

# ADVANCED MANUFACTURING INDUSTRY TRANSFORMATION PLAN

A plan to accelerate sector growth and transformation - co-created and co-owned by business, unions and workers, government, Māori, Pacific peoples and wider stakeholders

Aotearoa New Zealand advanced manufacturing has been prioritised for industry transformation due to its scale and potential to significantly increase productivity, higher wage jobs and a globally competitive low emissions sector. This plan covers both primary and non-primary sector manufacturing. "Advanced" manufacturing refers to the use of modern technologies and processes, rather than whether the final products are high-tech.

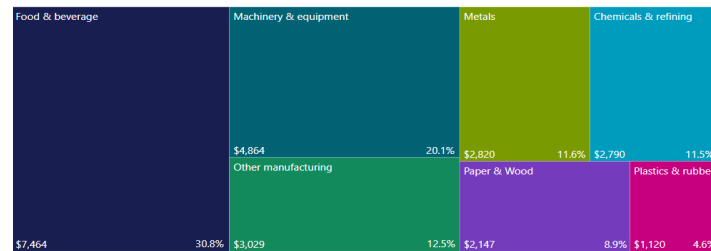
## VITALLY IMPORTANT FOR THE ECONOMY, JOBS AND COMMUNITIES

Advanced manufacturing makes up 10% of the economy (\$24.1 billion) GDP

Contribution of the seven manufacturing subsectors to New Zealand's manufacturing GDP 2020

73.5% of goods exports

Our biggest R&D spender (\$825 million)

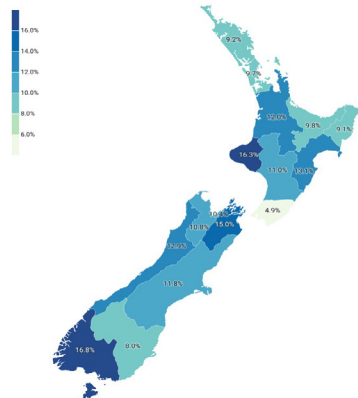


## A significant employer in both regions and cities

Employs 10.7% of the workforce (248,400 people)

45% of jobs are in regional New Zealand

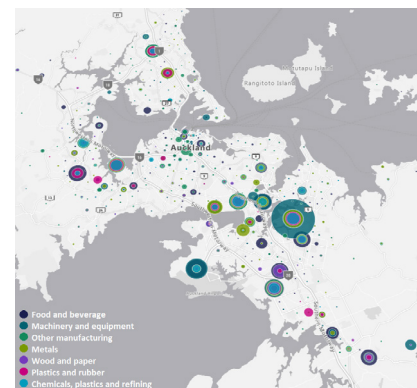
Manufacturing's share of regional employment 2021



2<sup>nd</sup> largest employer of Māori and Pacific peoples

Just over 1/3 jobs are based in Auckland

Distribution of advanced manufacturing employment in Tāmaki Makaurau Auckland, 2020



## TWO TRENDS PROVIDE AN OPPORTUNITY TO ACCELERATE GROWTH AND TRANSFORMATION

Fundamental shift through the application of advanced technologies and processes

Increased focus on sustainable, circular and low emissions economic activity

Aotearoa New Zealand advanced manufacturing can adapt and thrive in this changing landscape with the right action

## CO-CREATED AND CO-OWNED IN PARTNERSHIP

13 sector representatives on a Steering Group

44 sector representatives on four Working Groups

700 sector representatives through consultations

## Co-created by:



Business



Unions and workers



Government



Māori



Pacific peoples



Wider stakeholders

## Priorities for transformation

1. Increasing investment in advanced technologies and processes to lift productivity and wages
2. Developing and attracting a diverse high-skilled and high-wage workforce
3. Creating a leading sustainable circular net-zero emissions sector
4. Improving the understanding and perceptions of advanced manufacturing
5. Making innovation, R&D and science work for advanced manufacturing
6. Enhancing global connectivity and opportunities

## Sector vision

A thriving Aotearoa New Zealand advanced manufacturing sector of world-class creators, innovators and makers delivering quality products, sustainable solutions and intergenerational wellbeing

# SNAPSHOT: ADVANCED MANUFACTURING ITP PRIORITIES AND ACTION PLAN

The sector has developed a detailed Action Plan with specific initiatives and measurable implementation actions over 1 to 3 years, across 6 priorities

## PRIORITY 1: INCREASING INVESTMENT IN ADVANCED TECHNOLOGIES TO LIFT PRODUCTIVITY AND WAGES

1. Demonstrate the value of advanced technologies and processes
2. Company-specific advice on advanced technology and process adoption
3. Support greater capital investment in advanced technologies
4. Improve access and visibility of finance and funding opportunities

## PRIORITY 2: DEVELOPING AND ATTRACTING A DIVERSE HIGH-SKILLED AND HIGH-WAGE WORKFORCE

5. Online skills system map and long-term workforce plan
6. Individual Development Plans
7. Improve digital and foundational skills
8. Attraction Strategy to increase workers and diversity
9. Pacific-led pilot focussed on addressing systemic labour market barriers for Pacific peoples

## PRIORITY 3: CREATING A LEADING SUSTAINABLE CIRCULAR NET-ZERO EMISSIONS SECTOR

10. Map emissions and waste stream profiles
11. Embed circular economy principles in advanced manufacturing
12. Net-zero emissions advanced manufacturing

## PRIORITY 4: IMPROVING UNDERSTANDING AND PERCEPTIONS OF ADVANCED MANUFACTURING

13. Improving the understanding and perceptions of advanced manufacturing

## PRIORITY 5: MAKING INNOVATION, R&D AND SCIENCE WORK FOR ADVANCED MANUFACTURING

14. Map advanced manufacturing support networks
15. Strengthen advanced manufacturing networks
16. Aotearoa New Zealand Centre for Advanced Manufacturing Excellence
17. Ensure innovation, R&D and science supports commercial outcomes for the sector

## PRIORITY 6: ENHANCING GLOBAL CONNECTIVITY AND OPPORTUNITIES

18. Trade missions, strategic relationships, and improved global insights
19. Global advanced manufacturing study tours

## MĀORI PRIORITIES AND ACTIONS

Māori play an important role in the advanced manufacturing sector, that is the second largest employer of Māori and includes 870 Māori-owned businesses. The ITP identifies specific priorities for Māori throughout the Action Plan to help create more high-skilled high-wage work opportunities for Māori as well as support Māori-owned and Māori-led advanced manufacturing businesses.

For more information, including the full Advanced Manufacturing ITP and Action Plan, please go to [www.advancedmanufacturing.nz](http://www.advancedmanufacturing.nz)