

# Rental price statistics: Impact analysis and readiness assessment

## Advisory Panels on Consumer Prices

Joint session, 27 October 2023

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# Aims:

- Recap of methods and details of proposed improvements to private rental prices methods
- Indicative impact of including these new indices in RPI, CPI and CPIH
- Assessment of readiness for implementation into live production

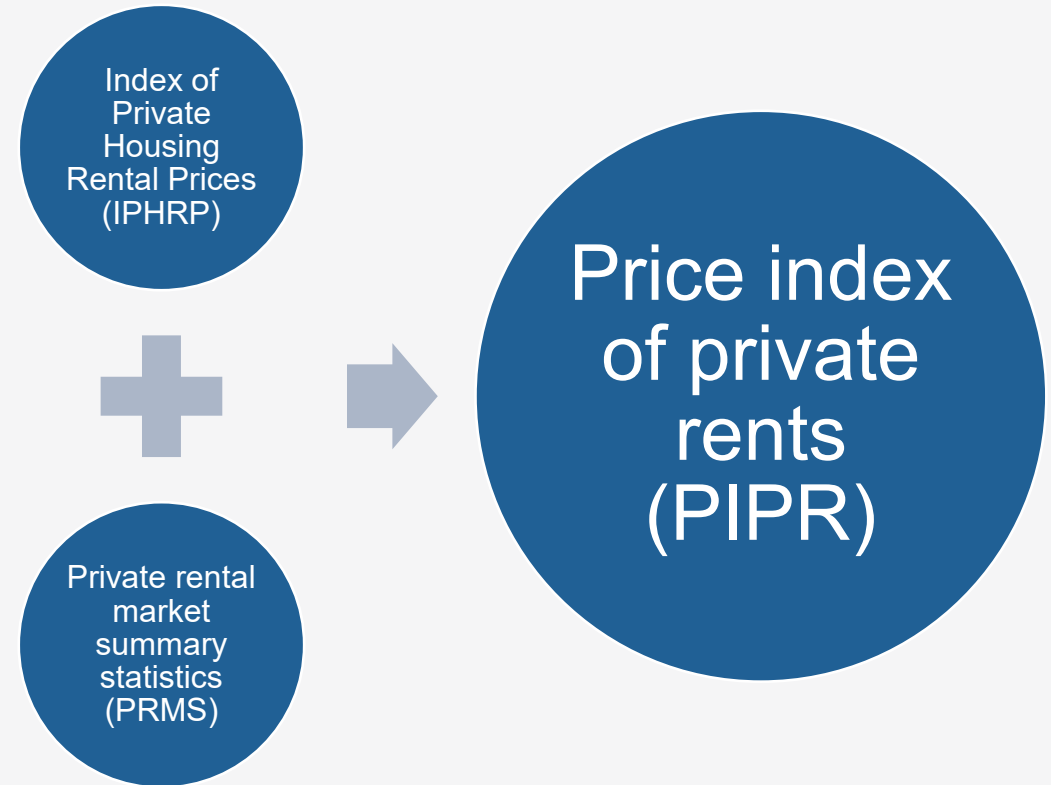
# Some things to note upfront:

- These changes are being proposed for CPIH and CPI primarily, **however**, subject to a “go” decision in November we will also be proposing these changes for the RPI following the protocol as laid out in section 21 of the SRA 2007
- There are still some residual amendments we need to make to our price level statistics, however the data that you see today are not impacted by these

# Recap of data and methods

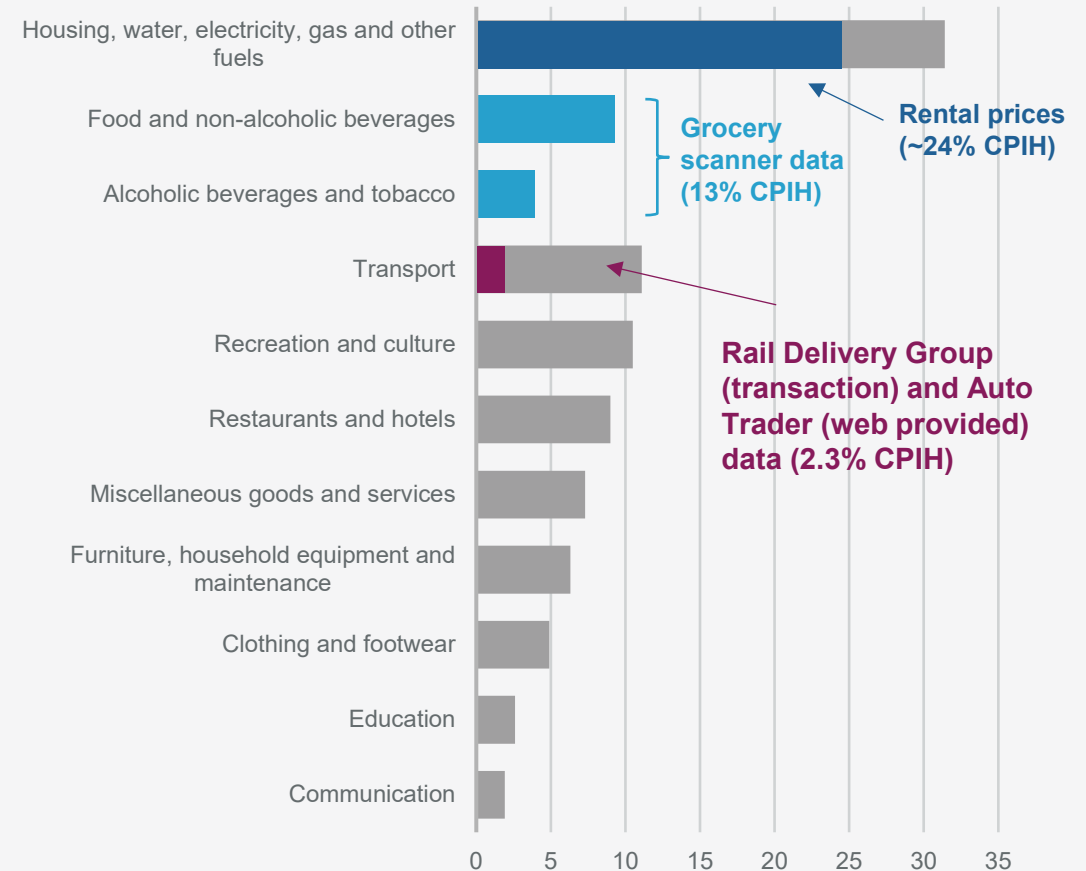
# Project Aim:

Transforming our private rental prices' statistics, including making better use of existing data sources, improving methods, and developing systems

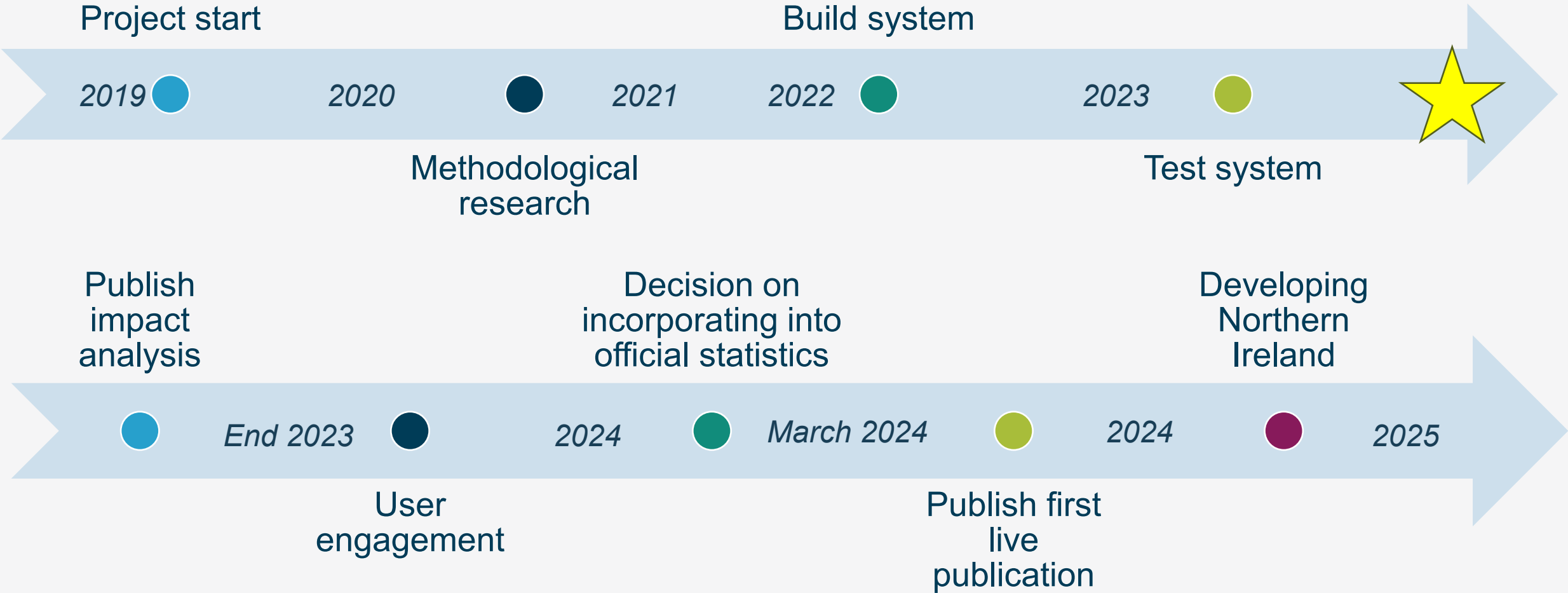


# Why are we changing

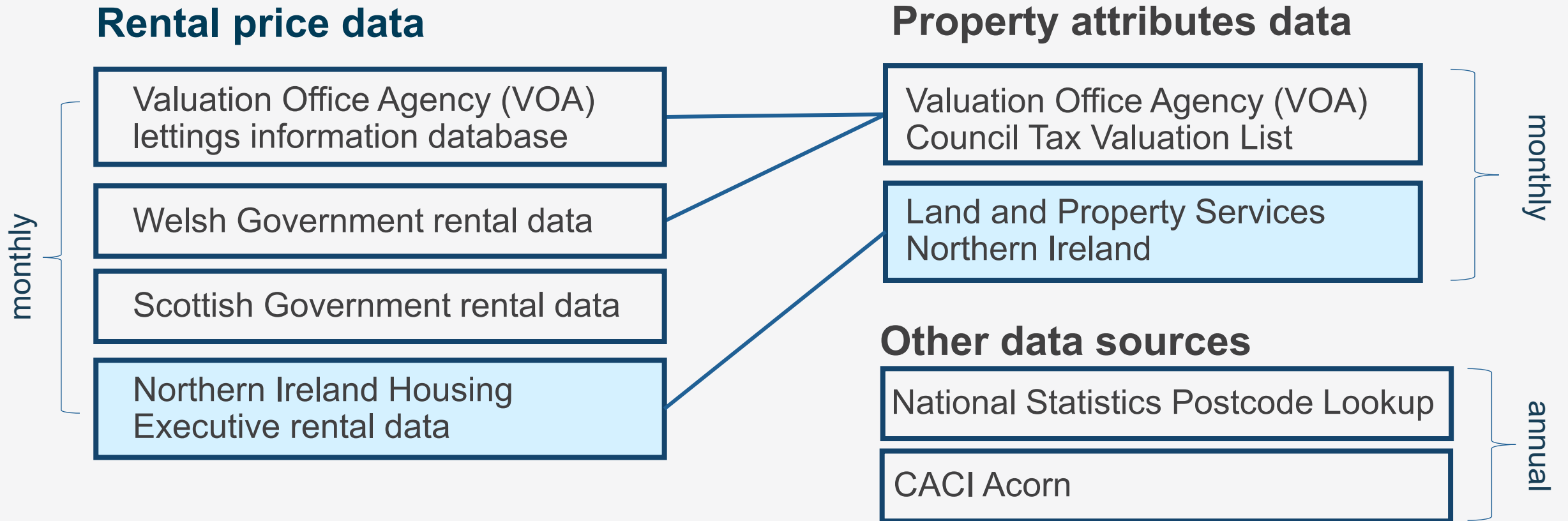
- Improving rental price statistics – greater trust in our rental price statistics and their use in headline inflation
- Produce more granular statistics – a key ask by users (e.g., by lower geography level)



# Timeline



# Linking several administrative data sources





# Methodology overview

## IPHRP

- Matched pairs approach
- Splits data into a sample and substitution pool
- Region-level analysis



## PIPR

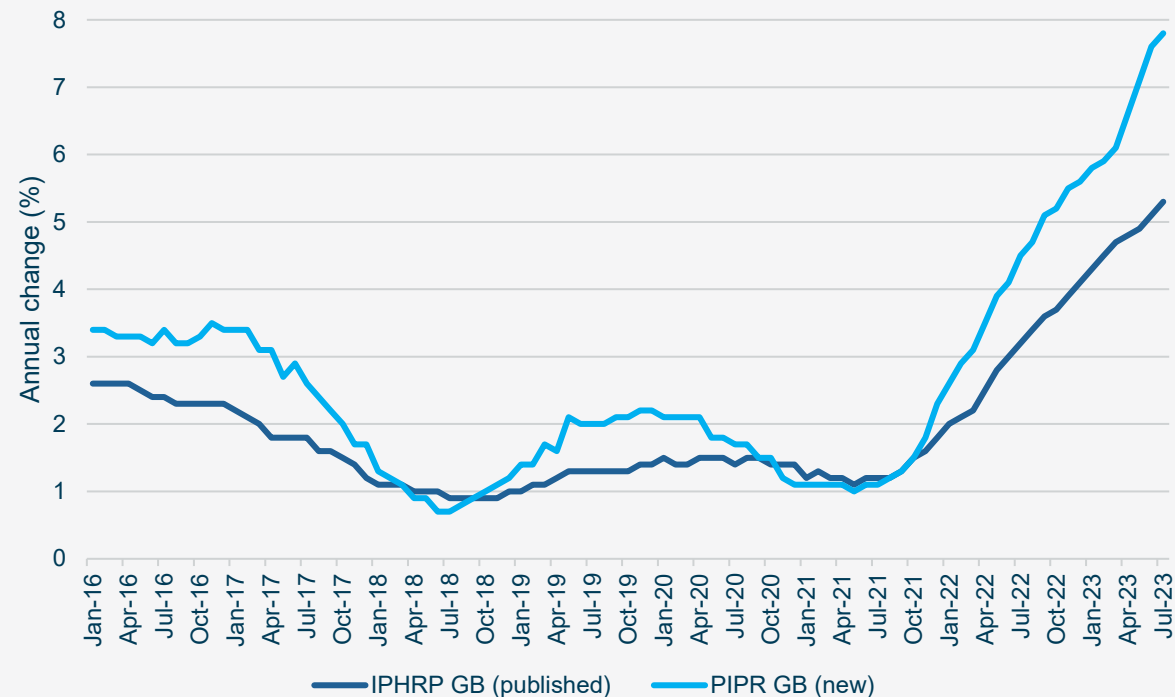
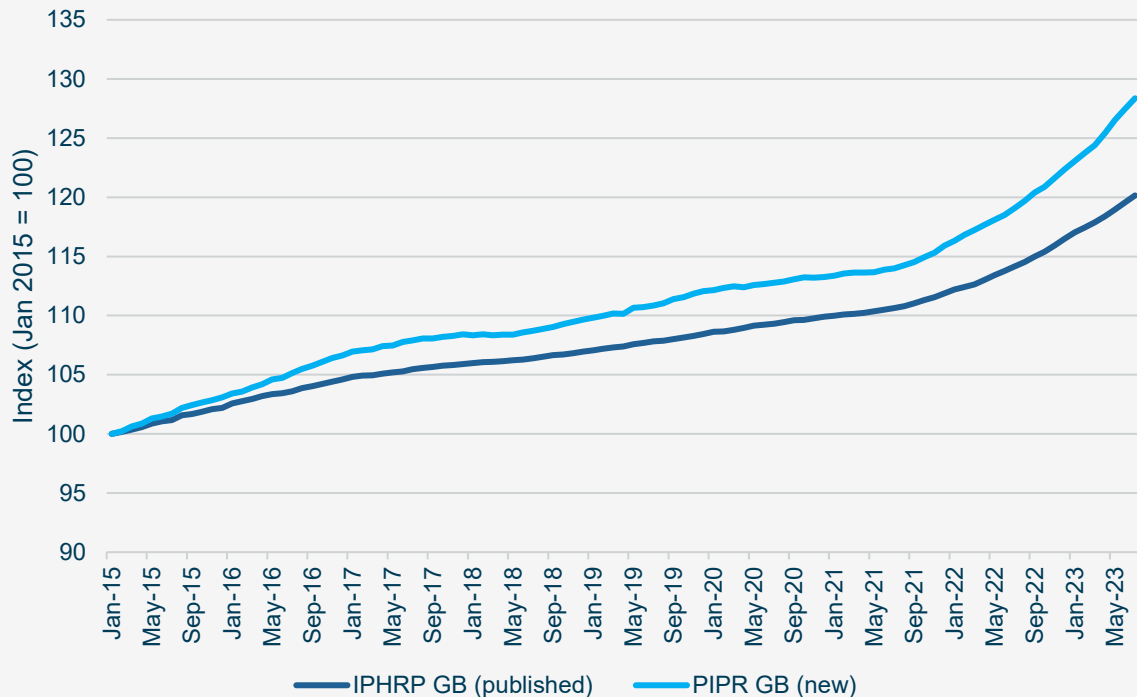
- Hedonic regression model
- Uses all data
- Local authority/BRMA-level analysis

# Impact analysis

# Rents data

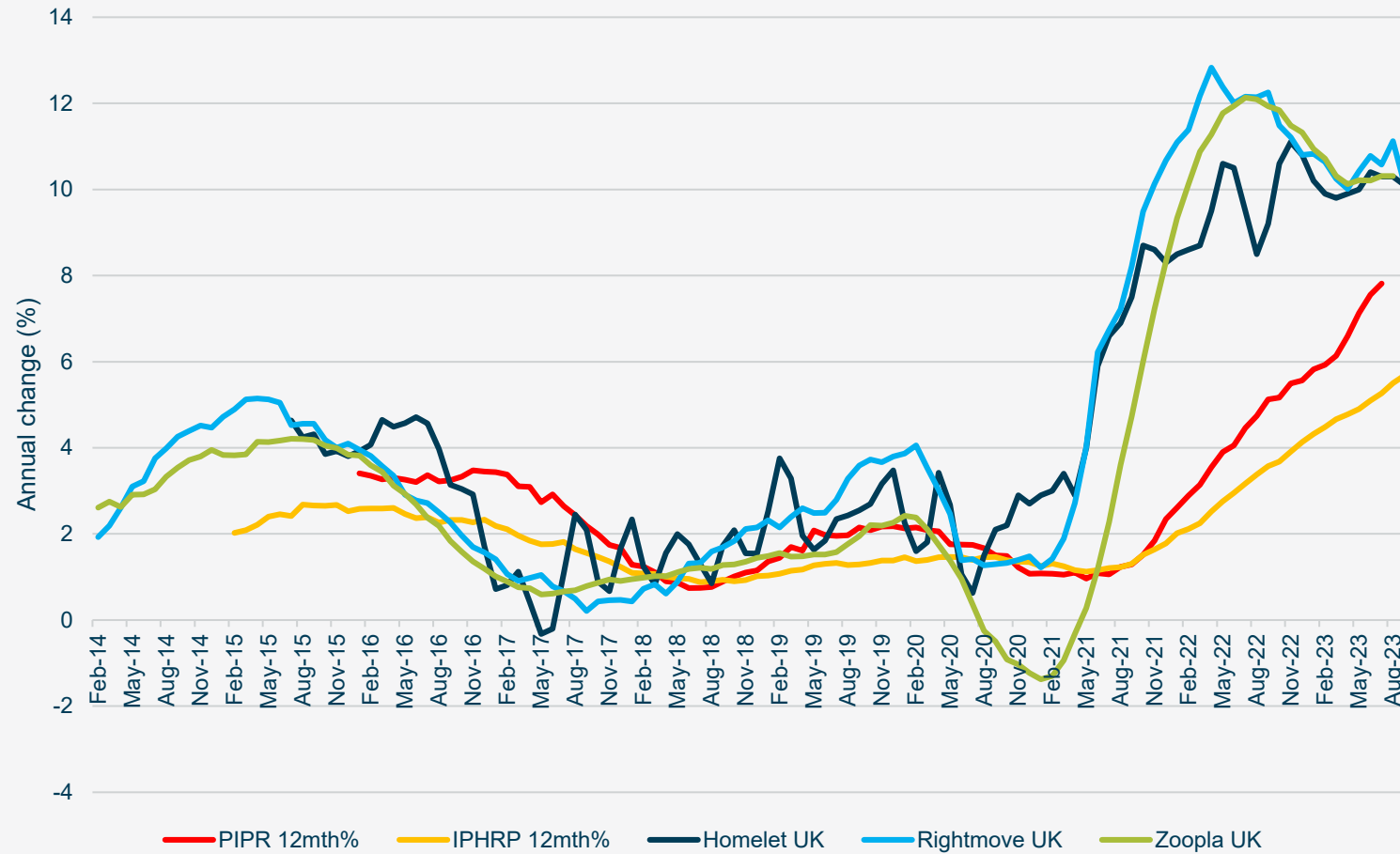
***This contains provisional outputs from the Price Index of Private Rents (PIPR). The full impact analysis, containing finalised outputs, was later published on ONS' website on 1 December 2023, which included additional analyses and more recent data.***

# IPHRP vs PIPR: Great Britain



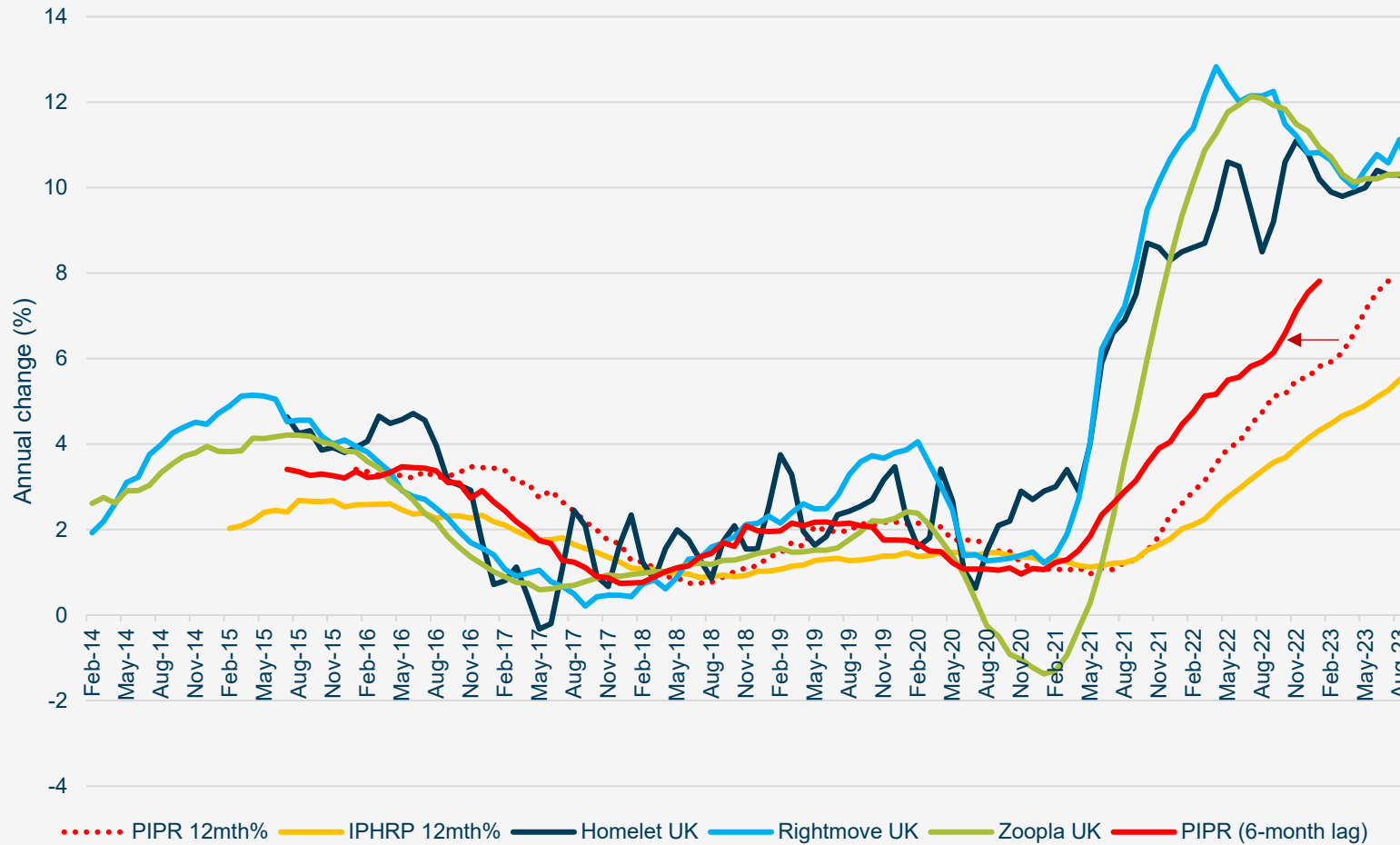
# Official Sensitive

## Comparison to private sector measures



# Official Sensitive

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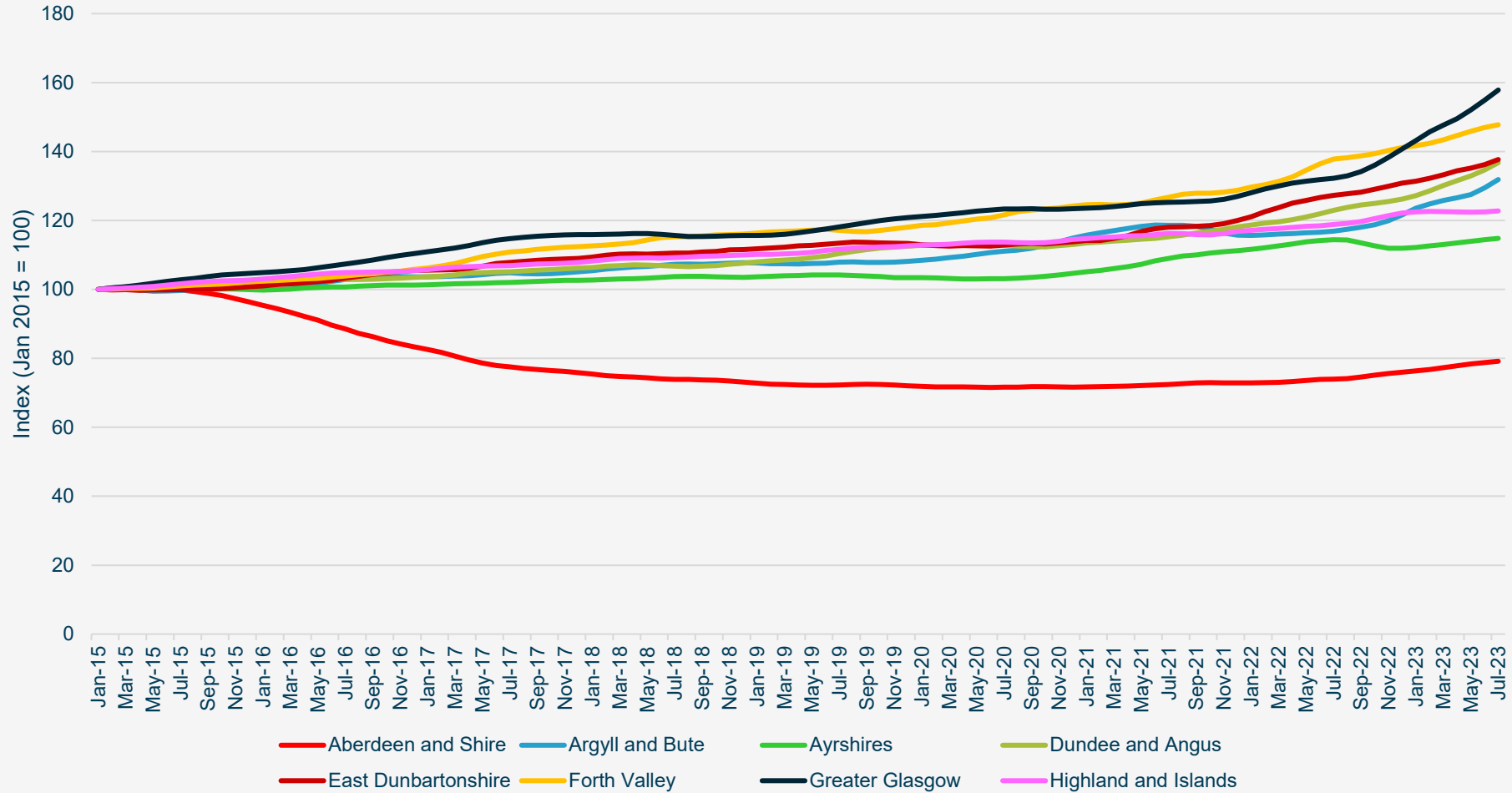


# New information about the rental market

To meet user needs we can now provide data on:

- Local authority indices
- Indices by property type and bedroom category
- Price levels comparable over time

# Local authority level data

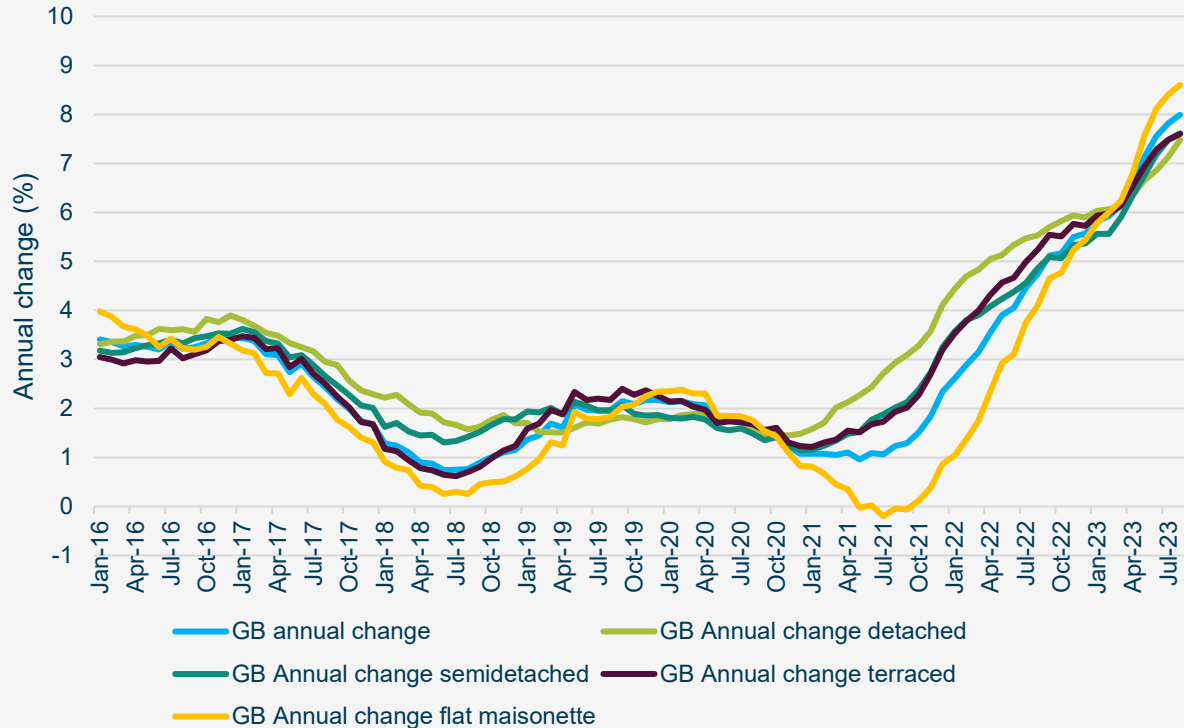




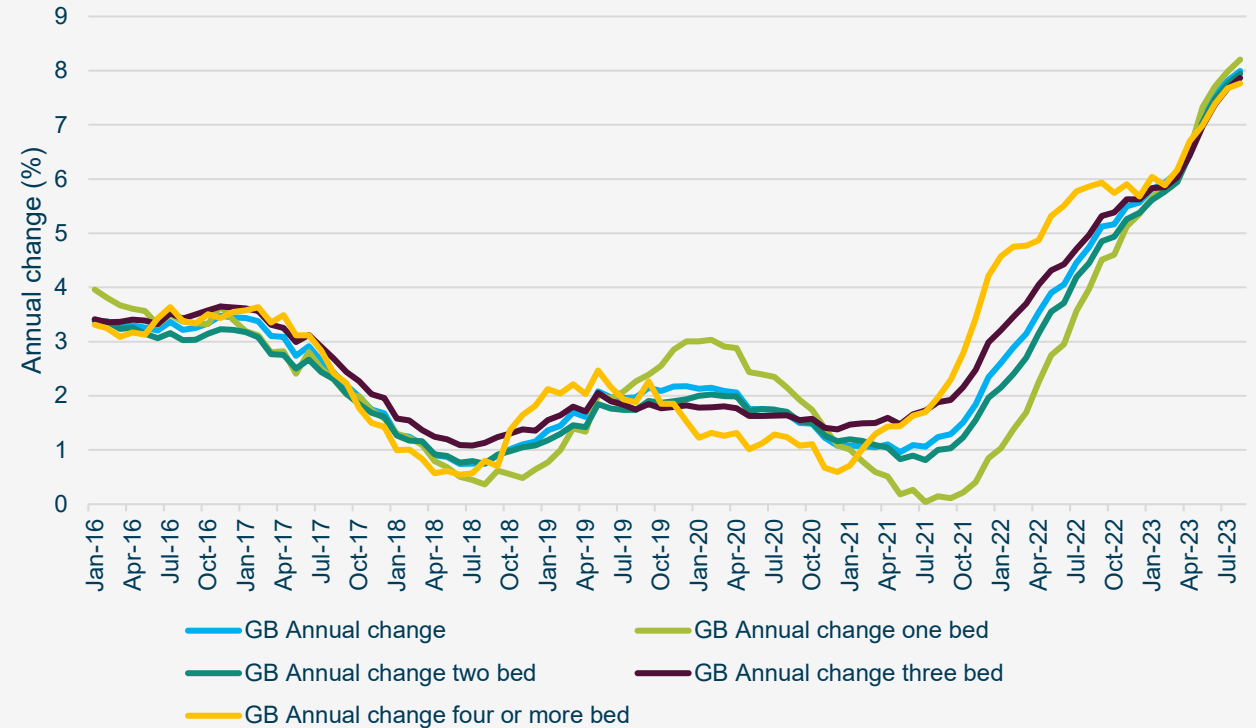
# Official Sensitive

## We can now provide greater breakdowns

### GB by property type



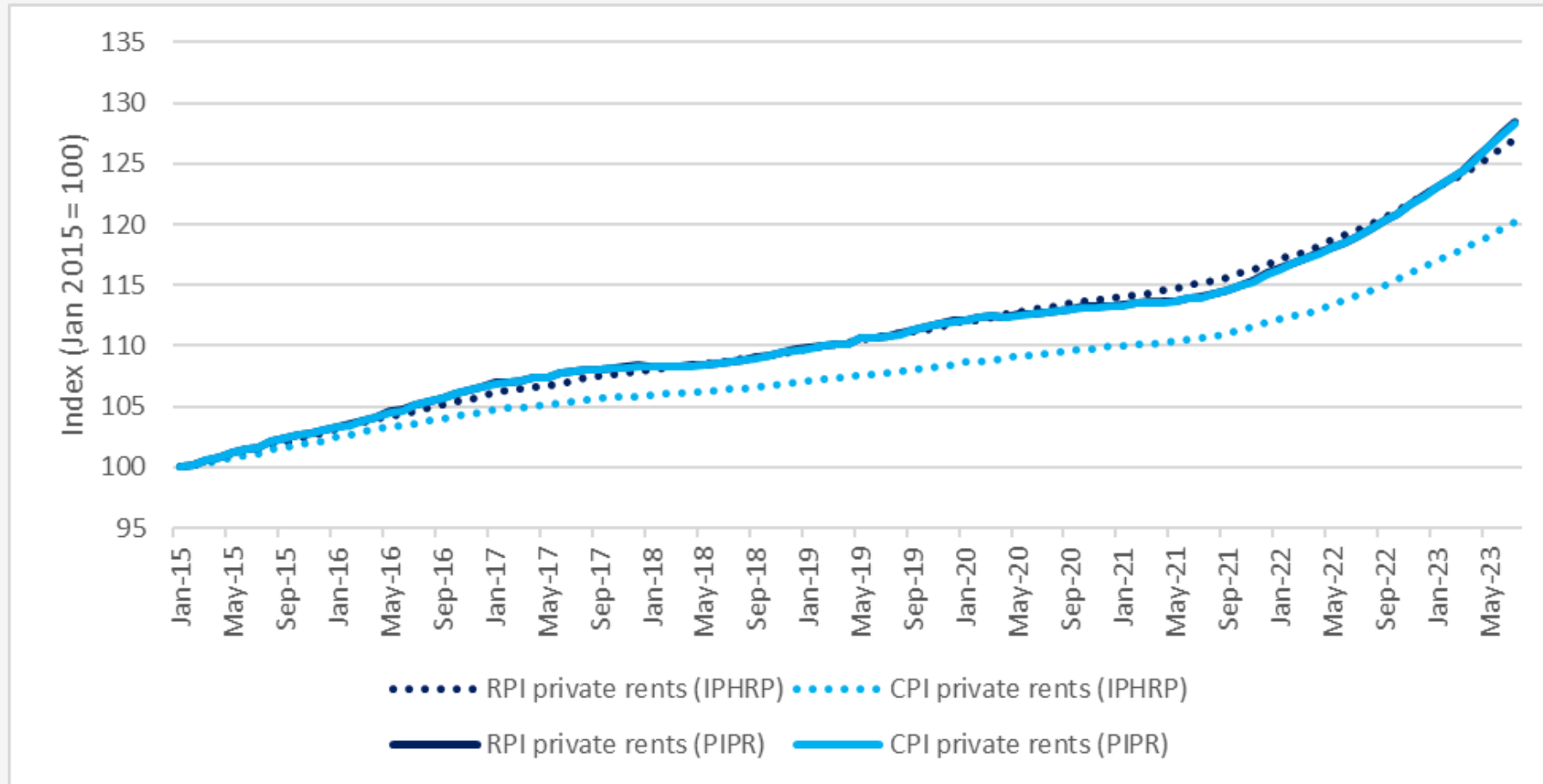
### GB by bedroom category



# Carli (RPI) and Jevons (CPI)

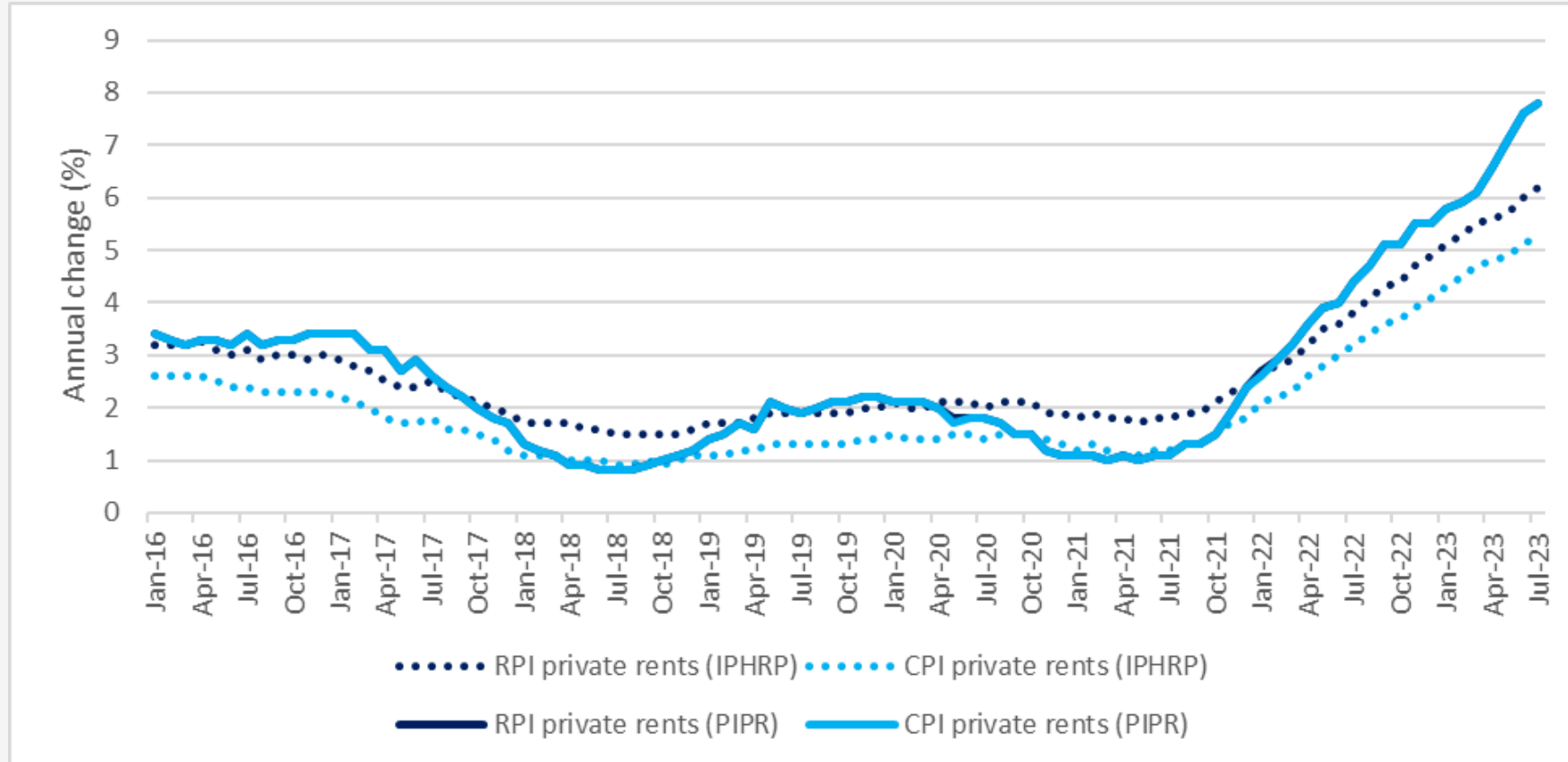
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# Differences between Carli and Jevons: index



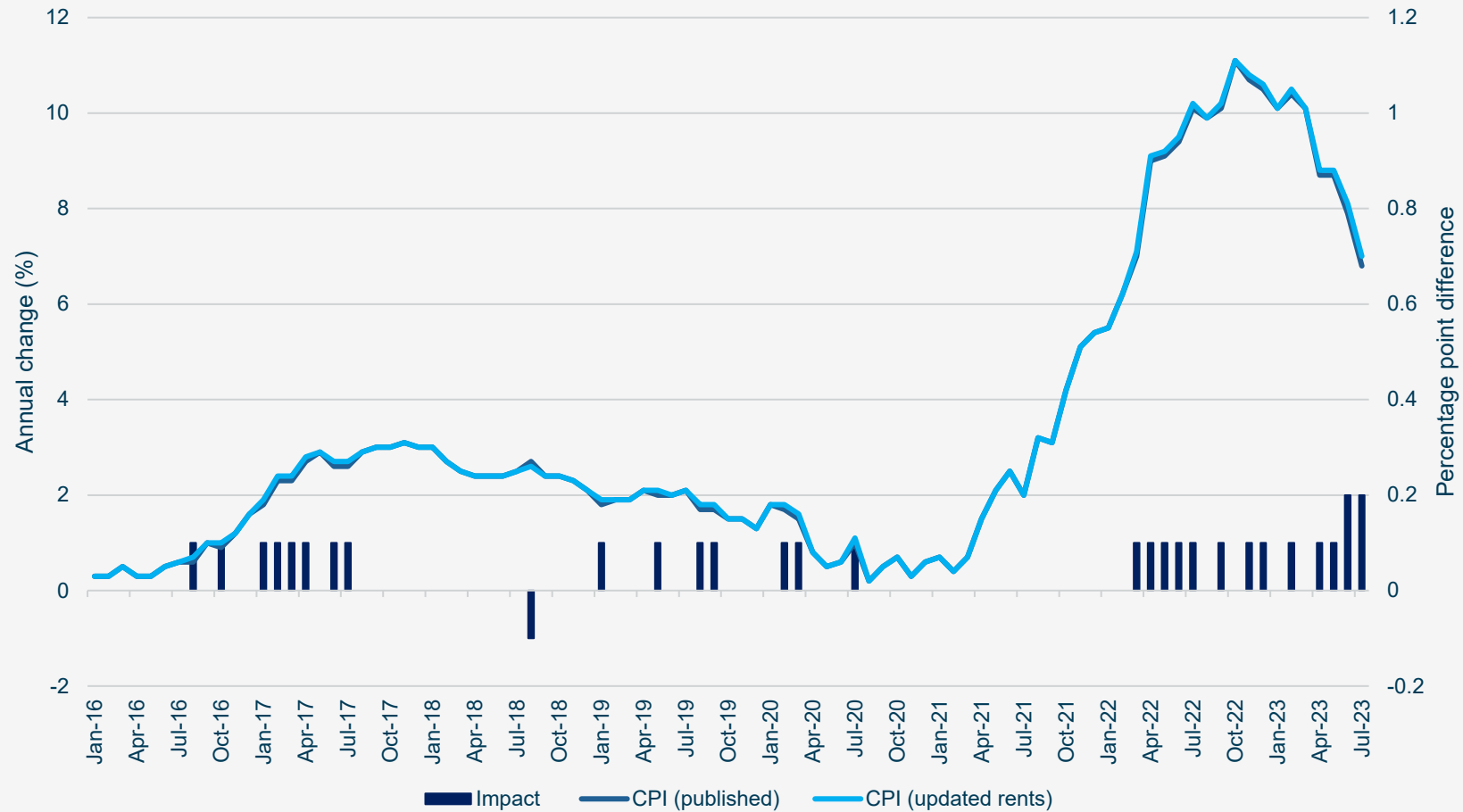
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# Differences between Carli and Jevons: annual change (1dp)

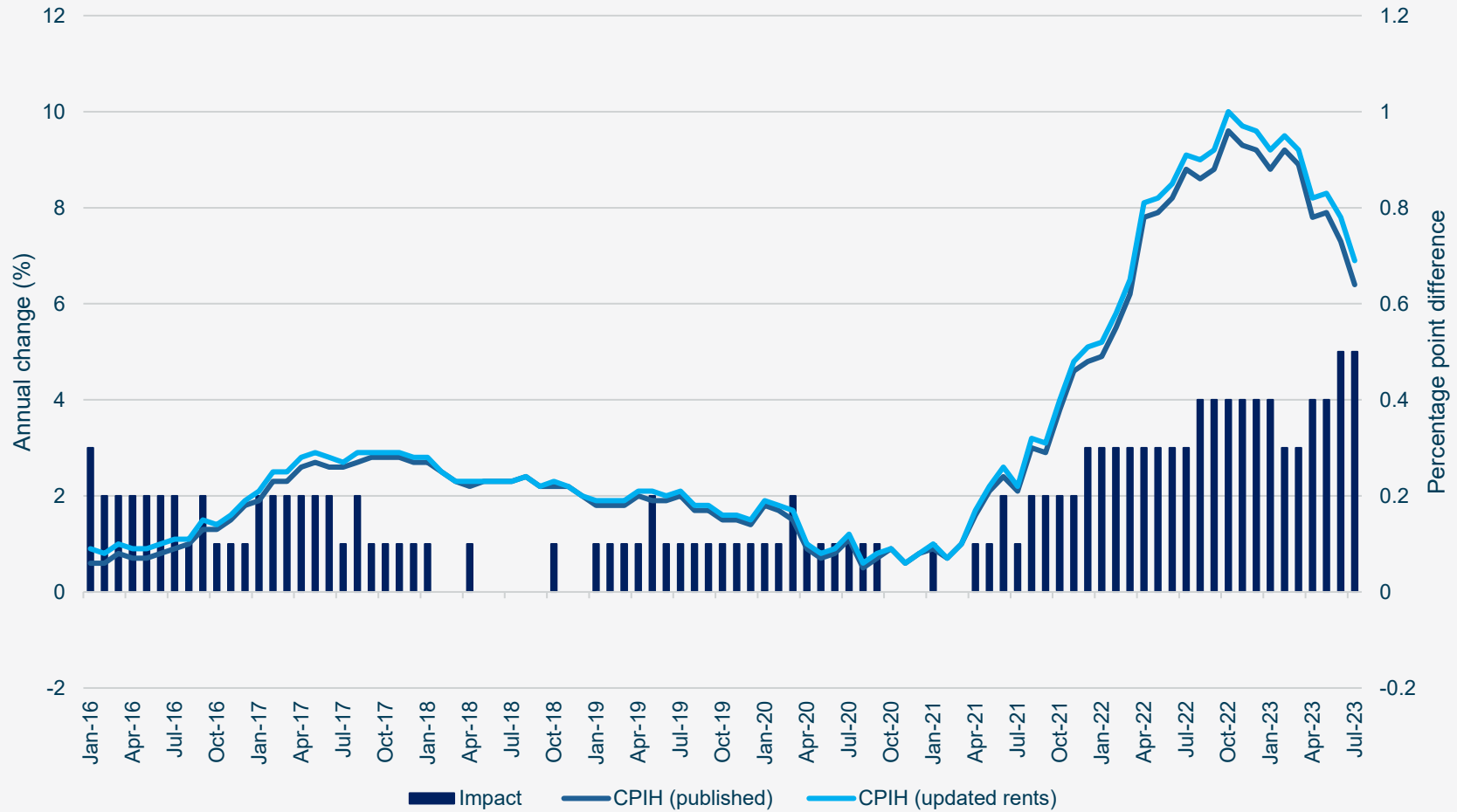


# Impacts on inflation statistics

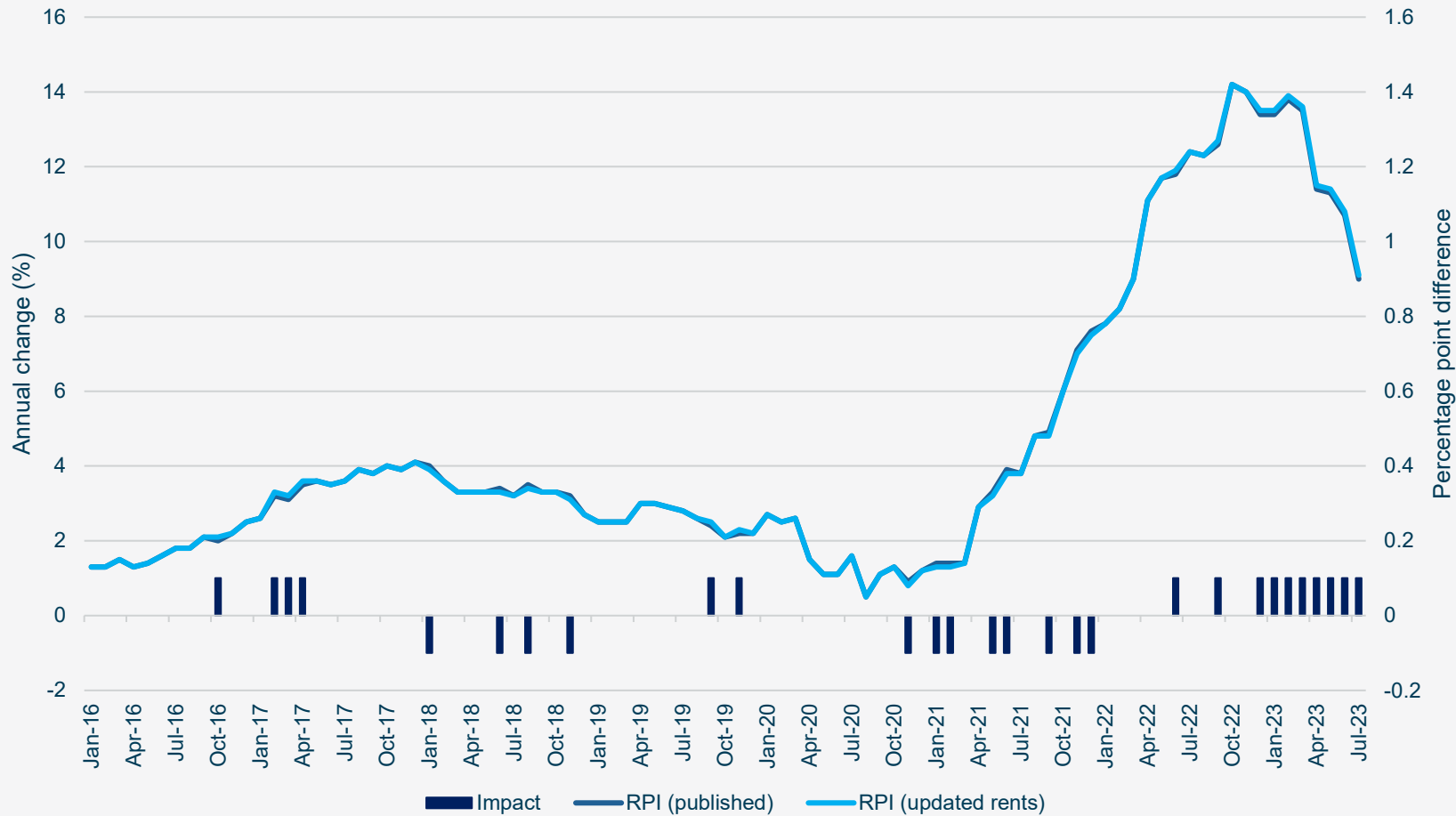
# Impact to CPI



# Impact to CPIH



# Impact to RPI





# Readiness assessment

# Key points

- We have made monumental progress towards transforming Rental price statistics using new data and methods
- We are satisfied with the quality of our indicative impact analysis and do not expect these figures to change significantly
- **However**, there are some small remaining challenges before we implement these data into live production, e.g., Price levels and user engagement

# Five areas of consideration for go live decision

- Data
- Methods
- Systems
- Processes
- User engagement & readiness

# Data

- The data feed remains the same as what has been used in the IPHRP since the end of 2019
- We've successfully run a historical back series
- Ongoing quality monitoring in place including curiosity sessions to:
  - Interrogate the data
  - Compare outputs from PIPR with outputs from IPHRP
  - Familiarise the production team with the data and understand the changes in the data

Status: Amber/Green

# Methods

- The new methodology will use a hedonic regression model like the approach used to calculate the UK House Price Index.
- We researched existing methodologies used for rental prices statistics before developing our future methodology
- We have engaged with stakeholders (such as the Advisory Panels for Consumer Prices), international experts in property price statistics, and have also worked closely with ONS methodology experts to quality assure multiple aspects of the methodology

Status: Amber/Green

# Methods

- An internal review has taken place by the Analysis Standards and Pipelines team (ASAP). ASAP is part of the Quality and Improvement Division in ONS. Their advice will form part of our go/no-go decision.
- We have reviewed the methodology against a Time Dummy Hedonic Regression which has produced very similar results
- There are continued discussions on the methodology and its appropriateness with Scottish Government

Status: Amber/Green

# Systems

- We have built a fully tested reliable and sustainable system
- Parallel run on the new system will commence in November
- Due to issues with complexity of Northern Ireland's data, we made the decision to postpone the implementation of this until March 2025
- In 2024 (post go-live), there will be a DAP to cloud migration, which we are in conversations with our IT department on implementation

Status: Amber/Green

# Processes

- Extensive training, desk instructions and knowledge transfer to the business area to ensure they feel ready for this change and encourage regular feedback following training sessions
- We conducted a readiness survey at the beginning of the year and have since sent a follow up. We have received positive responses agreeing that the business area are ready for the change and feel that they have had or will have had sufficient training before the change takes place.

**Status: Green**



# User readiness

- Teach-ins planned with different government departments
- Regular [updates to the APCPs](#)
- Regular OSR meetings
- Regular updates to our [development plan and timeline](#)
- Presented at user events e.g., [Welsh Government Housing Information Group](#)
- Planning our stakeholder engagement alongside our impact analysis release in December
- Continued engagement with users, including the devolved administrations

Status: Amber/Green

<b>Proposal:</b>	<b>Timings:</b>
<p>Conditional <b>go live</b> decision, provided:</p> <ul style="list-style-type: none"><li>• No significant issues have been raised by stakeholders and users</li><li>• APCP-S raise no serious user concerns</li><li>• APCP-T raise no serious method concerns</li></ul>	<ul style="list-style-type: none"><li>• Advisory Panels feedback: <b>27 October 2023</b></li><li>• Internal go/no-go decision: <b>15 November 2023</b></li><li>• Publish impact analysis on <b>1 December 2023</b></li><li>• Final decision point <b>February 2024</b></li><li>• Update users on final decision in <b>February 2024</b></li><li>• Change implemented from February 2024 onwards, first published in <b>March 2024</b></li></ul>

# Discussion

Members of the Advisory Panels are invited to:

- Advise on the acceptability of introducing these new data, methods, systems and processes for rents into live production in 2024, with a particular focus on **user readiness (APCP-S)** and **methods readiness (APCP-T)**.
- Advise on user engagement ahead of the go-live