

The background of the top section is a complex financial chart with various colored lines (blue, green, yellow, red) and candlestick patterns, set against a dark blue background with a grid of light blue dots.

*the*  
**INDUSTRY**  
**PAPERS** FOUR FORUMS  
FOUR STATES  
ONE NATIONAL MISSION

POWERED BY  **InnovationAus.com**

# Author's guide

# Format

The Industry Papers will be published as an 80pp tabloid newspaper 289mm x 405 mm, the same size and style as the 2023 Capability Papers and 2022 Innovation Papers.

After the physical papers have been launched, the individual papers will also be published on the InnovationAus.com website.

Thursday 9 October 2023

# the CAPABILITY PAPERS

Australian ambition for a new industrial age PUBLISHED BY InnovationAus.com

**TOP 1 INTRODUCTION**  
Transition policies that drive our clean energy industry  
BY JAMES RILEY

**PAGE 16**  
MANUFACTURING & ENERGY TRANSITION  
Turning laser leadership into fusion power  
HEATHER HAYES

**PAGE 21**  
DEFENCE & DUAL USE TECH  
Defence: The strategic imperative for change  
EMMA HAZLE & JAMES HARRIS

**MID 20**  
DIGITAL, HEALTH, BIOTECH & MEDTECH  
The biotechnology market is more than just medicine  
SARAH GIBSON, JAMES HARRIS & TREVOR

**LOW 20**  
EMERGING TECH & POLICY DESIGN  
We are furnishing Australia's digital sovereignty  
SARAH GIBSON

**PAGE 23**  
2023 FISCALITY QUARTER  
Quantum computing's industrial prize for Australia  
FRANZISKA SCHMIDTKE

## Calibrating a new mission economy

The renewed focus on sovereign capability means Defence and Industry must work together

BY JAMES RILEY

**YOU KNOW THE AGE** thing in our lives these days is to be a professional with a specific skill set. My students who now share their own business cards with their industrial capabilities have found that new career opportunities are everywhere. The world is a more interconnected place than ever before. It's not just about the job, it's about the person behind the desk. The world is a more interconnected place than ever before. It's not just about the job, it's about the person behind the desk. The world is a more interconnected place than ever before. It's not just about the job, it's about the person behind the desk.

**Suddenly every glah in the pet shop is talking about industrial policy.**

Australia is not high enough in human capital development to compete with our neighbours. The average of our human capital development is lower than that of our neighbours. The average of our human capital development is lower than that of our neighbours.

Thursday 4 August 2022

# the INNOVATION PAPERS

Industry policy for an age of opportunity PUBLISHED BY InnovationAus.com

**SECTION 1 | PAGE 1**  
OUR PEOPLE, OUR CULTURE  
From digital delivery to digital democracy  
Understanding technology is key to better, more transparent government and trusted institutions  
BY LESLEY WELCH  
Plus 11 more stories

**SECTION 2 | PAGE 10**  
POWERING THE ECONOMY  
Releasing stranded tech to grow Aussie industry  
Defining the chains in Australia's research and development capabilities  
BY LESLEY WELCH  
Plus 9 more stories

**SECTION 3 | PAGE 20**  
CONNECTED NATION  
Rules as code: Regulatory infrastructure for digital  
Thinking about how to govern our digital spaces that are fit for purpose  
BY LESLEY WELCH  
Plus 10 more stories

**SECTION 4 | PAGE 30**  
SOVEREIGNTY AND RESILIENCE  
Generational change to power Aussie industry  
A change of leadership is needed in the way that we deal with national interests  
BY LESLEY WELCH  
Plus 4 more stories

## Building Australian capability

Industry development proposals for an economy in transition

BY JAMES RILEY

**HISTORY WILL JUDGE** whether 2022 is remembered as a watershed year for the industry development proposals. It will be remembered for the industry development proposals. It will be remembered for the industry development proposals. It will be remembered for the industry development proposals.

**There is a mountain to climb to build Australia's industries of the future**

Industry development proposals for an economy in transition. Industry development proposals for an economy in transition. Industry development proposals for an economy in transition.

## Capability Papers 2023

[View published papers](#)

[View tabloid version \(as sent to print\)](#)

## Innovation Papers 2022

[View published papers](#)

[View the tabloid version \(as sent to print\)](#)



# Sections

The content will be divided into nine sections.

Our organising principle for the Industry Papers is to map the editorial and policy ideas to the seven priority areas of the National Reconstruction Fund. We will have an additional focus on People & Culture (skills and ambition) and Government Tech (service delivery and procurement).

1. Resources
2. Transport
3. Medical Science
4. Defence Capability
5. Renewables and low emission technologies
6. Agriculture, forestry and fisheries
7. Enabling Capabilities
8. People and Culture
9. Government Tech

**2 Introduction** InnovationAus.com the CAPABILITY PAPERS

## Letter from the Publisher

**CORRIE McLEOD**

AS A PUBLICATION, *The Capability Papers* has arrived at an interesting moment for Australia. After 40 years of policies that have encouraged the globalisation of industries, suddenly there is a dramatic shift in the wind. The supply chain jolts brought about by the pandemic, the changing geostrategic landscape, and the increasing urgency of the global energy transition has meant that countries all over the world are now assessing their own industrial capability and capacity.

Australia is no different, where an unprecedented debate about industry development issues has been a feature of 2023. It is a statement of the obvious to point out that the Albanese government has shifted gears on industrial policy.

The creation of a \$15 billion National Reconstruction Fund, the largest peacetime investment in Australian manufacturing capability in the nation's history, is evidence of this, as is the \$292 million Industry Growth Program.

There has also been more discussion of procurement reform, as well as a massive uplift in tempo in the Defence portfolio around building domestic capability across dual-use technologies like quantum and AI.

Aber years in the wilderness, industry policy is now included as a central component of public discussions about national security, the energy transition, climate response, research and education.

The broad range of contributions to *The Capability Papers* has highlighted how profoundly important industrial policy discussions have become.

*The Capability Papers* is a big undertaking. We loved putting it together, but it can't happen without the support of outside sponsors. And so thank you to the Department of Defence, the Defence Science and Technology Organisation, Australia's national science agency CSIRO, Inanofocus, SentinelOne, Microsoft, METS Ignited, ANDHealth, and Entech Electronics.

There are many highlights in these papers, in particular discussions on procurement reform. Senator David Foscock highlights the preference among local SMEs to enter a government contract rather than be given a government grant.

Agile Digital's David Elliot outlines in detail how a 'Lemon Market' has developed in the federal government's procurement of its technology solutions – and suggests new ways to build procurement skills back into the Australian Public Service.

Hyperosix managing director David Waterhouse laments the yawning gap between industry department programs and Defence department programs, and says innovative Australian companies with dual-use technologies are being put at risk.

There are four separate papers on the commercial and defence potential of our long-term research investments into photonics and lasers, including Warren McKenzie's excellent exploration of opportunities for fusion energy.

The chief defence scientist Professor Tanya Monro and the interim head of the Advanced Strategic Capabilities Accelerator Professor Emily Hilder detail how internal changes inside Defence will make it easier for smaller Australian innovators to engage with the department.

Professor Anton Van Den Hergeul says developing sovereign AI capability is a national security issue, while Professor Toby Walsh says a massive investment in building a pipeline of PhDs in AI would be a low-cost investment with big returns for the nation.

And METS Ignited's Frances-Ann Adams-Bauer wants universities and research institutions to get over Australia's obsession with IP to unlock the commercial development potential of research.

Industry policy impacts us all in creating jobs, building national wealth, providing economic strength, and contributing to defence and national security. *The Capability Papers* is our contribution to that national debate.

Corrie McLeod is a communications reform, social justice and publisher of InnovationAus.com and CEO of Hello Express Group.

### What's inside:

- SECTION 1 INTRODUCTION**
  - Australia's clean energy opportunity **DR ALAN FINKEL** PAGE 3
  - Redefining our national innovation mission **PROFESSOR DIJ MAHINA / YUE ZHANG, PROFESSOR ROY GREEN & PROFESSOR MARK SANDSSON** PAGE 7
  - It takes a village: Building our local tech ecosystem **BELINDA DENNEFF** PAGE 11
  - Australia must get over its IP obsession **ADITHYAN REELI** PAGE 13
- SECTION 2 MANUFACTURING & ENERGY TRANSITION**
  - Turning laser leadership into fusion power **DR WARREN MCKENZIE** PAGE 15
  - Energy debate: Taking the nuclear option **CHRISTOPHER WINNIE** PAGE 17
  - In this defining decade, our energy choices are critical **DR JIHAN KANGA** PAGE 19
  - Materials science: Shaping the future of manufacturing **DR MARCUS ZIPPER** PAGE 22
  - Leveraging decades of photonic research investment **DR SHIMON POGOLE** PAGE 24
  - Net Zero: Concrete innovation must lay the foundation **CLARE TURGOLETS** PAGE 26
  - Plasma power: Our renewable advantage **PROFESSOR MARCELA BILEK, DR YUNKUA YANG & DR TONY MURPHY** PAGE 27
- SECTION 3 DEFENCE & DUAL-USE TECH**
  - Bridging the funding gap between industry and **Defence** **DAVID WATERHOUSE** PAGE 29
- SECTION 4 DIGITAL HEALTH, BIOTECH & MEDTECH**
  - The Australian bioeconomy market is more than medicine **PROFESSOR SANKHAI PRAETORIUS, PROFESSOR IARI PAULSEN & THOM DIXON** PAGE 45
  - Australia's path to disrupting global BioTech and MedTech **DR DENIS BAUER** PAGE 48
  - Biomedical research translations: A look at bioconjugation **PROFESSOR SUSIE NILSSON** PAGE 49
  - Bolstering the lessons of self-reliance to fight the next pandemic **MIKE JUNGER** PAGE 50
- SECTION 5 EMERGING TECH & POLICY DESIGN**
  - We are fumbling Australia's digital sovereignty **DAVID ELLIOT** PAGE 52
- SECTION 6 2023 PEARCEY ORATION**
  - Quantum attraction: The industrial prize for Australia **PROFESSOR MICHELLE SIMMONS** PAGE 75
- SECTION 7**
  - Sovereign robotics and autonomous systems are a national security imperative **DR SUZUTON** PAGE 31
  - Directed energy weapons are no longer science fiction **MATT JONES** PAGE 33
  - Accelerating Defence innovation: The strategic imperative for change **PROFESSOR EMILY HILDER & PROFESSOR TANYA MONRO** PAGE 35
  - Sovereign capability in AI is a national security issue **PROFESSOR ANTON VAN DEN HERGEL** PAGE 37
  - SME micro-partnerships can underpin AIUKUS **SARAH RAYVILLARD** PAGE 39
  - Fostering mission-driven industry excellence **DR RIGEE MARGREY & PROFESSOR TANYA MONRO** PAGE 41
  - Putting a laser focus on dual tech opportunities **PROFESSOR NIPTAR GANJIA** PAGE 43
  - Can we build a regulatory digital twin? **SIGRIDINE BLEVIN & MARINA VASTREBCKE** PAGE 71
  - 'Delivery science' is a new model for industry **CHRISTIAN RUSBERG** PAGE 73
  - Breaking down decision-making silos **PROFESSOR JOHAMMA WEAVER** PAGE 80
- SECTION 8**
  - It's time to call in the (technology transfer) professionals **WITALIE CHAMPAH** PAGE 55
  - APSLabs could be the ultimate GovTech sandbox **WILLIAM SCHEER** PAGE 57
  - Buckle up: The AI genie is out of the bottle **DR IAN OPPERMAN** PAGE 59
  - Public sector procurement reform to build local industry **LAMJO PODOCK** PAGE 61
  - Fostering talent that is hiding in plain sight **ALITAIR GORDON** PAGE 63
  - Home-grown AI is a key building block for our future **PROFESSOR TOBY WALSH** PAGE 65
  - Business makerspaces can bridge innovation gaps **HOLGER DIEHLBERG** PAGE 67
  - 'We need a common language for digital skills.' **JENTAR VILK & RASTHAKANTOD** PAGE 69

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# Word counts

Word counts are difficult to estimate without knowing the subject of a paper, but to give you an idea for planning purposes, on a tabloid-page, this is roughly how word counts are laid out. Should your paper outline be accepted, we'll discuss and confirm an appropriate word count.

Large paper: 3-4 pages / 3,000 - 3,500 words

Medium paper: 2 pages / 1,500 - 2,000 words

Small paper: 1 page / 800 - 900 words

MEDIUM

This is a two-page spread from 'Connected Nation' magazine. The main headline is 'A manufacturer's paradise? Building our food ecosystem'. The sub-headline reads 'Whom-of-level-of leadership is needed for the food and agricultural sector to meet its full potential?'. The article is written by Melissa Kelly. The layout includes a large drop cap 'T' at the start of the first paragraph, a small portrait of the author, and two sidebars. The top sidebar features a map of Australia titled 'Australia's Food and Agribusiness sector' with a callout 'with 1.1 billion people'. The bottom sidebar features a line graph titled 'Australia's Food and Agribusiness sector' showing a rising trend. The text is arranged in columns, with a mix of bold and regular fonts.

SMALL

LARGE

This is a two-page spread from 'Powering the Economy' magazine. The main headline is 'Releasing stranded technology to grow industry'. The sub-headline reads 'Bringing M4 chains in Australia's research communication capabilities'. The article is written by Melissa Kelly. The layout includes a large drop cap 'I' at the start of the first paragraph, a large photograph of a factory interior, and a sidebar with a portrait of the author. The text is arranged in columns, with a mix of bold and regular fonts. At the bottom, there is a logo for 'GRANICUS Empowering Deliberate Democracies' and the website 'Granicus.com.au'.

This is a single-page spread from 'Connected Nation' magazine. The main headline is 'Towards a connected national innovation ecosystem'. The sub-headline reads 'Delivering integrated innovation outcomes through a system of connected cross-sector networks'. The article is written by Rachael Dale Watson, OBE, PhD. The layout includes a large drop cap 'M' at the start of the first paragraph, a photograph of a landscape with waterfalls, and a sidebar with a portrait of the author. The text is arranged in columns, with a mix of bold and regular fonts.

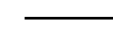


# Author biography and headshot

Please supply a recent, high quality **headshot**. Our illustrator will turn it into a stylised black/white author image.

Please also supply an **author biography** to appear beneath the author pic with each paper. Word count: 50-100 words (keep it tight!)

The 2023 Capability Papers had 45 contributors and the 2022 Innovation Papers had 40 contributors.



*Dr Jens Goennemann is Managing Director of the Advanced Manufacturing Growth Centre (AMGC). Jens joined AMGC as the inaugural Managing Director in 2016 where he brings extensive experience from overseeing large manufacturing operations in Australia and Europe. He has previously held senior positions at Daimler-Benz Aerospace and Airbus Group.*

