



# Industry-University Immersion

– a formula for growing a high tech economy

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# Strategy for Business Growth Through Partnerships and Tech Development

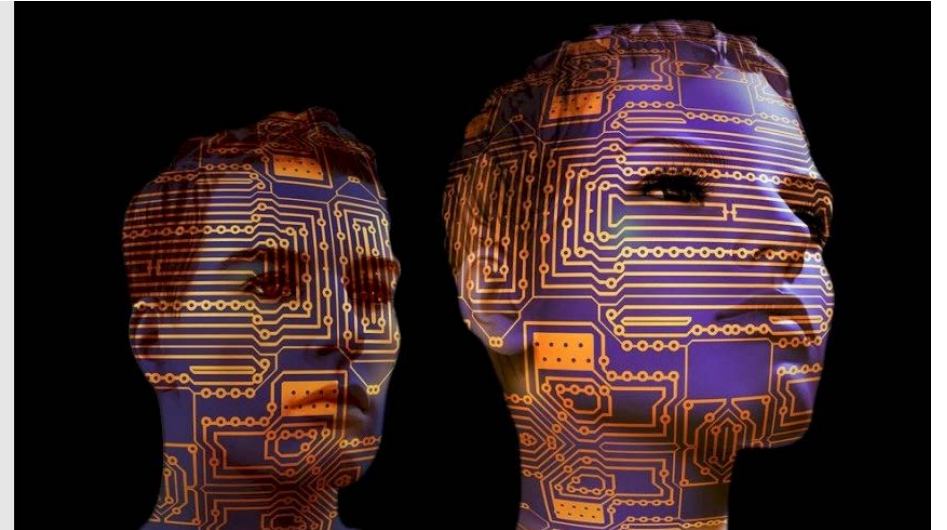
- Access world class technology through highly collaborative and leveraged research investments in focussed areas
- Investment in the next generation of in-country aerospace scientists & engineers



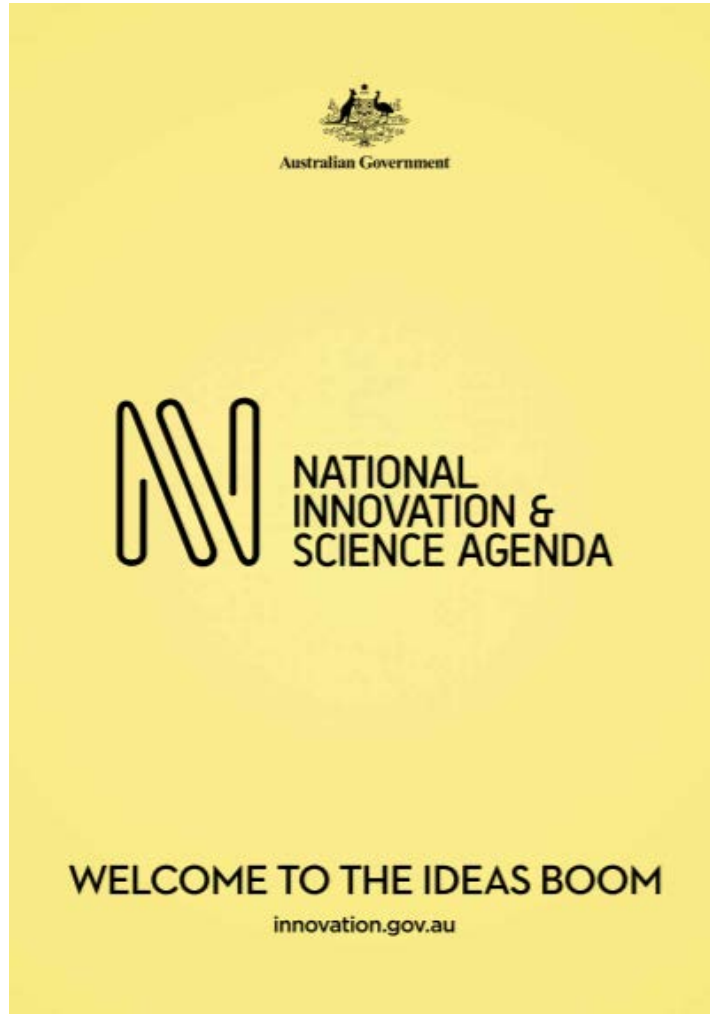
# Aerospace and Defence Manufacturing in the Age of Industry 4.0

**“The convergence of digitised machine parts, improved connectivity and emerging ‘Industry 4.0’ technologies has begun to reshape global aerospace and defence value chains.**

Traditional manufacturers and distributors supplying machinery, equipment, metal fabricated parts and electronics are being challenged by aggressive and agile competitors, offering less-expensive products with shorter development and delivery lead time”



# Australia's Future Prosperity



Australia 2030

Prosperity through

INNOVATION

A plan for Australia to thrive in the  
global innovation race



# Government Strategy – Seeding a High Tech Economy

- Defence White Paper
- Industry Policy Statement
- Integrated Investment Program



\$195 billion investment in Defence capability

\$1.6 billion in relationship between Defence, Industry and Universities



# Key Defence Initiatives



- Acquisitions Management & Capability Life Cycle – sustainment and growth



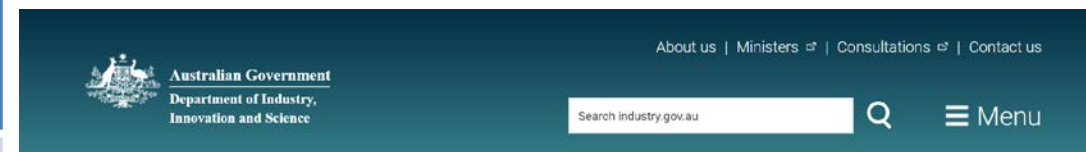
- Australian industry as a fundamental input into capability growth and sustainment – driving “new levels of cooperation” between industry and universities



# Driving Cooperation

## \$1.6b innovation initiatives in the White Paper

INNOVATION PROGRAM	LEAD	FUNDING to 2025-26	AIMED AT
Next Generation Technologies Fund	Defence Science and Technology	\$730 m	<b>Specific technology programs</b> , including: <ul style="list-style-type: none"> <li>• Integrated ISR</li> <li>• Space capabilities</li> <li>• Enhanced Human Performance</li> <li>• Medical Countermeasure Products</li> <li>• Multidisciplinary Material Sciences</li> <li>• Quantum Technologies</li> <li>• Trusted Autonomous Systems</li> <li>• Advanced Sensors, Hypersonics and Directed Energy</li> </ul>
Defence Innovation Hub	Strategic Policy and Intelligence	\$640 m	<b>Technology maturation in industry, industry development.</b> Interlocks Capability Technology Demonstrator Program, Defence Innovation Realisation Fund, Rapid Prototyping, Development and Evaluation Program, Priority Industry Capability Development Fund, Chief Information Officer Innovation Program and Defence Materials Technology Centre
Centre for Defence Industry Capability (CDIC)	Private Sector Defence Strategic Policy & Intelligence AusIndustry	\$230 m	<b>Enhancing business engagement:</b> industry development, enhancing innovation and business competitiveness and exports



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### Research and development tax incentive

The Research and development (R&D) tax incentive is the government's key mechanism to stimulate Australian industry's investment in R&D.

#### Encouraging businesses to invest in R&D

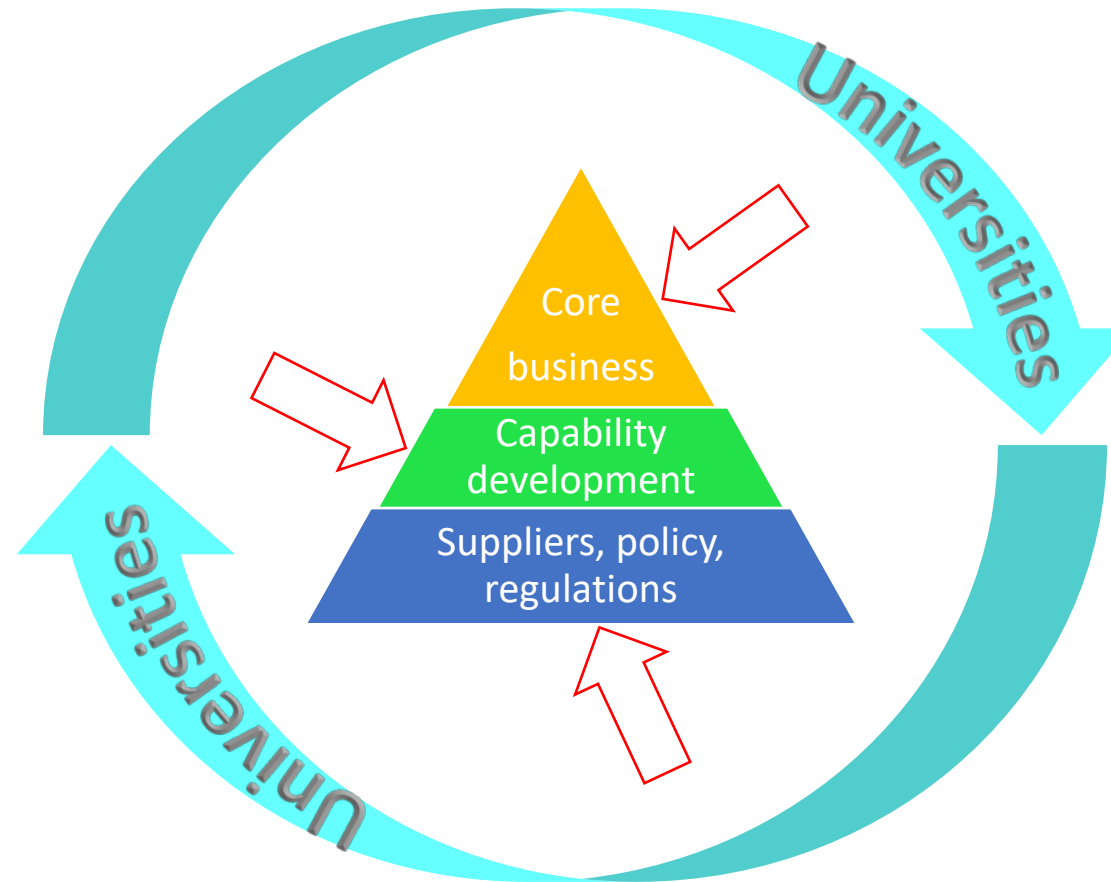
R&D is often the first, critical step in innovation, it drives technological improvements which lead to productivity improvements and increased economic growth.

Unfortunately, companies tend to underinvest in R&D for several reasons, including:

- not being able to capture the benefits of their R&D because new knowledge tends to leak out or 'spill over' to benefit competitors and the rest of the economy

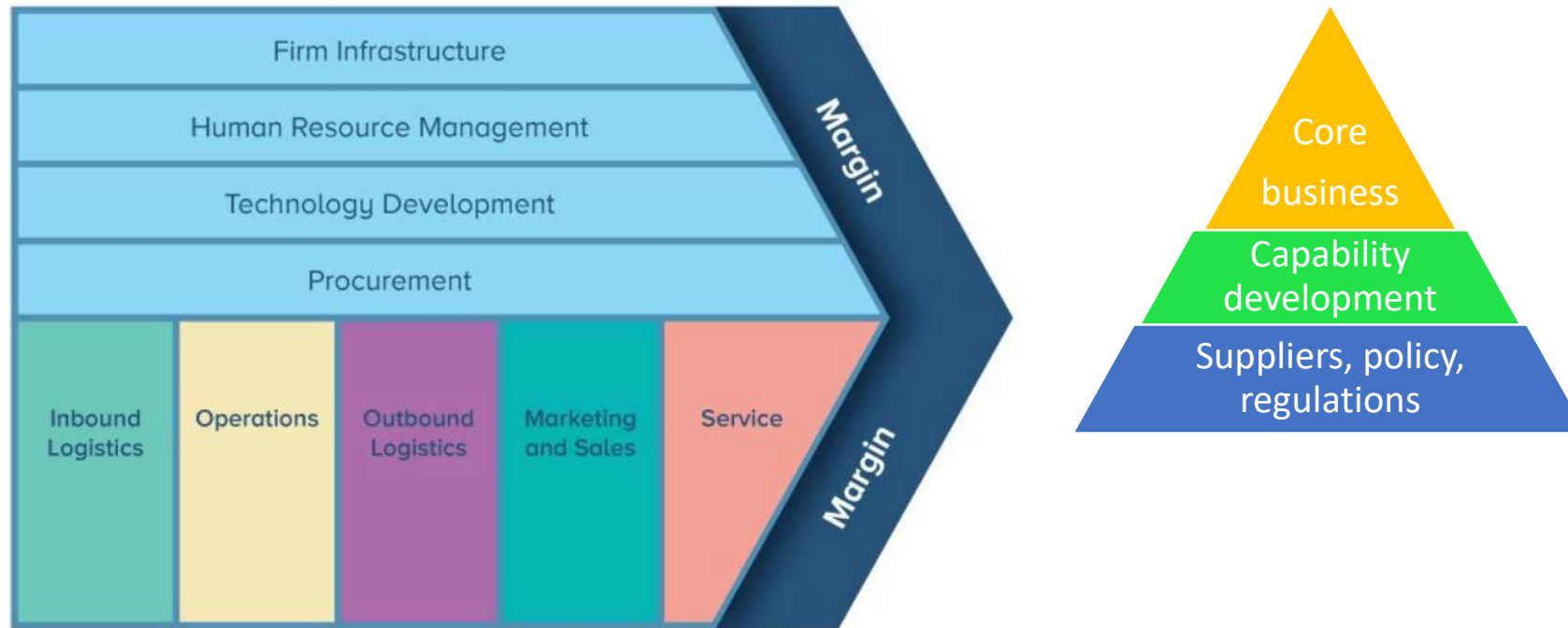


# How Can Universities Help Grow a Business?

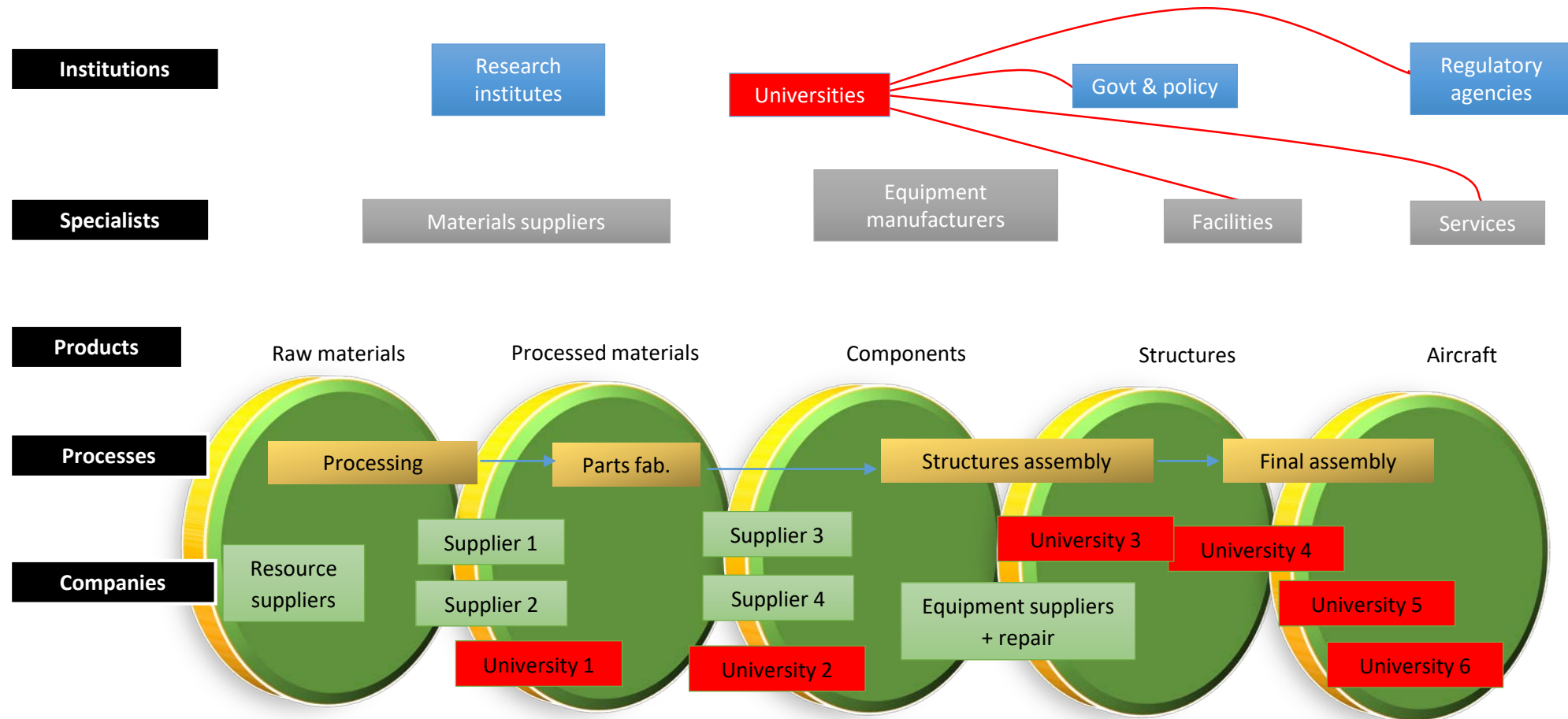




# Develop New Capability/Product by Supporting Coordinated Programs That Support the Entire Value Chain



# Global Value Network for Tech Transition



# How Can Universities and Industry Work Together More Effectively?

Leverage all of university expertise and facilities to holistically support business growth

Focus on the end game - customer needs, and let the customer drive the work

Support and enable immersion of personnel across sectors

Work together across universities building cross-institutional capability to complete the Value Chain

Change the paradigm of universities and make industry part of the fabric

Understand your IP position – IP gives a company a competitive advantage so should be owned by the company, not the university

