




GRATTAN
Institute

**Thinking big: maintaining
full employment and
boosting productivity**

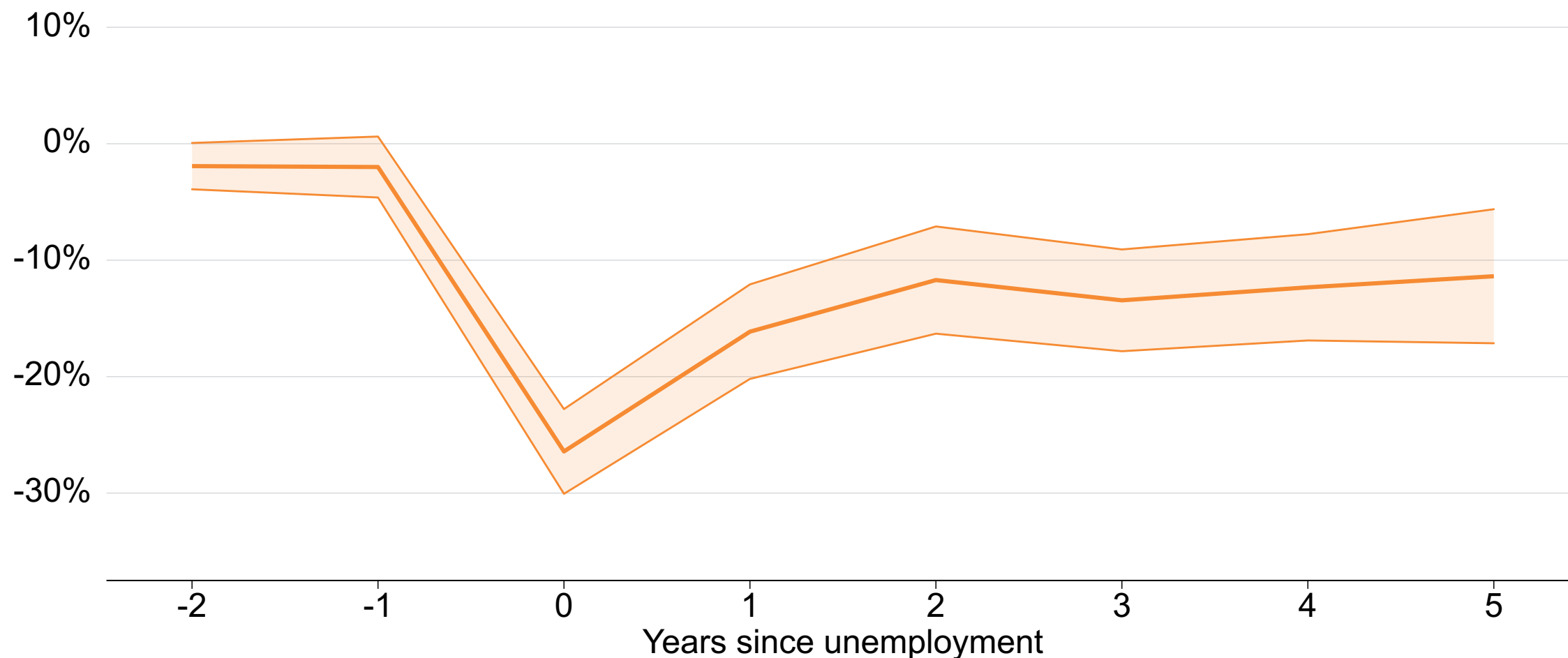
Danielle Wood
CEO, Grattan Institute

Jobs & Skills Summit
1 September 2022

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- **Full employment as our economic lodestar**
 - Productivity growth – it's almost everything
 - The changing Australian economy
 - Prioritising prosperity

Unemployment has a long-term effect on an individual's income

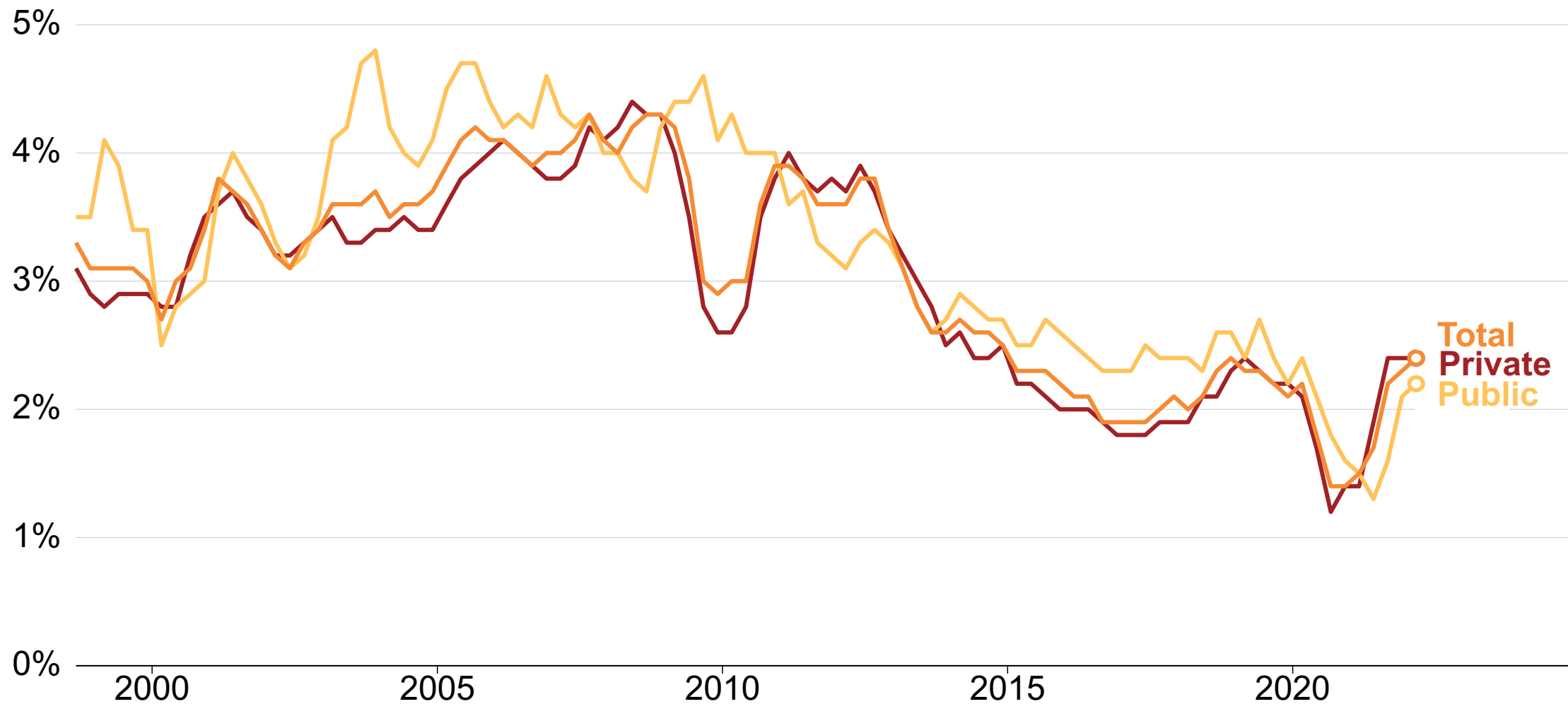
Reduction in labour income due to three months of unemployment



Notes: Estimates are shown as percentage changes relative to average labour income in the year before unemployment. They are derived from a regression of labour income on periods of unemployment and NILF, controlling for factors that affect income over the life cycle. Shaded regions are two-standard-error bands. For details, see <https://grattan.edu.au/report/no-one-left-behind-why-australia-should-lock-in-full-employment/>.
Source: Grattan analysis of HILDA Release 20.0.

Australians had weak wages growth in the decade prior to COVID

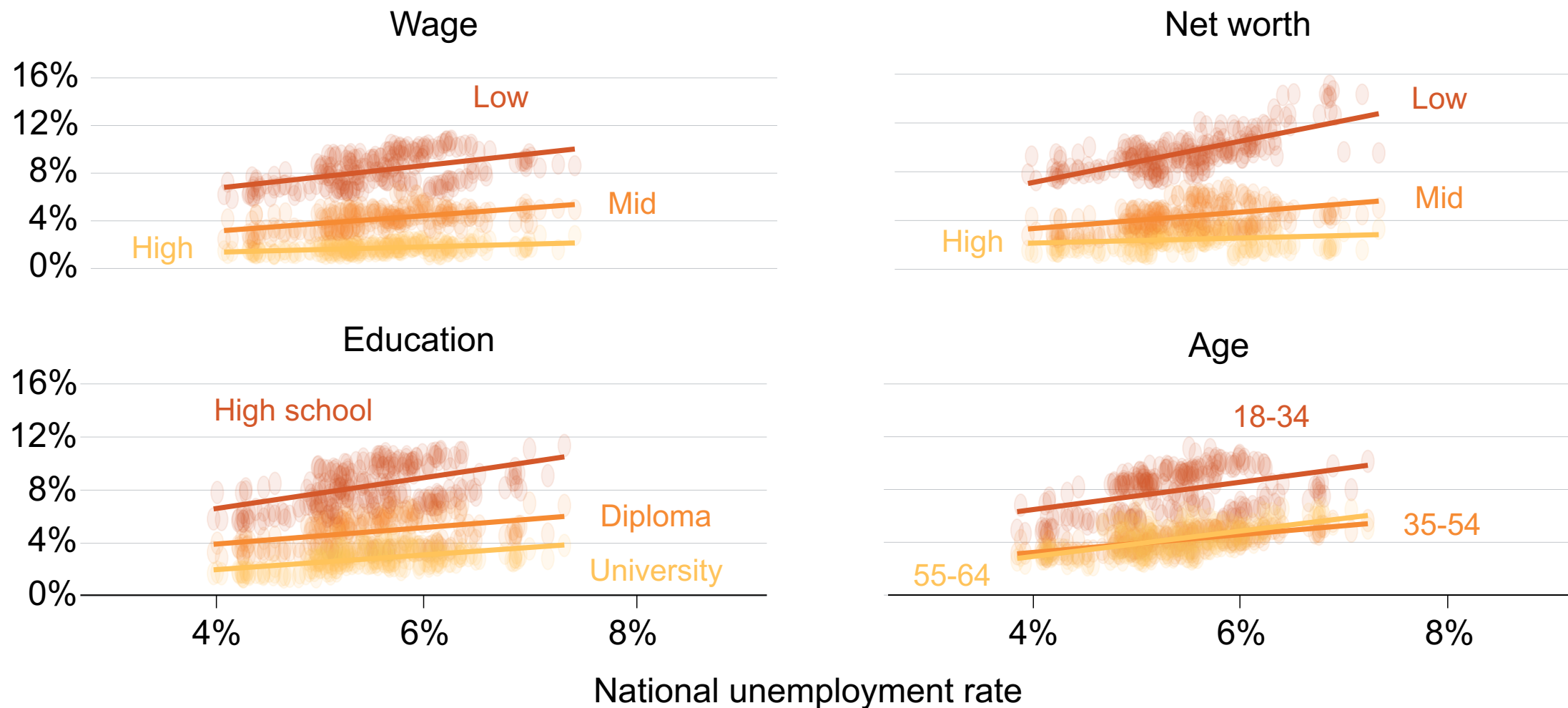
Annual growth in the Wage Price Index



Source: ABS Wage Price Index.

Disadvantaged groups benefit most when unemployment falls


Group-specific unemployment rate against national rate, monthly



Notes: Each dot represents monthly unemployment rate over July 2000 until June 2020. Group-specific unemployment rates are derived from HILDA employment calendars, weighted by the cross-sectional responding person weights, and seasonally adjusted using X-13ARIMA-SEATS.

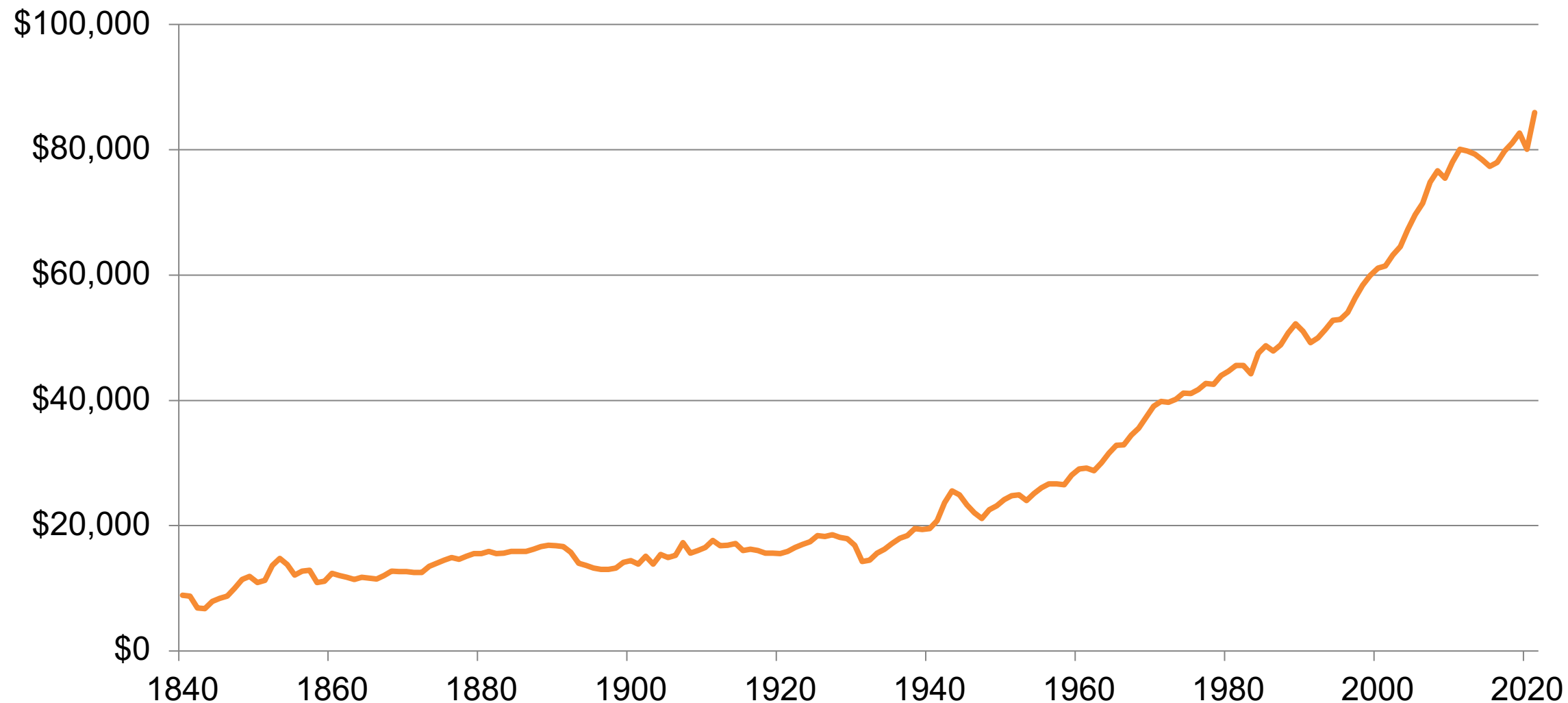
Sources: Grattan analysis of HILDA Release 20.0 and ABS 6202.0.

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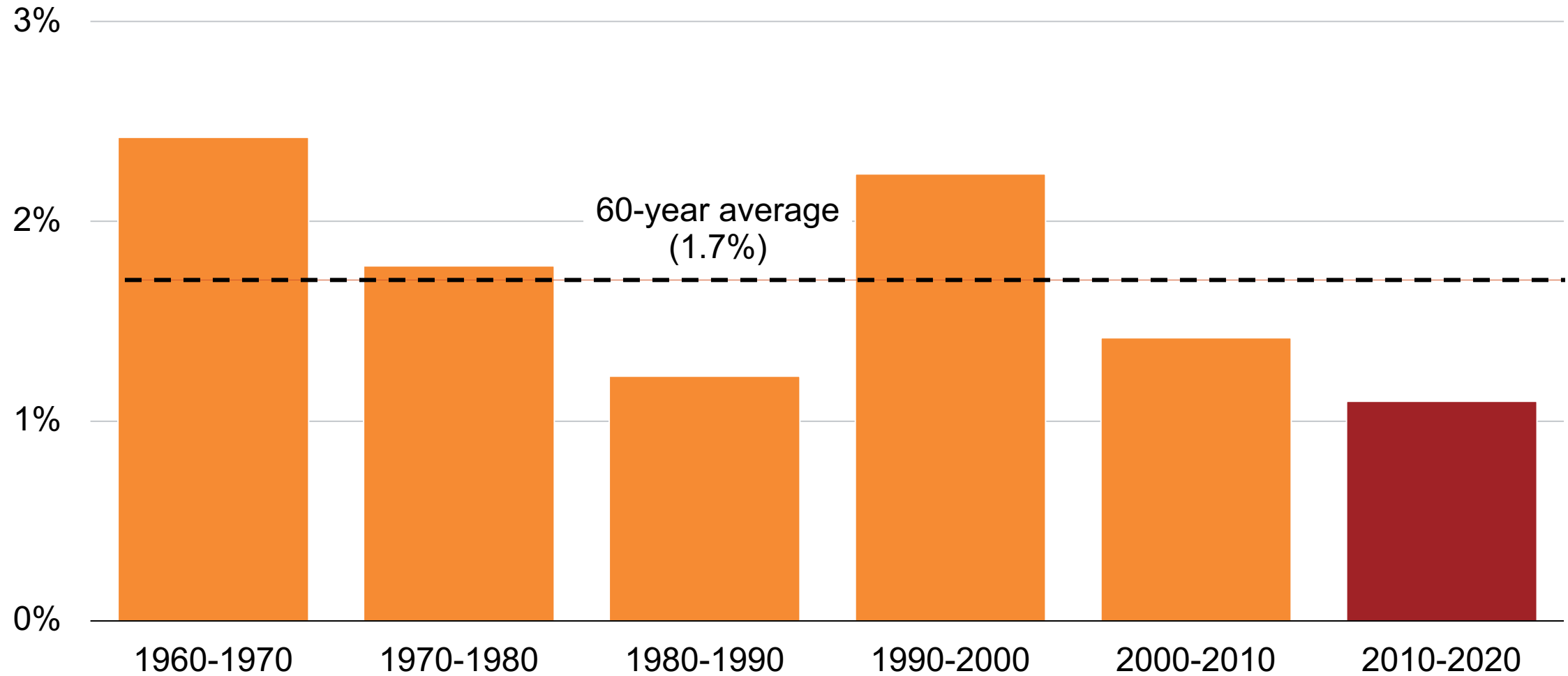
Growth in per person GDP over the century has been extraordinary

Real GDP per capita, 2021 dollars



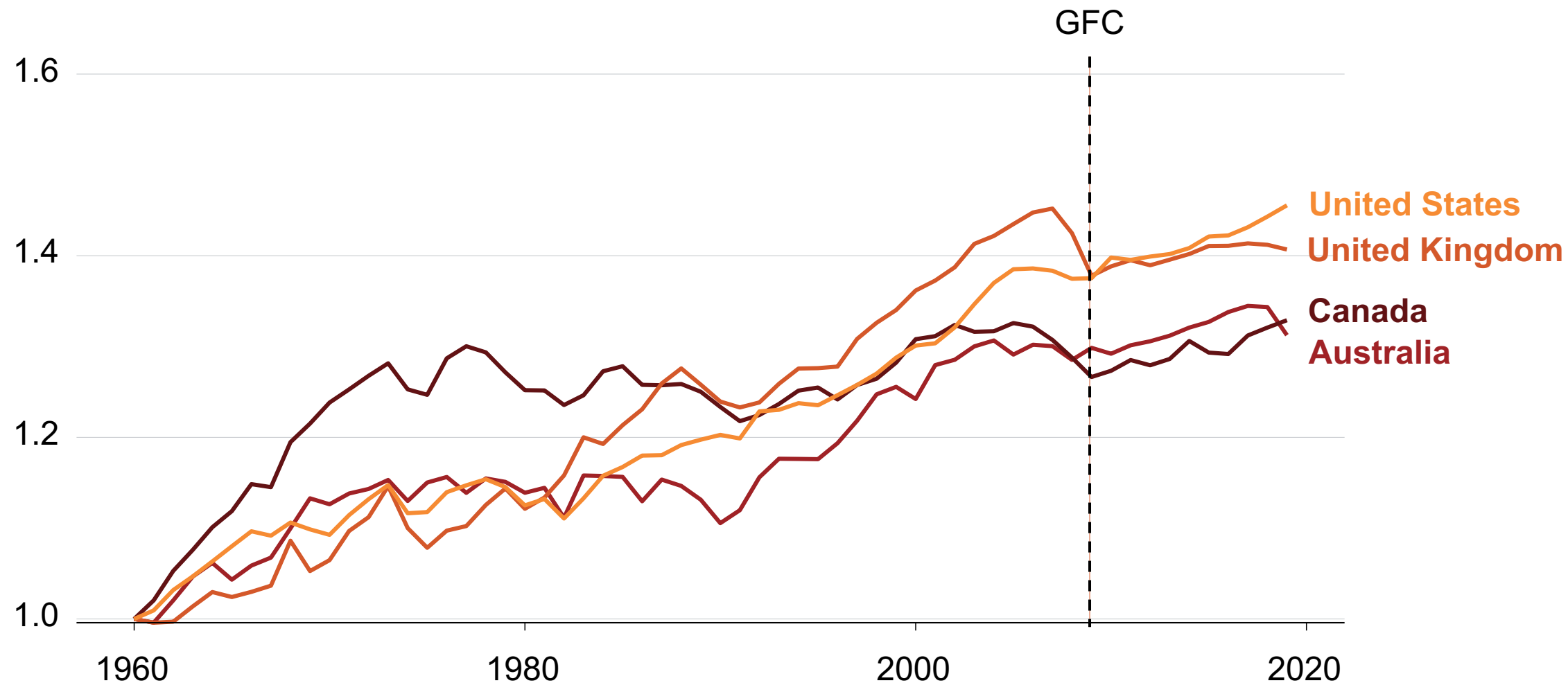
Australia's labour productivity growth in the past decade has been the slowest in 60 years

Average annualised rate of labour productivity growth, 1960 to 2020




Productivity has been flatlining across industrialised economies

Total factor productivity, indexed to 1960=1

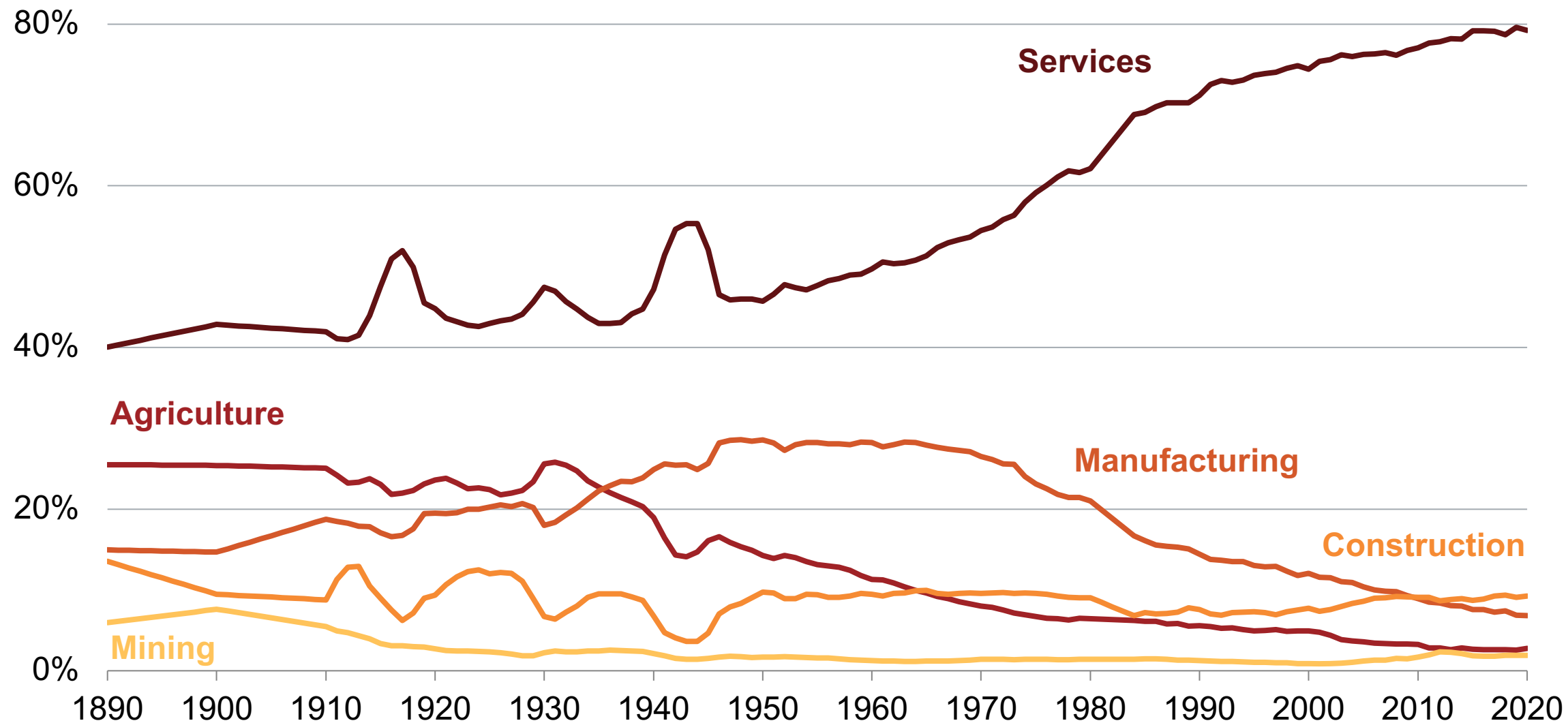


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Australian jobs are increasingly in the services sectors

Industry share of workforce

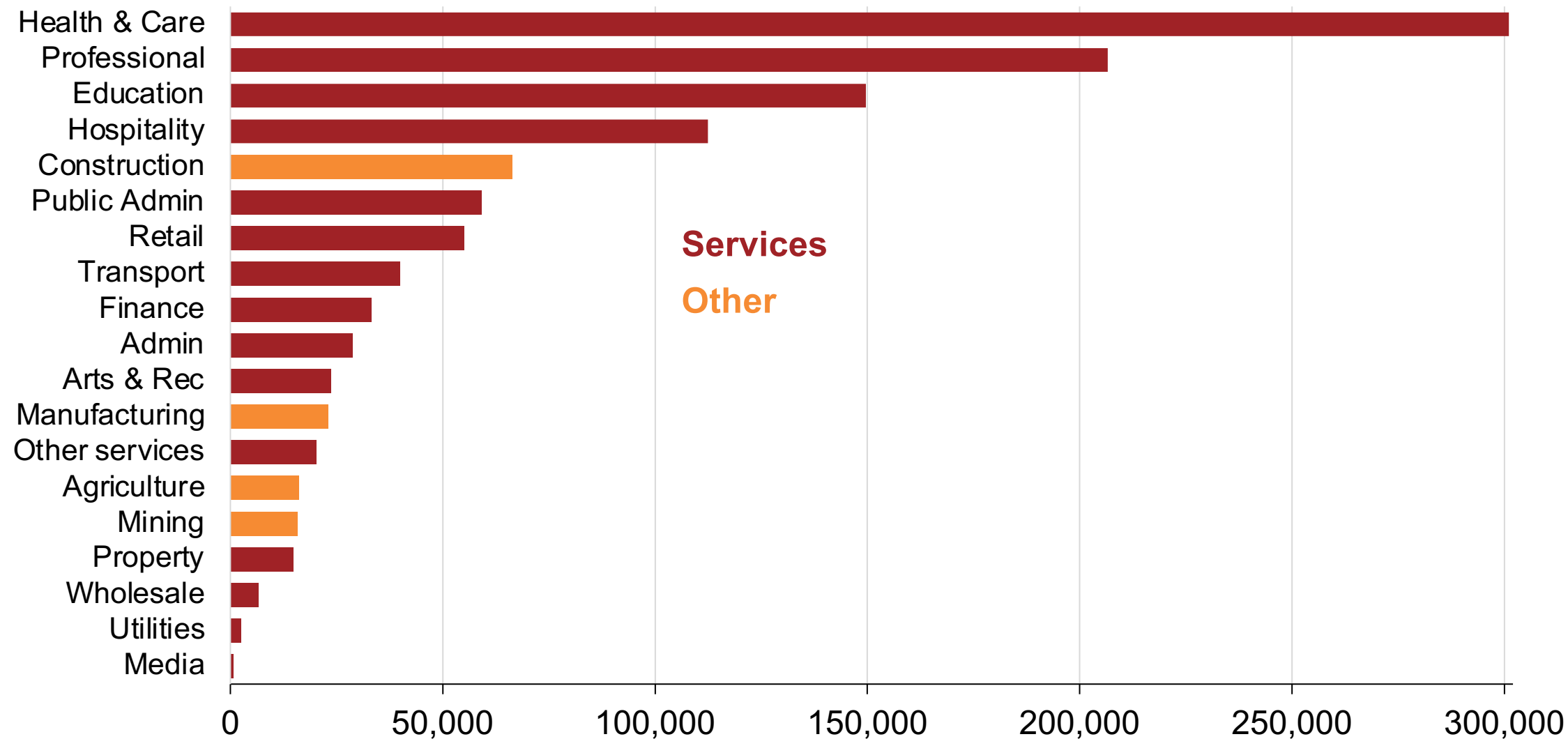


Note: 1981-1983 are interpolated using 1980 and 1984 data.

Sources: 1. 1890-1980 Australian Historical Statistics: Labour Statistics, by G. Withers, T. Endes, L. Perry. 2. 1984-2020: Labour Force, Australia, Detailed, Table 4.

Most jobs growth in health and care, professional services, and education

Projected change in jobs from November 2021 to November 2026

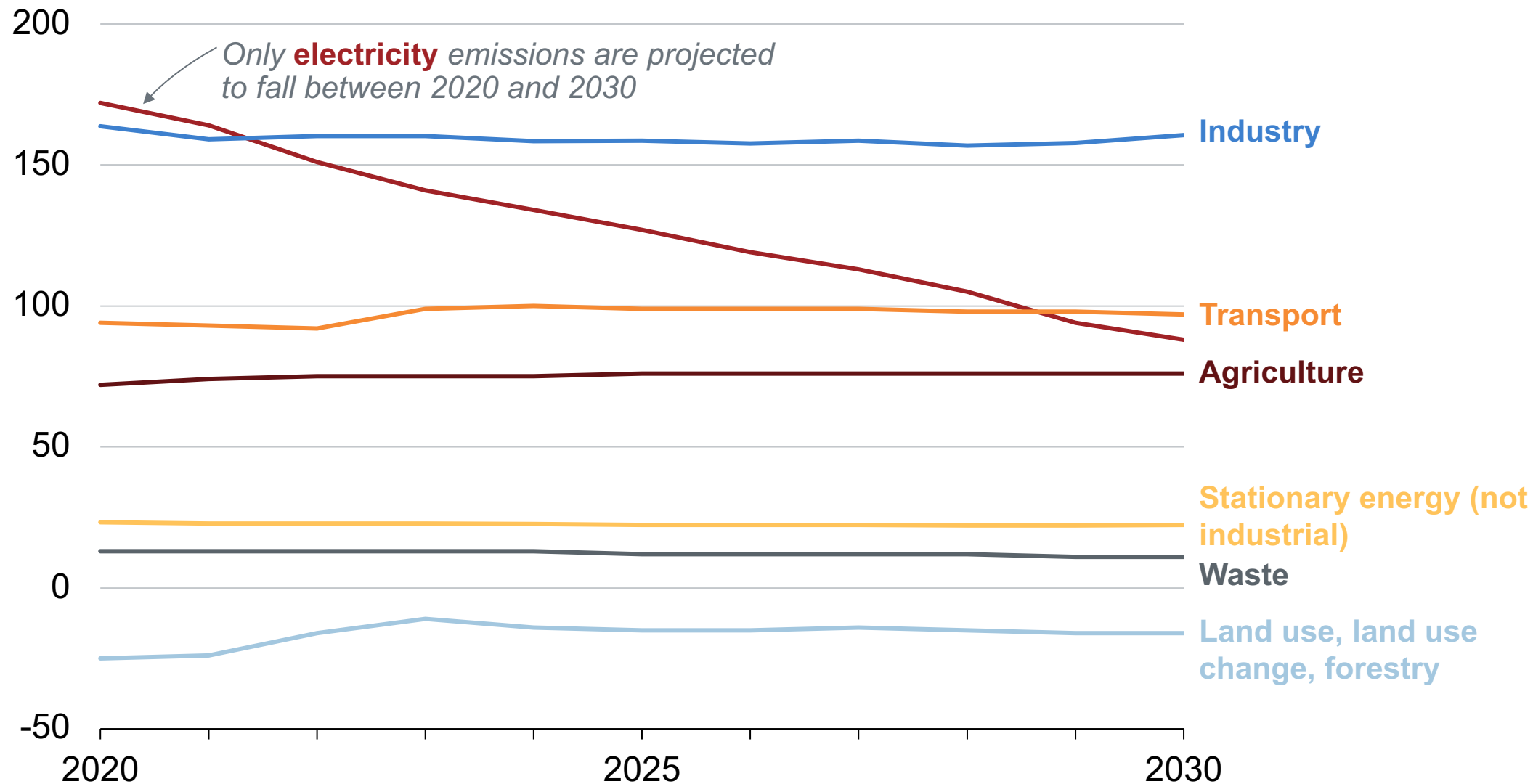


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We are not yet bending the curve on most sources of emissions

Emissions (millions of tonnes of CO₂-equivalent)



Note: Industrial emissions comprise all Scope 1 emissions from industrial processes, all stationary energy emissions except those from the commercial and residential sectors, and all fugitive emissions except those from gas pipelines and networks. Source: Grattan analysis of DISER (2021d).

Demand for critical energy minerals could fuel the next mining boom

	% change in volume (2020-40)	% change in market value (2020-40)	Australian reserves as % global
Lithium	4189%	8692%	27%
Nickel	1938%	3124%	22%
Cobalt	2133%	3582%	21%
Copper	265%	481%	11%
Graphite	2472%	4919%	2%
Manganese ore	813%	1282%	10%
Rare earths	732%	1005%	4%
Silicon	232%	454%	

Note: Australia's share of global silicon reserves is unknown.

Source: Grattan analysis of IEA (2021c) (volume), IEA (2021b) (value), Geoscience Australia (2020) (share of global reserves).

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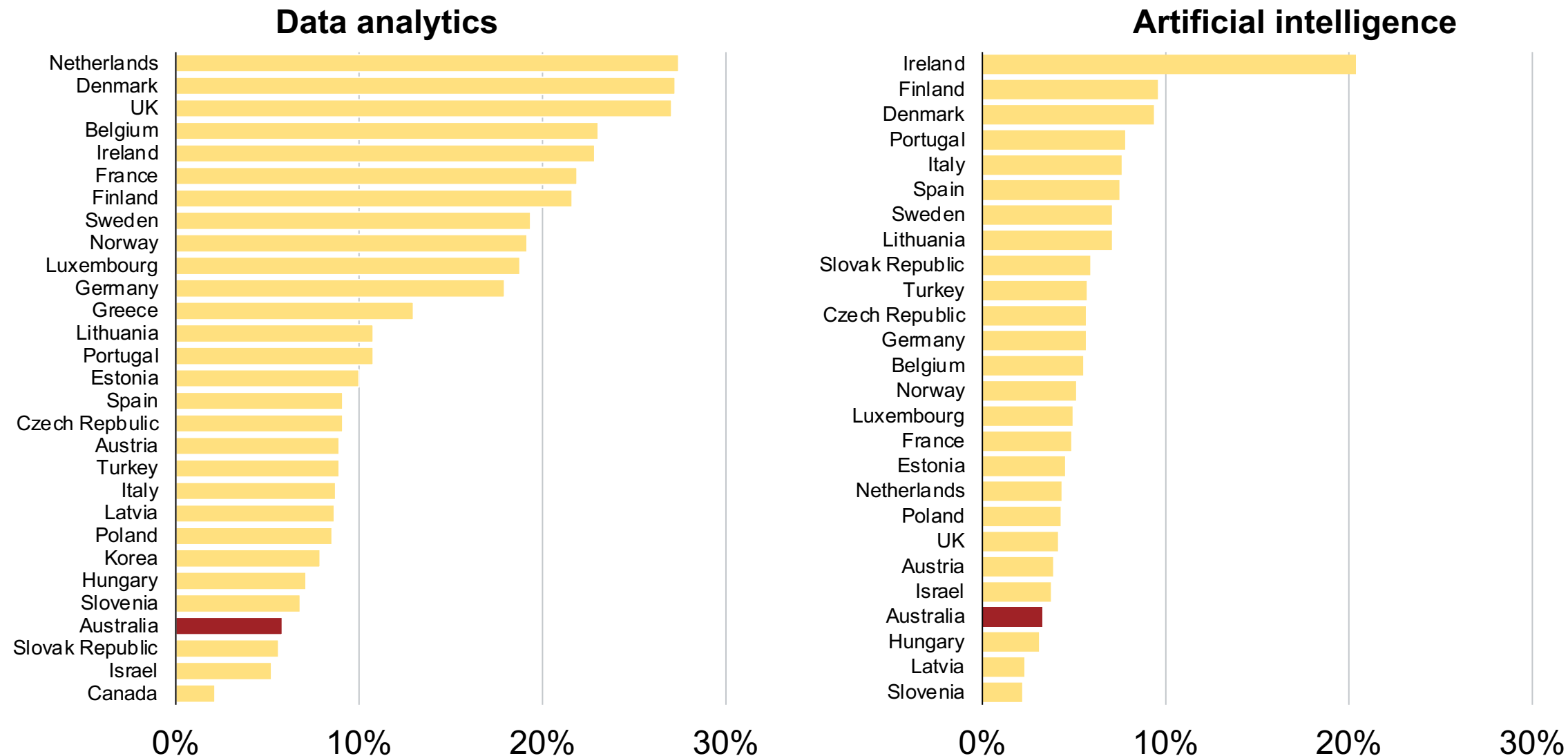
The march of the services sector
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Australian businesses are trailing in use of data-driven technologies

Share of businesses who use data analytics (2019) and artificial intelligence (2020)



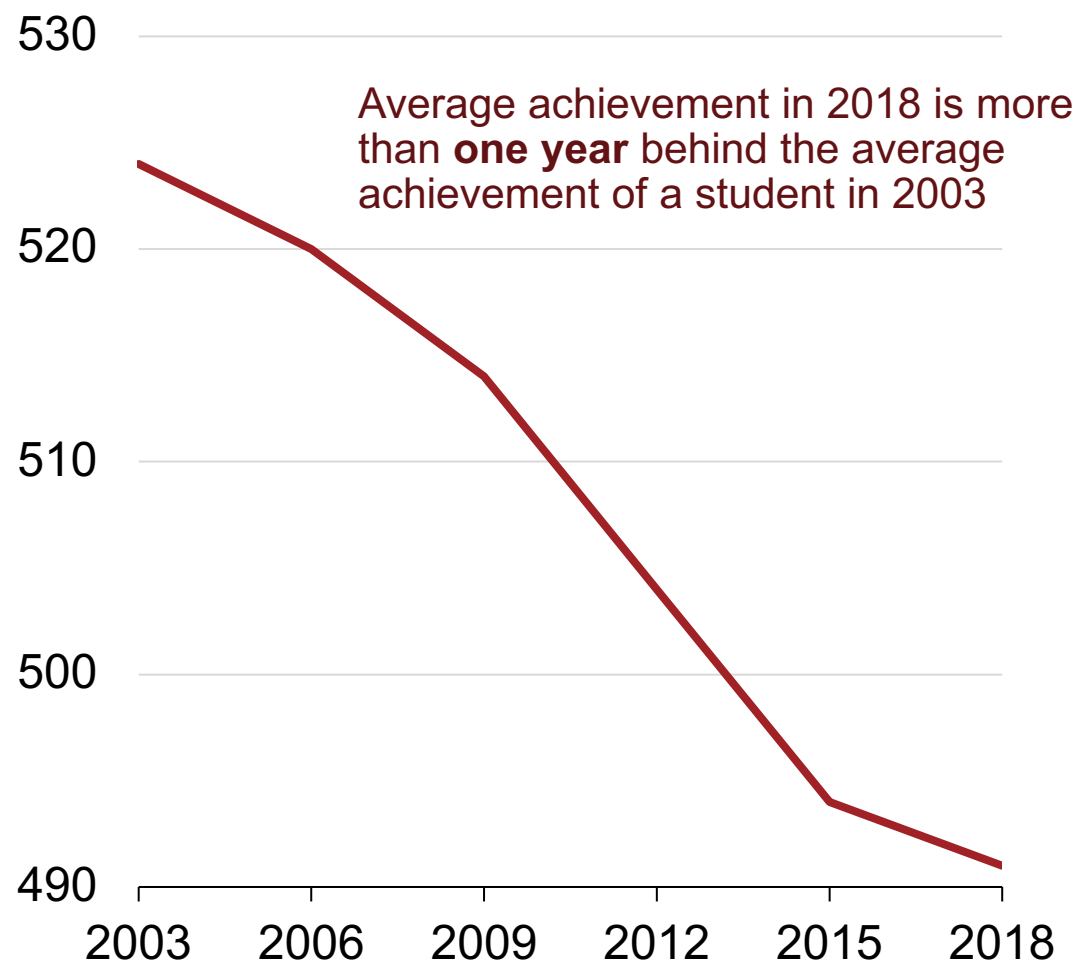
Source: Productivity Commission, 5 Year Productivity Inquiry: Australia's data and digital dividend (2022, Figure 1.12).

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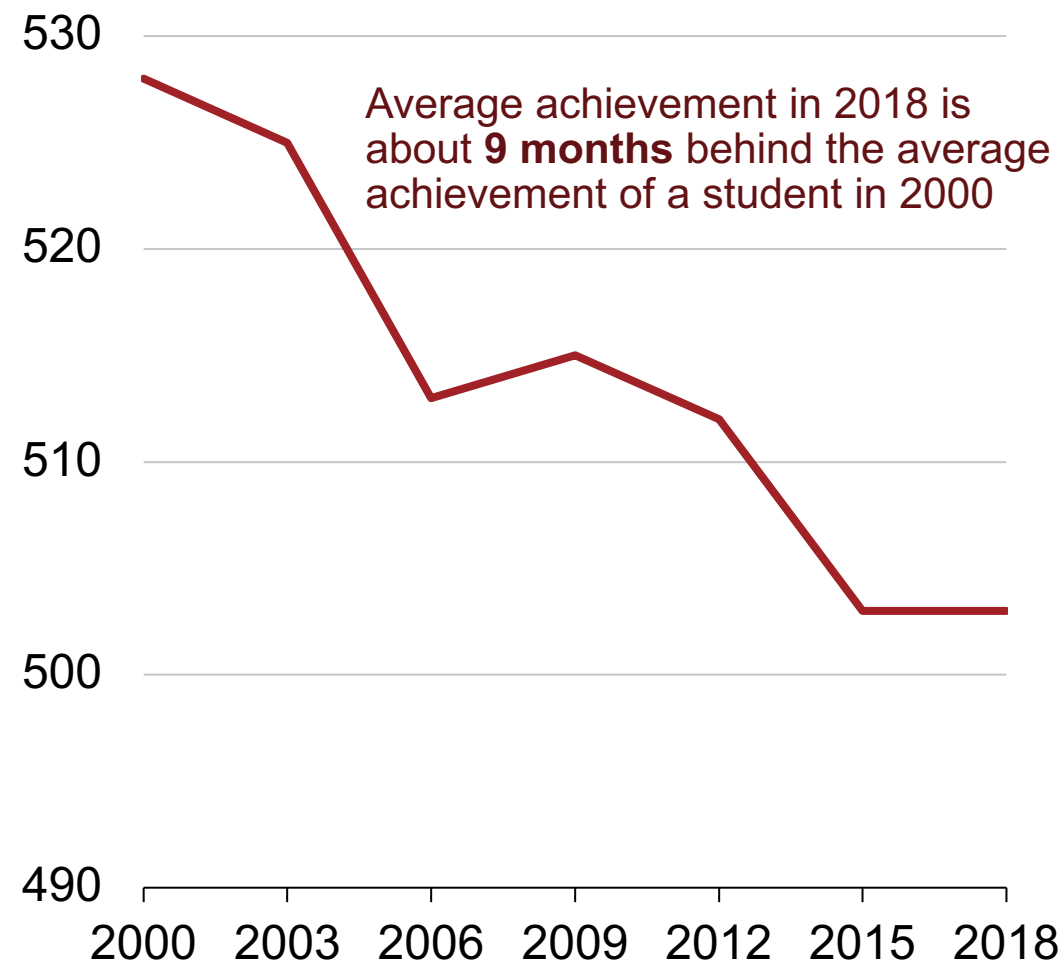
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Australian students' performance is declining


Mathematics: Australia's mean score in PISA (2003 – 2018)



Reading literacy: Australia's mean score in PISA (2000-2018)

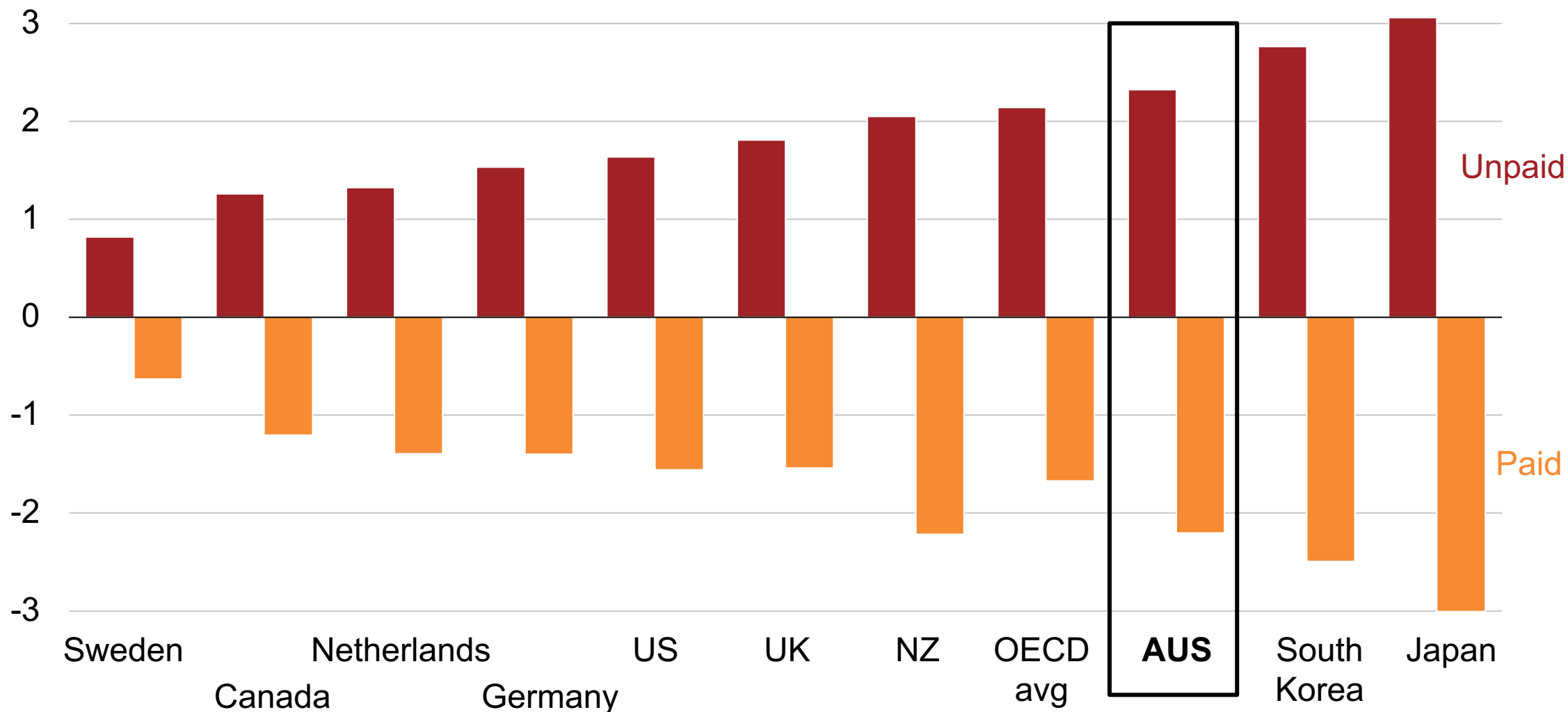


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The gender split in unpaid and paid work is particularly prominent in Australia

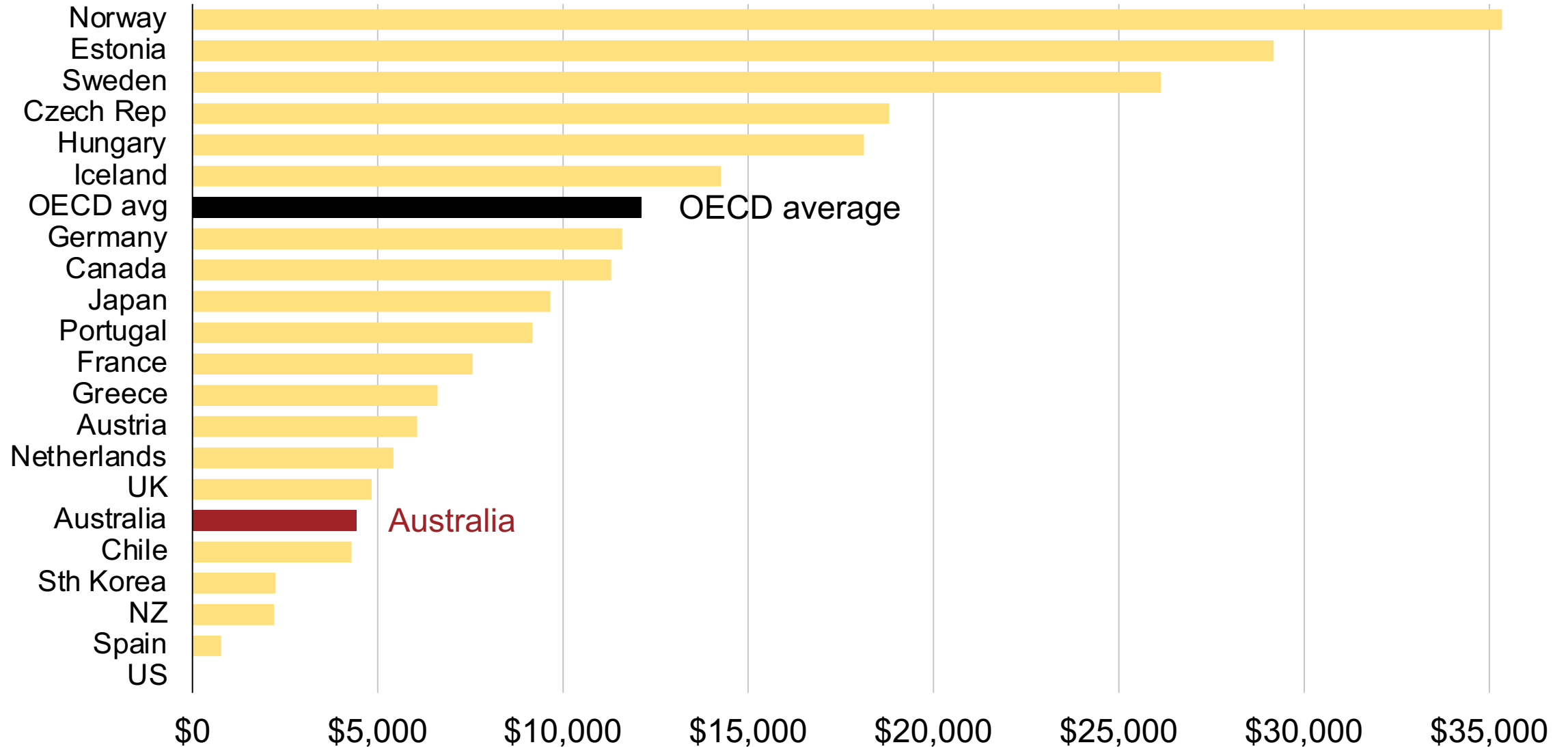
The gender gap in unpaid and paid work, in hours per day



Notes: The gender gap is calculated as the average hours reported by women minus the average hours reported by men. This data was collected across various years (2002-2014).
Source: OECD.Stat https://stats.oecd.org/Index.aspx?DataSetCode=GENDER_EMP#.

Australia invests very little in parental leave, with limited schemes for both mothers and fathers

Public expenditure on maternity and parental leaves per live birth



Note: In USD 2010 PPP, 2015.

Source: <http://www.oecd.org/els/family/database.htm>.

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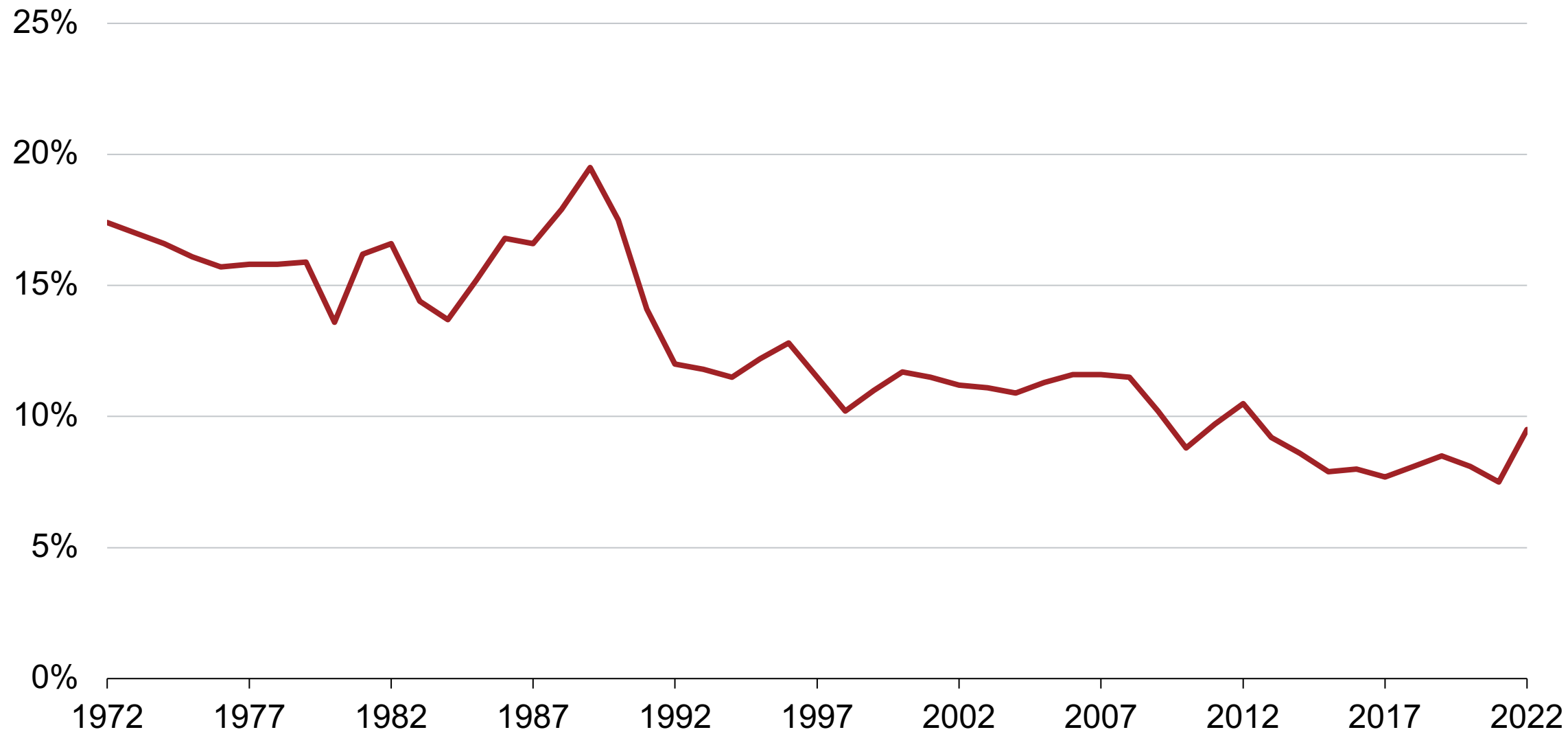
Investing in human capital

Making better use of our talent pool

Restoring economic dynamism

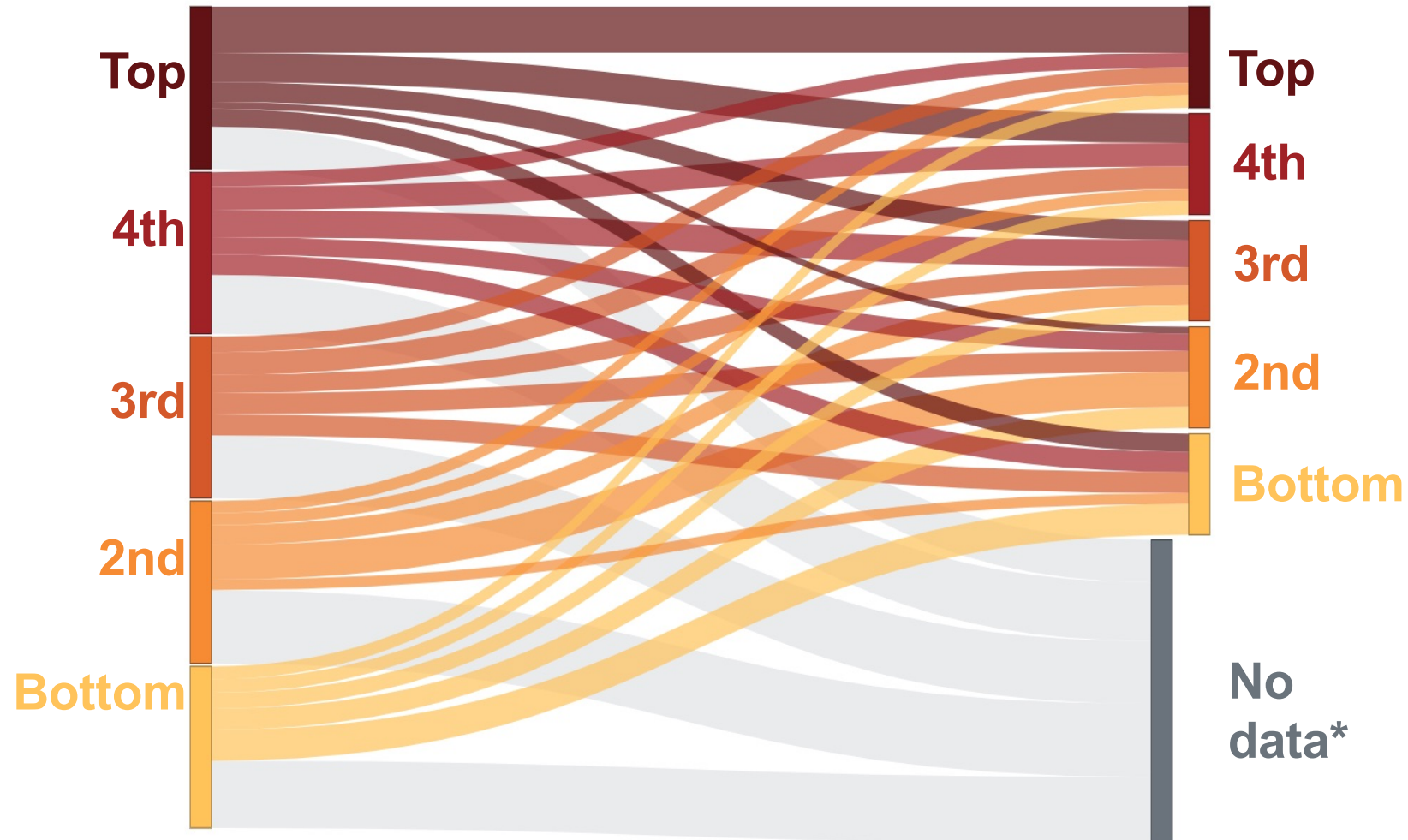
Job switching rates declined in the years before COVID

Proportion of employed Australians who changed jobs during the year



More than one third of the most profitable firms are still the most profitable 10 years later

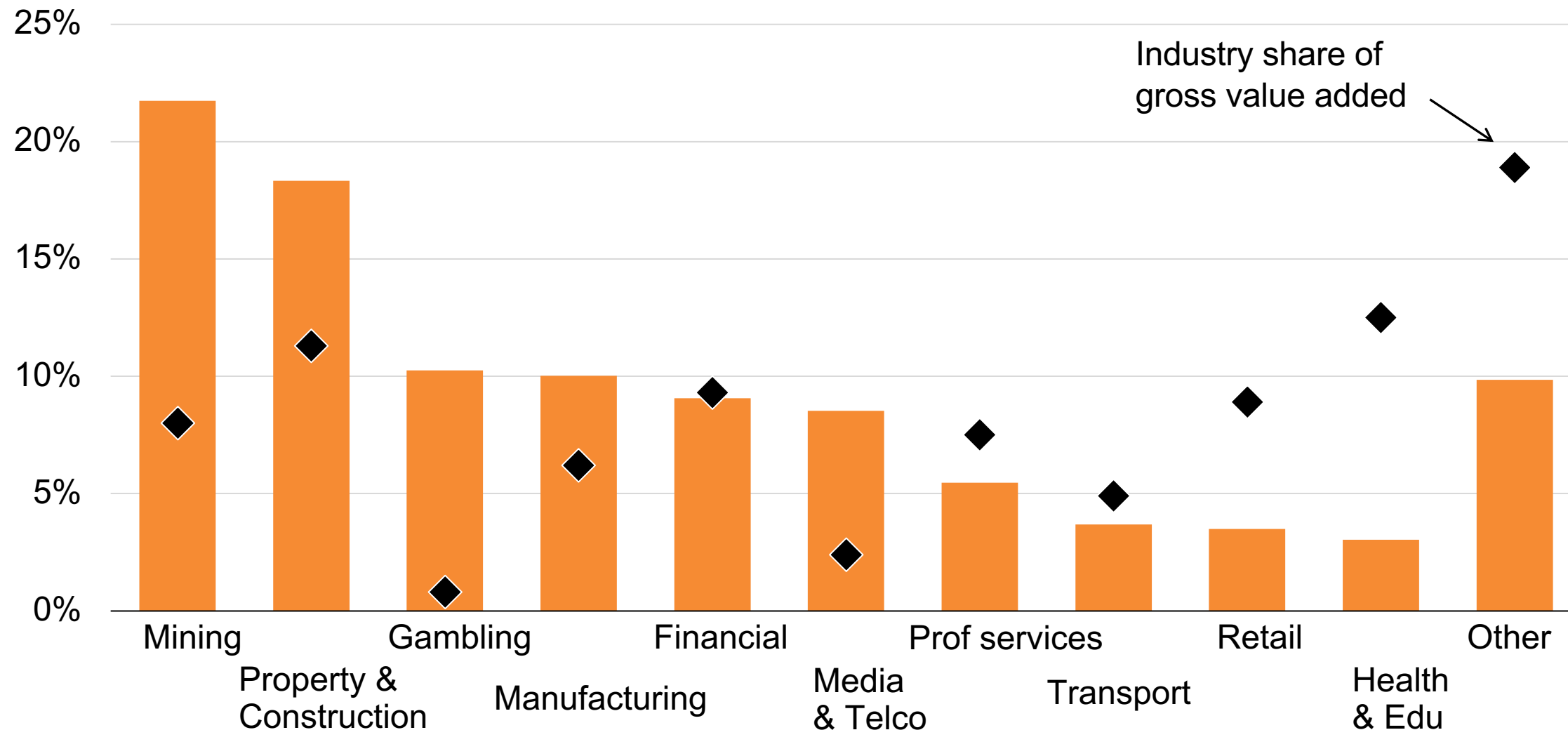
Return on equity quintile, initial vs after a decade



Note: Returns are three-year averages, taken for 10-year durations between 2000 and 2015 for listed Australian firms (excluding mining).
Source: Grattan analysis of Morningstar DatAnalysis Premium (2017).

Some industries are large donors relative to their economic contribution

Share of donations by industry, 2015-16 and 2016-17

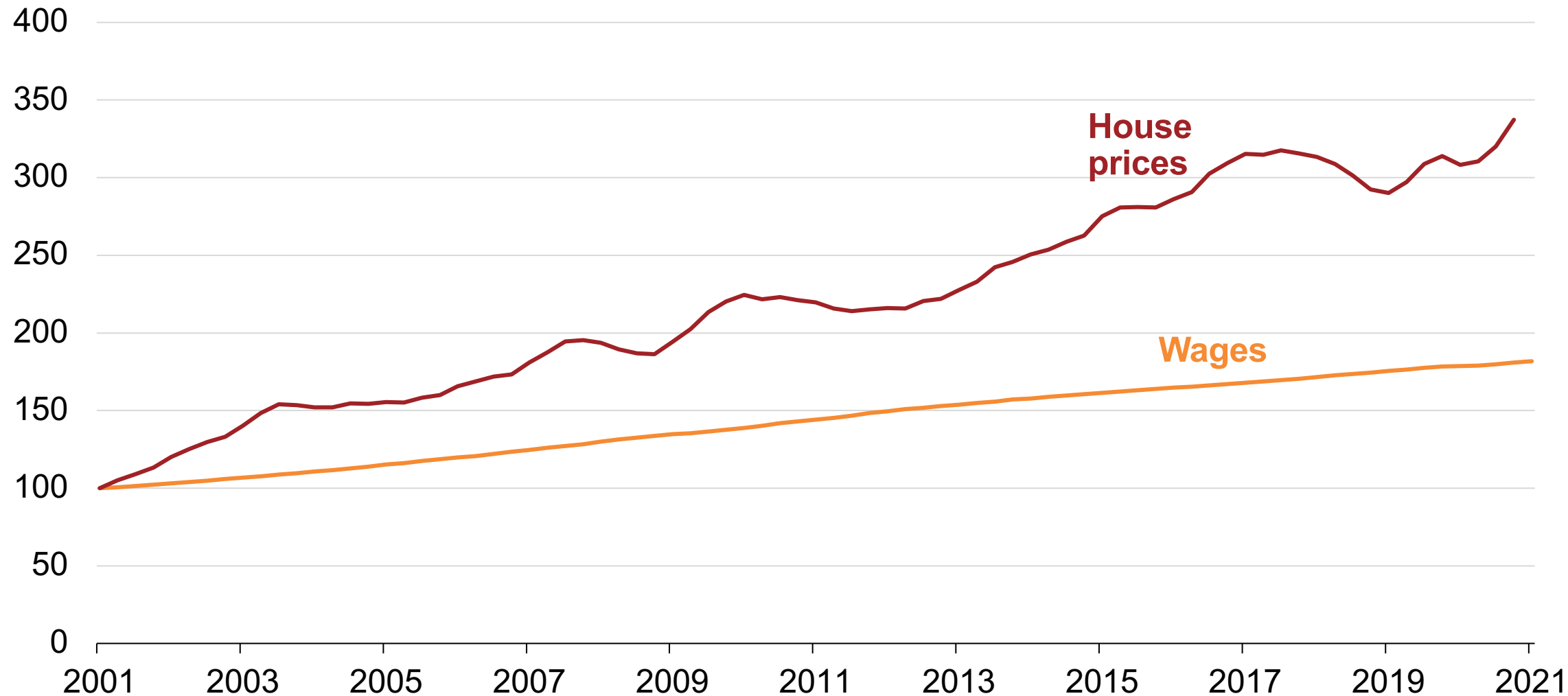


Notes: Individuals who donated more than \$60,000 have been categorised by industry if publicly available information showed they have financial interests in a given industry. The gambling industry's share of gross value added shown is all of 'Arts and Recreation', although gambling is only a subset of this.

Sources: Grattan analysis of party declarations to the AEC 2015-16 and 2016-17 and IBISWorld database.

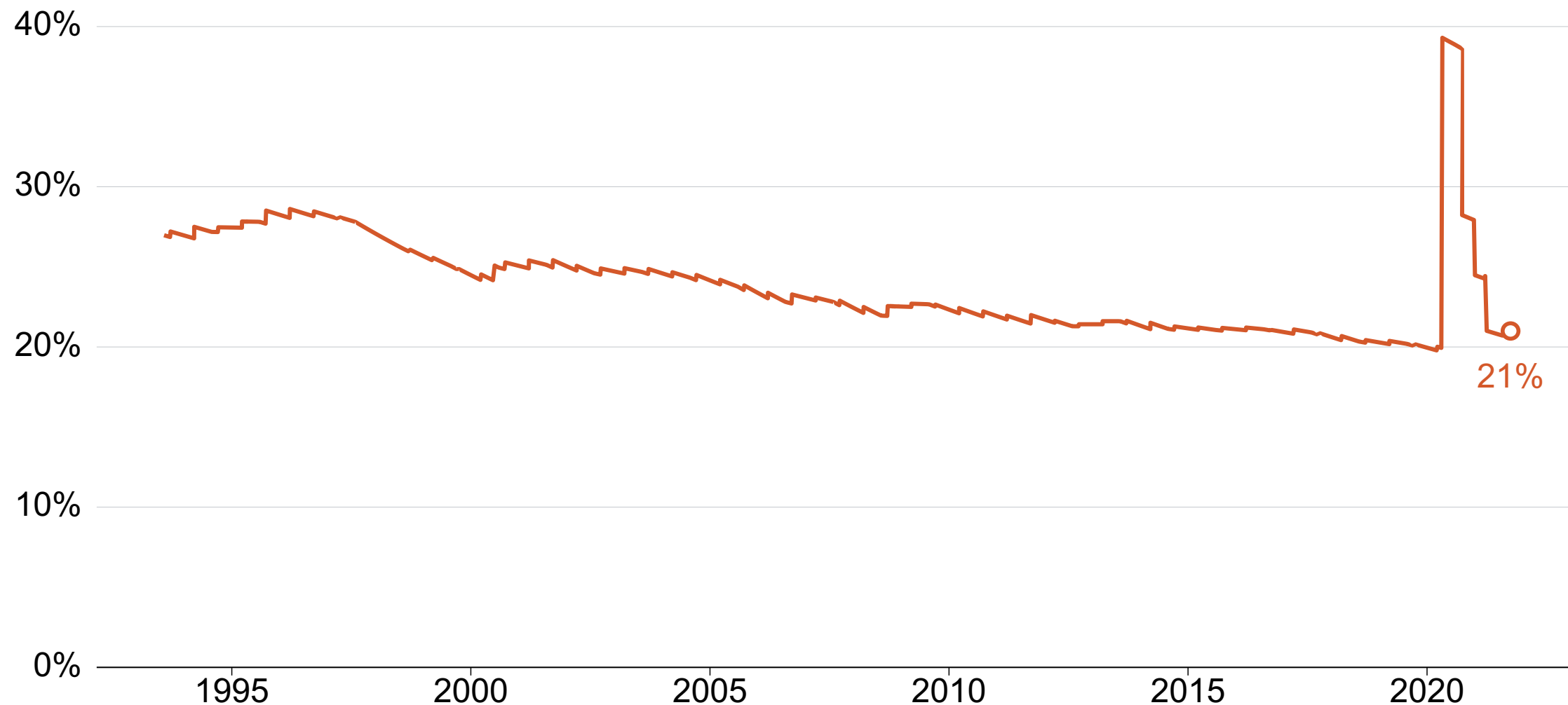
House prices have outpaced incomes for two decades

Nominal, index 2001 = 100



Unemployment benefits have fallen relative to wages over three decades

Unemployment benefit as a percentage of median wages



Notes: Includes Energy and Coronavirus supplements. Excludes Rent Assistance.
Sources: ABS 6333.0, DSS Guide to Social Security, and Grattan analysis.




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Thank you

Danielle Wood, CEO

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