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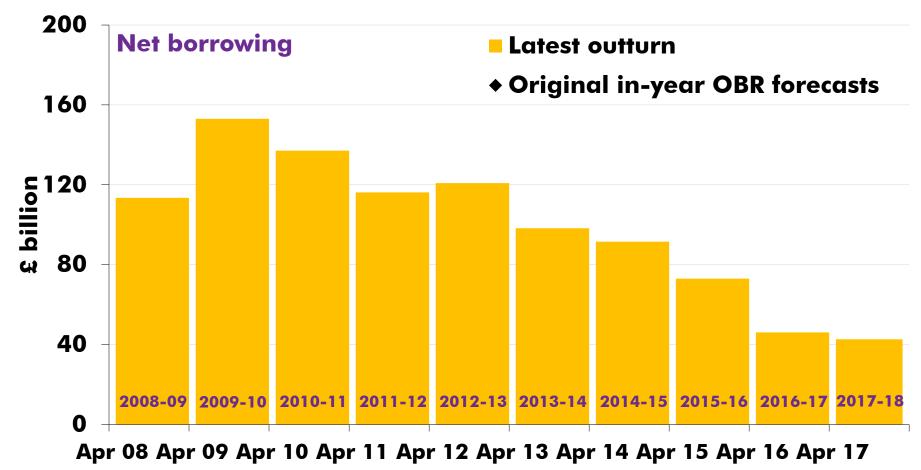
#### Fiscal forecasting: the in-year challenge

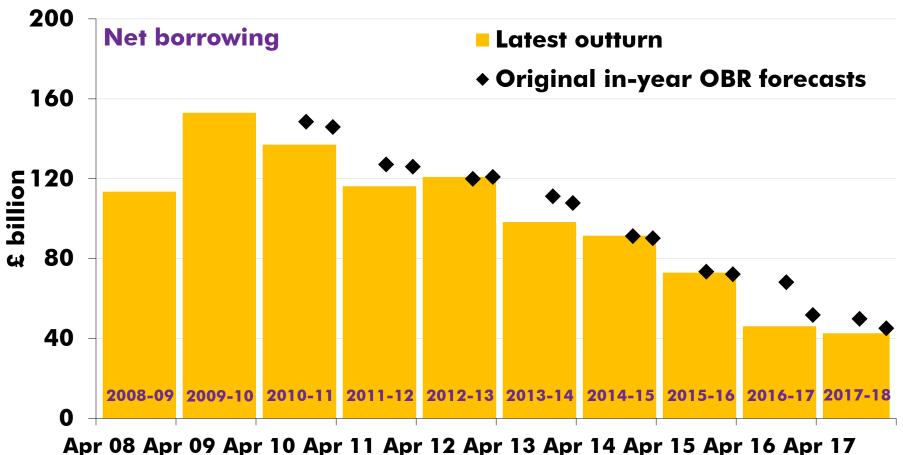
Robert Chote Chairman

Society of Professional Economists 28 September 2018

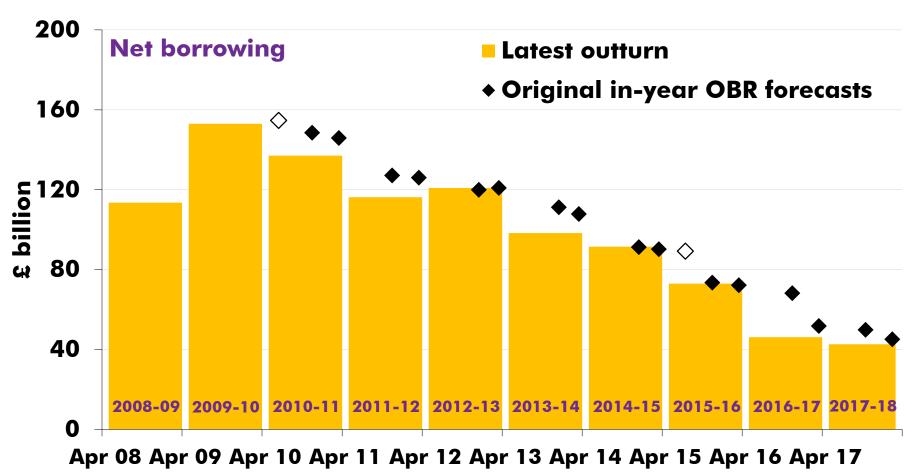
# Background

- In-year fiscal forecasts and monitoring matter
  - To market participants interested in government debt issuance
  - As the 'jumping-off point' for our medium-term forecasts
- So today I will discuss
  - How we produce in-year forecasts
  - Some of the challenges in tracking public finances in-year
  - Our performance to date and lessons
- More detail here:
  - <u>http://obr.uk/in-year-fiscal-forecasting-and-monitoring</u>

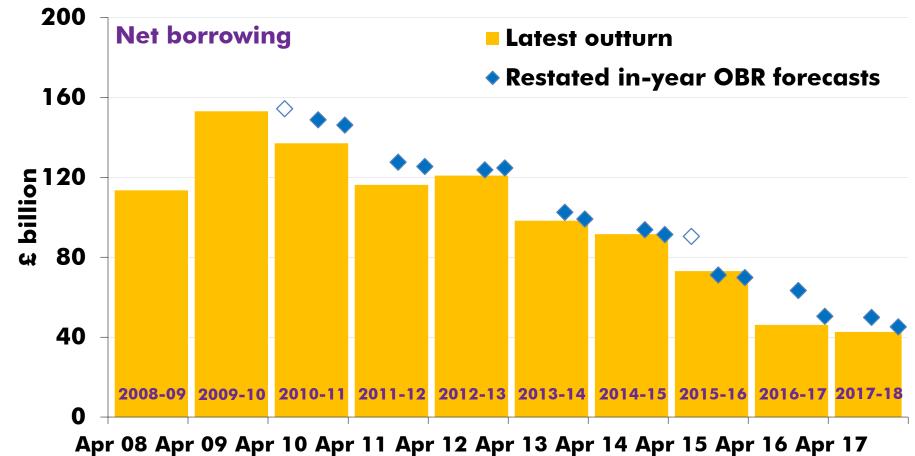




Date of forecast



Date of forecast



## Like-for-like adjustments

- Classification changes in/out of public sector
  - Royal Mail Pension Plan
  - Bradford & Bingley
  - Housing associations
- Treatment changes
  - 3G spectrum auction
  - APF cash transfers
  - Tax litigation provision
  - Time-shifting corporation tax payments
- Move to ESA10 and PSF reviews

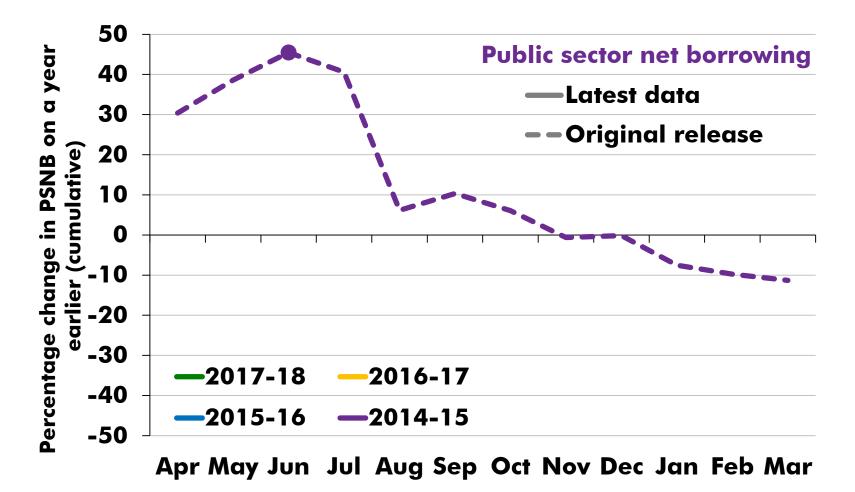
### **Approaches to in-year forecasts**

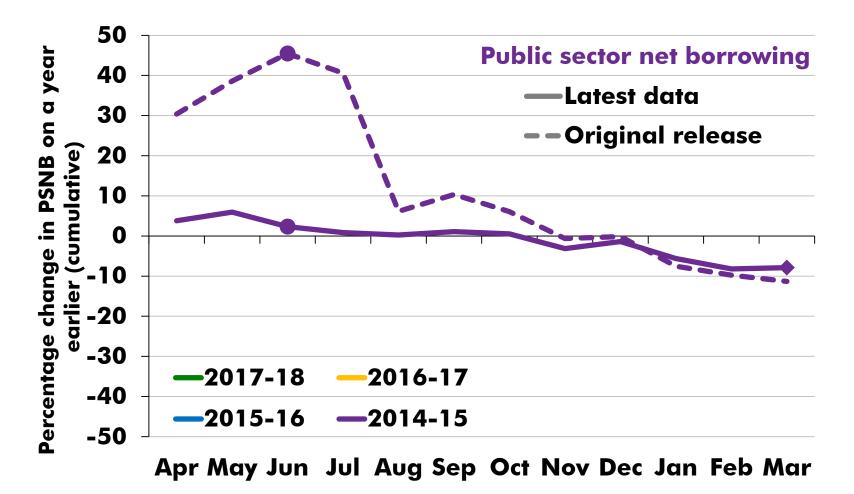
• Extrapolating year-to-date changes

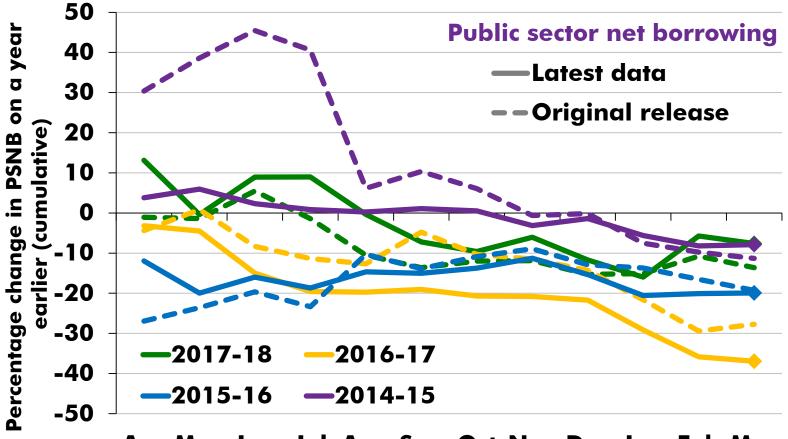
• Comparing historical monthly shares

• Incorporating other factors

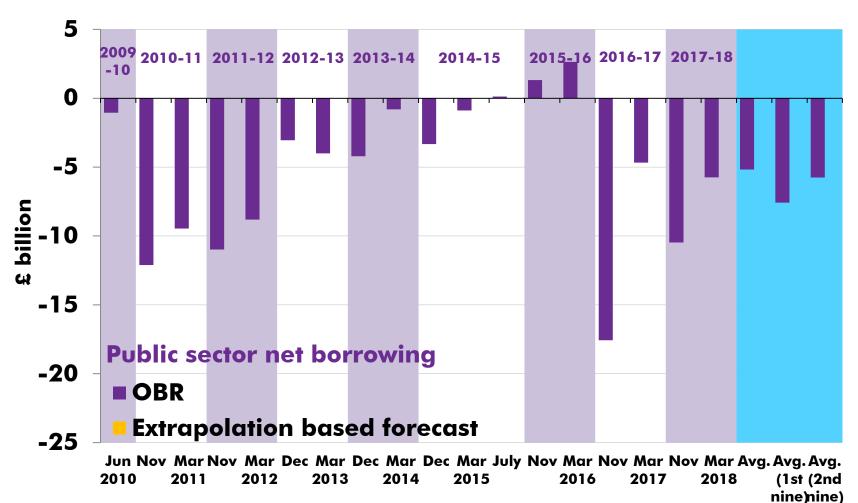
- Look at growth rate over year to date relative to same period last year and apply over full year
- Simple, but
  - Outturn data prone to revision
  - Cashflows spread unevenly and inconsistently
  - Timing and policy can distort current and base year

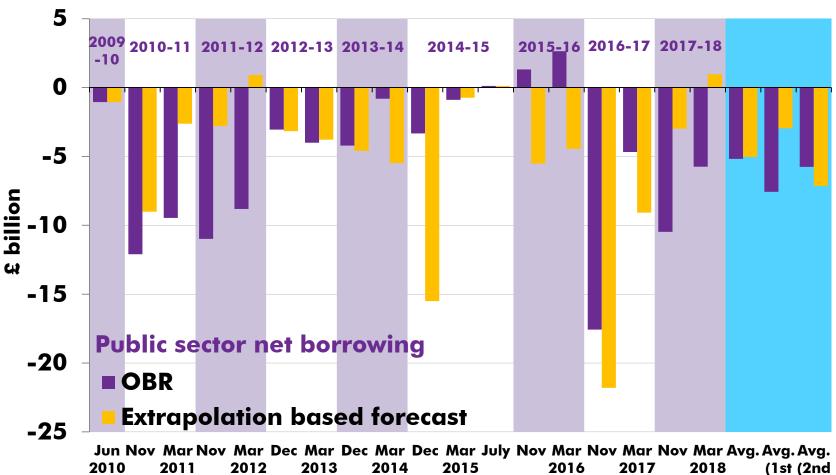






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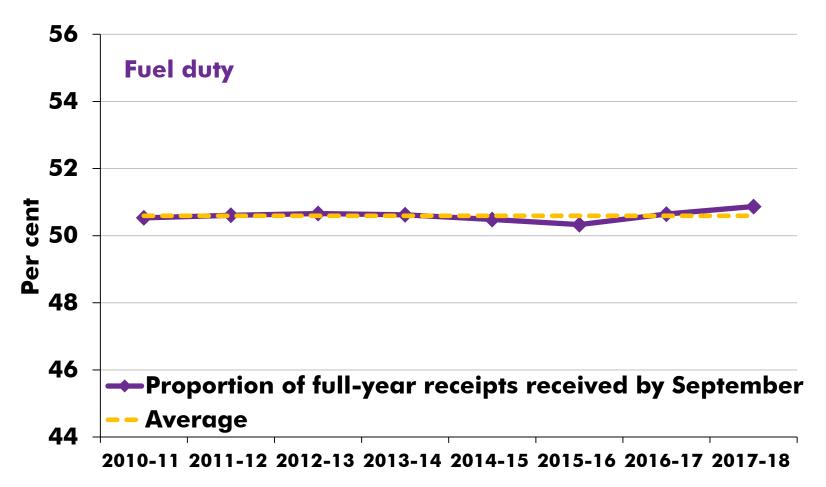




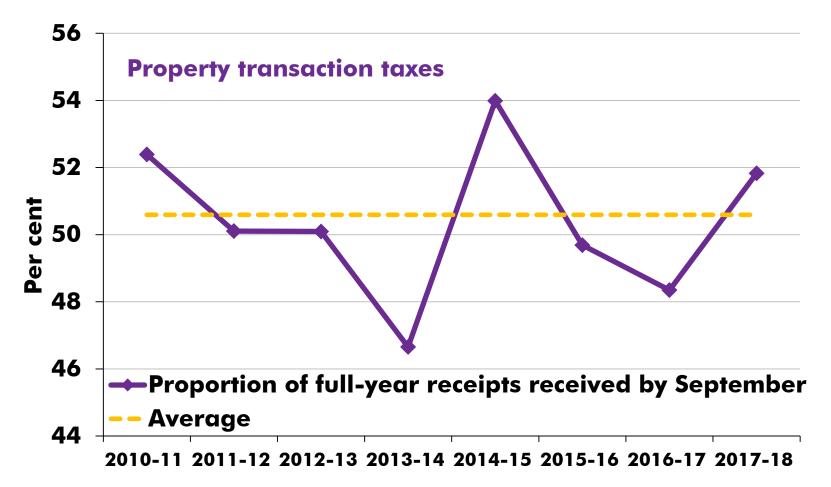
## **Comparing historic monthly shares**

- Scale up a category of receipts or spending year-todate according to the proportion of the full-year total typically recorded at that point in the year
- Simple, and less prone to base-effect distortions
- But depends on stability of monthly distribution
  So difficult when policy changes

## **Comparing historic monthly shares**



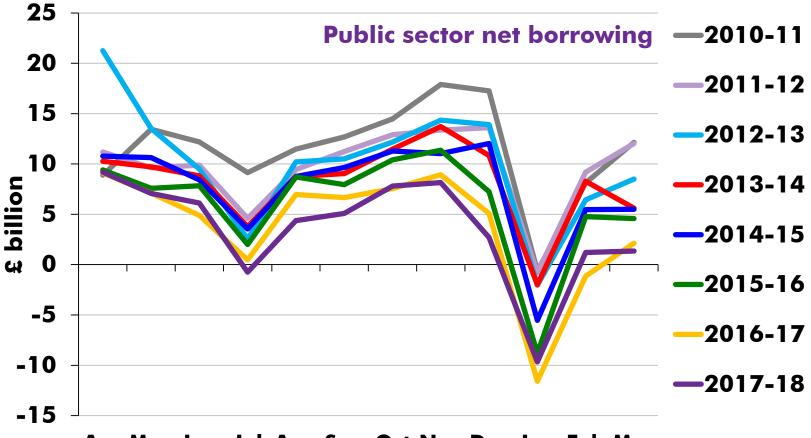
## **Comparing historic monthly shares**



## **Incorporating other factors**

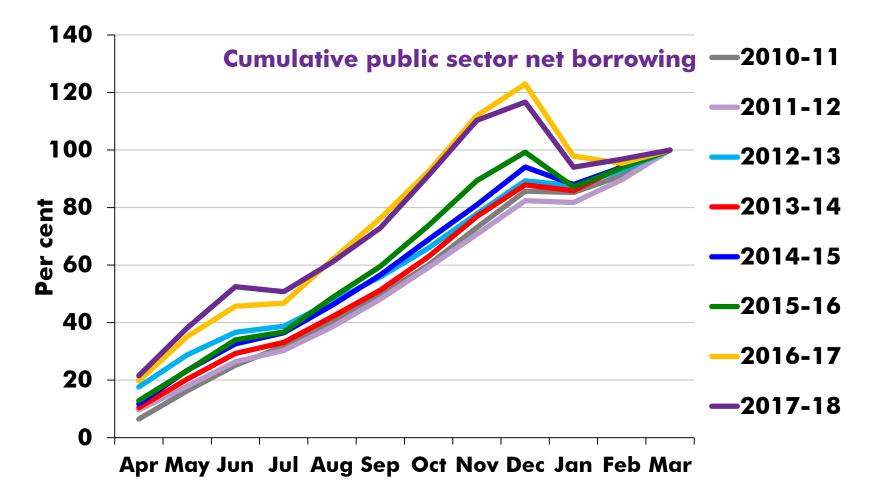
- Near-term economic developments
  - E.g. near-term RPI movements
- Operational factors and timing effects – E.g. date of Easter
- Policy effects
  - E.g. forestalling
- Departmental monthly profiles

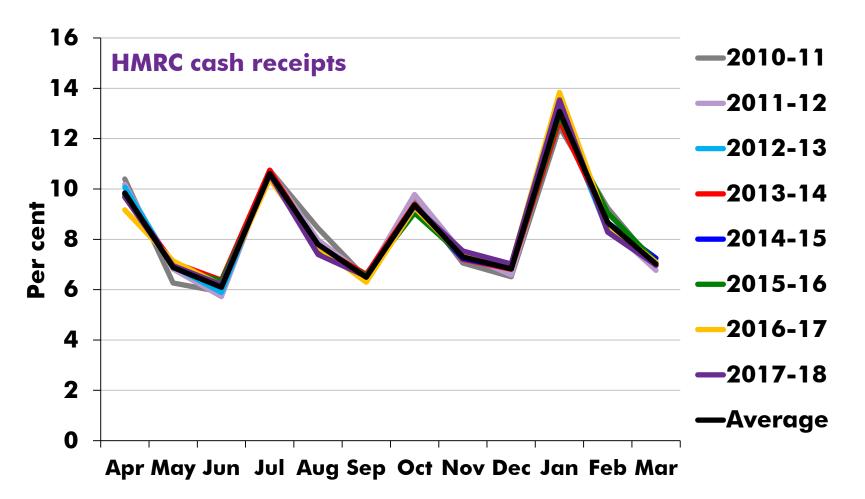
### Public finances month by month

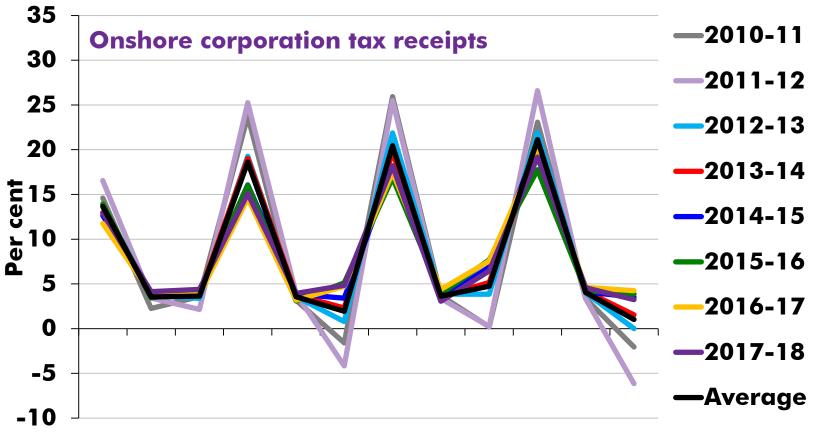


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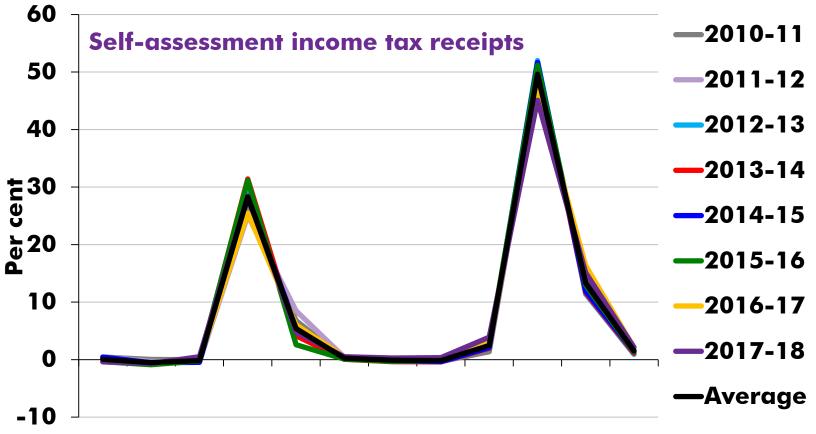
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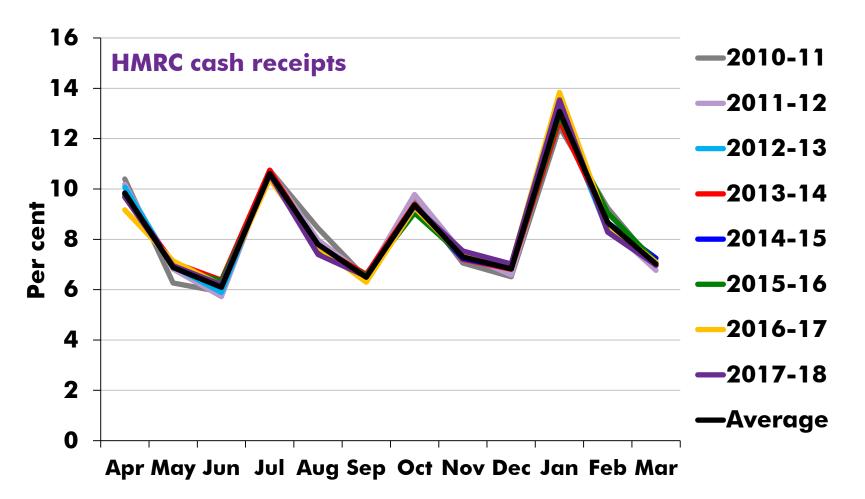


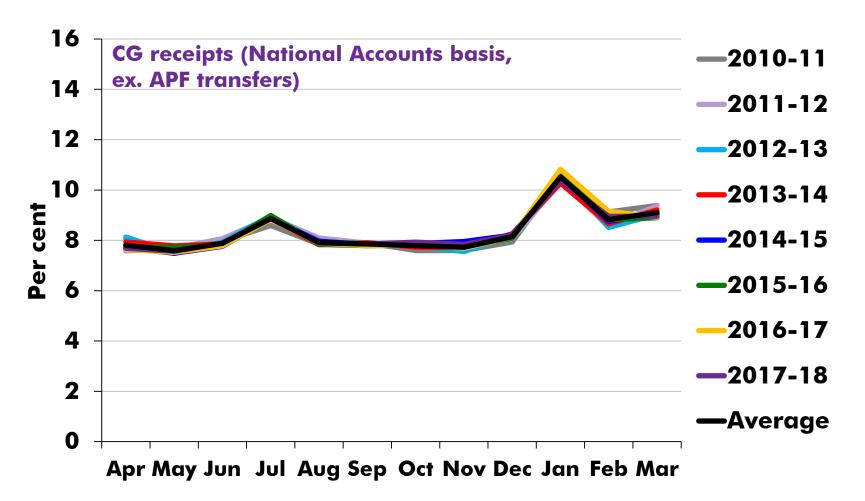


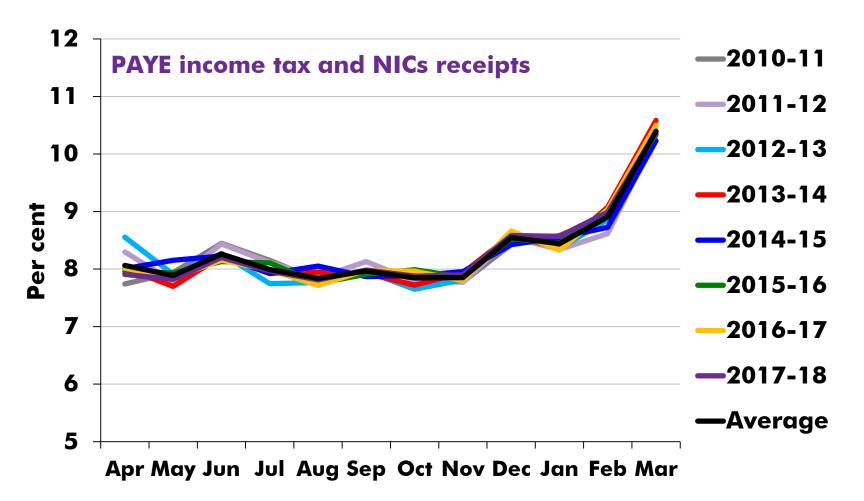
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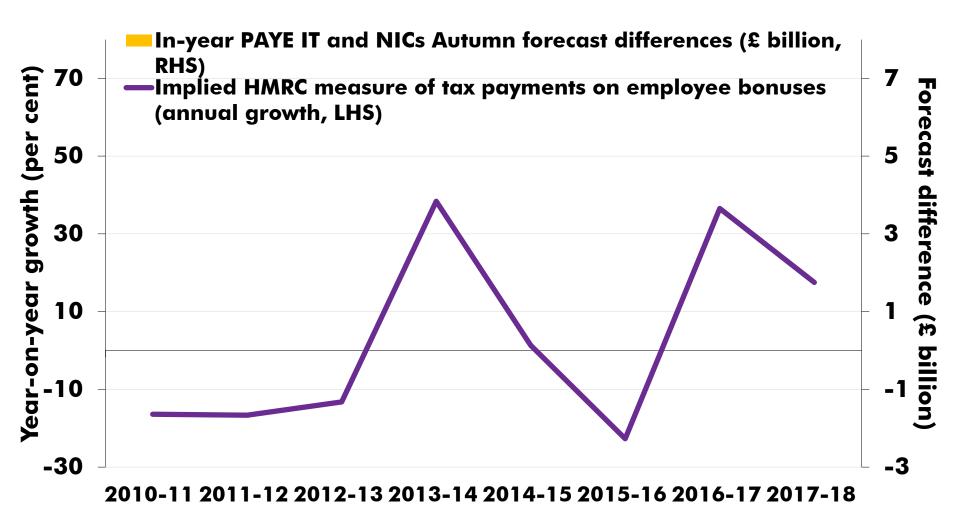
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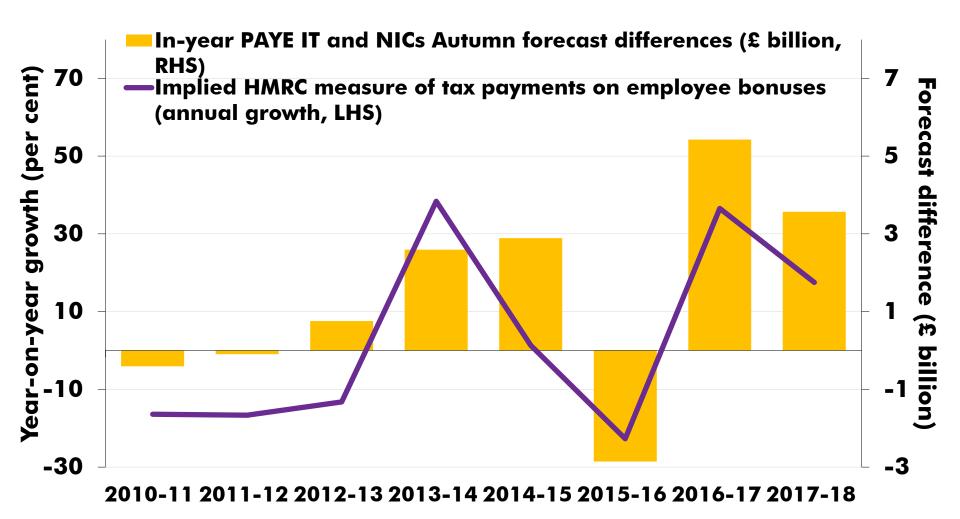




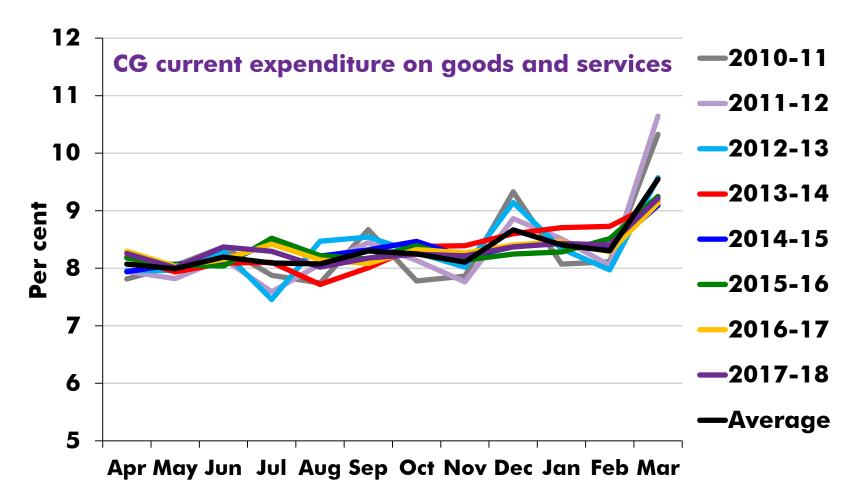
#### Tax payments on bonuses



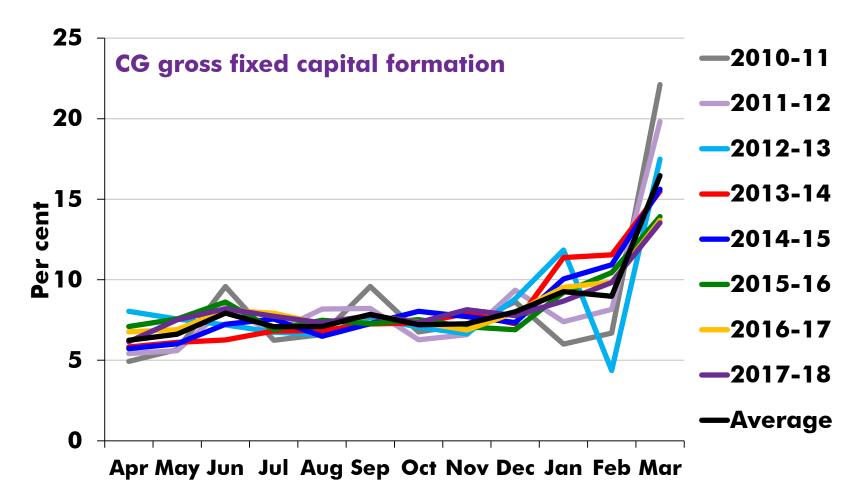
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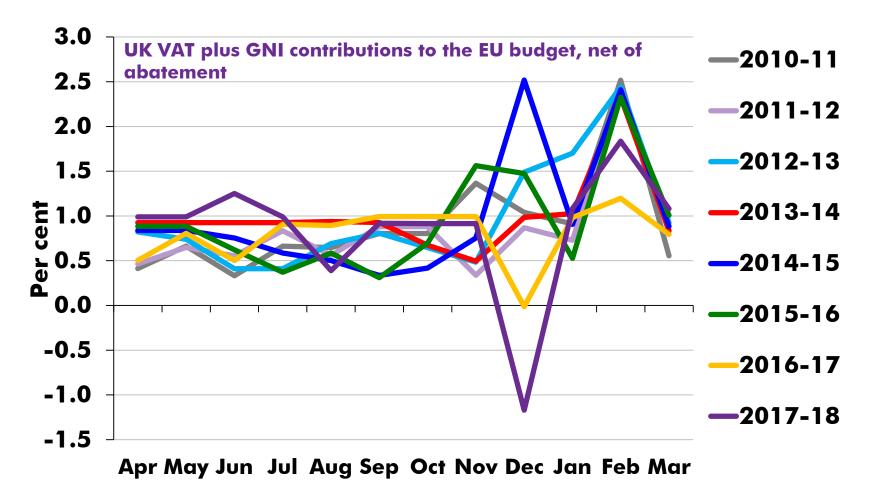
### Spending month by month



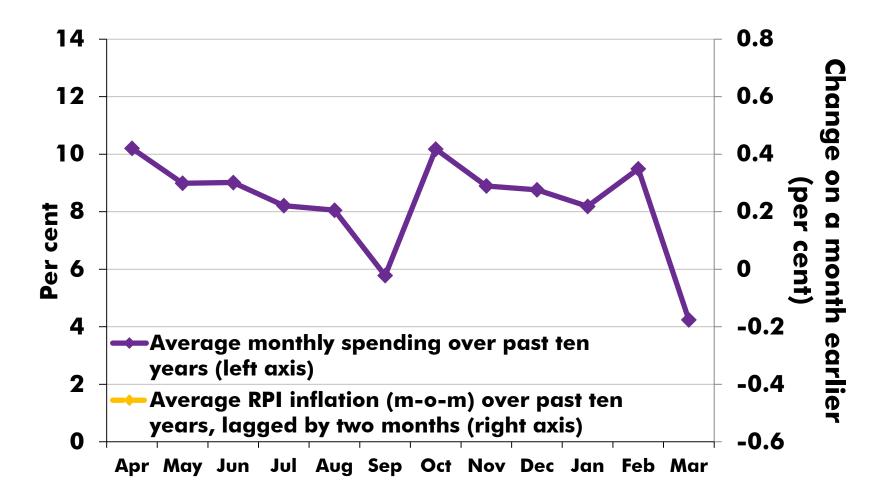
### Spending month by month



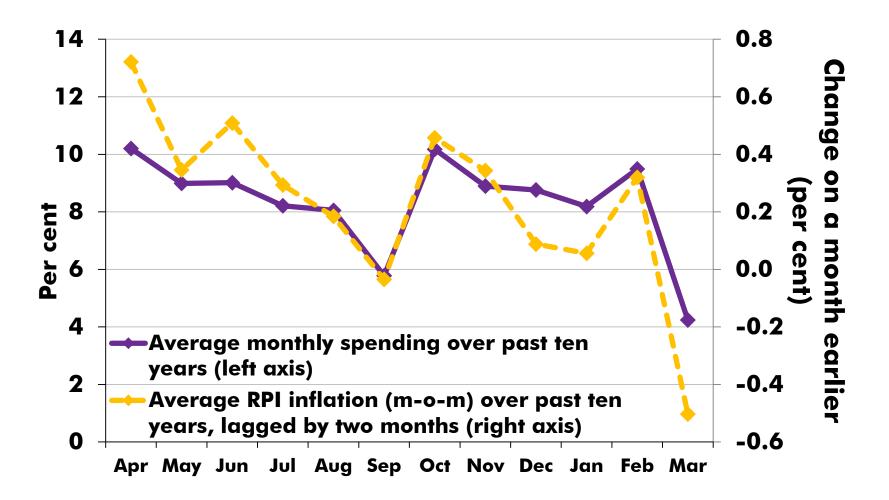
### Spending month by month



#### **Debt interest spending**

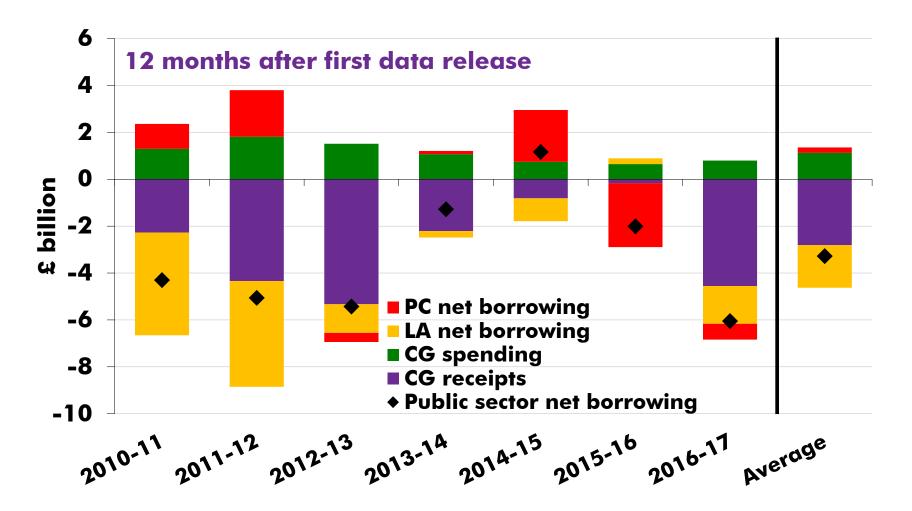


#### **Debt interest spending**

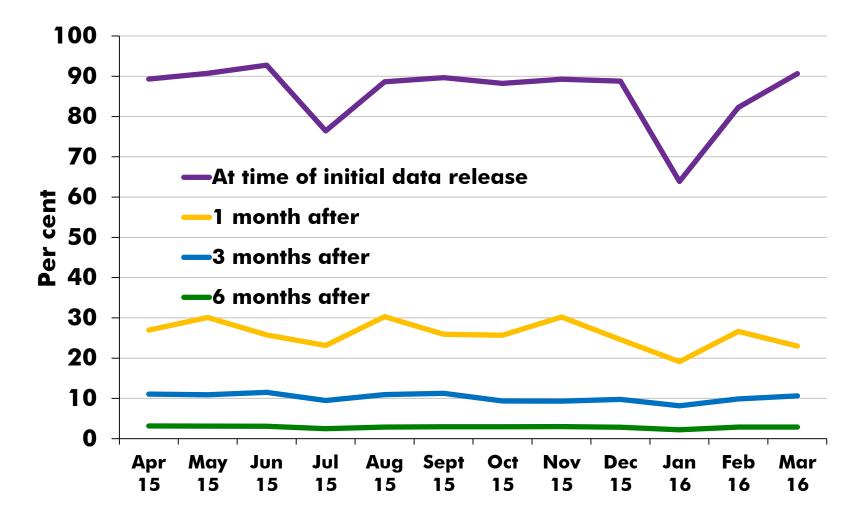


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#### **Data revisions**

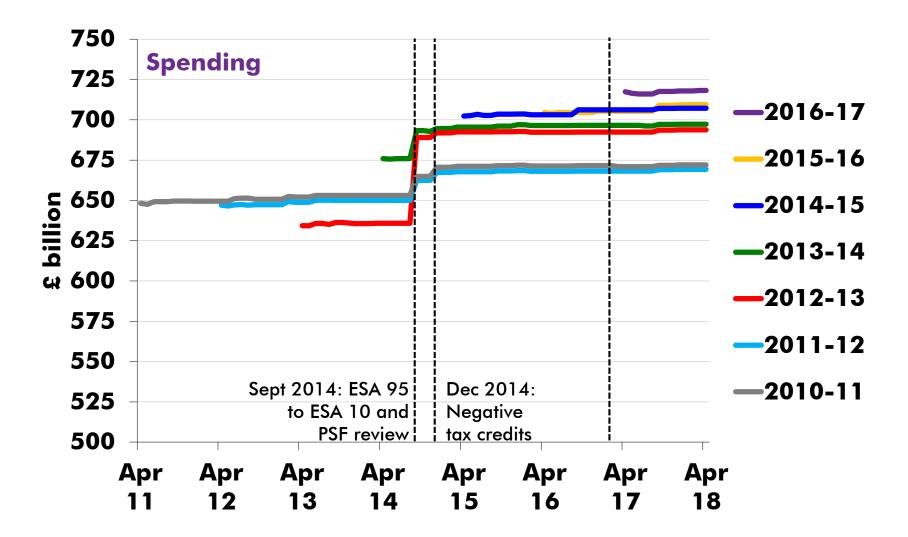


#### When outturns are forecasts

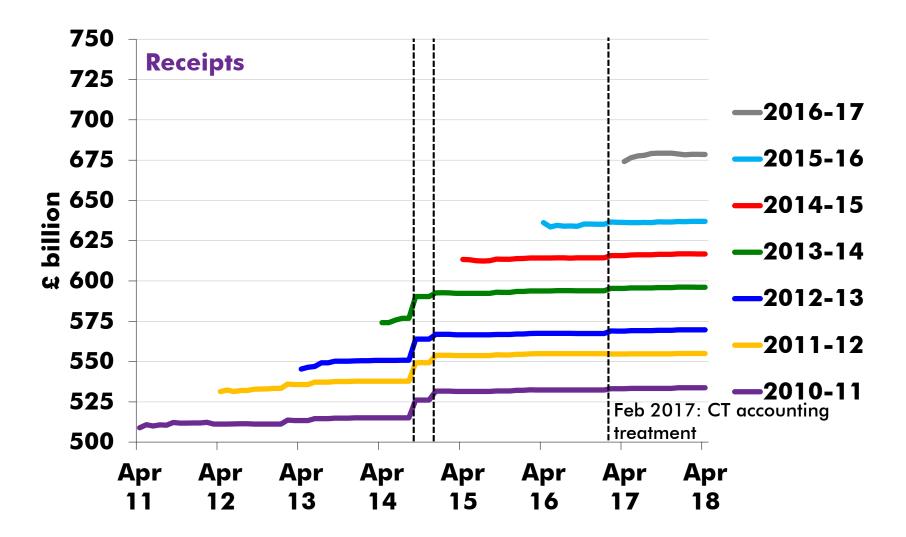


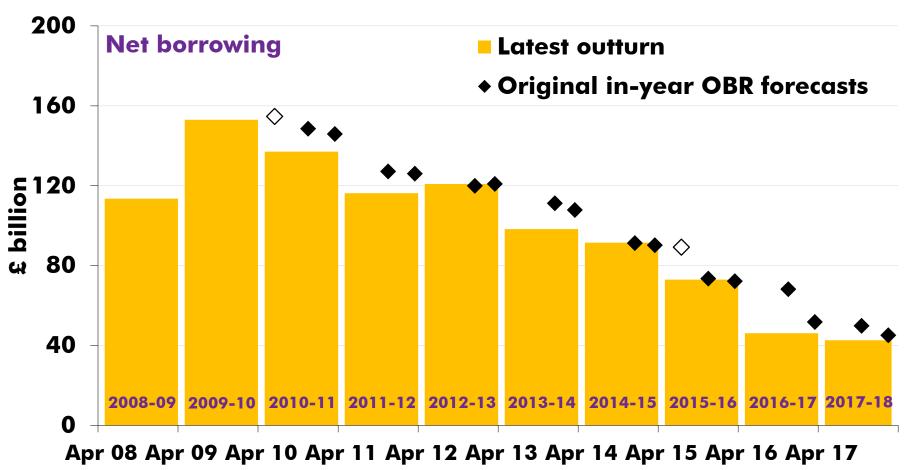
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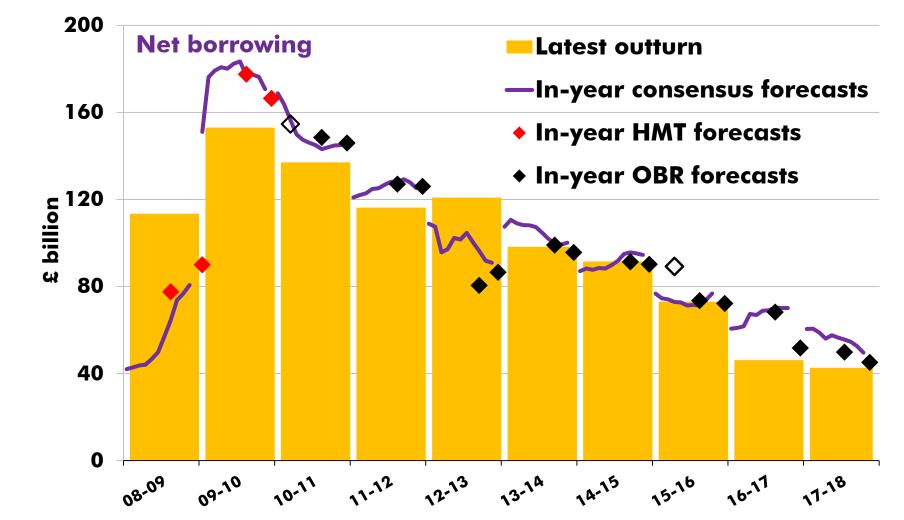


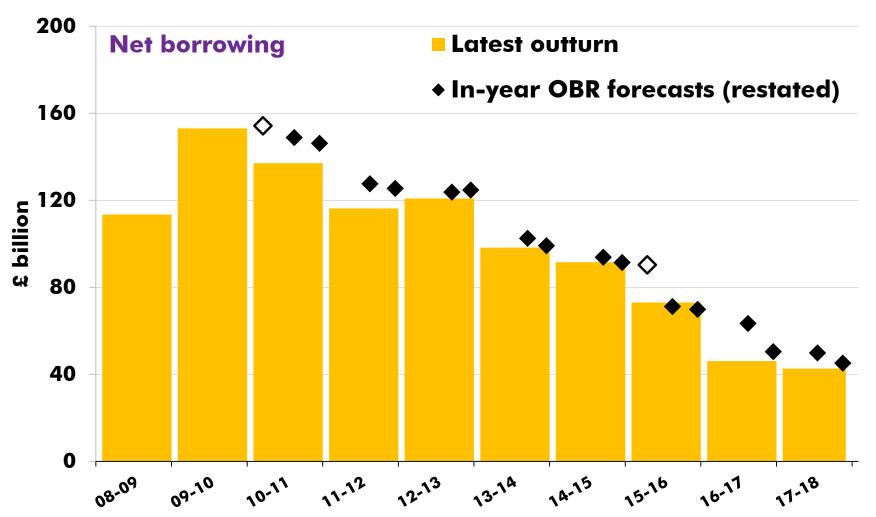
#### **Data revisions**

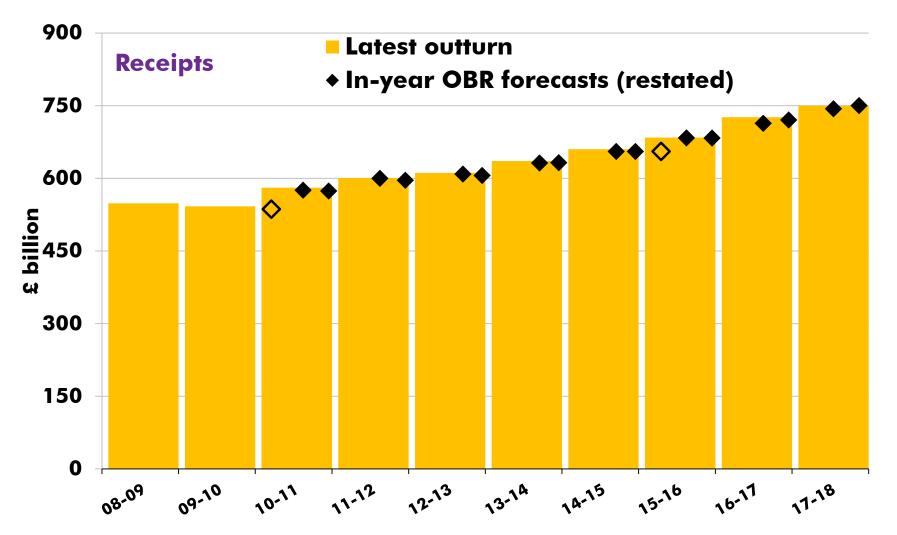




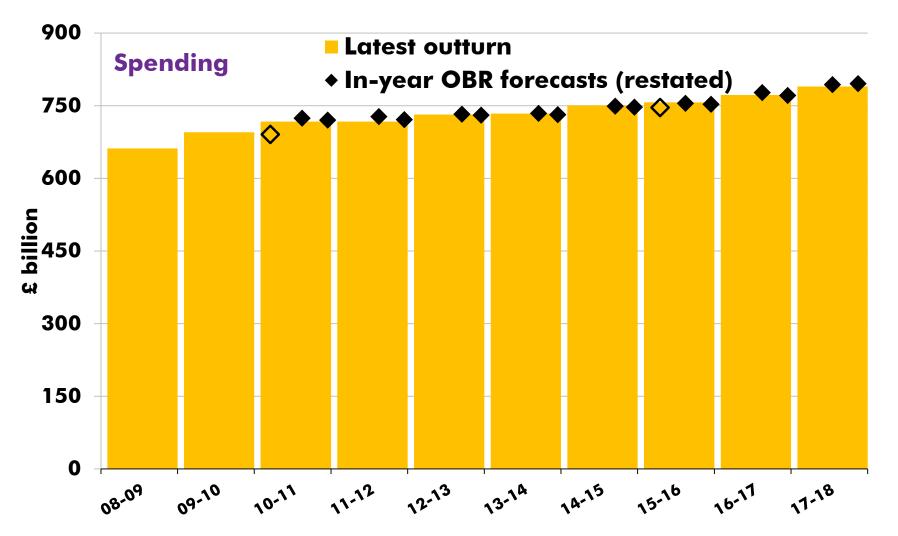
Date of forecast



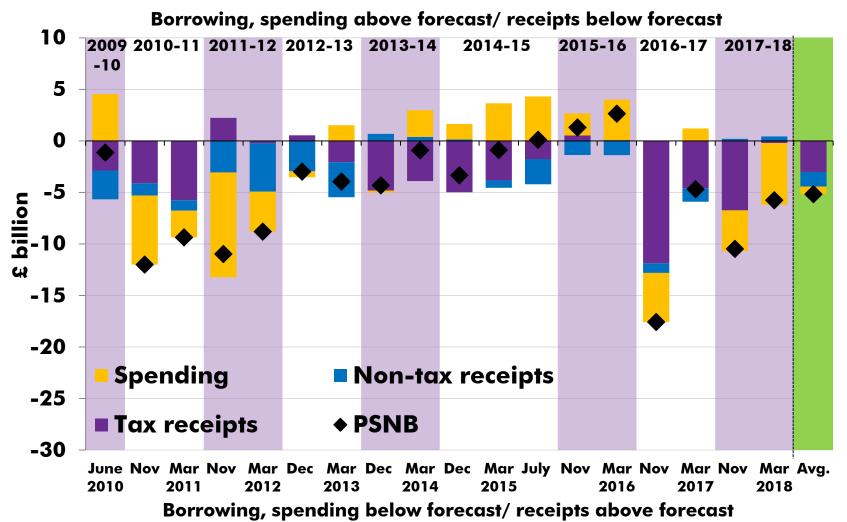




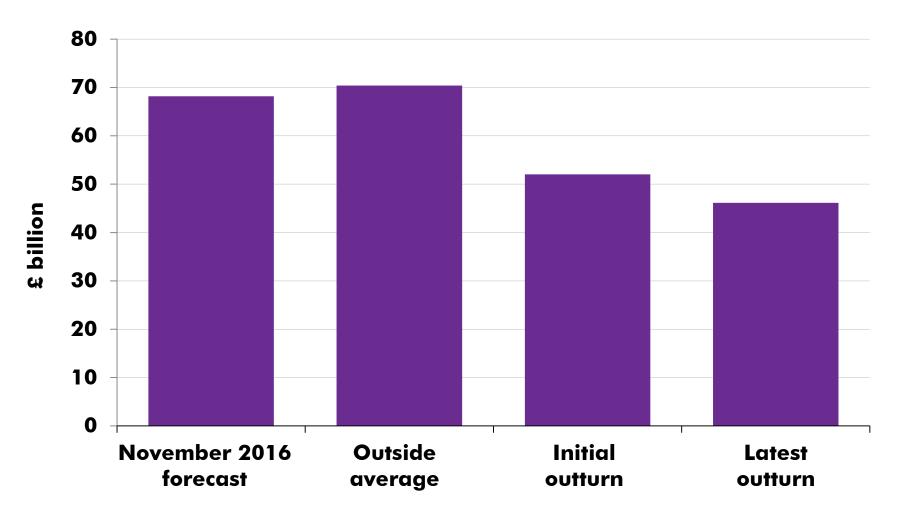
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#### Forecast v outturn: net borrowing



### What happened in 2016-17?



# What happened in 2016-17?

- Raw difference forecast vs outturn £22.4 billion
  - Adjusted for methodology changes £17.6 billion, of which
  - Receipts under-estimated by £12.8 billion
  - Spending over-estimated £4.8 billions
  - Fed into one-year ahead forecast for 2017-18
- First post-referendum forecast, but that not the reason
  - Big revisions to in-year data (PSNB down £7bn in 6 months)
  - Unexpectedly strong bonuses boosted IT
  - CT and VAT unusually end-loaded
  - CG departments underspent more than expected
  - Unusual timing of EU expenditure transfers
  - Strong capital gains tax receipts

### **Conclusions:** approach

- Use different arithmetic approaches
- Adjust for known timing and one-off effects
- But be ready for significant revisions

## **Conclusions: performance**

- Our in-year forecasts have over-predicted deficits
- Partly because of methodology and data revisions
- Our forecasts somewhat better than outside average
- Lessons for us
  - Look carefully at bonus payment assumptions
  - Refreshed approach to CT forecast
  - Investigate bias in gross operating surplus data
  - Beware challenge of universal credit