



Banc Ceannais na hÉireann
Central Bank of Ireland

Eurosystem



Central Bank of Ireland – Data Visualisation Style Guide

Version 1.0 // Updated 17 October 2024

**Central Bank of Ireland –
Confidential**

Central Bank of Ireland - CONFIDENTIAL

Why A Style Guide?

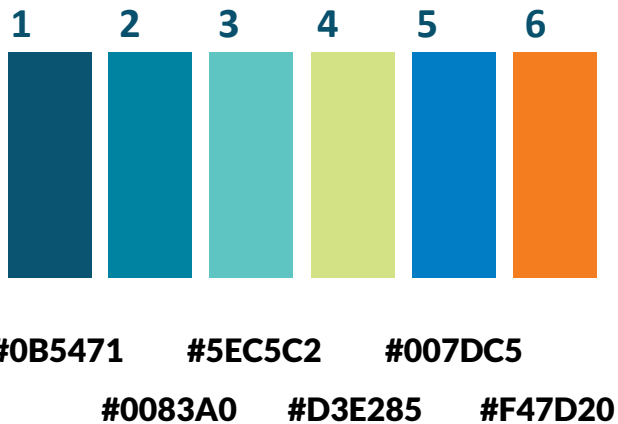
The primary reason in establishing a data visualisation style guide is to ensure consistent standards for formatting and designing data visualisations across the bank. Each chart should follow the specific colour ordering established in this document.

Note: On some pages, the visuals have been minimised to ensure multiple charts per page. In practice, visuals should follow the golden ratio or width to height ratio of 8 x 4.94 & a DPI of 600. For social media posts, the formatting is as follows: width = 31.74 centimetres & height = 12.1 centimetres with a DPI of 600.

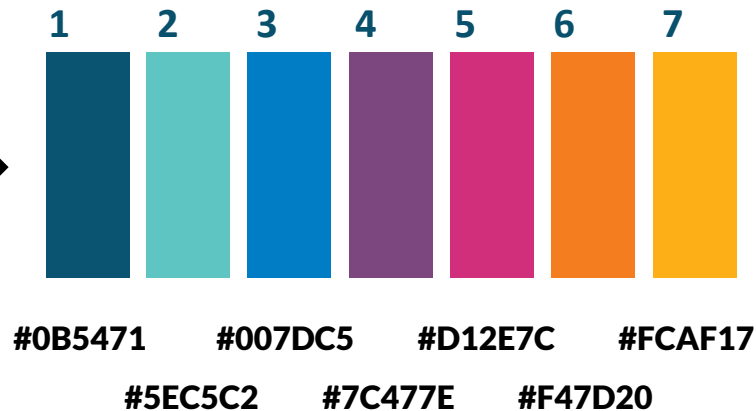


Colour Scheme:

Old:

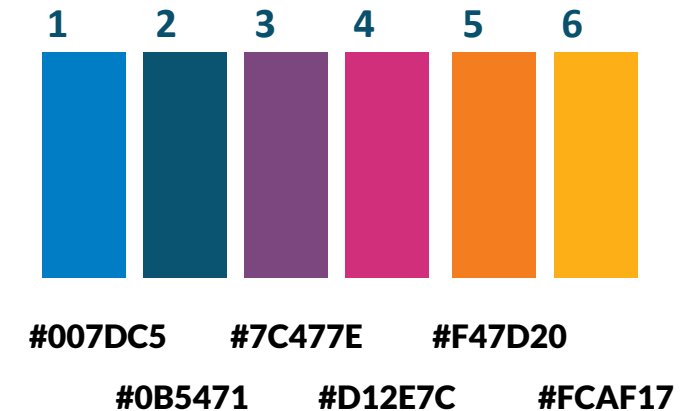


Qualitative:



&

Converging:



Note: The *Qualitative* palette is to be used when different categorical variables (nominal) have no obvious ordering.

Note: The *Converging* palette is to be used when different categorical variables (ordinal) do have an obvious ordering.



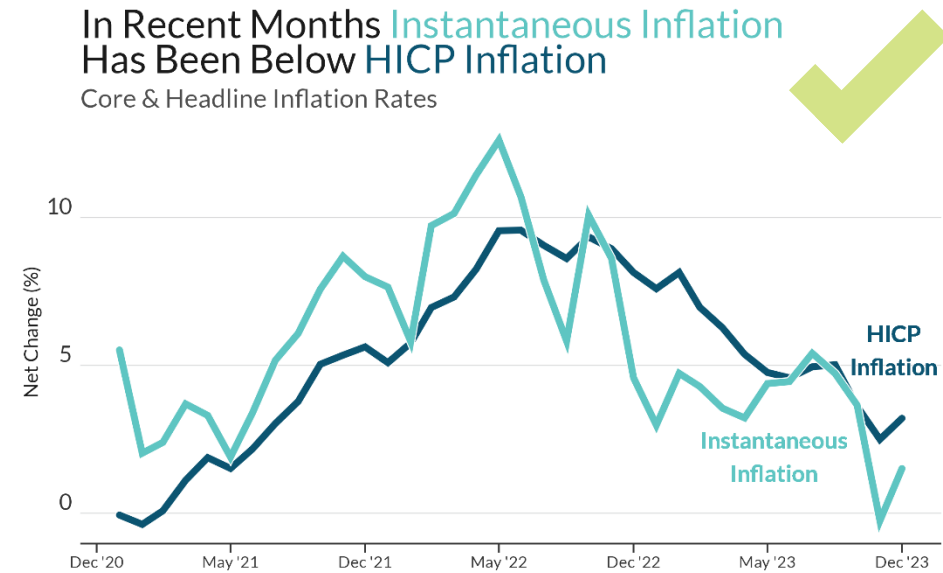
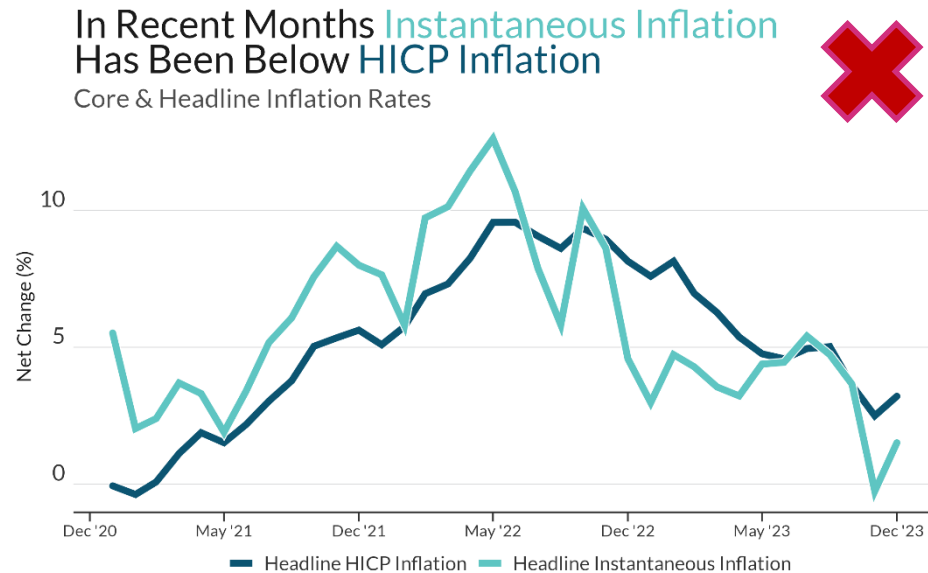
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Figure Legends:

If possible, try to EXCLUDE figure legends.

Instead, label data directly in a logical ordering at the right-hand side of the chart.

Sometimes this may be more difficult to achieve in practice (particularly with R).



Bar / Column: Stacked (Adding to 100)

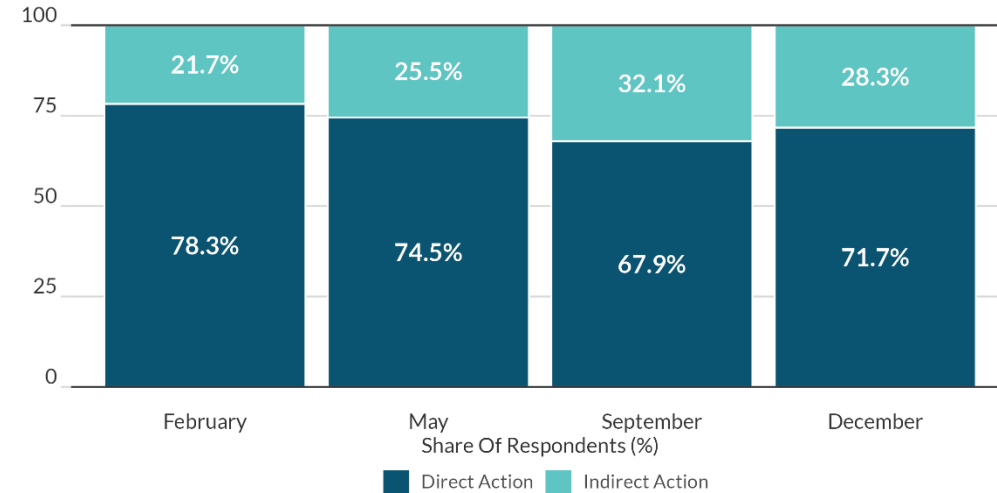
Colour Order



2 Colours

Share of Respondents Planning Direct Action For Wage Increase has Remained Relatively Constant

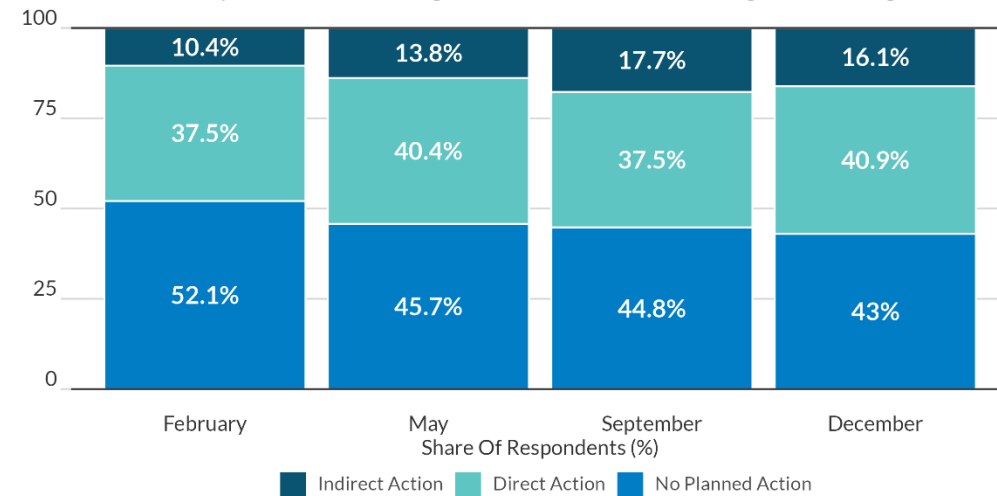
Share of Respondents Planning Future Action to Seek Higher Earnings



3 Colours

Share of Respondents Planning Direct Action For Wage Increase has Remained Relatively Constant

Share of Respondents Planning Future Action to Seek Higher Earnings

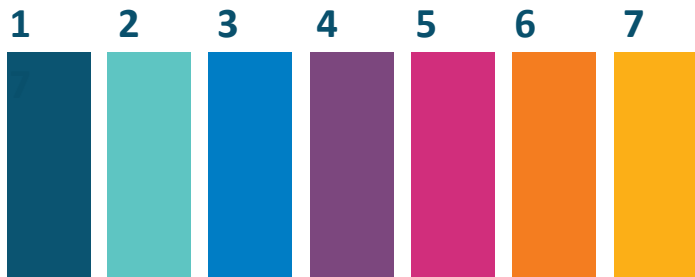


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Bar / Column: Stacked

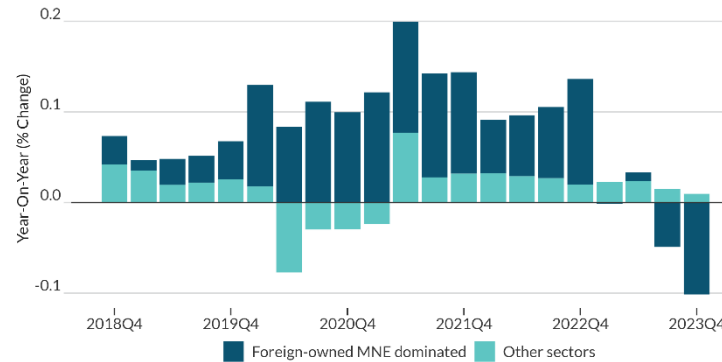
Colour Order



2 Colours

GVA retracted sharply in MNE-dominated sectors
...While continuing to grow in domestic sectors

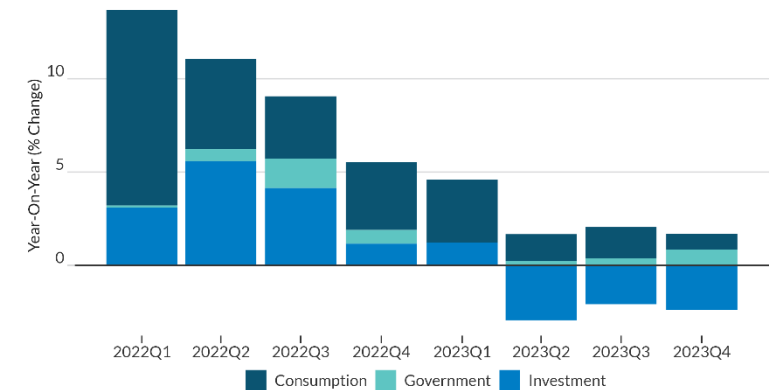
Contributions to Growth in GVA



3 Colours

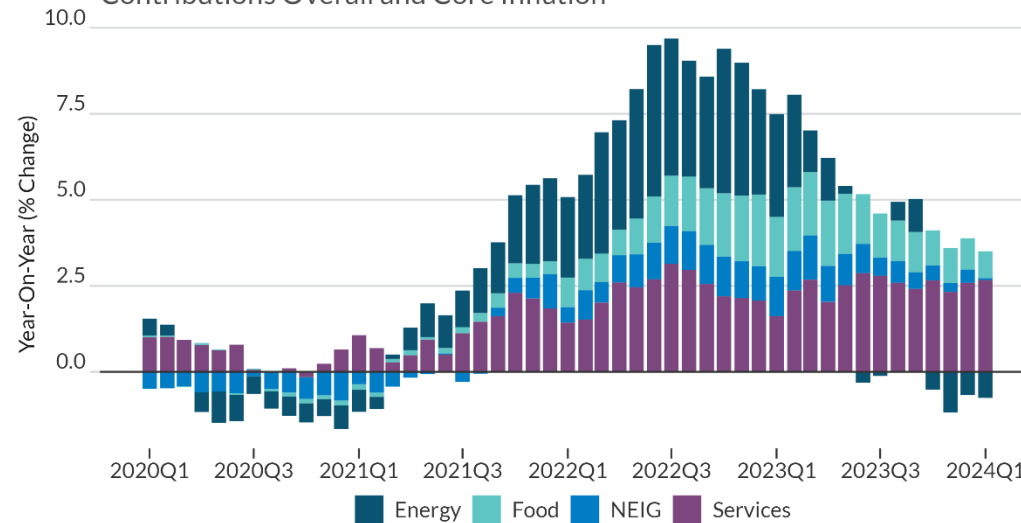
MDD Growth shows Signs of Weakness in 2023

Contributions to Growth in MDD



4 Colours

Contributions Overall and Core Inflation

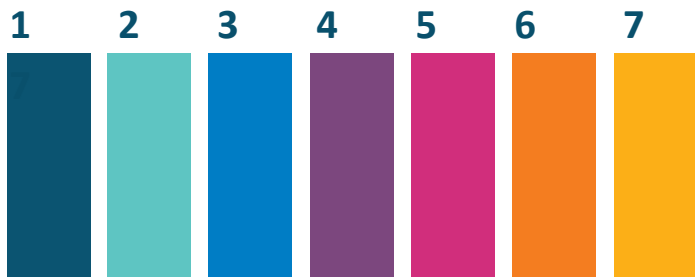


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Bar / Column: Stacked

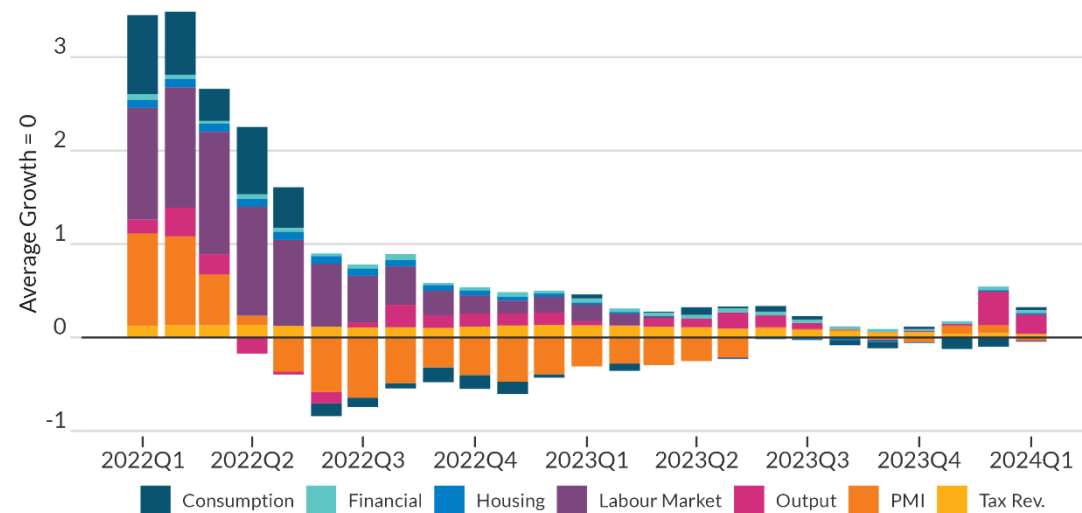
Colour Order



7 Colours

The Underlying Domestic Economy is Likely to ... Grow In Line with its Medium-Term Capacity

Central Bank's Business Cycle Indicator (BCI), (Jan 2022 – Jan 2024)



Note: It is recommended that four is the maximum no. of different colours to use. Anything more makes it difficult to distinguish. Consider using less colours and a light gray to highlight the “Other” category.



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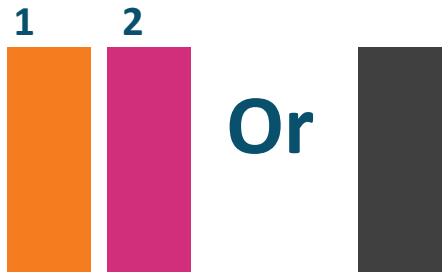
Eurosystem

Bar / Column: Stacked With Trendline

Colour Order



Line Colour



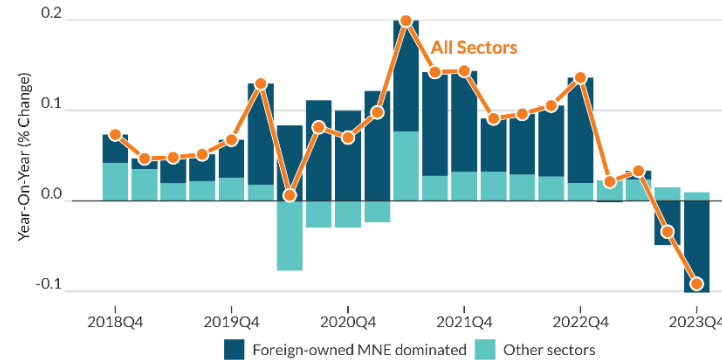
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Eurosystem

2 Colours

GVA retracted sharply in MNE-dominated sectors
...While continuing to grow in domestic sectors

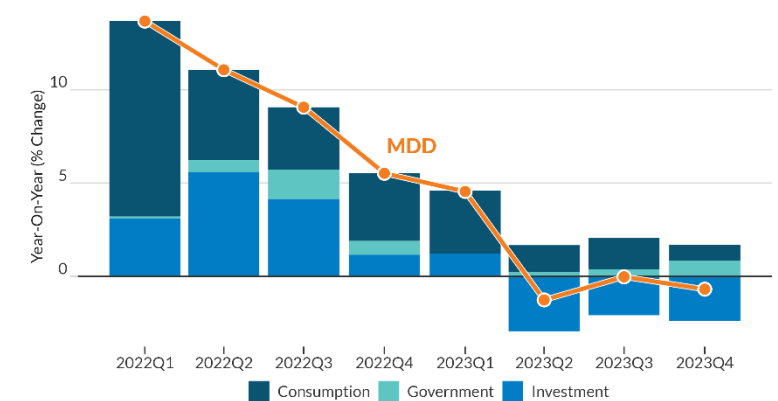
Contributions to Growth in GVA



3 Colours

MDD Growth shows Signs of Weakness in 2023

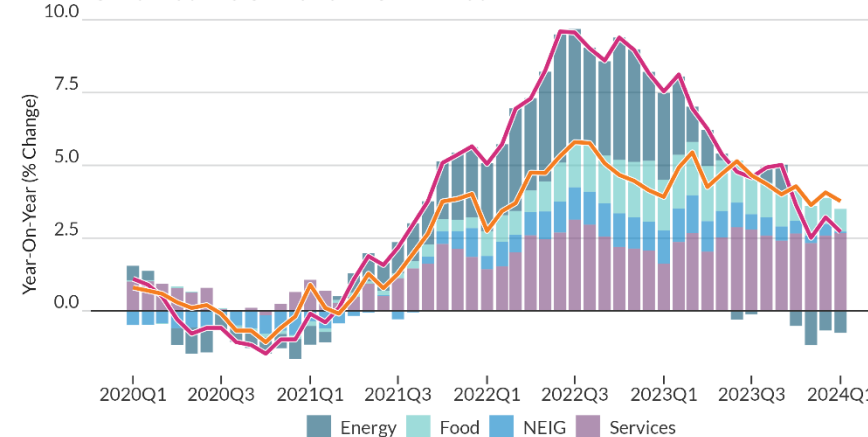
Contributions to Growth in MDD



4 Colours

Headline Inflation has been Falling
...Though Core Inflation Remains Elevated

Contributions Overall and Core Inflation



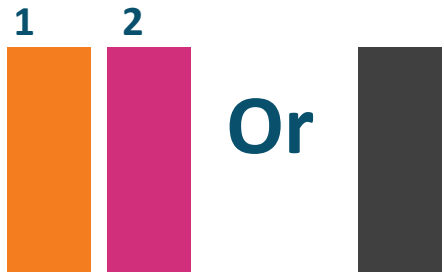
Note: The bars are set to 80% transparency as the primary message in this chart is to convey the difference between **Headline Inflation & **Core Inflation** trajectories**

Bar / Column: Stacked With Trendline

Colour Order



Line Colour



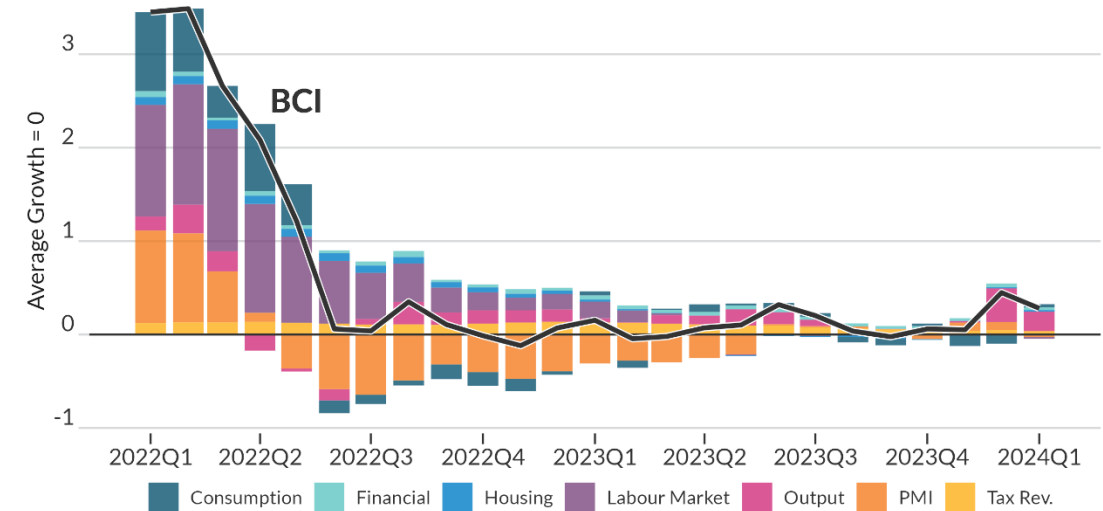
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7 Colours

The Underlying Domestic Economy is Likely to
... Grow In Line with its Medium-Term Capacity

Central Bank's Business Cycle Indicator (BCI), (Jan 2022 – Jan 2024)



Note: The coloured bars are set to 80% transparency as the primary message is to convey the trajectory of BCI.

Bar / Column: Stacked With Ordering

Colour Order



Line Colour



Note: The use of arrows on top is optional. Additionally, the splitting into years on the x-axis is dependent on the key message. Do we want to convey the difference year on year, or just the overall trend?

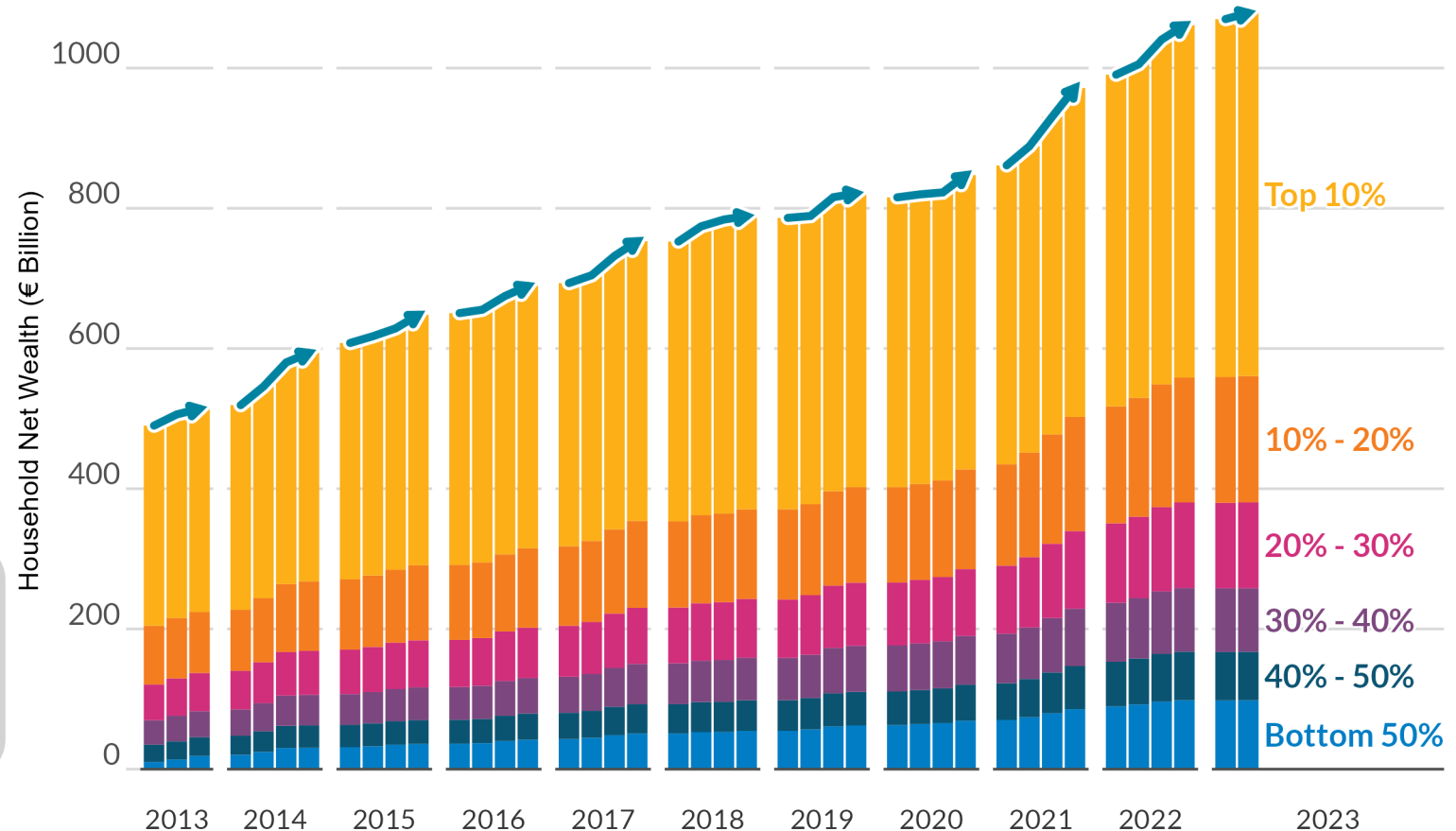


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6 Colours

**Ireland Sees 48% Of Total Net Wealth Controlled By
...The Top 10% of People in 2023 Q2**

Ireland - Total Net Wealth By Deciles

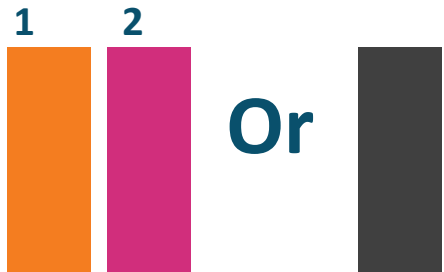


Bar / Column: Horizontal

Colour Order

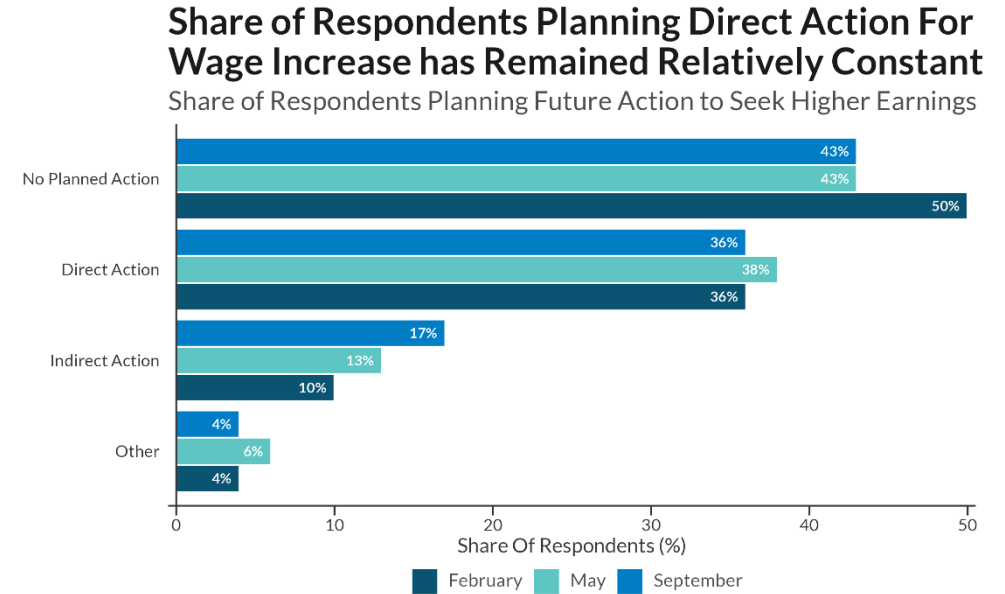


Line Colour



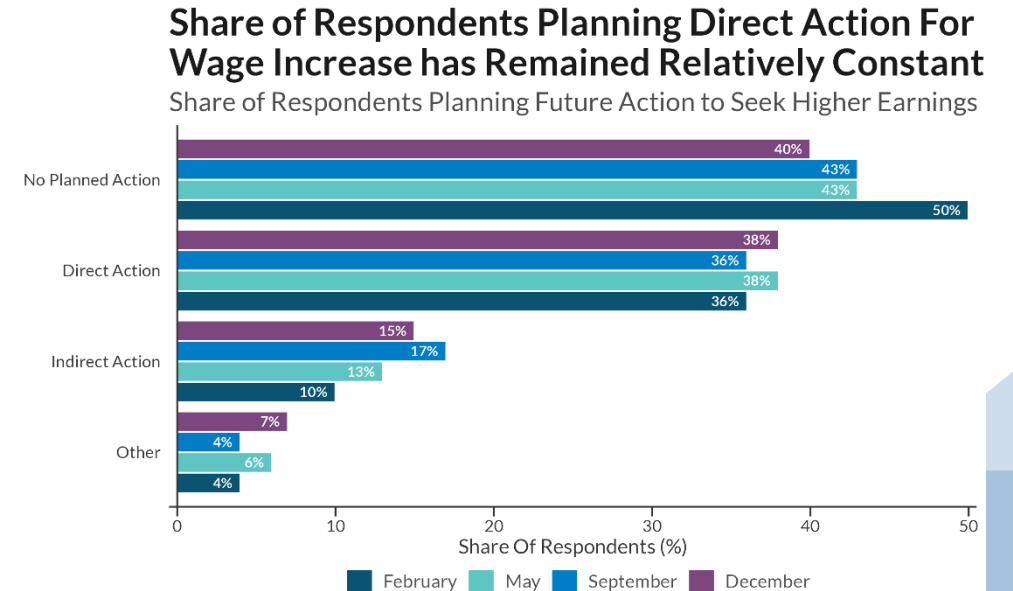
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3 Colours



4 Colours

Note: It is recommended that four is the maximum no. of different colours to use. Anything more makes it difficult to distinguish. Consider using less colours and a light gray to highlight the “Other” category.



Bar / Column: Horizontal with Highlights

Colour Order



“Other” Colour

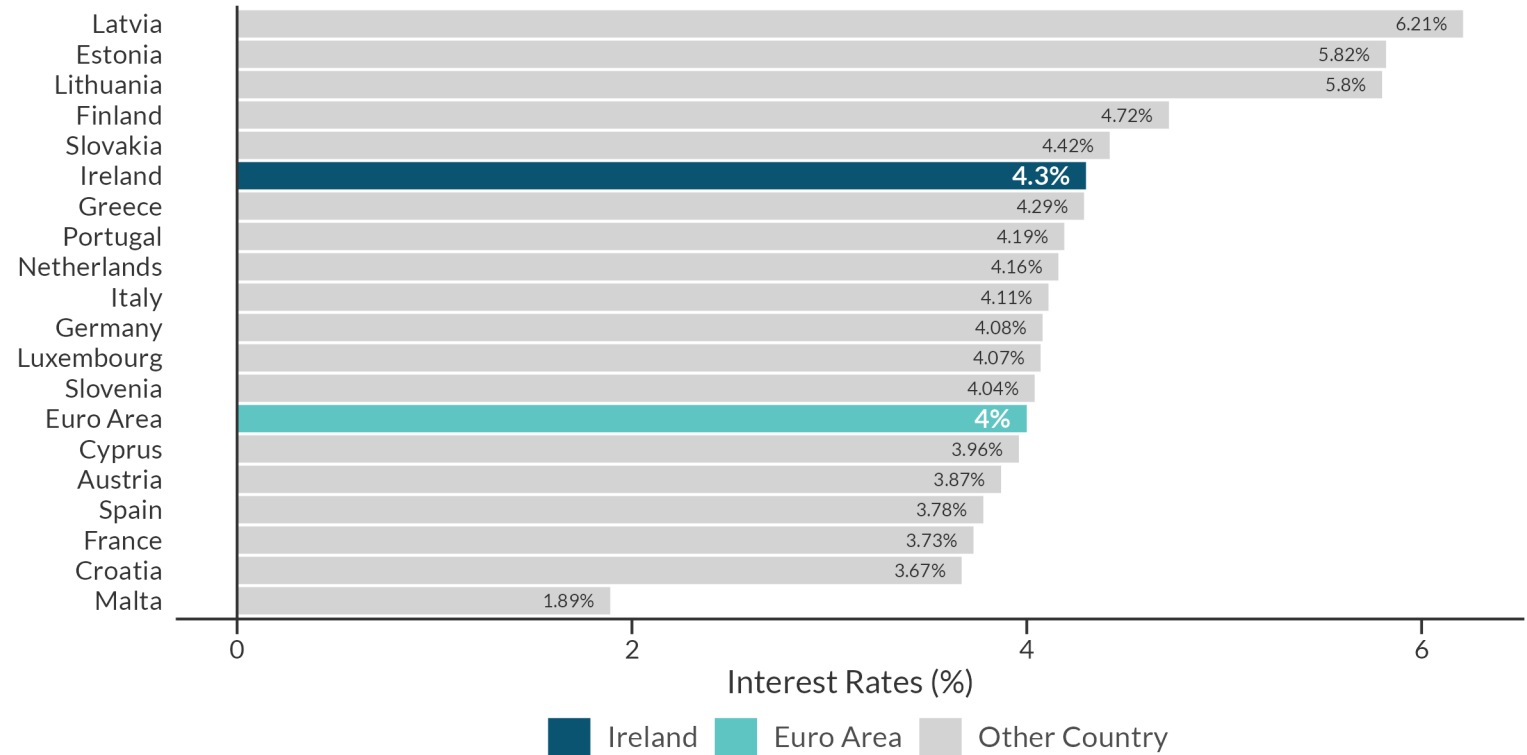


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3 Colours

Ireland Stands at 6th Highest in the Euro Area at End-September 2023

Interest Rates on New Loans for House Purchase



Note: Use colour to highlight what's relevant to the story. Use a light gray colour for the remaining datapoints. There is no need for x-axis gridlines as values are labelled with text at end of bars.

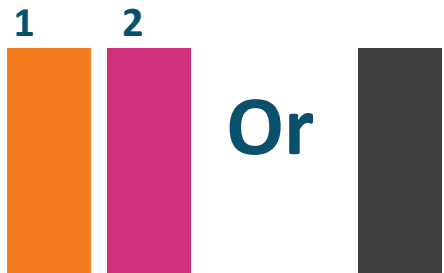
Line Charts:

2 Colour

Colour Order



Line Colour

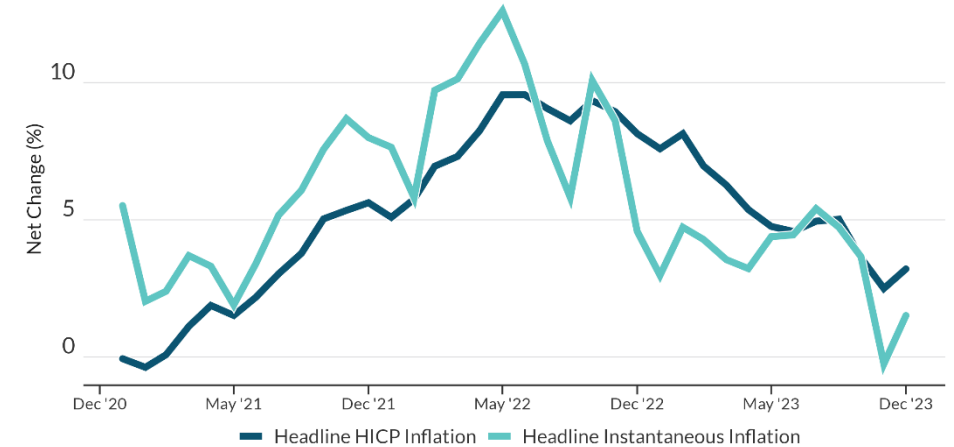


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Note: A figure legend can be included at the bottom to distinguish categories. However, the preference is to contain the category names on the plot.

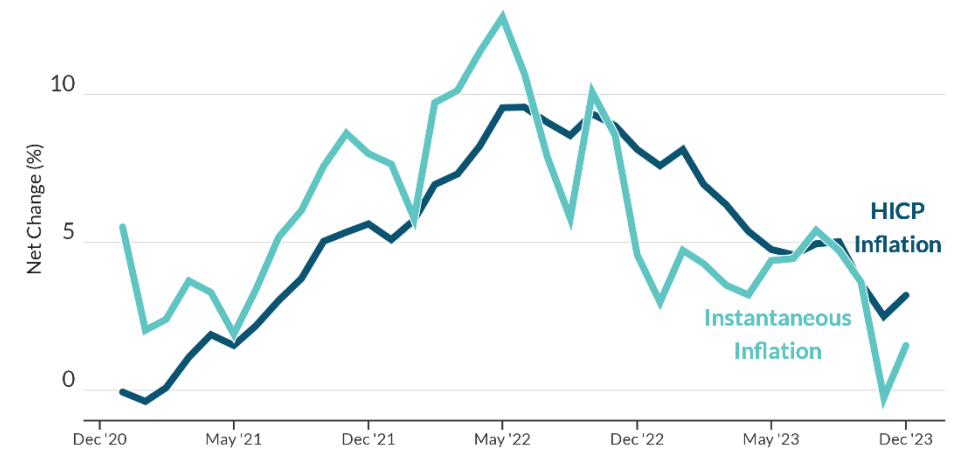
In Recent Months **Instantaneous Inflation** Has Been Below **HICP Inflation**

Core & Headline Inflation Rates



In Recent Months **Instantaneous Inflation** Has Been Below **HICP Inflation**

Core & Headline Inflation Rates

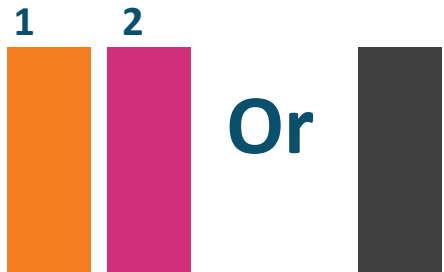


Line Charts:

Colour Order



Line Colour

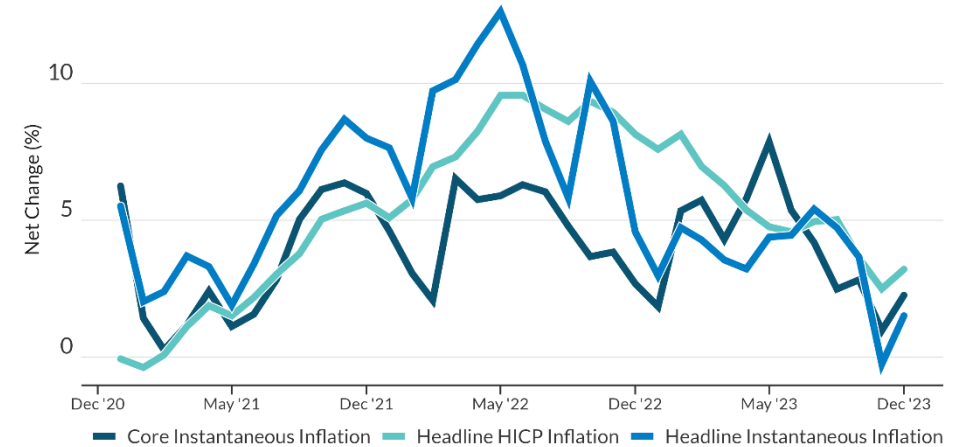


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3 Colours

In Recent Months **Instantaneous Inflation**
Has Been Below **HICP Inflation**

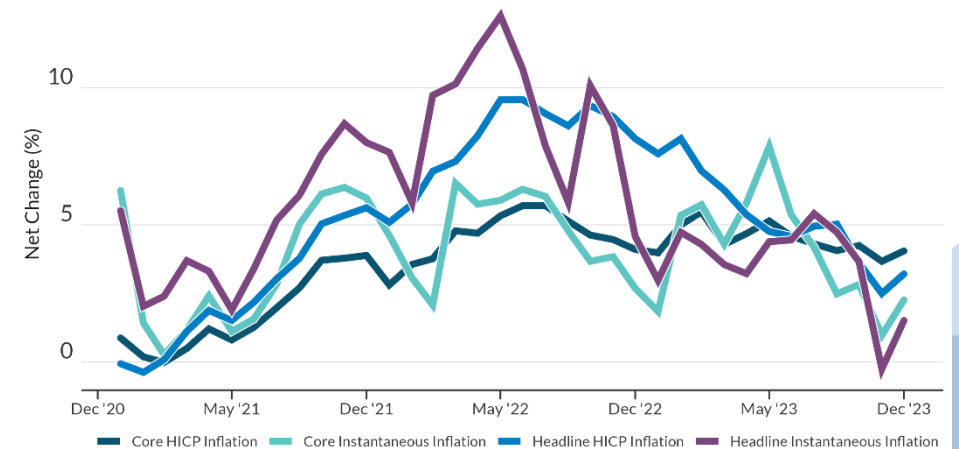
Core & Headline Inflation Rates



4 Colours

In Recent Months **Instantaneous Inflation**
Has Been Below **HICP Inflation**

Core & Headline Inflation Rates



Bump Charts:

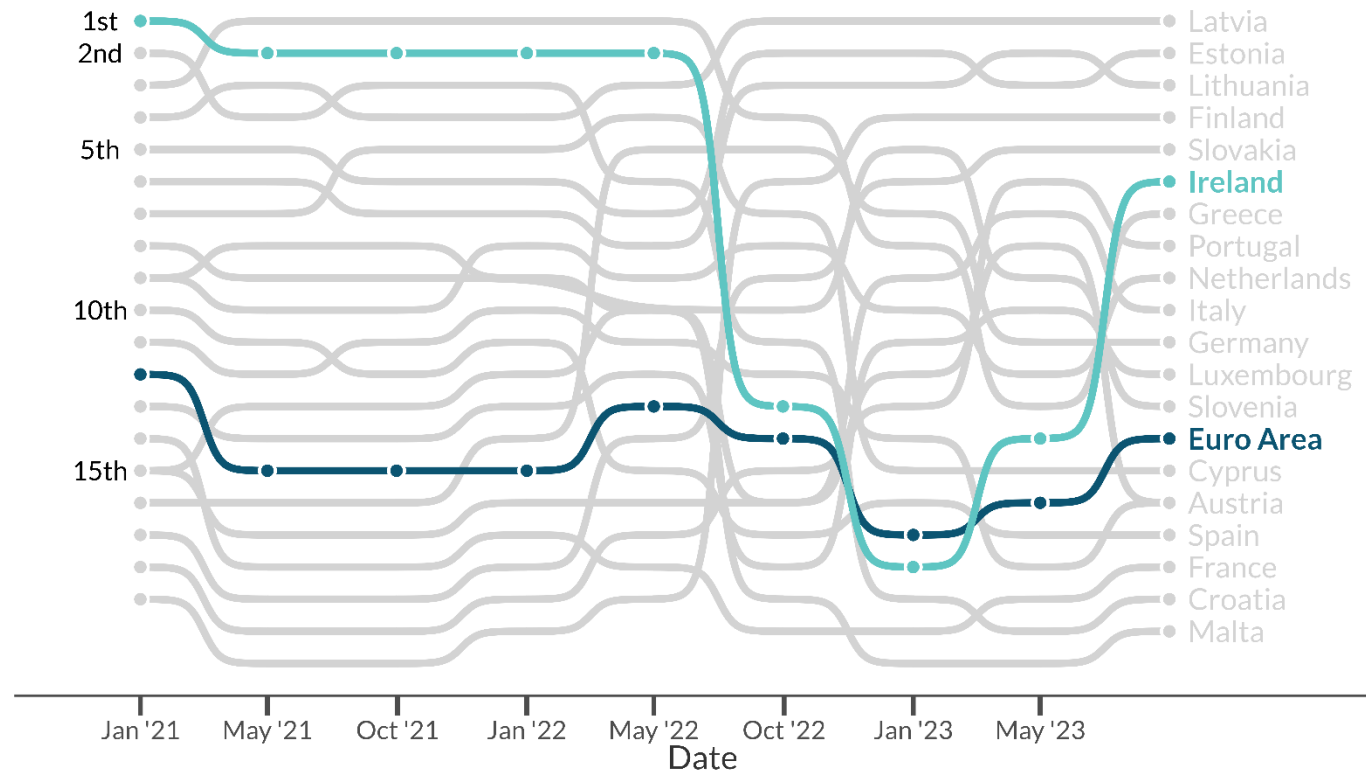
6 Colours

Colour Order



Ireland Stands at 6th Highest in the Euro Area At End-September 2023

Interest Rates on New Loans for House Purchase



Bump Charts: Combined

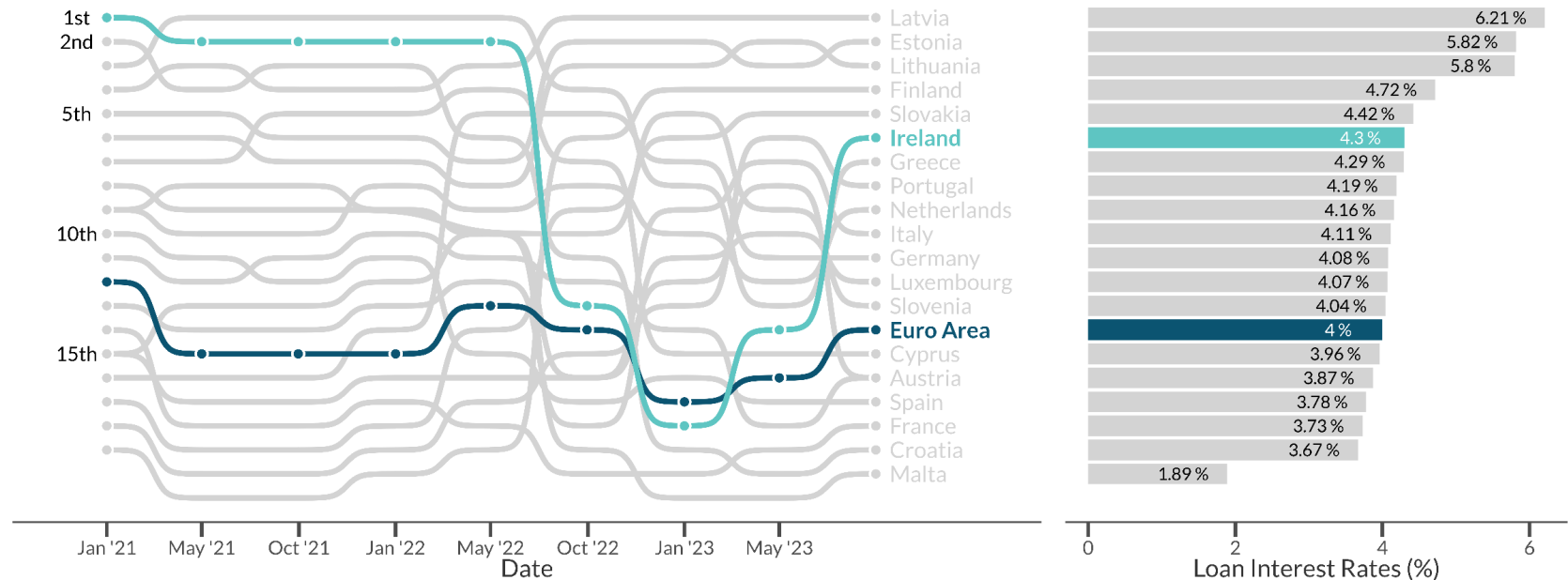
Colour Order



6 Colours

Ireland Stands at 6th Highest in the Euro Area At End-September 2023

Interest Rates on New Loans for House Purchase



Note: There is no need for x-axis gridlines as values are labelled with text at end of bars.



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Connected Dot

Plot:

Colour Order

1

2



Line Colour

1



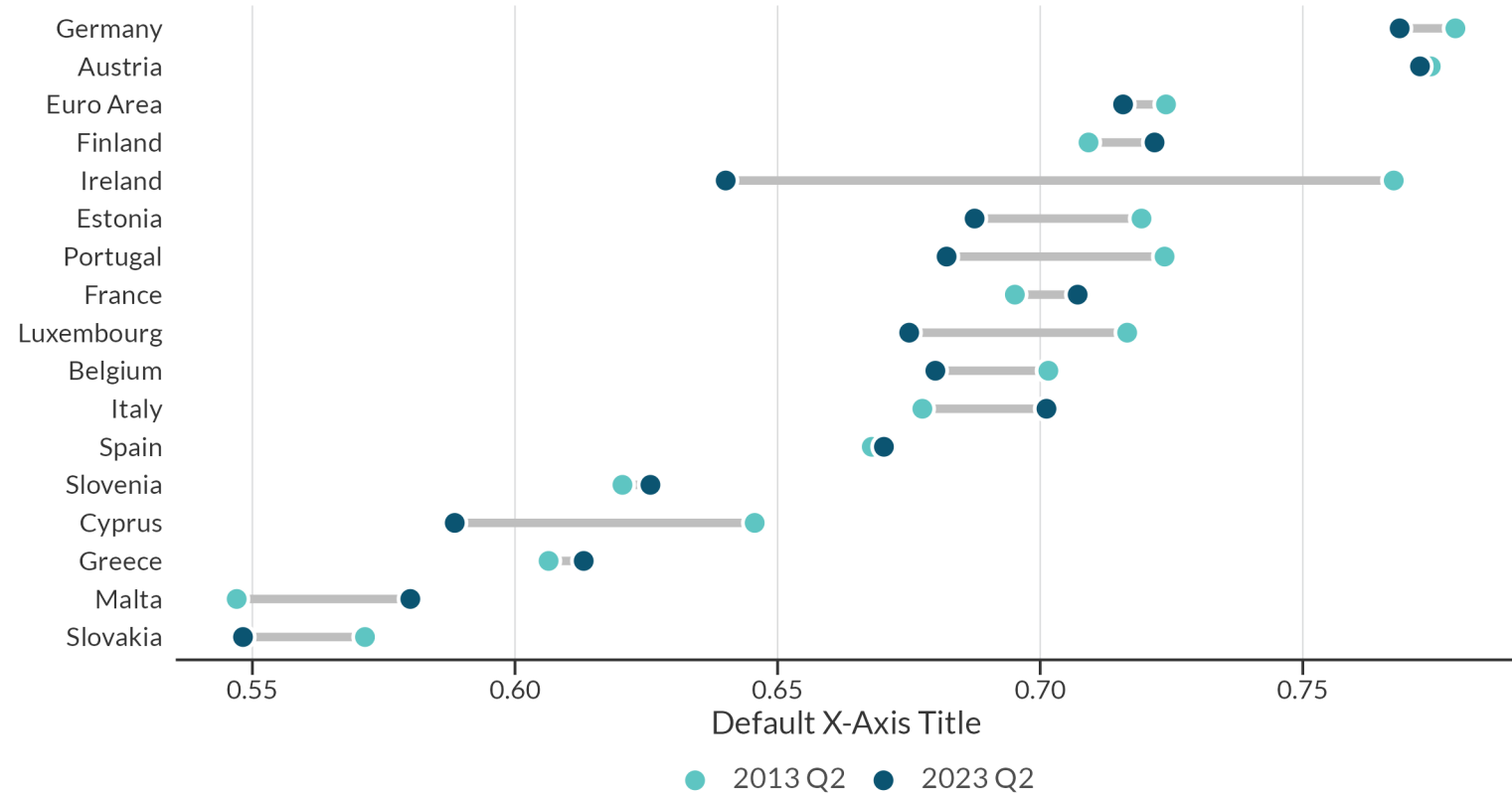
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2 Colours

Default Chart Title

Default Subtitle



Donut Charts:

Colour Order



“Other” Colour

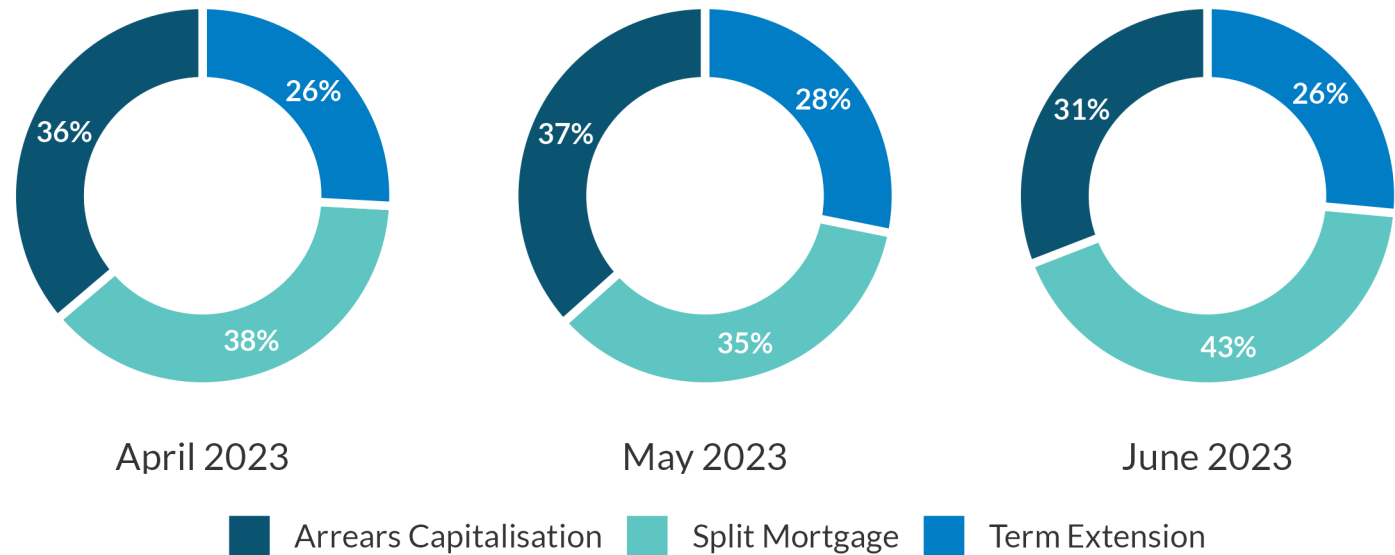


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3 Colours

The proportion of PDH accounts with **Term Extension** Has Remained Constant From End-April to End-May (26%)

Restructured PDH Mortgage Accounts By Restructure Type

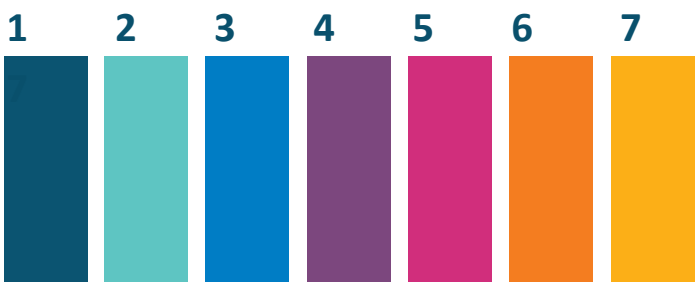


Donut Charts:

3 Colours + “Other”

The proportion of PDH accounts with **Split Mortgage** Has Risen from 22% at End-April to 29% at End-May
Restructured PDH Mortgage Accounts By Restructure Type

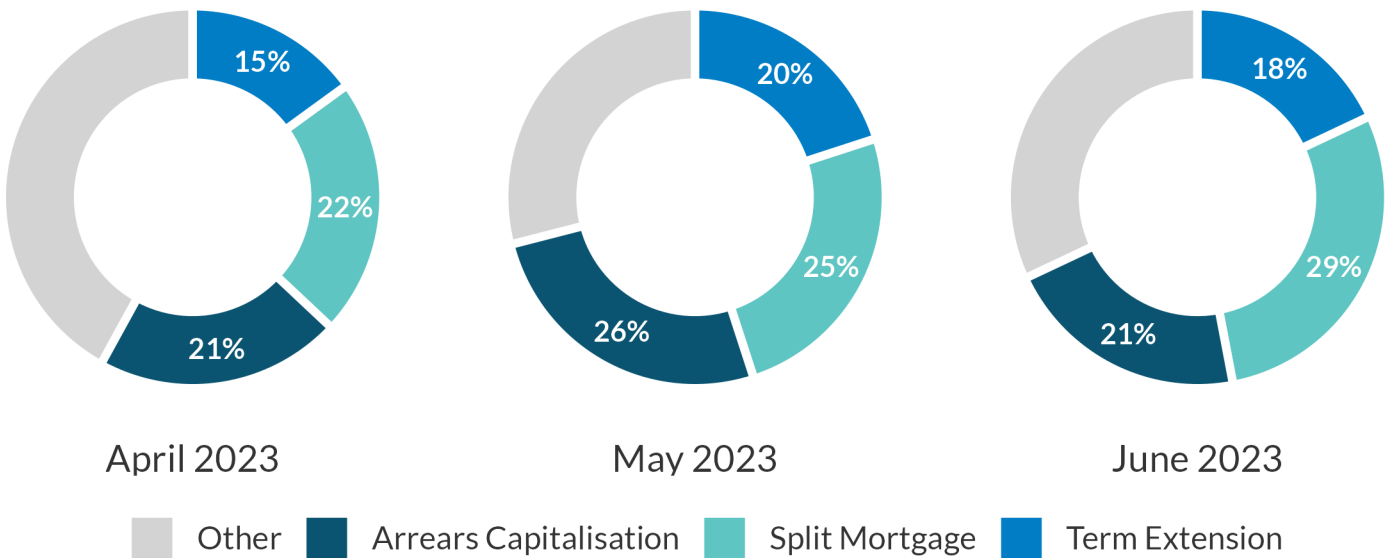
Colour Order



“Other” Colour



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Pie Charts:

Colour Order



“Other” Colour

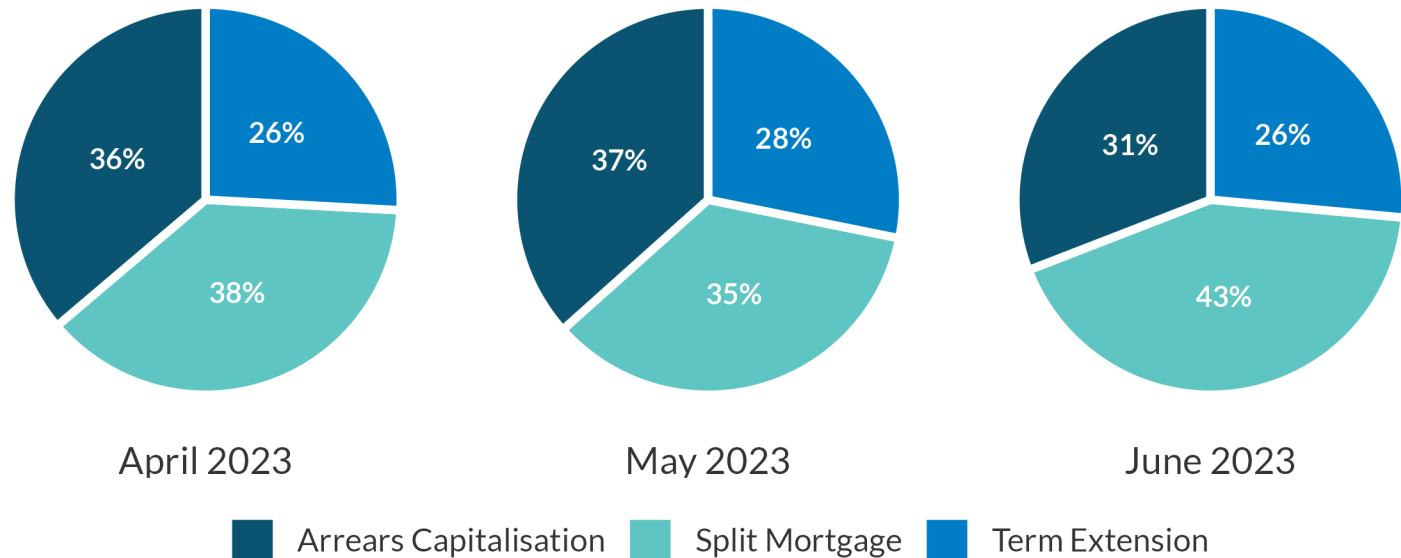


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3 Colours

The proportion of PDH accounts with **Term Extension** Has Remained Constant From End-April to End-May (26%)

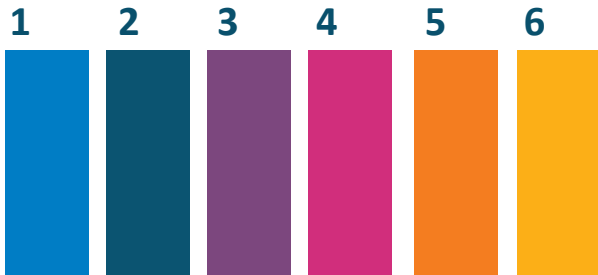
Restructured PDH Mortgage Accounts By Restructure Type



Waffle Charts:

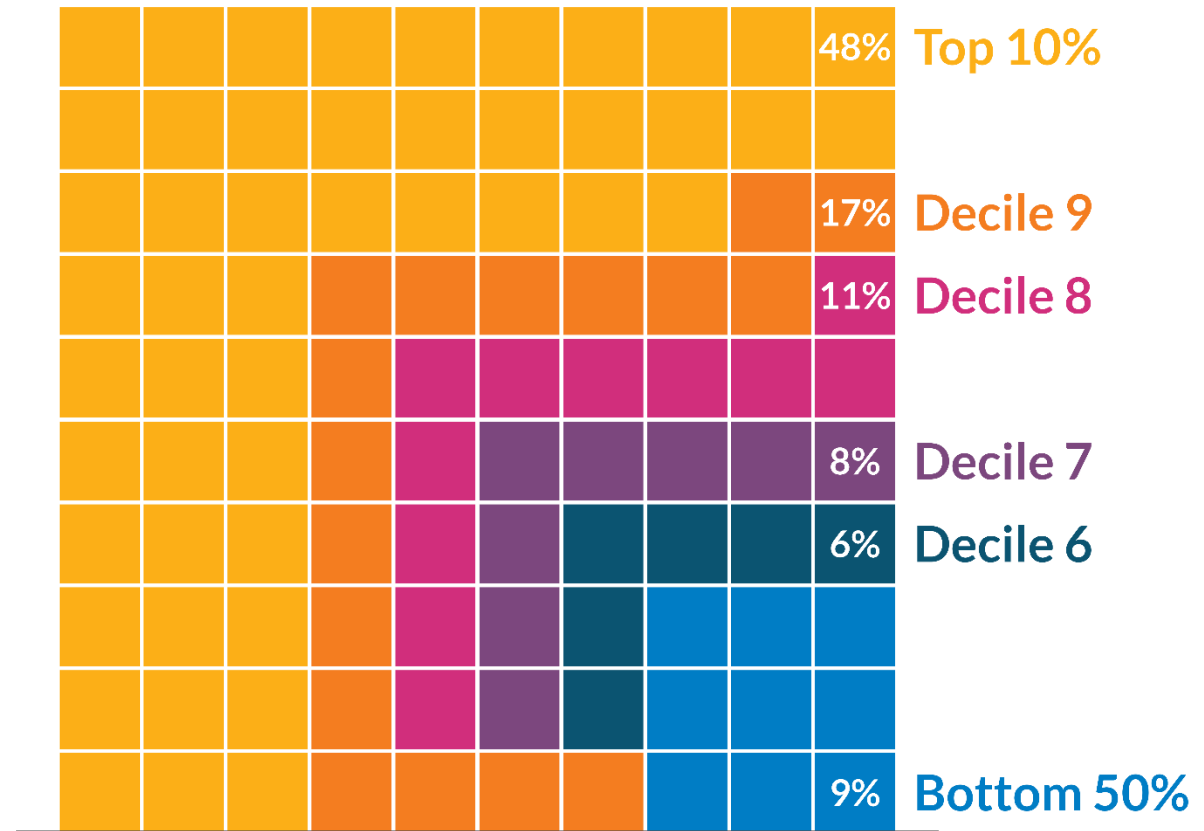
6 Colours

Colour Order



Ireland Sees 48% Of Total Net Wealth Controlled By
...The **Top 10%** of People in 2023 Q2

Ireland – Total Net Wealth By Deciles



Total Net Wealth Proportion in 2023 Q2



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