

Housing market developments – 1st quarter 2023

House prices decreased the most in the municipality of Haarlem

Average house prices decreased the most in the province of Utrecht with -5.1% year on year. The municipality of Haarlem is currently registering the lowest price development of all the municipalities in the Netherlands with -8.4%. The largest cities, Amsterdam and Rotterdam, show average house price decreases of respectively -3.8% and -2.3%. The Hague shows an average house price decrease of -3.7%.

Transactions decreased and number of homes for sale decreased

The annual number of sales decreased to 230.000 houses. The number of homes for sale also decreased. The ratio between the number of sales and supply has reached a factor 0.3 (sales > supply).

Housing affordability declined

On average, 23.2% of net household income was required to service housing costs, in 2008 the housing affordability peaked with 27.0%. The relatively good affordability in the last years was mainly the result of the low mortgage interest.

Content WOX:

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CALCASA INDEXES 2023 Q1

CAECASA INDEXES 2023 QT	
Calcasa House Price Index (WOX) (1995Q1=100)	448
Calcasa WOX Top 15 Cities Index (1995Q1=100)	513
Residential price change	
WOX price change (year-on-year)	-1.9%
WOX price change (quarter-on-quarter)	-1.9%
WOX price change corrected for inflation (year-on-year)	-8.6%
House price forecast	
Yearly price change 2023 Q2	-7.3%
Quarterly price change 2023 Q2	-2.9%
Housing affordability	
	23.2%
Yearly change in housing affordability	-52.1%
Quarterly change in housing affordability	-1.9%
Transactions	
Number of transactions on a yearly basis (x 1,000)	230
Yearly change in the number of transactions	-7.5%
Quarterly change in the number of transactions	-2.7%
*Housing stock January 1st 2022 municipal reclassification 2021	

Table 1

Calcasa key numbers Q1 2023 Source: WOX Monitor Calcasa



Average house prices

- The WOX (1995 = 100) currently stands at 448 points.
- Average house price: € 439.000.
 - » Q-O-Q price development: -1.9%.
 - » Y-O-Y price development: -1.9%.
- The current Dutch inflation rate is 6.7% (which is the average rate for Q1 2023 according to Statistics Netherlands). In the first quarter of 2023, inflation-adjusted house prices decreased by -8,6% y-o-y.

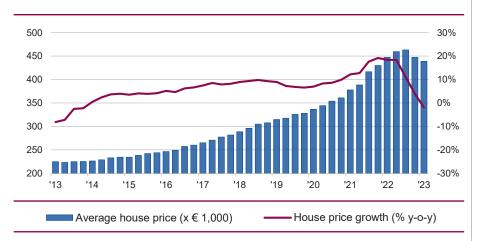


Figure 1

Average house price (x EUR1,000) and yearly price change per quarter in the Netherlands. Source: WOX Monitor Calcasa

- Average price of a single-family house: € 465.000.
 - » Q-O-Q price development of single-family houses: -1.9%.
 - » Y-O-Y price development of single-family houses: -1.4%.
- Average price for apartments: € 371.000.
 - » Q-O-Q price development of apartments: -1.9%.
 - » Y-O-Y price development of apartments: -3.6%.



Figure 2

Q-O-Q price change per housing type in the Netherlands. Source: WOX Monitor Calcasa



Highest decrease in price class less than € 150,000

- Based on house price levels, Calcasa has divided the market into five price • classes. Homes in the price class less than € 150,000 performed worst with an annual average house price decrease of -5.0%.
- The price class € 150,000 to € 250,000 decreased the least in value; over the past year these homes decreased in value by -1,9%.

Price class (euro)	Price development y-o-y
Less than 150,000	-5.0%
150,000 to 250,000	-1.9%
250,000 to 350,000	-2.0%
350,000 to 500,000	-1.9%
More than 500,000	-1.9%
All residential properties	-1.9%

(Semi-) detached houses show biggest price increase

- (Semi-) detached houses built after 2000 are registering the fastest growth. Their value increased by 1.8% in the past year.
- Apartments built before 1944 are registering price а decline. Their value decreased by 5.9% in the past year.

	-	•			
Housing type	<1944	1945-1979	>1980	>2000	Total
(semi) detached	-2.4%	-1.9%	-1.2%	1.8%	-1.3%
Terraced/corner house	-4.0%	-1.6%	-0.9%	0.6%	-1.5%
Apartment	-5.9%	-4.9%	-1.9%	0.3%	-3.6%
Total	-4.5%	-2.8%	-1.3%	0.7%	-1.9%

Development (y-o-y) Construction year

Forecast house price development in Q2 2023

- Q-O-Q price change: -2.9% (Q2 2023 Q1 2023). •
- Y-O-Y price change: -7.3% (Q2 2023 Q2 2022).
 - Y-O-Y price change single-family homes: -6.1%. »
 - Y-O-Y price change apartments: -9.7%.

Calcasa publishes region-specific house price forecasts for four specific areas of the Netherlands, reflecting the diversity and variety displayed across the region.

Western part: -9.2%

- Northern part: -7.0%
- Eastern part : -5.2%
- Southern part: -3.7%

Table 2a

Netherlands - price development per price class and transaction distribution over the last year.

Source: Calcasa

Table 2b

Netherlands - annual price development per construction year and housing type. Source: Calcasa



Strong house price growth in Overijssel

- Average house prices decreased the most in the province of Utrecht, with an annual decrease of 5.1% in value.
- Apartments in Utrecht fell sharply in value, with a value decrease of 6.7%. Single-family houses prices decreased with 4.7%.
- The biggest price increase was measured for houses in the provinces of Overijssel (1.8%) and Zeeland (1.0%).

	Average price	Average price	Price change
Q1 2023	single-family	apartments	(year-on-year)
	houses		
Groningen	343,000	286,000	-3.9%
Friesland	368,000	314,000	-1.8%
Drenthe	388,000	282,000	0.1%
Overijssel	403,000	374,000	1.8%
Flevoland	331,000	258,000	-0.4%
Gelderland	466,000	325,000	-0.5%
Utrecht	622,000	395,000	-5.1%
North-Holland	580,000	503,000	-4.8%
South-Holland	510,000	347,000	-2.0%
Zeeland	331,000	313,000	1.0%
North-Brabant	470,000	332,000	0.5%
Limburg	343,000	265,000	0.8%
The Netherlands	465,000	371,000	-1.9%

Table 3

Average price and y-o-y price development on province level Source: WOX Monitor Calcasa

House prices 8% lower in the Haarlem region

- The largest annual price decrease of 8.1% is measured for houses in the NUTS III region of Haarlem. The average house price in this region is € 640,000.
- Second-largest annual price decrease is seen in the NUTS III region Gooi en Vechtstreek with a price decrease of 6.1%, here single-family homes fell in value by 6.3% and the value of apartments by 5.5%.
- The NUTS III regions with the largest price increases are Twente (2.6%) and Noord-Limburg (2.3%).
- In 16 of the 40 NUTS III regions the annual increase for houses prices is more than 0%.



Housing affordability

On average, 23.2% of net household income was required to service housing costs in the first quarter of 2023, compared to mid-2008 when housing costs represented 27.0% of net income.

- Q-O-Q change in net housing costs: 1.9%.
- Y-O-Y change in net housing costs: 52.1%.



Figure 3

Housing affordability index* (in % of household income) in the Netherlands. Source: WOX Monitor Calcasa

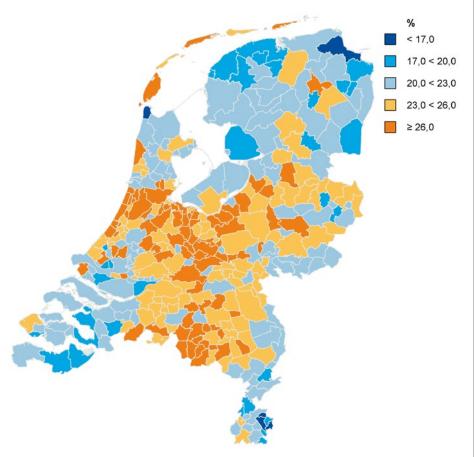


Figure 4

Affordability index per municipality (in %). Source: WOX Monitor Calcasa

*The index measures the affordability of Dutch owner-occupied houses. It is calculated taking into account net housing costs, current average mortgage costs (current interest rate, maintenance costs, local taxes and fiscal treatment.



Number of sales

The annual number of transactions has decreased. 230.000 residential properties were sold during the past year.

- Y-O-Y development, number of annual sales: -7.5%.
- Q-O-Q development, number of annual sales: -2.7%.



Yearly number of transactions ——Quarterly change number of transactions

Number of sales by housing type

- Transactions of detached houses decreased the most with 12.4% in the first quarter of 2023.
- Apartment sales decreased this quarter with 10.6% year-on-year.

Transaction development y-o-y 2023Q1 Housing type 2022Q1 2022Q2 2022Q3 2022Q4 Detached -21.7% -22.9% -24.1% -16.1% -12.4% Semi-detached -23.8% -20.8% -15.2% -5.3% -23.1% -14.2% Corner house -20.2% -21.4% -19.3% -4.5% Terraced house -21.6% -22.3% -18.7% -13.2% -3.6% -17.1% Apartment -14.3% -18.3% -9.5% -10.6% Total -19.7% -21.1% -20.0% -13.2% -7.5%

Figure 5

Number of annual sales* and y-o-y change in number of sales in the Netherlands. Source: Statistics Netherlands, I and Registry, adaptation by Calcasa

* Calcasa shows the number of housing sales on an annual basis for a reliable picture of the long term trend (corrected for seasonal effects).

Table 4

Y-o-y transaction development by period and property type Source: WOX Monitor Calcasa

6



Sales in expensive price class increased

- The sale of homes in the price range € 350,000 to € 500,000 increased by 13.5% in the past year, whilst homes above € 500.000 increased by 19.9%.
- Especially in the east (23.7%) and in the north (25.5%) of the Netherlands more expensive homes (> € 500,000) were sold.
- In the south the highest increase in sales was measured for houses in the price range above € 500,000 (23.7%).
- The lowest price segment (€ 75,000 to € 150,000) decreased in the western part of the Netherlands by 41.0%.

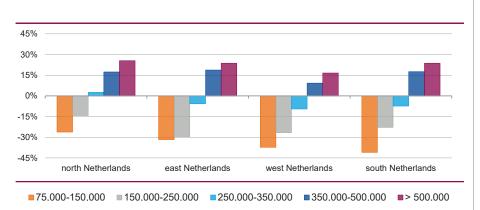


Figure 6

Growth (%) of share of housing sales per price class in North, East, West and South Netherlands in Q1 2023 compared to Q1 2022.

Source: WOX Monitor Calcasa

30% of housing sales within € 350,000 to € 500,000

- In the past year 14% of housing sales were within the price class of € 150,000 to € 250,000.
- The percentage of transactions in the price class € 75,000 to 150,000 decreased in four years time from 12% to 3%.
- The price segment € 350,000 to € 500,000 increased in four years time from 15% to 30%.
- 27% of housing sales were within the price class of € 500,000 or more. Four years ago this was 10%.



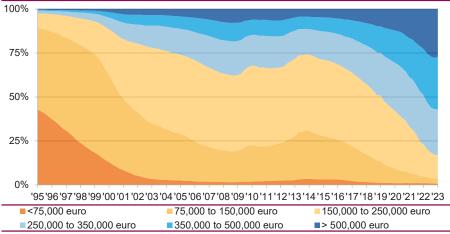


Figure 7

Share of housing sales per price class Source: WOX Monitor Calcasa



Groot-Amsterdam highest market liquidity

- In the NUTS III region Groot-Amsterdam 6.0% of the housing supply was sold during the past year. The regions Zeeuwsch-Vlaanderen and The Hague follow with 5.5% and 5.5% respectively.
- The NUTS III region Delfzijl has the lowest market liquidity: 4.3%.

	Percentage of housing supply		Percentage of housing supply
NUTS III region	sold last year	NUTS III region	sold last year
Groot-Amsterdam	6.0%	Delfzijl en omgeving	4.3%
Agglomeratie 's-Gravenhage	5.5%	Noord-Limburg	4.3%
Zeeuwsch-Vlaanderen	5.5%	Twente	4.4%
Overig Groningen	5.4%	Delft en Westland	4.4%
Zuidoost-Drenthe	5.4%	Noord-Drenthe	4.5%
Groot-Rijnmond	5.4%	Achterhoek	4.5%
Flevoland	5.4%	IJmond	4.5%
Oost-Groningen	5.3%	Noordoost-Noord- Brabant	4.5%
Agglomeratie Haarlem	5.3%	Zuidoost-Friesland	4.6%
Veluwe	5.2%	Alkmaar en omgeving	4.6%

Table 5

Top 10 NUTS III regions with highest and lowest percentage of housing supply sold last year

Source: WOX Monitor Calcasa

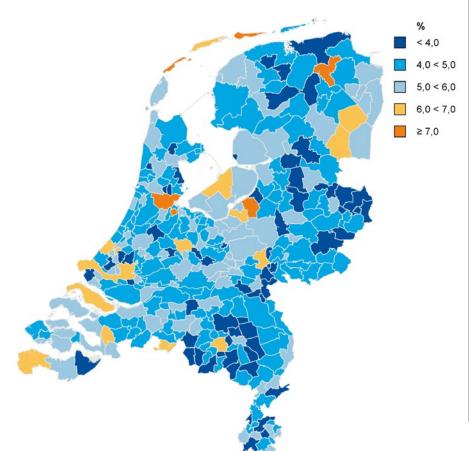


Figure 8

Market liquidity: sold homes as percentage of total number of owner occupied housing stock for previous year per municipality Source: WOX Monitor Calcasa



Market liquidity: number of sales surpassed supply

- The annual ratio of houses for sale vs. sold has increased to 0.3. A year ago this ratio was 0.3.
- The annual number of houses sold: 230,000. » Y-O-Y development: -7.5%
- Homes for sale in Q1 2023: 58,000
 - » Y-O-Y development: -10.8%
- The market liquidity is best in the municipality of Urk with a factor of 0.07.
- In the municipality of Wassenaar the market liquidity is highest (worst) with a factor of 0.53.





- The relationship between the supply of owner-occupied housing and total owner-occupied housing stock is also a component of market liquidity. The percentage of the total owner-occupied housing stock that sold last year is 5.0% for the Netherlands.
 - o The percentage of family homes sold previous year: 5.3%.
 - o The percentage of apartments sold previous year: 4.5%.
- The share of owner occupied housing stock which was sold last year is highest in the city of Amsterdam with 7.9%.
- In the municipality of Dantumadiel only 2.7% of the existing stock of owner-occupied homes has changed owners.



Annual number of properties for sale versus number of properties sold in the Netherlands. Source: Multiple real estate agents, adaptation Calcasa

Figure 9b

Annual number of properties for sale versus number of properties sold in the Randstad. Source: Multiple real estate agents, adaptation Calcasa



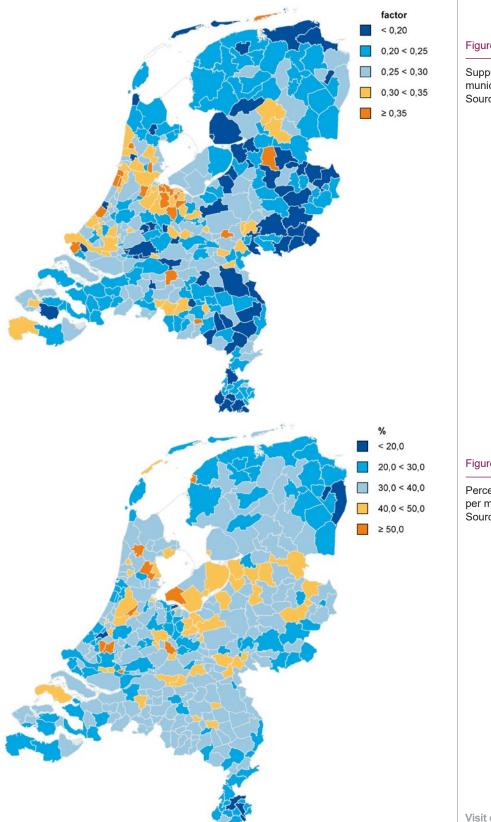


Figure 10

Supply/Sales ratio all properties per municipality Source: WOX Monitor Calcasa

Figure 11

Percentage of properties with energy label A per municipality Source: WOX Monitor Calcasa



Mortgage approvals

Approximately 417,000 mortgages were approved last year.

- Y-O-Y development, number of annual mortgages: -17.2%.
- Q-O-Q development, number of annual mortgages: -9.6%.



Figure 12

Number of mortgages

Source: Statistics Netherlands, Land Registry and adaptation Calcasa

Number of foreclosures

Over the last four quarters, 212 foreclosures have been registered by the land registry.

- o Y-O-Y development amount of annual foreclosures: -19.1%.
- o Q-O-Q development amount of annual foreclosures: -3.6%.
- The share of foreclosure sales versus total sales is 0.1%.
- The highest share of foreclosure sales to total sales is 1.2% in the municipality of Goes.
- 235 municipalities had no foreclosure sales in the past year. The largest municipality without foreclosure sales is Groningen.

Note that many foreclosed properties will be sold via the public market and not via auction. The reason is that proceeds of a sale of a home through a forced auction can be less compared to a sale via the public market.

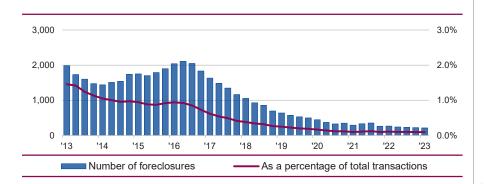


Figure 13

Number of yearly foreclosures and amount of foreclosures as a % of the total number of transactions in the Netherlands. Source: Statistics Netherlands, Land Registry and adaptation Calcasa



Average price newly built homes increased

- In the fourth quarter of 2022 the total amount of sales for newly built homes was 5.300. This is a decrease of 44.5% year-on-year.
- During the fourth quarter of 2022 the average price for newly built houses was € 468.000. This is an decrease of 1.3% compared to a year ago.

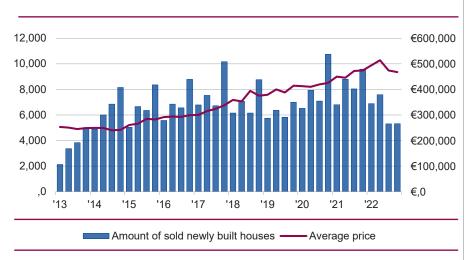
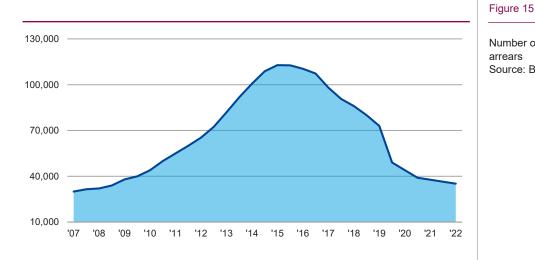


Figure 14

Average sales price for newly built houses per quarter in the Netherlands compared to the quarterly amount of newly built houses sold. Source: CBS

Amount of households in arrears decreased

- Since 2015 the number of homeowners with payment problems decreased with 69%.
- At the beginning of 2022 there were 35.000 homeowners who had difficulty paying their mortgage: this is a decrease of 6.8% compared to a year earlier.



Number of borrowers with mortgage payment arrears Source: BKR

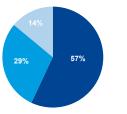


Dutch Housing Market Summary

Largest cities	All Droperties	Single-family	Apartments	Owner occupies	Rental	Total population	Total households	Annual sales	Current supply
Amsterdam	458,000	61,000	397,000	29%	71%	882,630	484,570	10,477	
Rotterdam	319,000	87,000	232,000	34%	65%	655,470	333,060	7,022	
The Hague	268,000	60,000	208,000	41%	58%	553,420	274,660	6,613	
Utrecht	162,000	70,000	93,000	44%	55%	361,700	183,460	4,802	
Groningen	121,000	49,000	72,000	40%	60%	234,950	138,500	3,375	
Eindhoven	116,000	69,000	47,000	44%	56%	238,330	123,760	3,296	
Provinces									
Groningen	288,000	189,000	99,000	54%	46%	590,170	299,200	8,274	1,793
Friesland	307,000	248,000	58,000	62%	38%	654,020	298,710	9,222	1,943
Drenthe	226,000	186,000	40,000	66%	34%	497,740	222,160	7,327	1,769
Overijssel	519,000	395,000	123,000	61%	39%	1,171,910	516,960	14,636	3,150
Flevoland	178,000	139,000	39,000	65%	35%	434,770	183,150	6,173	1,573
Gelderland	932,000	698,000	234,000	61%	39%	2,110,470	948,460	27,841	6,705
Utrecht	601,000	377,000	224,000	58%	42%	1,369,870	619,990	17,914	4,669
North-Holland	1,377,000	689,000	688,000	50%	50%	2,909,830	1,400,580	37,158	10,805
South-Holland	1,724,000	845,000	879,000	52%	48%	3,753,940	1,751,090	45,886	12,993
Zeeland	189,000	153,000	36,000	67%	32%	386,770	178,650	6,522	1,599
North-Brabant	1,164,000	872,000	293,000	61%	39%	2,592,870	1,181,240	34,392	8,355
Limburg	540,000	395,000	146,000	60%	39%	1,118,300	538,400	14,906	3,121
Netherlands	8,046,000	5,188,000	2,858,000	57%	43%	17,590,670	8,138,590	230,251	58,475
Housing stoc	k			Y-0	D-Y price de	velopment la	rgest cities		

Table 6

Key figures for the Dutch housing market Source: Statistics Netherlands, Land Registry



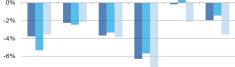


Change

39.2%

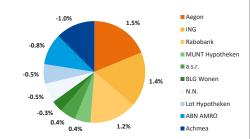
50.0%





-8% Amsterdam Rotterdam The Hague Utrecht Eindhoven Netherlands

Top mortgage lenders: increase/decrease market share





Figures 16 & 17

Table 7 & Figure 18

Source table left: Statistics Netherlands, NHG, BKR, Land Registry Source figure right: Calcasa, IG&H

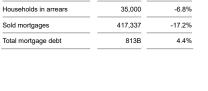
Source figure left: Statistics Netherlands

Source figure right: Calcasa

Figures 19 & 20

Source figure left: DNB, Statistics Netherlands Source figure right: Calcasa, Statistics Netherlands

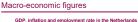
Visit calcasa.co.uk for more information



Amount

16,700

3



Mortgage developments

Execution sales with losses

Sales with NHG







	Highest		Lowest
	property values		property values
Municipalities	(x 1,000)	Municipalities	(x 1,000)
Bloemendaal	1,186	Heerlen	258
Wassenaar	932	Kerkrade	261
Heemstede	877	Brunssum	262
Gooise Meren	747	Eemsdelta	267
De Bilt	723	Oldambt	270
Wijdemeren	691	Veendam	280
Zeist	676	Terneuzen	281
Bergen (NH.)	670	Leeuwarden	287
Utrechtse Heuvelrug	663	Landgraaf	292
Huizen	643	Den Helder	293

Table 8

Top 10 highest and lowest property values, per municipality containing over 5,000 owner-occupied dwellings. Source: Calcasa

	Highest		Lowest
	annual price		annual price
Municipalities	development	Municipalities	development
Tubbergen	3.2%	Haarlem	-8.4%
Dinkelland	3.0%	Heemstede	-7.8%
Losser	2.9%	Bloemendaal	-6.7%
Twenterand	2.9%	Groningen	-6.3%
Wierden	2.8%	Utrecht	-6.3%
Almelo	2.8%	Hilversum	-6.2%
Rijssen-Holten	2.8%	Gooise Meren	-6.2%
Peel en Maas	2.8%	Huizen	-6.1%
Gennep	2.7%	Zandvoort	-6.1%
Hof van Twente	2.7%	Wijdemeren	-6.0%

Table 9

Top 10 highest and lowest price developments, per municipality with over 5,000 owner-occupied dwellings. Source: Calcasa



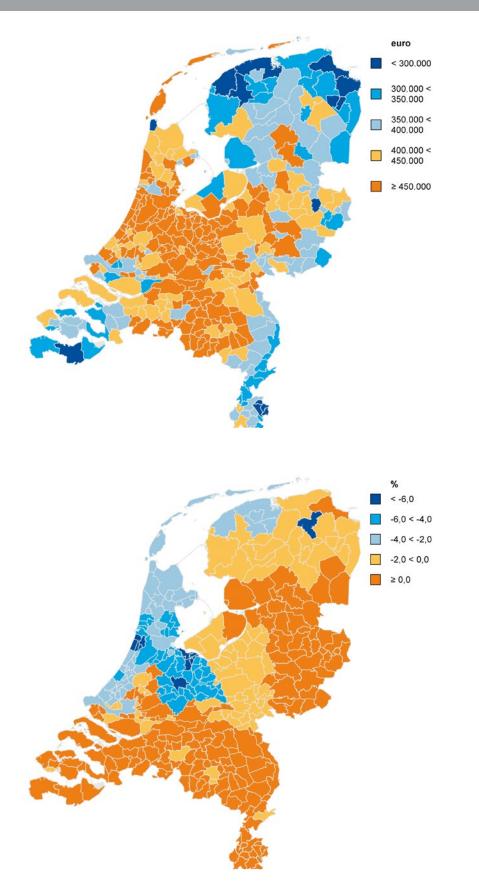


Figure 21

Average house price per municipality (EUR). Source: Calcasa

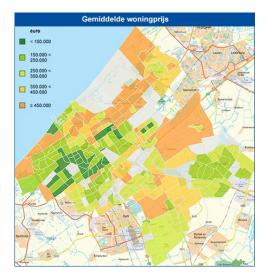
Figure 22

Year-on-year price change per municipality (%). Source: Calcasa



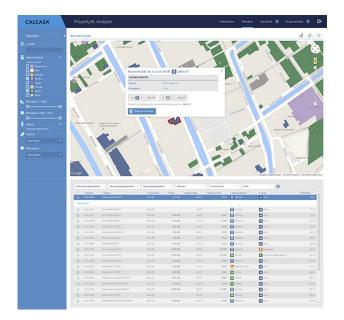
The WOX Monitor: All housing market data for every neighborhood

More information on price developments in various regional levels (neighborhood, municipality, province) is available via the WOX monitor.



Calcasa PropertyNL Analyzer

Analyzing the commercial real estate market is possible through the Calcasa PropertyNL Analyzer ("CPA"). CPA is an online application with information that is easily accessible for the office, retail and industrial markets. This tool increases the transparency in the property market.





About Calcasa

Calcasa is an independent technology company specializing in the statistical analysis and valuation of real estate. The Calcasa Automated Valuation Model (AVM) for valuation of individual homes is unique due to its high coverage and accuracy. It is internationally recognized by the three major rating agencies and regulators. Mortgage lenders, investors, intermediaries, validation institutes, housing corporations, consumer organizations, real estate companies, broker organizations, government agencies and regulators rely daily on the solutions Calcasa. www.calcasa.co.uk

Calcasa WOX: A reliable house price index

Calcasa WOX is demonstrably the most reliable house price index in the Netherlands. Every quarter, Calcasa calculates a reliable house price index for each province, municipality, borough and neighborhood in the Netherlands. The house price index is calculated using the national data on transactions starting from 1993 and additional house and location characteristics from the database. The source data is screened for integrity, such that non-representative data is omitted for the index calculation. The developed methodology takes into account any over or under representation of sold properties, compared to the existing housing stock in that area. Unlike most house price indices, the Calcasa WOX does not simply calculate the coincidental development of sales for a specific area; rather it calculates the development of prices of the total housing stock.

European AVM Alliance (EAA)

Calcasa is a founding member of the EEA which was launched as a pan-European initiative at the end of 2012. The mission is to promote and standardize the usage of AVM's resulting in a consistent approach to automated valuations in Europe. Other members include Hometrack (UK), Eiendomsverdi (Norway), Värderingsdata (Sweden), CRIF (Italy), Tinsa (Spain), On-Geo (Germany) and On-Geo (Austria).

Calcasa

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