

### System of indicators for residential property markets Price indicators



**1** Transaction-weighted. Bundesbank calculations based on price data provided by bulwiengesa AG.
Deutsche Bundesbank



\* Transaction-weighted. Bundesbank calculations based on price data provided by bulwiengesa AG. 1 Berlin, Dusseldorf, Frankfurt am Main, Hamburg, Cologne, Munich and Stuttgart.

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# Standard indicators to evaluate residential property prices in Germany<sup>\*</sup>

2010 = 100, quarterly, log scale



\* Bundesbank calculations based on data provided by the Association of German Pfandbrief Banks (vdp). 1 Annuity of a mortage loan with a fixed interest rate (between five and ten years) and a hypothetical term of 30 years in relation to household income. 2 Disposable income per household in Germany, nominal. 3 Prices and rents of apartments. Deutsche Bundesbank

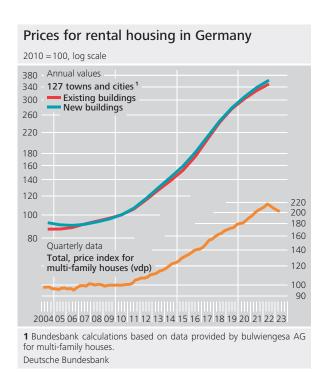
### Price-to-rent ratio for apartments in Germany\*

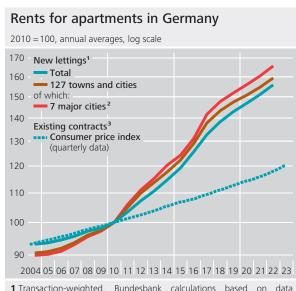


\* Transaction-weighted. Bundesbank calculations for prices and new lettings of apartments based on data provided by bulwiengesa AG. 1 Berlin, Dusseldorf, Frankfurt am Main, Hamburg, Cologne, Munich and Stuttgart. Deutsche Bundesbank



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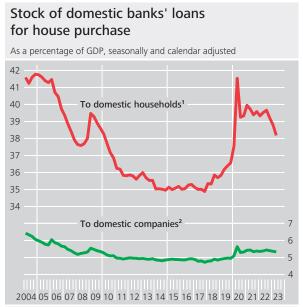
**1** Transaction-weighted. Bundesbank calculations based on data provided by bulwiengesa AG. **2** Berlin, Dusseldorf, Frankfurt am Main, Hamburg, Cologne, Munich and Stuttgart. **3** Source: Bundesbank calculations based on data provided by Federals Statistical Office (Destatis), to some extent including new lettings.

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### System of indicators for residential property markets Financial indicators

# Dynamics in domestic banks' loans for house purchase\* Year-on-year rate of change as a percentage, end-of-quarter data, seasonally and calendar adjusted +8 +6 +4 To domestic households¹ +2 0 -2 -4 To domestic companies² -6 2004 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 \* Data adjusted for statistical changes. 1 Including self-employed persons and sole traders. 2 Excluding self-employed persons and sole

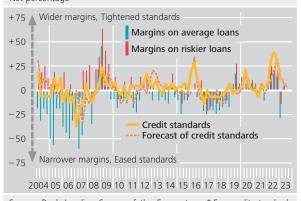


1 Including self-employed persons and sole traders. 2 Excluding self-employed persons and sole traders.

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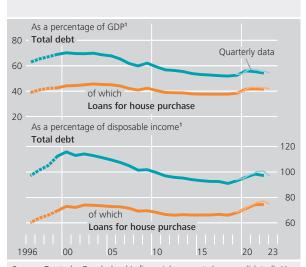
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# Changes in credit standards and interest margins\* on loans to households for house purchase in Germany Net percentage



Source: Bank Lending Survey of the Eurosystem. \* For credit standards (margins): difference between the number of respondents reporting "tightened considerably" and "tightened somewhat" ("widened considerably" and "widened somewhat") and the number of respondents reporting "eased somewhat" and "eased considerably" ("narrowed somewhat" and "narrowed considerably") as a percentage of the responses given. Deutsche Bundesbank

### Debt of households in Germany\*



Source: Deutsche Bundesbank's financial accounts (unconsolidated). Until 1998 according to ESA 1995; from 1999 according to ESA 2010. \* Loans to private households and private non-profit institutions, annual average. 1 Four-quarter moving sum.

Deutsche Bundesbank



# System of indicators for residential property markets Financial indicators

# Interest payments on loans to households in Germany for house purchase\*

As a percentage of disposable income



\* Data based on time-related stocks of MFI interest rate statistics for secured and unsecured loans, including overdraft loans.

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### Interest rates on loans to households in Germany for house purchase\*

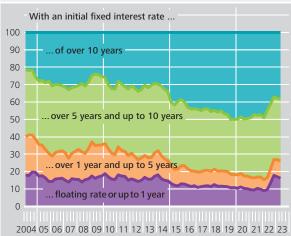


\* Data based on the monthly new business of the MFI interest rate statistics for secured and unsecured loans, excluding overdraft loans. 1 Calculated as the difference between the interest rate with an initial rate fixation of over 5 years and up to 10 years and the interest rate with an initial rate fixation of over 1 year and up to 5 years.

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### Fixed interest periods for loans to households in Germany for house purchase\*

As a percentage



\* Calculated as domestic banks' volume of new business with respective rate fixation periods as a share of total new business (also including extensions).

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### System of indicators for residential property markets

Real economic indicators

### Building permits and completed housing units in Germany\* Thousand apartments, yearly data, log scale 650 550 Completed housing units Quarterly data<sup>1</sup> 450 350 300 250 **Building permits** 200 150 1996 05 10

Source of unadjusted figures: Federal Statistical Office. \* In residential and non-residential buildings. Including construction work on existing buildings. 1 Seasonally and calendar adjusted, annualised.

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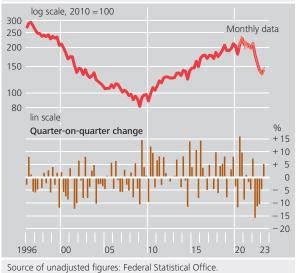


Source of unadjusted figures: Federal Statistical Office. \* Quarterly calculations of gross investment at current prices according to national ac-

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### New orders for housing construction in the main construction sector in Germany

Quarterly data, seasonally and calendar adjusted, at constant prices



Number of transactions for apartments in Germany

2010 = 100, log scale



Source: Extrapolation provided by vdpResearch GmbH on the basis of data from surveyor committees. 1 Berlin, Dusseldorf, Frankfurt am Main, Hamburg, Cologne, Munich and Stuttgart.

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