



Unlocking Australia's R&D potential

Additional charts and analysis

JULY 2025

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Note: All dollar figures are Australian dollars unless indicated otherwise.

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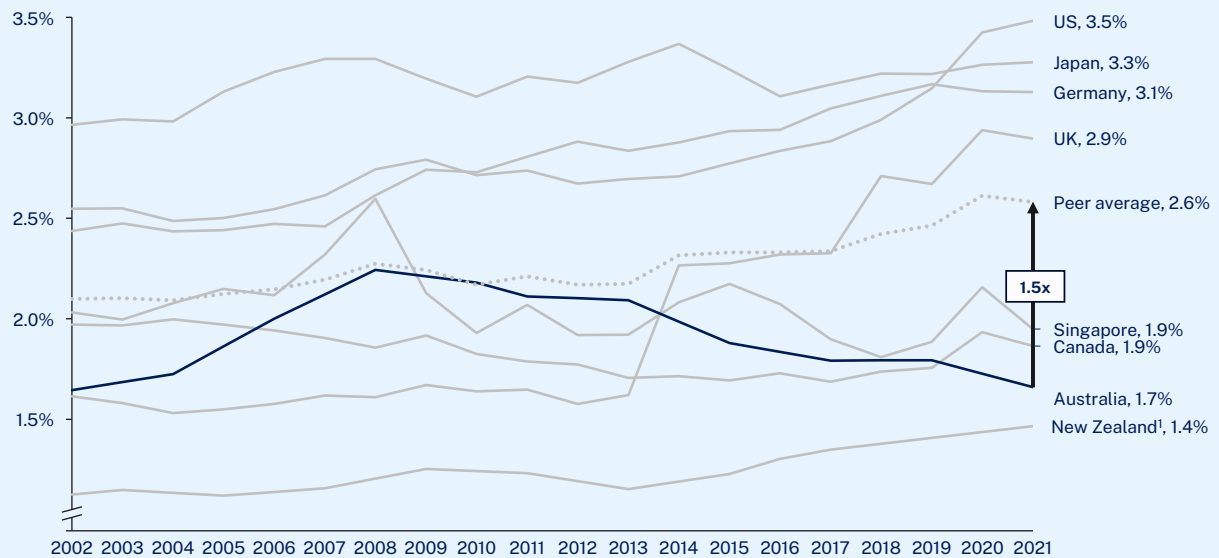
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Supporting charts and analysis

EXHIBIT 13

Gross domestic expenditure on R&D, Australia vs. peer countries

% of GDP, 2021



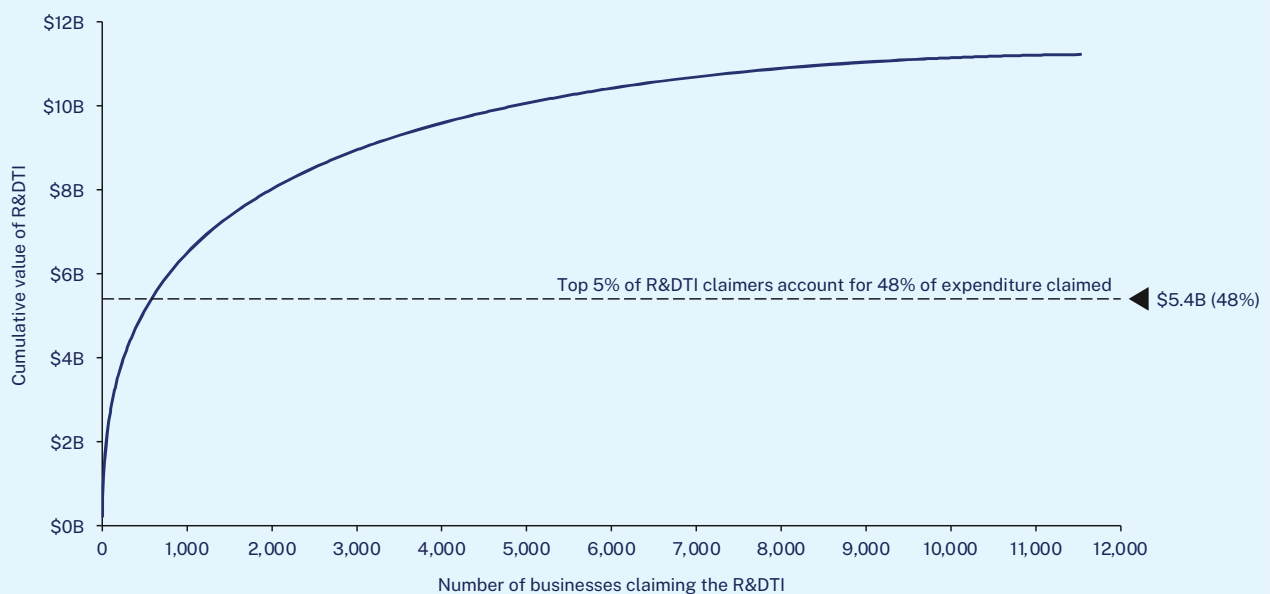
1. New Zealand collects gross domestic expenditure on R&D data biennially. To create annual data points, the missing years have been interpolated using the average of the preceding and following survey years.

Note: 'Peer average' includes a simple average of the R&D expenditure of Canada, Germany, Japan, New Zealand, Singapore, the United Kingdom, and the United States.
Source: OECD (2024) Main Science and Technology Indicators and Mandala analysis.

EXHIBIT 14

Cumulative distribution of R&DTI claims

\$B claimed on the R&DTI, FY21-22



Source: ATO (2024) R&DTI 2021-22 and Mandala analysis.

R&D worker identification methodology note

Analysis of R&D workers was conducted using Revelio Labs data, a bespoke dataset which provides detail on the jobs and skills of the Australian workforce. The cohort of R&D workers used in this analysis was created based on their job history and associated skills. Namely, these workers must have previously worked in an ‘R&D position’ and demonstrate they have ‘R&D skills’.

A job position was considered an ‘R&D position’ if it met the following inclusion criteria:

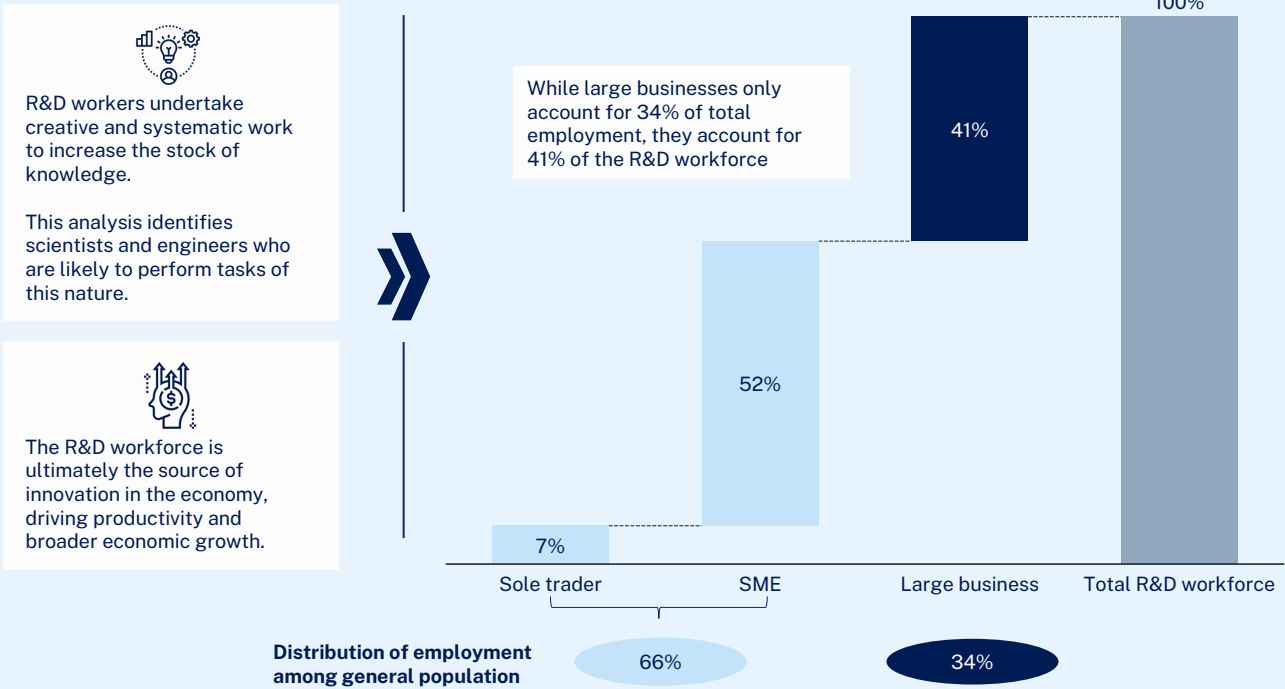
- The job category associated with the position was either ‘Scientist’ or ‘Engineer’, where these job categories are determined using Revelio’s classification process.
- Furthermore, the role classification (role_k300) associated with the position matched the roles of the ‘Scientists’ and ‘Engineers’ cohort working at the top 10 R&DTI claiming companies.

To then further reduce the cohort, we only included workers who demonstrate they had ‘R&D skills’, by using the Revelio’s skills data for each user. We similarly used the skills associated with the Scientists and Engineers working at the top 10 R&DTI claiming companies, for example, ‘R&D’. This removed workers who did not list any of their skills as we could not ascertain the extent to which they were undertaking research and development.

EXHIBIT 15

Number of R&D staff by business size

of current R&D workers based on Australian LinkedIn profiles, 2025



Note: It should additionally be noted that the definition of R&D workers used in this work involves only those directly performing R&D tasks in their capacity as an engineer or scientist. In reality, for every hour of labour performed by such an R&D worker, there are a number of hours of supporting R&D labour contributed by other types of workers. Source: OECD (2015) *Frascati Manual*; Australian Small Business and Family Enterprise Ombudsman (2024) *Contribution to Australian Employment*; Revelio data; and Mandala analysis.

EXHIBIT 16

R&D movements between high R&DTI claiming businesses, research organisations and SMEs

Thickness of lines: # of R&D worker transitions between companies, size of company logos: \$ of R&D investment

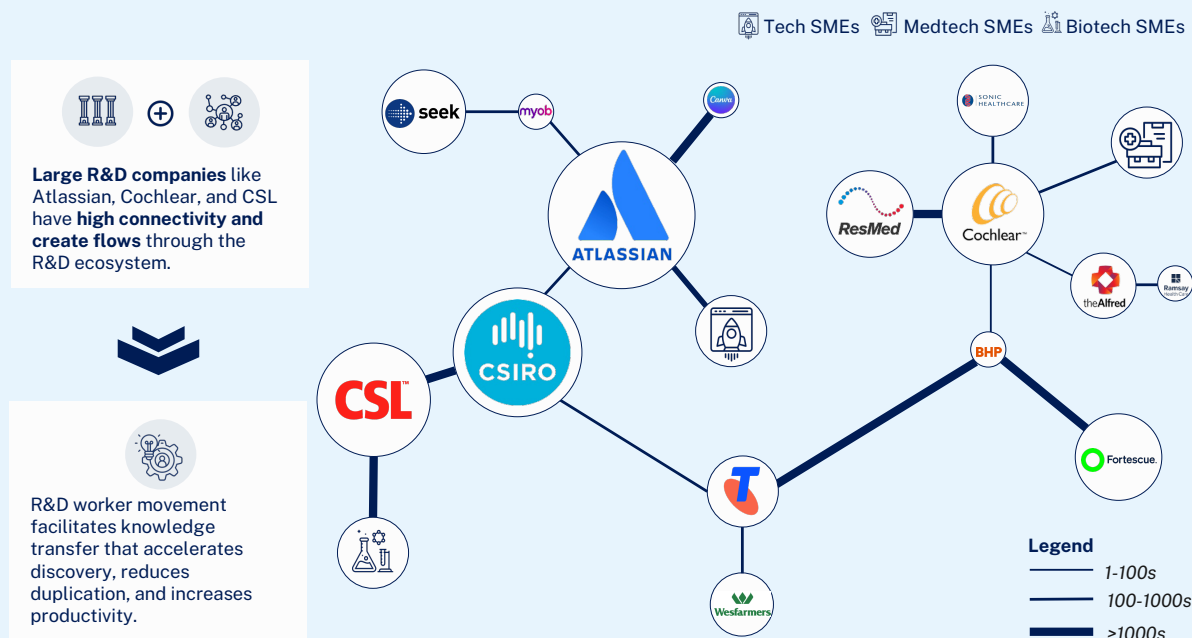


EXHIBIT 17

Business R&D expenditure decision framework

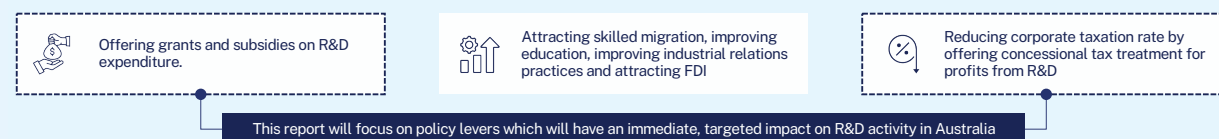
R&D



Commercialisation



Example policy levers



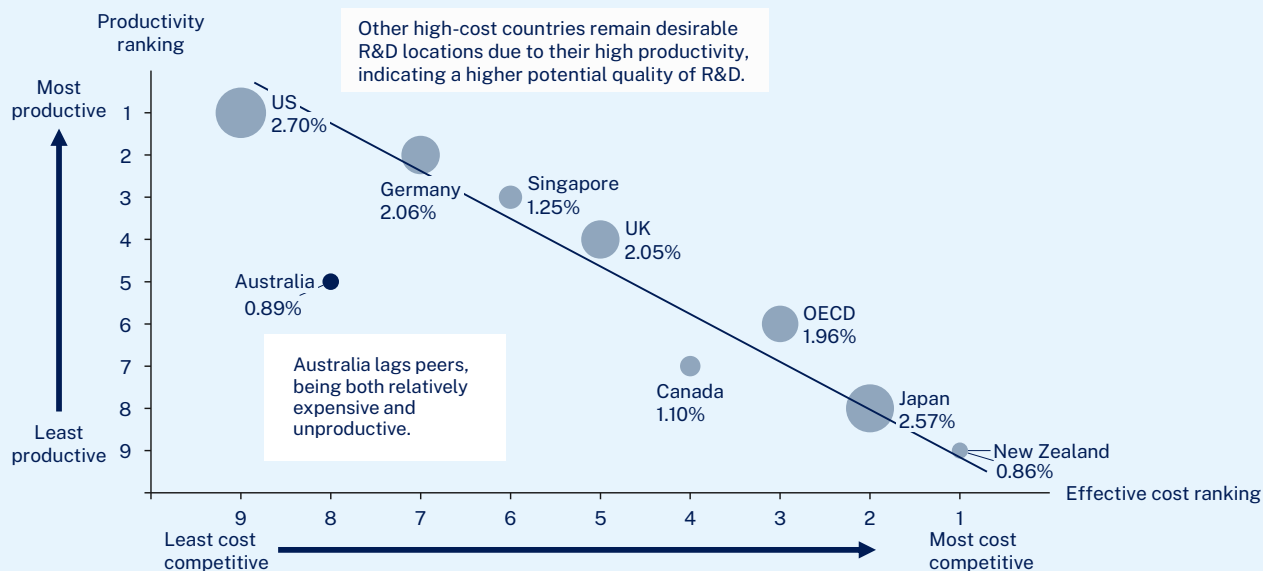
Source: Industry consultation and Mandala analysis

EXHIBIT 18

Relative costs of R&D and productivity across economies

x-axis: cost competitiveness ranking, y-axis: productivity ranking, size: business R&D expenditure as % of GVA, 2021

1% Business R&D expenditure as % of GVA



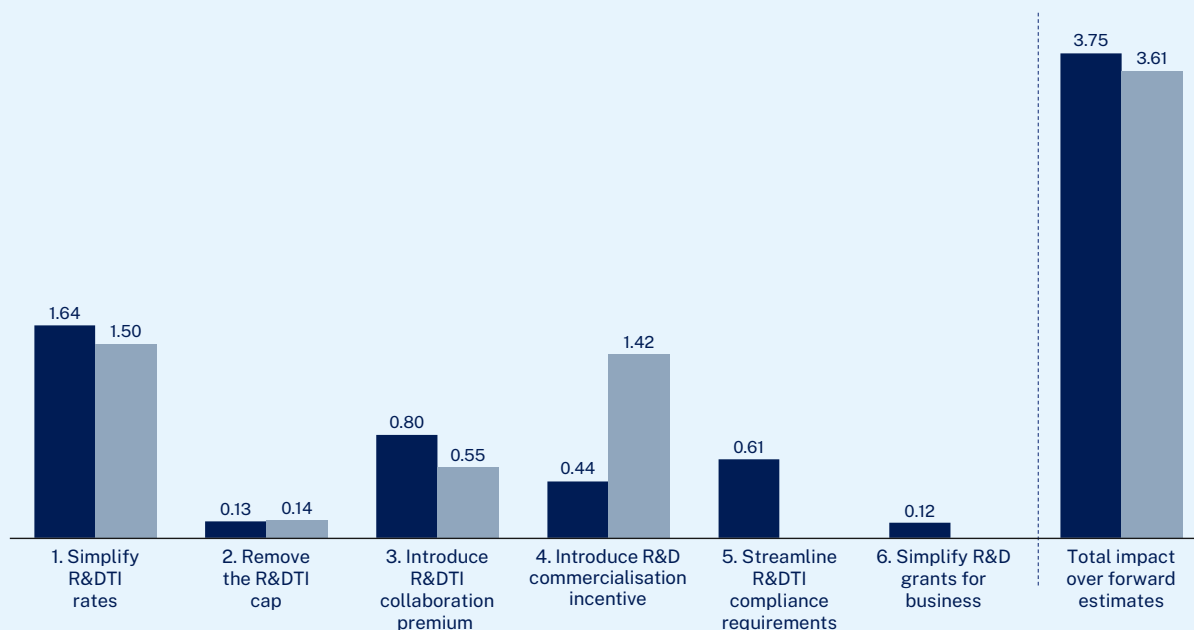
Source: OECD (2021) Value added per hour worked, SingStat (2021) Value added per hour worked; and Mandala analysis.

EXHIBIT 19

Estimated costs and benefits of proposed recommendations over the forward estimates

Fiscal cost and GDP uplift (\$B), 2026-2029

■ GDP uplift ■ Fiscal cost



Source: Mandala analysis.

EXHIBIT 20

Estimated net cost of proposed policy recommendations

Fiscal cost (\$B), 2026-2035

	Forward estimates					Medium term					Total
	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35	
Total costs (fiscal outlay)	0.45	0.50	1.22	1.44	1.56	1.67	1.80	1.81	1.83	1.84	14.12
Total benefits (GDP uplift)	0.16	0.63	1.14	1.81	2.30	7.84	9.38	15.13	19.04	19.73	77.15
Total additional tax revenue	0.03	0.12	0.22	0.34	0.44	1.49	1.78	2.87	3.62	3.75	14.66
Net cost to government	0.42	0.39	1.00	1.09	1.12	0.19	0.01	-1.06	-1.79	-1.91	-0.54

Note: Tax revenue has been estimated by applying the average ratio of Commonwealth Government taxation revenue to GDP (adjusted for inter-governmental transfers) to the estimated GDP uplifts.
Source: Mandala analysis.

EXHIBIT 21

Estimated annual costs of proposed policy recommendations

Fiscal cost (\$B), 2026-2035

Recommendation	Forward estimates					Medium term					Total
	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35	
1. Simplify the R&DTI rates	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	3.74
2. Remove the R&DTI cap	0.02	0.03	0.04	0.05	0.05	0.06	0.08	0.09	0.11	0.12	0.65
3. Introduce R&DTI collaboration premium	0.05	0.10	0.15	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.06
4. Introduce R&D commercialisation incentive	0.00	0.00	0.66	0.77	0.88	0.99	1.09	1.09	1.09	1.09	7.66
5. Streamline R&DTI compliance requirements	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6. Simplify R&D grants for business	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.45	0.50	1.22	1.44	1.56	1.67	1.80	1.81	1.83	1.84	14.12

Source: Mandala analysis.

EXHIBIT 22

Estimated annual benefits of proposed policy recommendations

GDP uplift (\$B), 2026-2035

Recommendation	Forward estimates					Medium term					Total
	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35	
1. Simplify the R&DTI rates	0.07	0.31	0.53	0.74	0.85	4.46	5.40	5.54	5.33	4.96	28.19
2. Remove the R&DTI cap	0.00	0.02	0.04	0.06	0.07	0.35	0.42	0.43	0.41	0.39	2.19
3. Introduce R&DTI collaboration premium	0.04	0.15	0.26	0.35	0.42	0.49	0.53	2.86	3.48	3.60	12.17
4. Introduce R&D commercialisation incentive	0.00	0.00	0.08	0.36	0.61	0.84	0.98	4.19	7.80	8.90	23.77
5. Streamline R&DTI compliance requirements	0.02	0.11	0.20	0.27	0.32	1.67	2.02	2.07	1.99	1.85	10.53
6. Simplify R&D grants for business	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.30
Total	0.16	0.63	1.14	1.81	2.30	7.84	9.38	15.13	19.04	19.73	77.15

Source: Mandala analysis.

EXHIBIT 23

Estimated annual additional tax revenue from proposed policy recommendations

Tax revenue to Commonwealth Government (\$B), 2026-2035

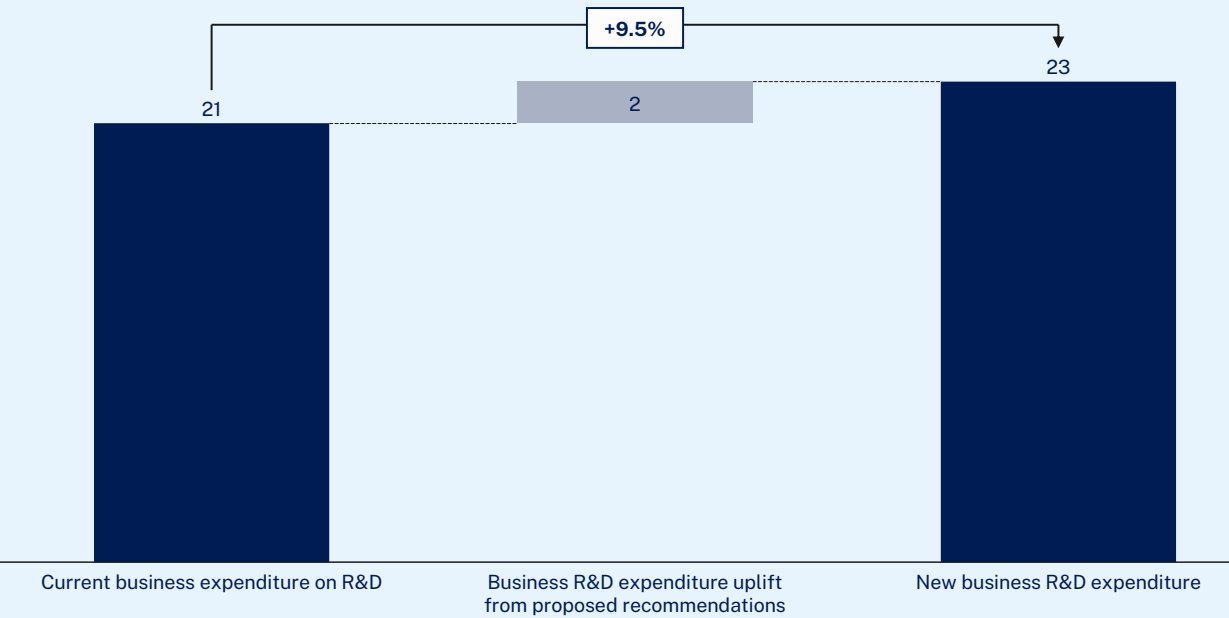
Recommendation	Forward estimates						Medium term				Total
	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35	
1. Simplify the R&DTI rates	0.00	0.00	0.01	0.01	0.01	0.07	0.08	0.08	0.08	0.07	0.42
2. Remove the R&DTI cap	0.01	0.06	0.10	0.14	0.16	0.85	1.03	1.05	1.01	0.94	5.36
3. Introduce R&DTI collaboration premium	0.00	0.00	0.02	0.07	0.12	0.16	0.19	0.80	1.48	1.69	4.52
4. Introduce R&D commercialisation incentive	0.00	0.02	0.04	0.05	0.06	0.32	0.38	0.39	0.38	0.35	2.00
5. Streamline R&DTI compliance requirements	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.06
6. Simplify R&D grants for business	0.01	0.03	0.05	0.07	0.08	0.09	0.10	0.54	0.66	0.68	2.31
Total	0.03	0.12	0.22	0.34	0.44	1.49	1.78	2.87	3.62	3.75	14.66

Note: Tax revenue has been estimated by applying the average ratio of Commonwealth Government taxation revenue to GDP (adjusted for inter-governmental transfers) to the estimated GDP uplifts.
Source: Mandala analysis.

EXHIBIT 24

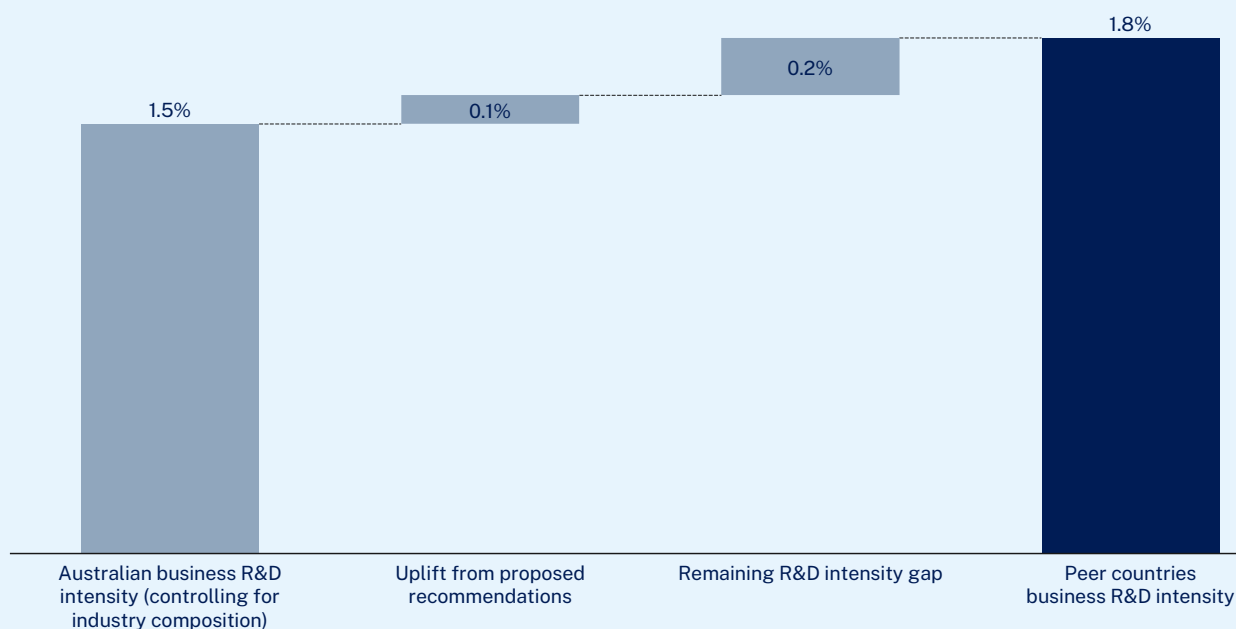
Estimated business expenditure on R&D uplift

Business expenditure on R&D (\$B), current (2021-22) and average annual uplift over 10 years



Note: R&D uplift is calculated as the average increase in business expenditure on R&D over the next 10-years from implementing the proposed recommendations.
Source: OECD (2024) Main Science and Technology Indicators and Mandala analysis.

EXHIBIT 25

Business R&D intensity, Australia vs international peers*Business R&D expenditure as a % of GDP, 2021*

Note: Industry composition adjustment made by applying Australian industry R&D intensities to peer average industry composition.
 Source: Mandala analysis.



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