

# ADVANCED PHYSICAL, MATHEMATICAL AND BIOLOGICAL SCIENCES\*—

underpinning Australian economic activity and worth \$330 billion each year

Physical, mathematical and biological sciences help to support our national wealth.

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



Australian Government  
Office of the Chief Scientist



Australian Academy of Science

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\*Advanced means science undertaken and applied in the past 30 years for the biological sciences and 20 years for the physical sciences.



14%

14% of Australian economic activity relies directly on advances in the physical, mathematical and biological sciences



26%

The total direct and flow-on impact of advances in the physical, mathematical and biological sciences amounts to 26% of Australian economic activity or about \$330 billion per year.



\$84b

Exports associated with advances in the physical, mathematical and biological sciences are worth around \$84 billion a year. This is 32% of Australia's goods exports and equivalent to 25% of total Australian exports of goods and services.



\$185b

The direct contribution of advances in the physical, mathematical and biological sciences to the economy is around \$185 billion per year



1.172m

10% of total Australian employment (about 1.172 million jobs) is directly related to advances in the physical, mathematical and biological sciences