.3	105.4	5.4
	2012	114.9	8.1	112.0	6.3
Index: 2010	2013	124.4	8.3	118.4	5.8
Inde	2014	135.3	8.7	125.9	6.3
	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

		Residential p	roperties TOP-7	Owner occupied housing TOP-7			
	Quarter	Index	y-o-y change in %	Index	y-o-y change in %		
	Q4 2016	174.9	11.9	155.4	9.9		
0	Q1 2017	180.7	12.0	160.1	10.7		
= 100	Q2 2017	187.7	14.0	164.8	11.0		
2010	Q3 2017	194.1	14.5	169.8	12.0		
x: 2	Q4 2017	199.6	14.1	174.4	12.3		
Index:	Q1 2018	204.3	13.1	176.8	10.4		
	Q2 2018	207.8	10.7	179.5	9.0		
	Q3 2018	211.2	8.8	182.5	7.5		

^{*}Berlin, Hamburg, Frankfurt am Main, Munich, Stuttgart, Dusseldorf, Cologne

Multi-family houses Top 7*

Top 7 markets remain the main focus of investor interest



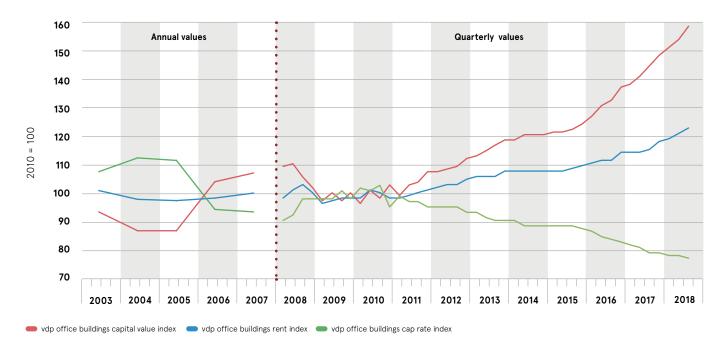
		Capital value TOP-7		Residential re	Residential rents TOP-7		-7
	Year	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %
	2007	94.0	7.4	91.5	1.1	97.4	-5.8
= 100	2008	95.7	1.8	93.7	2.4	97.9	0.5
	2009	98.4	2.8	96.4	2.9	98.0	0.1
	2010	100.0	1.6	100.0	3.7	100.0	2.0
	2011	106.6	6.6	104.9	4.9	98.4	-1.6
2010	2012	115.8	8.6	111.4	6.2	96.2	-2.2
ж: 2	2013	126.2	9.0	117.6	5.6	93.2	-3.1
Index:	2014	138.0	9.4	125.0	6.2	90.5	-2.9
	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

		Kapitalwert	TOP-7	Neuvertragsmieten TOP-7		Liegenschaftszinssatz TOP-7	
	Quartal	Index	Veränderung in % gegenüber Vorjahr	Index	Veränderung in % gegenüber Vorjahr	Index	Veränderung in % gegenüber Vorjahr
	Q4 2016	180.5	12.4	145.4	6.7	80.5	-5.1
0	Q1 2017	186.6	12.3	147.1	6.1	78.8	-5.5
= 100	Q2 2017	194.3	14.7	149.7	6.3	77.0	-7.4
2010	Q3 2017	201.2	15.2	152.2	6.2	75.6	-7.8
	Q4 2017	206.9	14.6	153.9	5.8	74.4	-7.6
Index:	Q1 2018	212.3	13.7	155.6	5.8	73.3	-7.0
	Q2 2018	216.0	11.2	157.5	5.2	72.9	-5.3
	Q3 2018	219.5	9.1	159.5	4.8	72.6	-3.9

^{*}Berlin, Hamburg, Frankfurt am Main, Munich, Stuttgart, Dusseldorf, Cologne

Office and administration buildings

Strong demand spurs further rise in office property prices



		Capital value		Residential re	nts	Cap rate	
	Year	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %
	2007	107.9	2.9	100.7	1.8	93.3	-1.0
	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
0	2010	100.0	0.7	100.0	1.9	100.0	1.2
Index: 2010 = 100	2011	103.6	3.6	100.2	0.2	96.7	-3.3
010	2012	109.9	6.0	103.6	3.4	94.3	-2.5
×: 5	2013	116.4	5.9	106.4	2.7	91.5	-3.0
Inde	2014	120.9	3.9	108.0	1.5	89.3	-2.3
	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
		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 %
	Q4 2016	137.8	10.1	114.3	4.3	83.0	-5.3
_	Q1 2017	138.6	8.4	114.4	3.4	82.5	-4.6
10	Q2 2017	141.2	7.5	114.7	3.0	81.2	-4.2
010	Q3 2017	145.6	9.5	115.7	3.2	79.5	-5.8
x: 20	Q4 2017	149.3	8.3	117.9	3.1	79.0	-4.8
Index: 2010 = 100	Q1 2018	152.1	9.7	119.1	4.1	78.3	-5.1
						70.5	
	Q2 2018	154.2	9.2	121.1	5.6	78.5	-3.3

Retail buildings

Growth in rents weakens slightly



	Capital value		Residential re	Residential rents		Cap rate		
Year	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %		
2007	104.8	-1.1	98.8	-0.3	94.3	0.7		
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		
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		
2013	101.3	2.3	102.8	1.6	101.4	-0.8		
2014	105.2	3.8	103.7	0.9	98.6	-2.8		
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		
	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 %		
04 2016	1110	7 1	105.4	0.8	O/I 1	-2.2		

	Quarter	Index	y-o-y change in %	Index	y-o-y change in %	Index	y-o-y change in %
2010 = 100	Q4 2016	111.9	3.1	105.4	0.8	94.1	-2.2
	Q1 2017	112.0	3.2	105.4	0.8	94.1	-2.3
	Q2 2017	112.5	1.5	105.7	0.6	94.0	-1.0
	Q3 2017	114.0	2.5	106.7	1.6	93.6	-0.9
×: 2	Q4 2017	117.0	4.5	107.6	2.1	92.0	-2.3
Index:	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	1.5	106.3	-0.4	91.9	-1.8

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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Editor:

Verband deutscher Pfandbriefbanken e V. (vdp) Georgenstrasse 21, 10117 Berlin www.pfandbrief.de

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.

Contacts:



Dr. Franz EilersHead of Real Estate Research
Tel.: +49 (0)30 206229-16
eilers@vdpresearch.de



Andreas Kunert Indices Project Manager Tel.: +49 (0)30 206229-17 kunert@vdpresearch.de

