

# THE ADVANCED PHYSICAL AND MATHEMATICAL SCIENCES—

underpinning Australian economic activity and worth \$292 billion each year

Physics, chemistry, the earth sciences and mathematics help to support our national wealth.

We need to continue our national commitment to the advanced\* physical and mathematical sciences if we are to recognise opportunities and capture the rewards. It is of substantial economic benefit.

There is a lot at stake.



Australian Government  
Office of the Chief Scientist



Australian Academy of Science

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\*Advanced means science undertaken and applied in the past 20 years.



11%

11% of Australian economic activity relies directly on the advanced physical and mathematical sciences.



22%

The total direct and flow-on impact of the advanced physical and mathematical sciences sector amounts to over 22% of Australian economic activity, or about \$292 billion per year.



760K

7% of total Australian employment (about 760 000 jobs) is directly related to the advanced physical and mathematical sciences.



\$145b

The direct contribution of the advanced physical and mathematical sciences to the economy is around \$145 billion per year.



75%

Labour productivity of workers in the advanced physical and mathematical sciences is estimated to be 75% greater than workers in the rest of the economy.



\$74b

Exports associated with the advanced physical and mathematical science activities are worth around \$74 billion a year. This is 28% of Australia's goods exports and equivalent to 23% of total Australian exports of goods and services.