

Housing market developments – 2nd quarter 2021

Strong house price growth in the province of Groningen

Average house prices increased the most in the province of Groningen with 16.2% year on year. The municipality of Veendam is currently registering the fastest growth rate of all the municipalities in the Netherlands with 17.0%. The largest cities, Amsterdam and Rotterdam, show average house price increases of respectively 9.4% and 12.4%. The Hague and Utrecht show an average house price increase of resp. 13.1% and 13.0%.

Transactions remain stable and number of homes for sale drops

The annual number of sales increased in seven years from 150 thousand to 308 thousand houses. The number of homes for sale continues to decline. The ratio between the number of sales and supply has reached a factor 0.1 (sales > supply).

Housing affordability improves

On average, 13.5% of net household income was required to service housing costs, in 2008 the housing affordability peaked with 27.0%. The relatively good affordability is mainly the result of the current low mortgage interest.

CALCASA INDEXES 2021 Q2

Calcasa House Price Index (WOX) (1995Q1=100)	397
Calcasa WOX Top 15 Cities Index (1995Q1=100)	462

Residential price change

WOX price change (year-on-year)	12.7%
WOX price change (quarter-on-quarter)	2.8%
WOX price change corrected for inflation (year-on-year)	10.7%

House price forecast

Yearly price change 2021 Q3	12.9%
Quarterly price change 2021 Q3	3.1%

Housing affordability

Affordability index	13.5%
Yearly change in housing affordability	-3.1%
Quarterly change in housing affordability	2.9%

Transactions

Number of transactions on a yearly basis (x 1,000)	308
Yearly change in the number of transactions	11.9%
Quarterly change in the number of transactions	-0.9%

*Housing stock January 1st, 2021, municipal reclassification 2020

Content WOX:

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Table 1

Calcasa key numbers Q2 2021
Source: WOX Monitor Calcasa

Average house price keeps rising

- The WOX (1995 = 100) currently stands at 397 points.
- Average house price: 389 thousand euro.
 - » Q-O-Q price development: +2.8%.
 - » Y-O-Y price development: +12.7%.
- The current Dutch inflation rate is 2.0% (which is the average rate for Q2 2021 according to Statistics Netherlands). In the seconde quarter of 2021, inflation-adjusted house prices rose by 10.7% y-o-y.

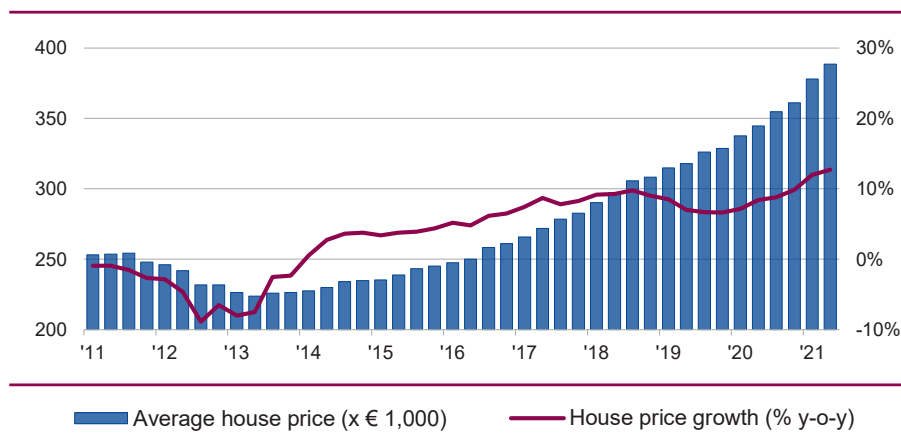


Figure 1

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: 406 thousand euro.
 - » Q-O-Q price development of single-family houses: +2.8%.
 - » Y-O-Y price development of single-family houses: +12.8%.
- Average price for apartments: 342 thousand euro.
 - » Q-O-Q price development of apartments: +2.9%.
 - » Y-O-Y price development of apartments: +12.3%.

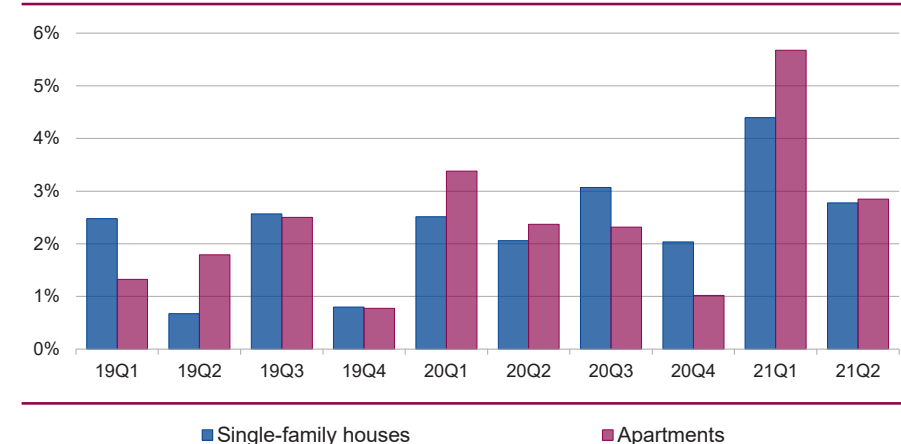


Figure 2

Q-O-Q price change per housing type in the Netherlands.

Source: WOX Monitor Calcasa

Highest price increase for less than 150,000 euro class

- Based on house price levels, Calcasa has divided the market into five price classes. Homes in the price class less than 150 thousand euros performed best with an annual average house price rise of 15.7%.
- The more expensive houses - worth 350k to 500k - increased the least in value; over the past year these homes increased in value by 11.1%.

Price class (euro)	Price development y-o-y
Less than 150,000	15.7%
150,000 to 250,000	15.2%
250,000 to 350,000	12.9%
350,000 to 500,000	11.1%
More than 500,000	11.4%
All residential properties	12.7%

Apartments (1945-1979) show biggest price increase

- The value of terraced/corner houses saw the biggest price growth in the past year; their average price rose by 12.9%.
- Apartments built between 1945 and 1979 are registering the fastest growth. Their value increased by 14.7% in the past year.

Development (y-o-y)	Construction year				Total
	<1944	1945-1979	>1980	>2000	
(semi) detached	13.4%	13.2%	12.5%	11.0%	12.7%
Terraced/corner house	13.6%	13.2%	12.7%	11.7%	12.9%
Apartment	11.3%	14.7%	12.8%	10.4%	12.3%
Total	12.5%	13.7%	12.7%	11.0%	12.7%

Forecast house price development in Q3 2021

- Q-O-Q price change: 3.1%.
- Y-O-Y price change: 12.9% (Q3 2020 - Q3 2021).
 - » Y-O-Y price change single-family homes: 13.7%.
 - » Y-O-Y price change apartments: 10.6%.

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: 12.5%
- Eastern part: 12.9%
- Northern part: 14.7%
- Southern part: 13.5%

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 Groningen

- Average house prices increased the most in the province of Groningen, with an annual increase of 16.2% in value.
- Apartments in Drenthe and Gelderland are in demand, with values going up by 16.6% and 16.4% respectively.
- The lowest price increase was measured for houses in the provinces of North-Brabant (11.0%) and Limburg (11.7%).

Q2 2021	Average price	Average price	Price change
	single-family houses	apartments	(year-on-year)
Groningen	291,000	276,000	16.2%
Friesland	332,000	244,000	15.6%
Drenthe	343,000	337,000	14.6%
Overijssel	281,000	238,000	13.4%
Flevoland	319,000	276,000	15.4%
Gelderland	402,000	287,000	14.7%
Utrecht	552,000	378,000	12.3%
North-Holland	526,000	473,000	12.1%
South-Holland	448,000	317,000	12.6%
Zeeland	282,000	277,000	11.8%
North-Brabant	404,000	295,000	11.0%
Limburg	302,000	231,000	11.7%
The Netherlands	406,000	342,000	12.7%

Table 3

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

East-Groningen and Delfzijl fastest growing regions

- The largest annual price increase of 16.8% is measured for houses in the NUTS III region of East-Groningen. In this region the value of single-family homes rose by 16.8% and the value of apartments by 16.5%.
- Second-largest annual price increase is seen in the NUTS III region Delfzijl with an annual growth rate of 16.8%, here the value of single-family homes rose by 16.8% and the value of apartments by 16.5%.
- The NUTS III regions with the smallest price increases are West-North-Brabant (10.2%) and Groot-Amsterdam (10.5%).
- In 9 of the 40 NUTS III regions the annual increase for houses prices is more than 15%.

Housing affordability

On average, 13.5% of net household income was required to service housing costs in the second quarter of 2021, compared to mid-2008 when housing costs represented 27.0% of net income.

- Q-O-Q change in net housing costs: -2.9%.
- Y-O-Y change in net housing costs: 3.1%.

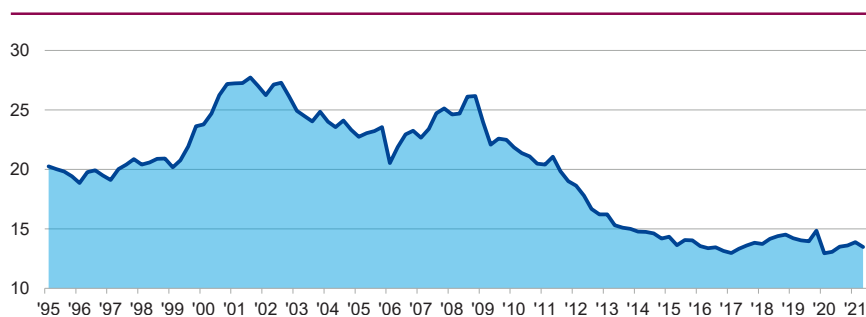


Figure 3

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

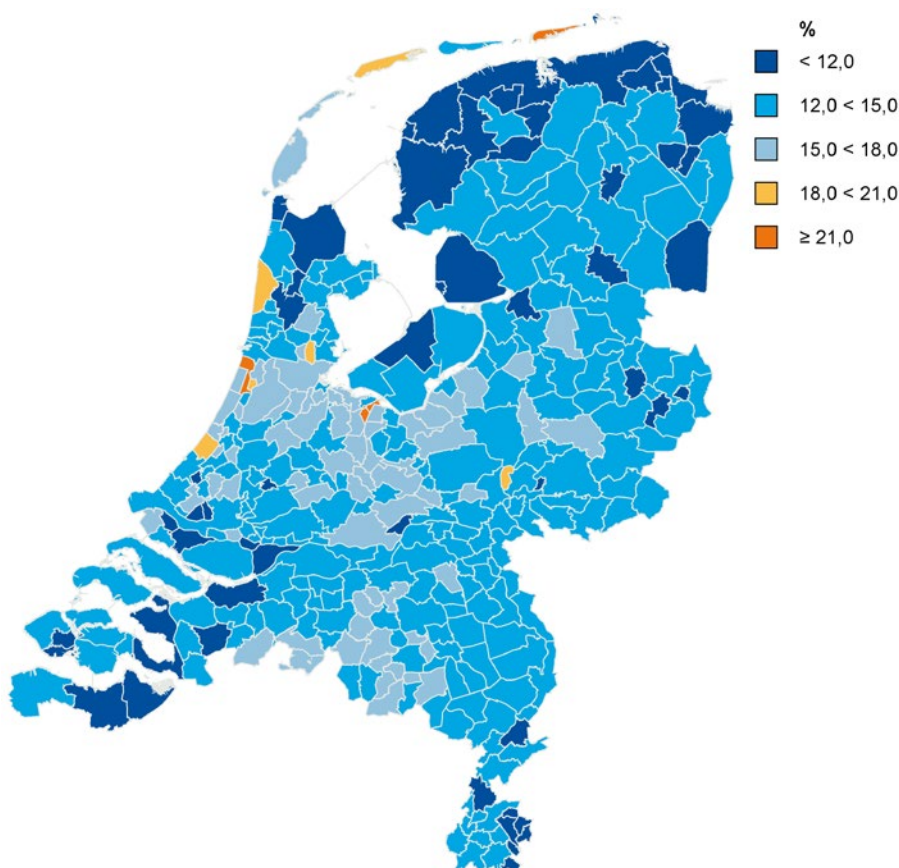


Figure 4

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 increased. 308 thousand residential properties were sold during the past year.

- Y-O-Y development, number of annual sales: +11.9%.
- Q-O-Q development, number of annual sales: -0.9%.

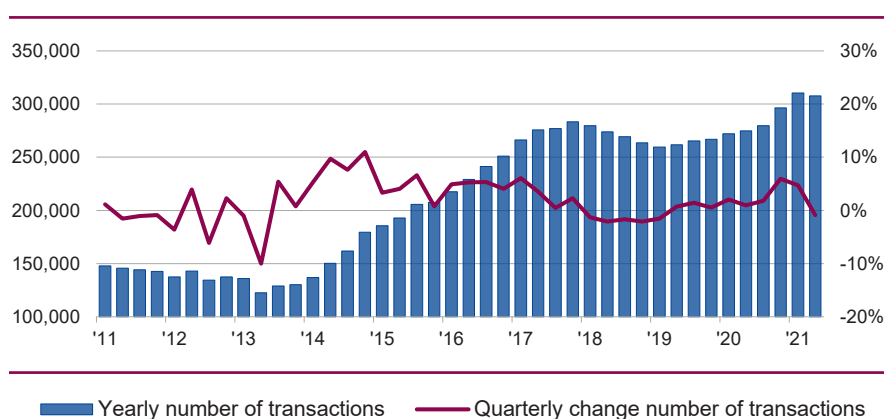


Figure 5

Number of annual sales* and y-o-y change in number of sales in the Netherlands.

Source: Statistics Netherlands, Land 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).

Number of sales by housing type

- Transactions of detached houses increased with 16.1% in the second quarter of 2021.
- Apartments sales increased the most this quarter with 17.3% year-on-year. Despite a shrinking supply of apartments.

Transaction development y-o-y

Housing type	2020Q2	2020Q3	2020Q4	2021Q1	2021Q2
Detached	7.5%	8.7%	18.5%	21.3%	16.1%
Semi-detached	9.1%	8.9%	9.2%	12.7%	7.6%
Corner house	7.6%	6.8%	6.8%	9.4%	5.8%
Terraced house	5.3%	5.7%	8.1%	12.1%	9.6%
Apartment	-0.1%	0.5%	12.6%	14.4%	17.3%
Total	5.1%	5.4%	11.1%	14.0%	11.9%

Table 4

Y-o-y transaction development by period and property type

Source: WOX Monitor Calcasa

Sales in expensive price class increased

- The sale of homes in the price range 350 to 500 thousand euros increased by 19.0% in the past year, whilst homes above 500 thousand euros increased by 37.7%.
- Especially in the east (45.2%) and in the north (62.7%) of the Netherlands more expensive homes (>500 thousand euros) were sold.
- In the south the highest increase in sales was measured for houses in the price range above 500 thousand euros (45.2%).
- The lowest price segment (75 to 150 thousand euros) decreased the most in the western part of the Netherlands by 35.2%.

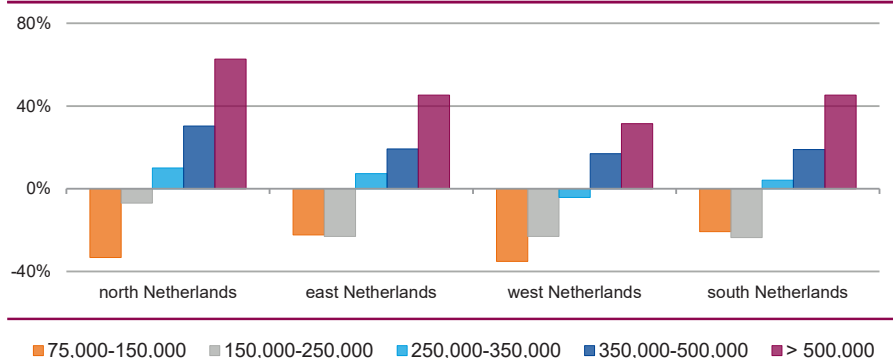


Figure 6

Growth (%) of share of housing sales per price class in North, East, West and South Netherlands in Q2 2021 compared to Q2 2020.

Source: WOX Monitor Calcasa

28% of housing sales within 250 to 350 thousand euros

- In the past year 25% of housing sales were within the price class of 150 to 250 thousand euros.
- The percentage of transactions in the price class 75 to 150 thousand euros decreased in four years time from 19% to 5%.
- The price segment 350 to 500 thousand euros increased in four years time from 11% to 23%.
- 18% of housing sales were within the price class of 500 thousand euros or more. Four years ago this was 7%.

Share of housing sales per price class

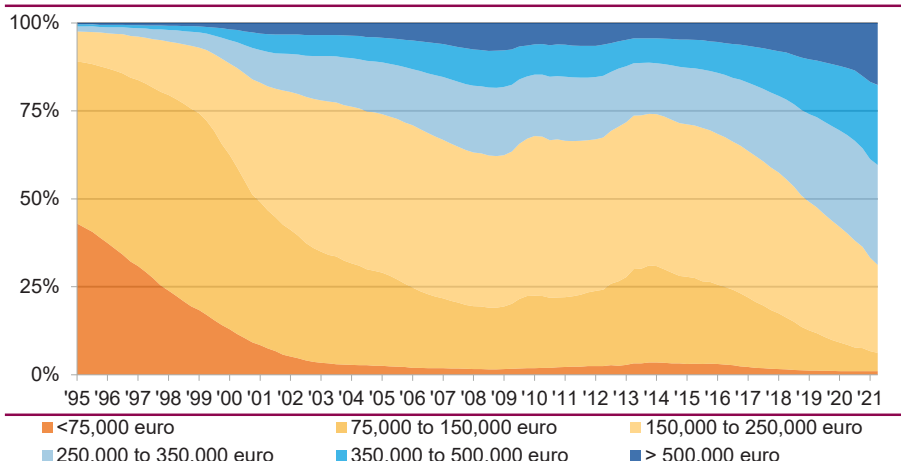


Figure 7

Share of housing sales per price class

Source: WOX Monitor Calcasa

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Groot-Amsterdam highest market liquidity

- In the NUTS III region Groot-Amsterdam 8.4% of the housing supply was sold during the past year. The regions The Hague and Veluwe follow with 7.5% and 7.4% respectively.
- The NUTS III region IJmond has the lowest market liquidity: 5.5%.

NUTS III region	Percentage of housing supply sold last year	NUTS III region	Percentage of housing supply sold last year
Groot-Amsterdam	8.4%	IJmond	5.5%
Agglomeratie 's-Gravenhage	7.5%	Delft en Westland	5.9%
Veluwe	7.4%	Achterhoek	6.0%
Groot-Rijnmond	7.4%	Noord-Limburg	6.1%
Zeeuwsch-Vlaanderen	7.3%	Zuidwest-Overijssel	6.2%
Het Gooi en Vechtstreek	7.2%	Zaanstreek	6.2%
Midden-Noord-Brabant	7.2%	Oost-Zuid-Holland	6.2%
Overig Groningen	7.1%	Arnhem/Nijmegen	6.3%
Zuidoost-Drenthe	7.1%	Alkmaar en omgeving	6.3%
Agglomeratie Haarlem	7.1%	Leiden en Bollenstreek	6.3%

Table 5

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

Source: WOX Monitor Calcasa

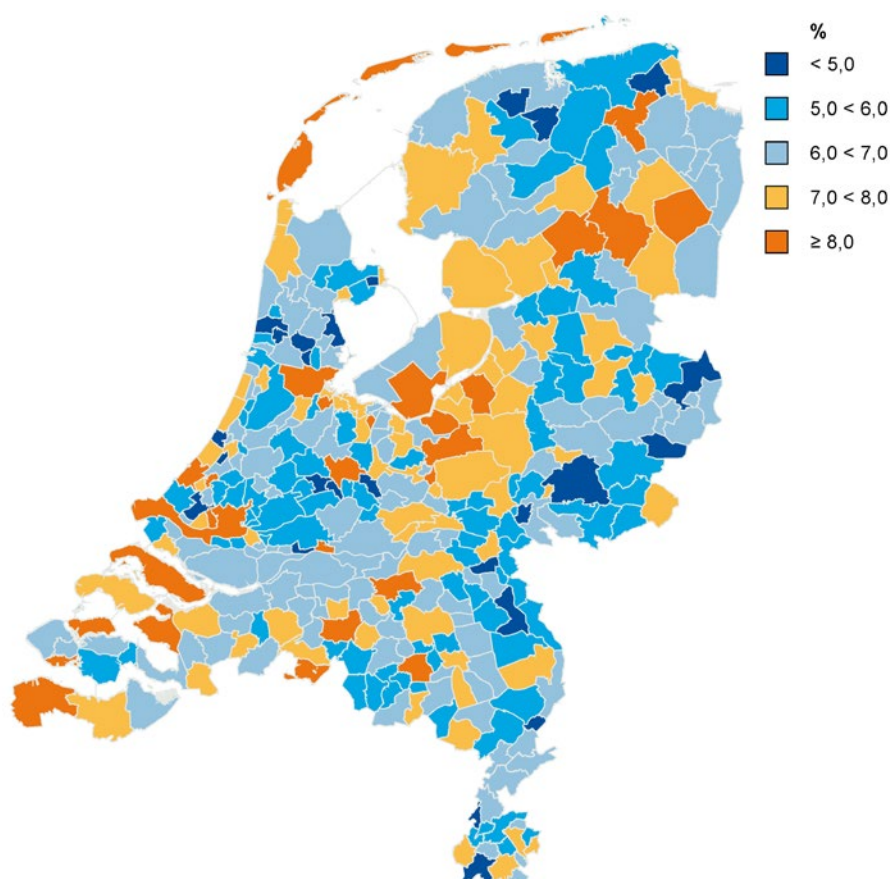


Figure 8

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 decreased to 0.1. This is an improvement compared to last year when this ratio was still 0.3.
- The annual number of houses sold: 308 thousand.
 - » Y-O-Y development: 11.9%
- Homes for sale in Q2 2021: 33 thousand
 - » Y-O-Y development: -60.2%
- The market liquidity is best in the municipality of Urk with a factor of 0.03.
- In the municipality of Wassenaar the market liquidity is highest (worst) with a factor of 0.25.

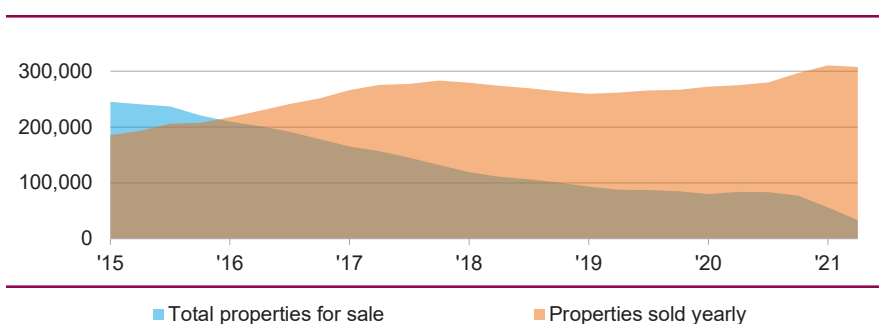


Figure 9a

Annual number of properties for sale versus number of properties sold over the period 2015-2021 in the Netherlands. Source: Multiple real estate agents, adaptation Calcasa

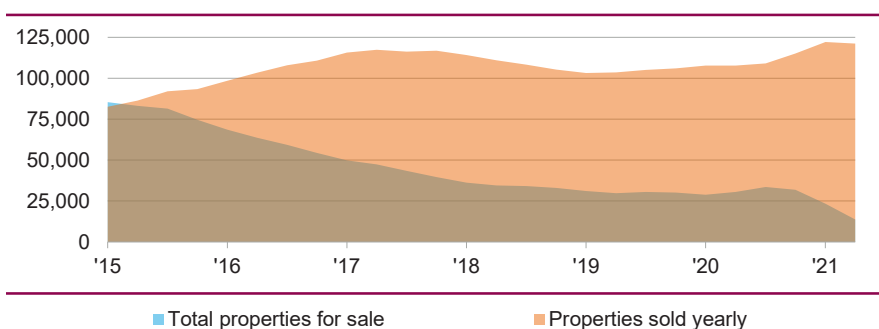


Figure 9b

Annual number of properties for sale versus number of properties sold over the period 2015-2021 in the Randstad. Source: Multiple real estate agents, adaptation Calcasa

- 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 6.9% for the Netherlands.
 - o The percentage of family homes sold previous year: 7.2%.
 - o The percentage of apartments sold previous year: 6.3%.
- The share of owner occupied housing stock which was sold last year is highest in the city of Zeewolde with 12.1%.
- In the municipality of Haaksbergen only 4.3% of the existing stock of owner-occupied homes has changed owners.

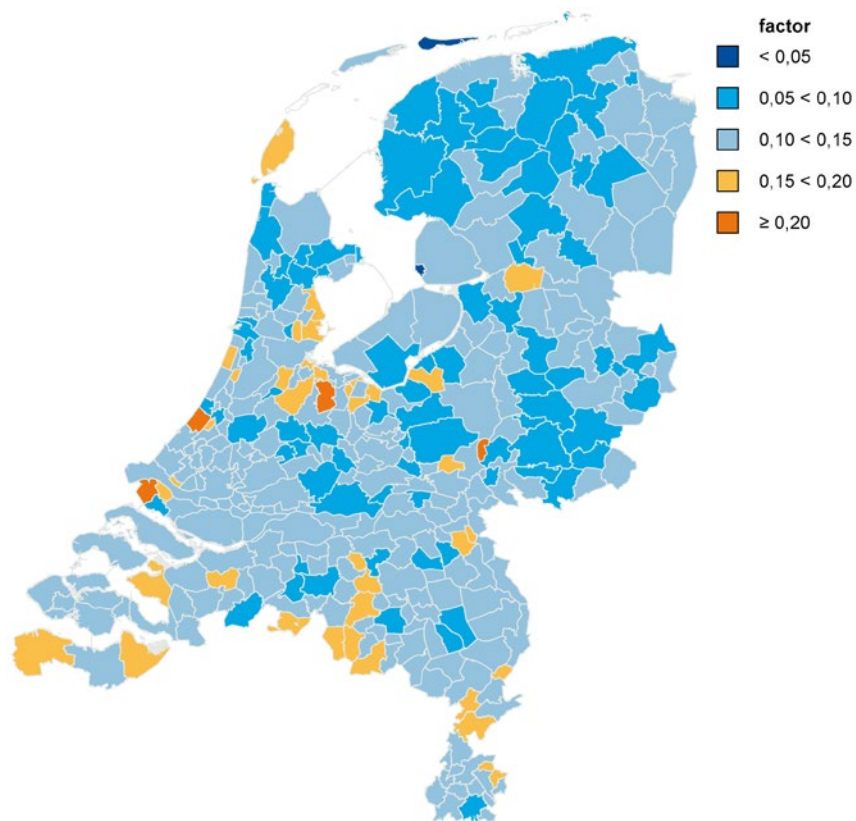


Figure 10

Supply/Sales ratio all properties per municipality

Source: WOX Monitor Calcasa

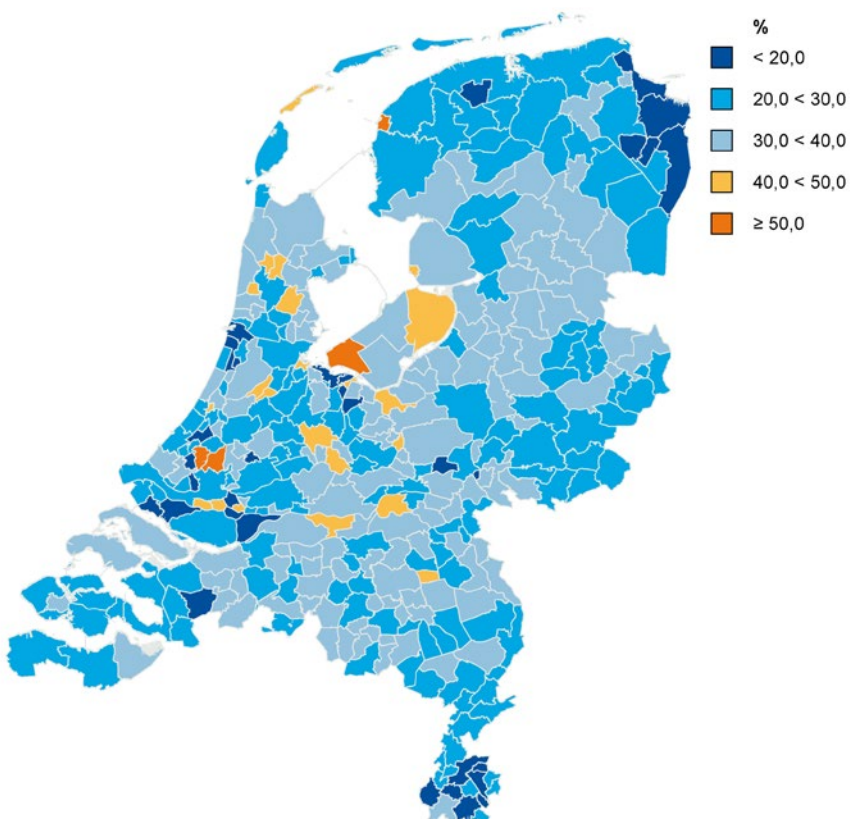


Figure 11

Percentage of properties with energy label A per municipality

Source: WOX Monitor Calcasa

Mortgage approvals

Approximately 507 thousand mortgages were approved last year.

- Y-O-Y development, number of annual mortgages: 18.7%.
- Q-O-Q development, number of annual mortgages: 0.7%.

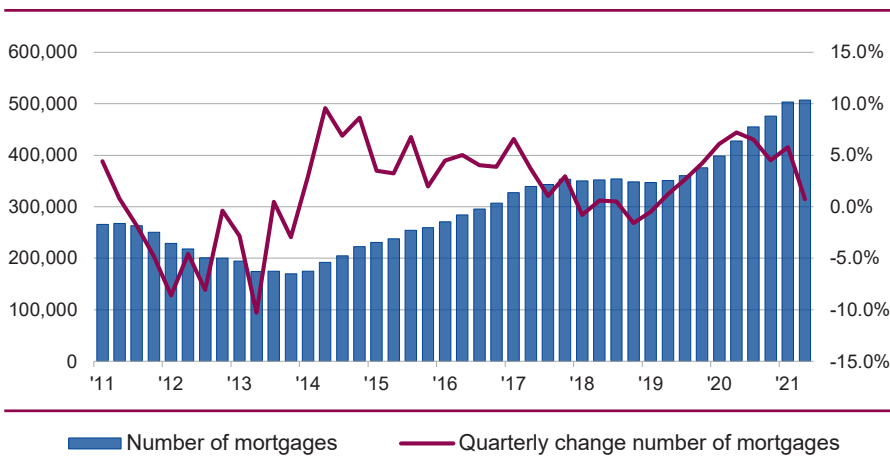


Figure 12

Number of mortgages
Source: Statistics Netherlands, Land Registry and adaptation Calcasa

Number of foreclosures

Over the last four quarters, 329 foreclosures have been registered by the land registry.

- o Y-O-Y development amount of annual foreclosures: -11.3%.
- o Q-O-Q development amount of annual foreclosures: 13.4%.
- The share of foreclosure sales versus total sales is 0.1%.
- The highest share of foreclosure sales to total sales is 0.9% in the municipality of Druten.
- 210 municipalities had no foreclosure sales in the past year. The largest municipality without foreclosure sales is Apeldoorn.

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 up to 40 percent less compared to a sale via the public market.

Due to the increase in the number of foreclosures after the crisis, the NHG has come up with stricter regulations allowing banks to only sell homes via auction if the selling price is less than 5% below market value. This is to avoid big losses.

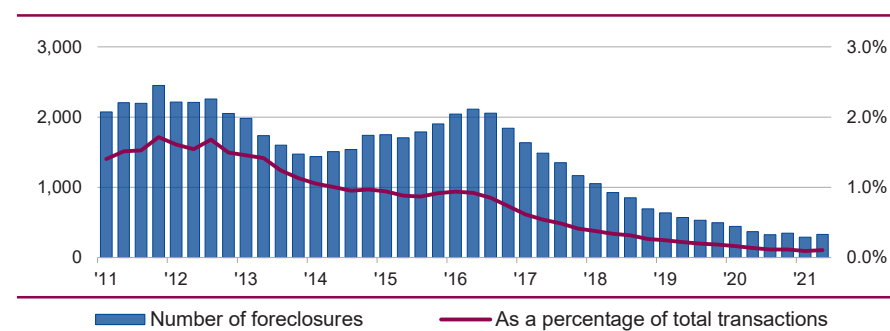


Figure 13

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 first quarter of 2021 the total amount of sales for newly built homes was 7 thousand. This is an increase of 4.2% year-on-year.
- During the first quarter of 2021 the average price for newly built houses was 450 thousand euros. This is an increase of 9.1% compared to a year ago.

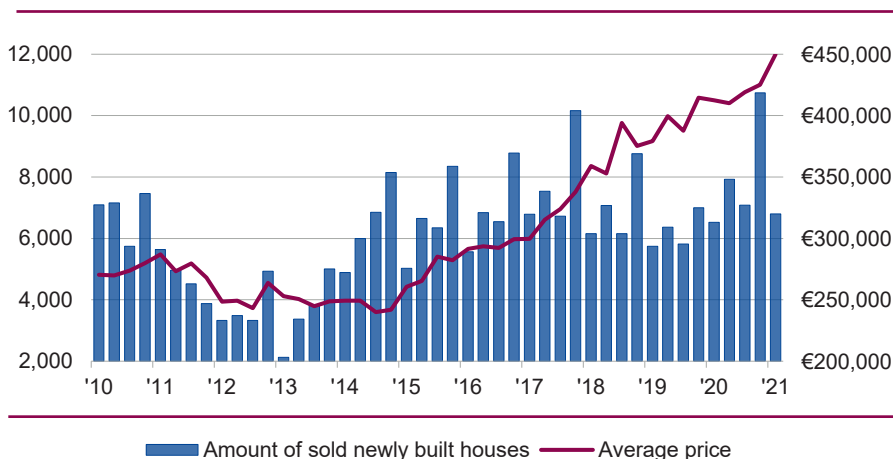


Figure 14

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 65%.
- At the end of 2020 there were 39 thousand homeowners who had difficulty paying their mortgage: this is a decrease of 20.4% compared to a year earlier.

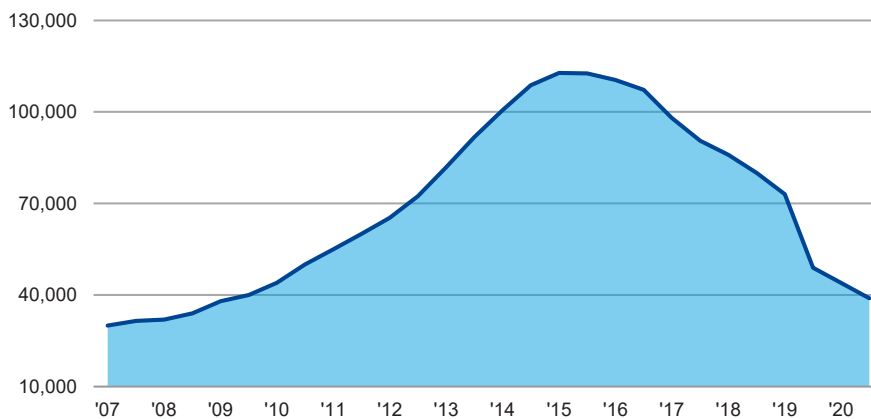


Figure 15

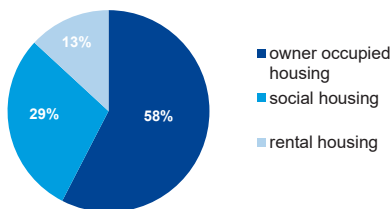
Number of borrowers with mortgage payment arrears

Source: BKR

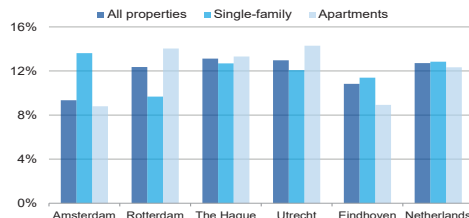
Dutch Housing Market Summary

	Largest cities	All properties	Singles-family	Apartments	Owner occupied	Rental	Total population	Total households	Annual sales	Current supply
Amsterdam	441,000	60,000	381,000	30%	70%	872,760	475,370	14,316		
Rotterdam	312,000	86,000	226,000	35%	64%	651,160	328,280	9,670		
The Hague	259,000	59,000	200,000	43%	57%	545,840	268,310	9,404		
Utrecht	154,000	67,000	87,000	46%	54%	357,600	181,670	6,143		
Groningen	115,000	47,000	68,000	42%	58%	232,870	136,380	4,203		
Eindhoven	111,000	67,000	44,000	45%	55%	234,390	120,980	4,249		
Provinces										
Groningen	280,000	184,000	96,000	55%	44%	585,870	295,470	10,717	988	
Friesland	300,000	244,000	57,000	62%	37%	649,960	294,470	12,486	1,102	
Drenthe	222,000	183,000	39,000	66%	34%	493,680	219,300	10,044	990	
Overijssel	505,000	387,000	119,000	61%	39%	1,162,410	508,410	20,013	1,928	
Flevoland	169,000	133,000	36,000	65%	35%	423,020	176,620	7,850	775	
Gelderland	903,000	680,000	223,000	61%	39%	2,085,950	931,490	36,566	3,640	
Utrecht	579,000	367,000	212,000	59%	41%	1,354,830	610,330	23,035	2,336	
North-Holland	1,334,000	674,000	660,000	51%	49%	2,879,530	1,376,230	49,439	5,709	
South-Holland	1,676,000	827,000	848,000	52%	47%	3,708,700	1,719,990	60,818	7,017	
Zeeland	187,000	152,000	35,000	66%	32%	383,490	175,700	8,779	1,104	
North-Brabant	1,129,000	851,000	278,000	62%	38%	2,562,960	1,157,460	47,801	5,251	
Limburg	531,000	390,000	141,000	60%	39%	1,117,200	532,320	20,104	2,511	
Netherlands	7,815,000	5,071,000	2,744,000	57%	42%	17,407,580	7,997,800	307,652	33,349	

Housing stock



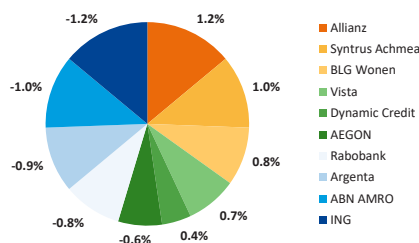
Y-O-Y price development largest cities



Mortgage developments

	Amount	Change
Sales with NHG	35,000	21.5%
Execution sales with losses	17	-70.7%
Households in arrears	39,000	-20.4%
Sold mortgages	507,227	18.7%
Total mortgage debt	756B	2.6%

Top mortgage lenders: increase/decrease market share



Macro-economic figures

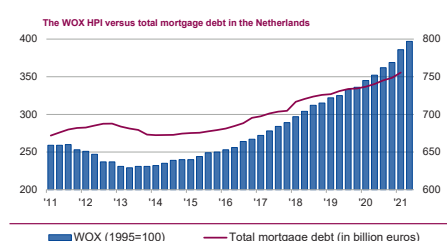
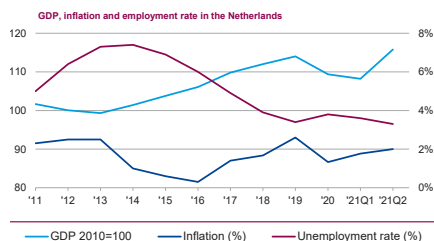


Table 6

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

Figures 16 & 17

Source figure left: Statistics Netherlands
Source figure right: Calcasa

Table 7 & Figure 18

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

Figures 19 & 20

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

Municipalities	Highest	Municipalities	Lowest
	property values (x 1,000)		property values (x 1,000)
Bloemendaal	960	Delfzijl	206
Wassenaar	794	Oldambt	218
Heemstede	721	Heerlen	220
Gooise Meren	641	Kerkrade	222
De Bilt	608	Brunssum	225
Wijdmeren	590	Veendam	228
Zeist	571	Terneuzen	231
Bergen (NH.)	569	Leeuwarden	237
Utrechtse Heuvelrug	558	Noardeast-Fryslân	242
Huizen	548	Waadhoeke	243

Table 8

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

Municipalities	Highest	Municipalities	Lowest
	annual price development		annual price development
Veendam	17.0%	Amsterdam	9.4%
Stadskanaal	16.8%	Breda	10.0%
Het Hogeland	16.7%	Boxtel	10.1%
Oldambt	16.7%	Bergen op Zoom	10.2%
Meppel	16.7%	Geertruidenberg	10.2%
Smallingerland	16.6%	Heusden	10.2%
Westerwolde	16.6%	Roosendaal	10.2%
Delfzijl	16.6%	Halderberge	10.3%
Weststellingwerf	16.6%	Etten-Leur	10.3%
Heerenveen	16.5%	Woensdrecht	10.3%

Table 9

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

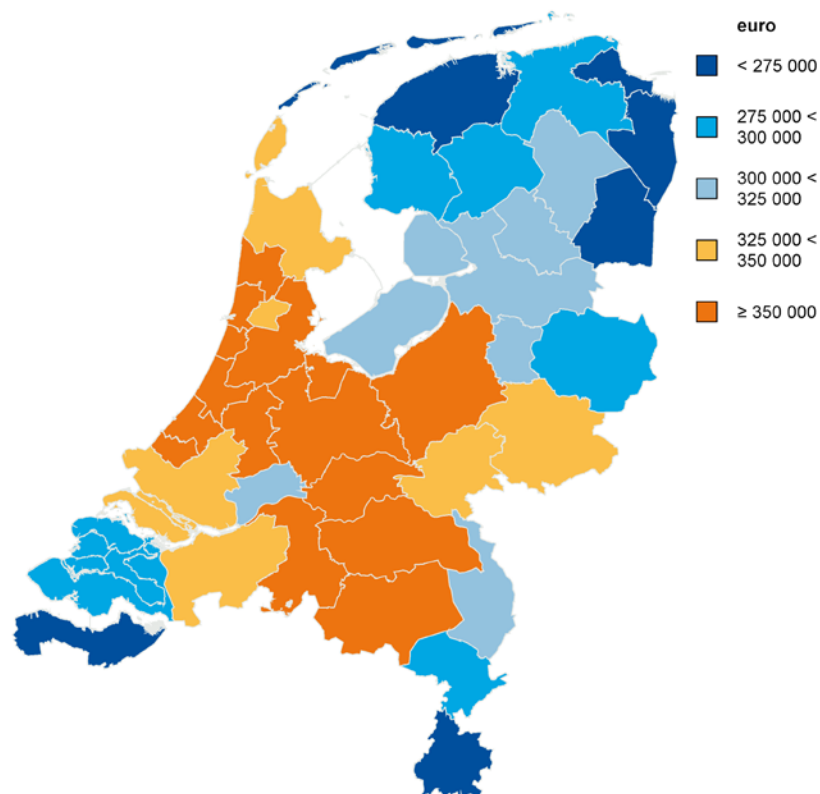


Figure 21

Average house price per NUTS-III region (EUR).
Source: Calcasa

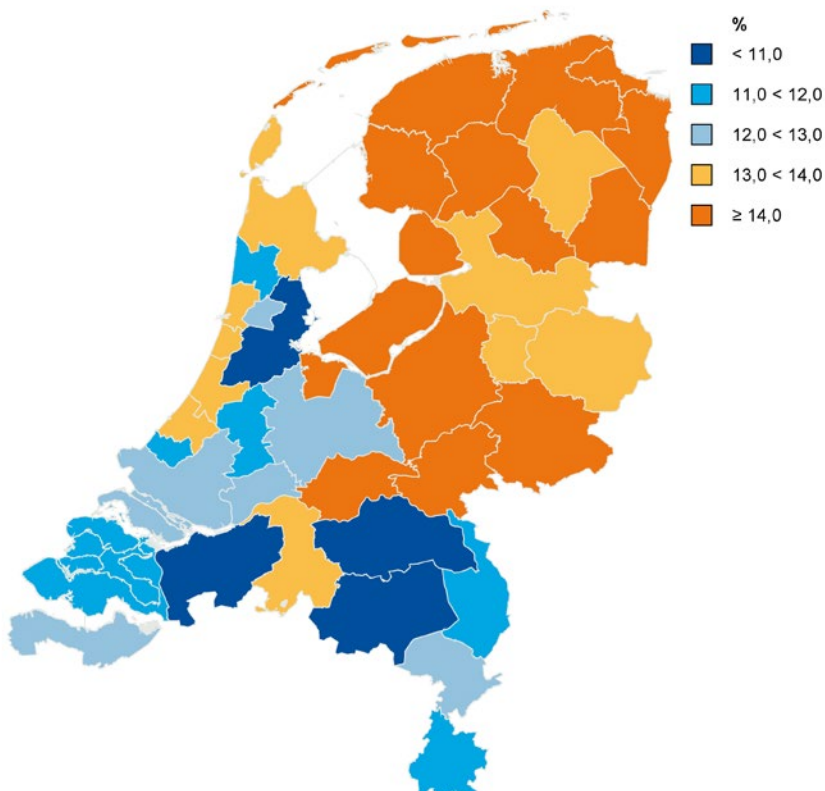


Figure 22

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

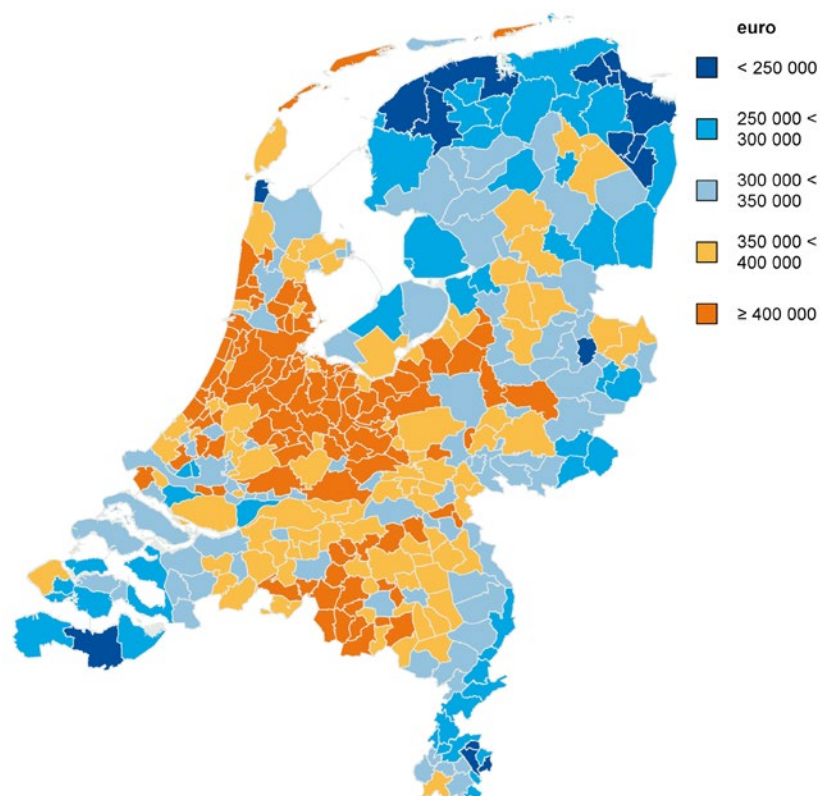


Figure 23

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

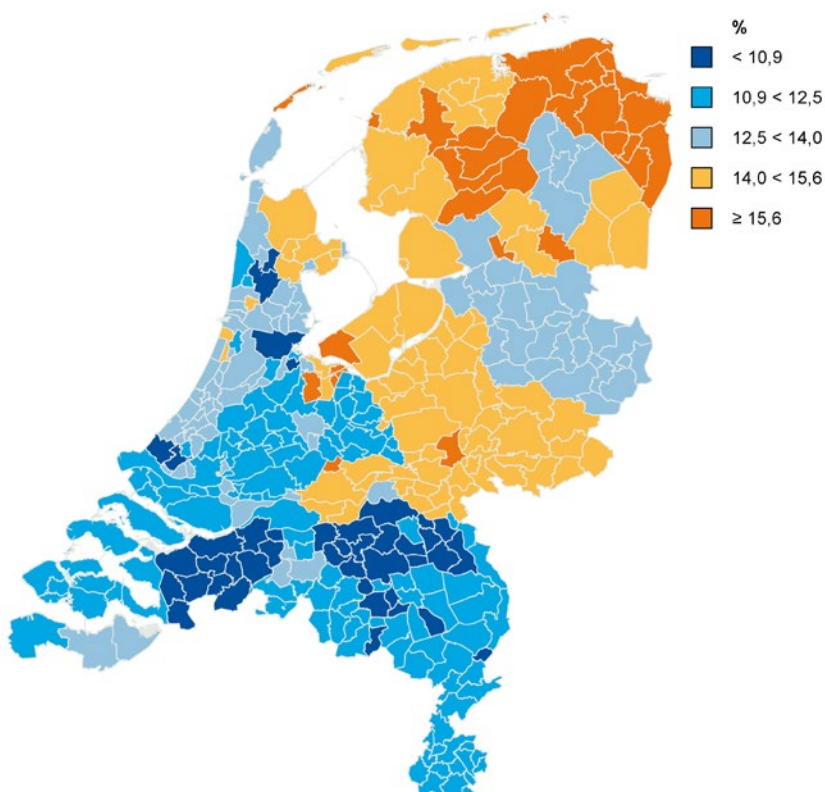
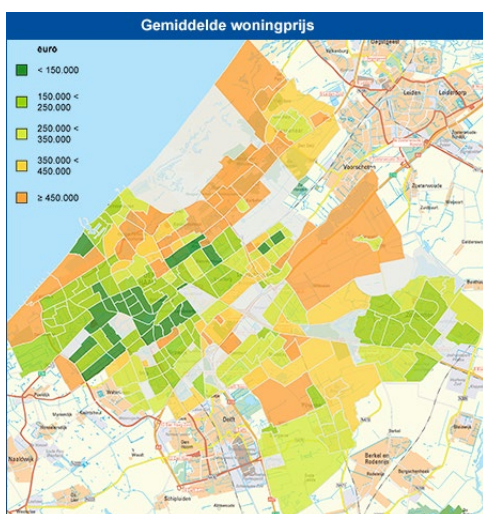


Figure 24

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

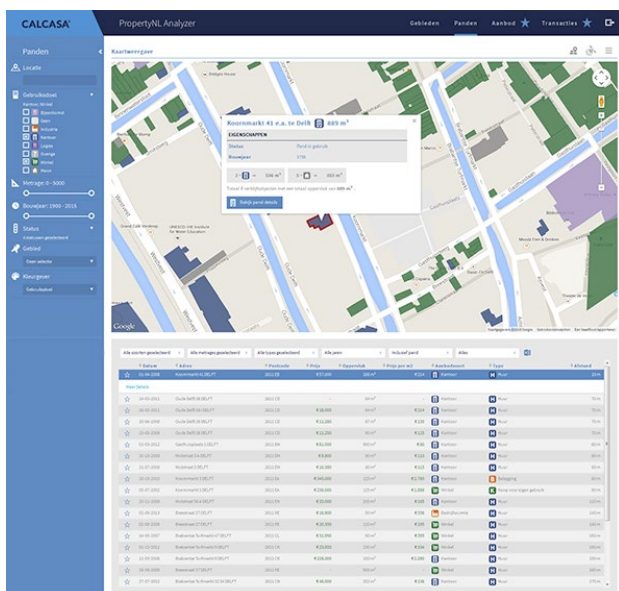
The WOX Monitor: All housing market data for every neighborhood

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).

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