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

Prepared by the Centre for International Economics for the Office of the Chief Scientist and the Australian Academy of Science.

*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.