



Wireless Innovation Lab

Thas Nirmalathas and Kandeepan Sithamparanathan
Launch Event



Wireless
technologies
bring
unprecedented
capabilities

5G

WiFi6

LORA

IoT

Bluetooth

Wireless Energy

Space

Bandwidth

Latency

Scalability

Resilience

Reach

Capacity

Energy Efficiency

Security

Flexibility

Positioning

Roadmaps

Combining with
adjacent
technologies
creates new
possibilities

Edge Computing

Artificial Intelligence

Sensors

Automation and Control

Human- Machine Interfaces

Optimisation



Across many sectors,
innovation can be
accelerated to introduce new
ideas, products, processes,
and services



Alignment of Capabilities and Interests

Industry

- Business insights
- Identified opportunities
- Market connections
- Innovative ideas
- Willing to collaborate

Universities

- Academics with research track record and transferable skills and knowhow
- Bright students and research scholars keen to develop innovation mindset and skills
- Interdisciplinary and disciplinary knowledge domains
- Commitment to collaborate

Governments

- Commitment to accelerate jobs and economic growth
- Demonstrate benefits of technology adoption in priority sectors
- Connect industry to innovation sector



WILAB's focus



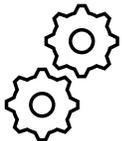
Co-create innovative solutions in partnership with industry and end-users



Establish and strengthen enduring sovereign research capabilities in key technology domains



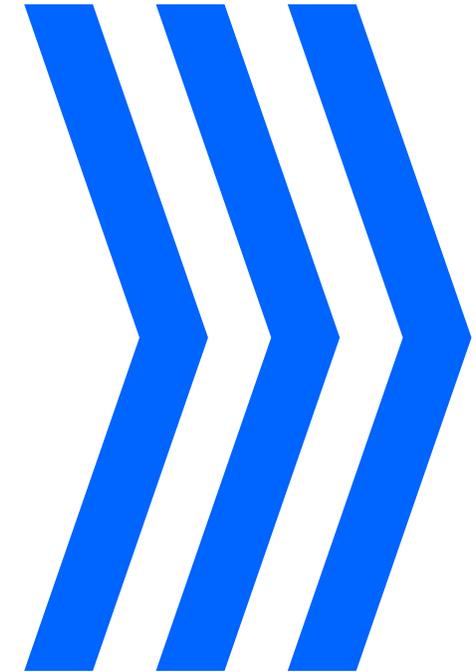
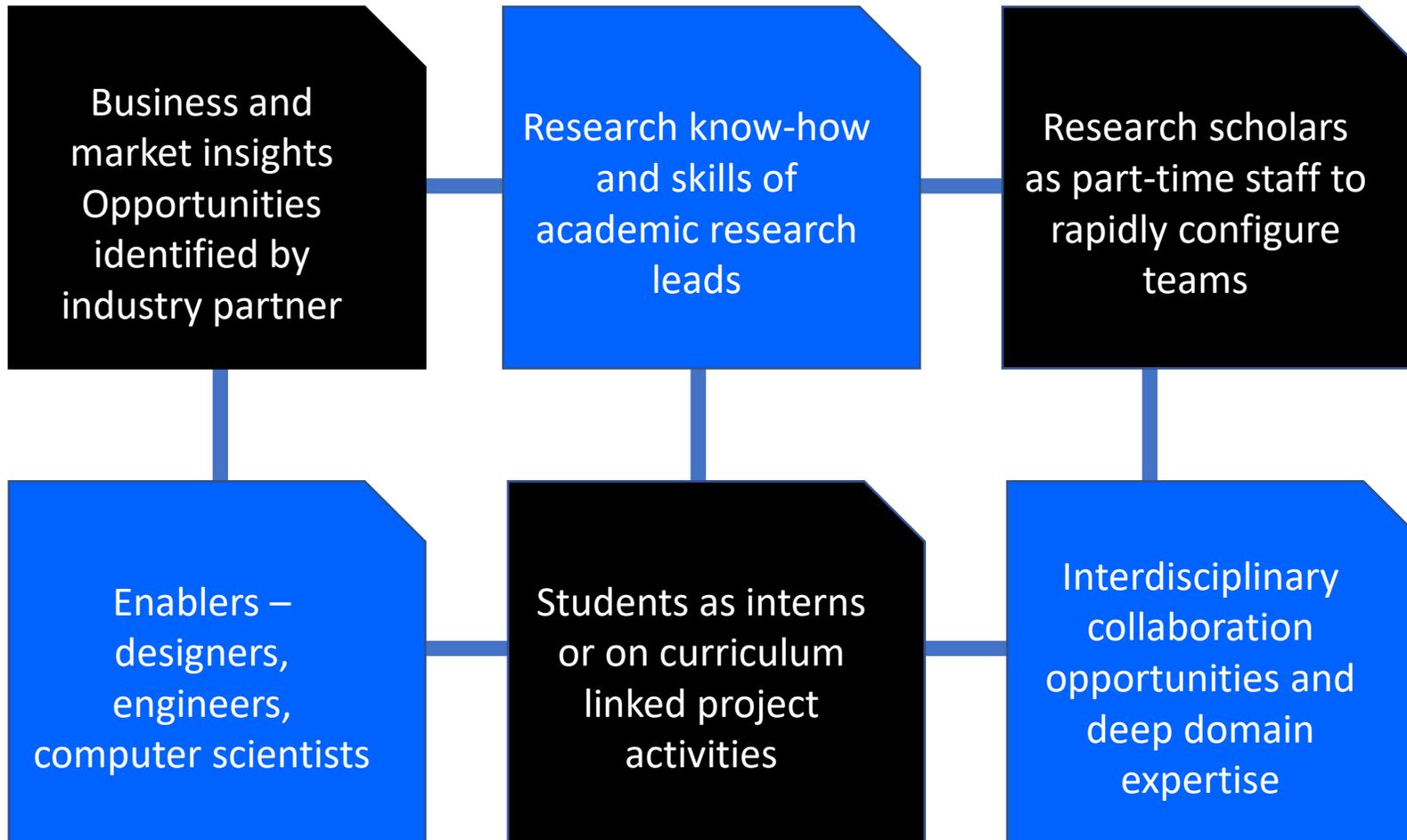
Train design engineers and researchers with an innovation mindset and skills for high-tech jobs



Nurture a strong culture of collaboration and foster a strong university-industry nexus



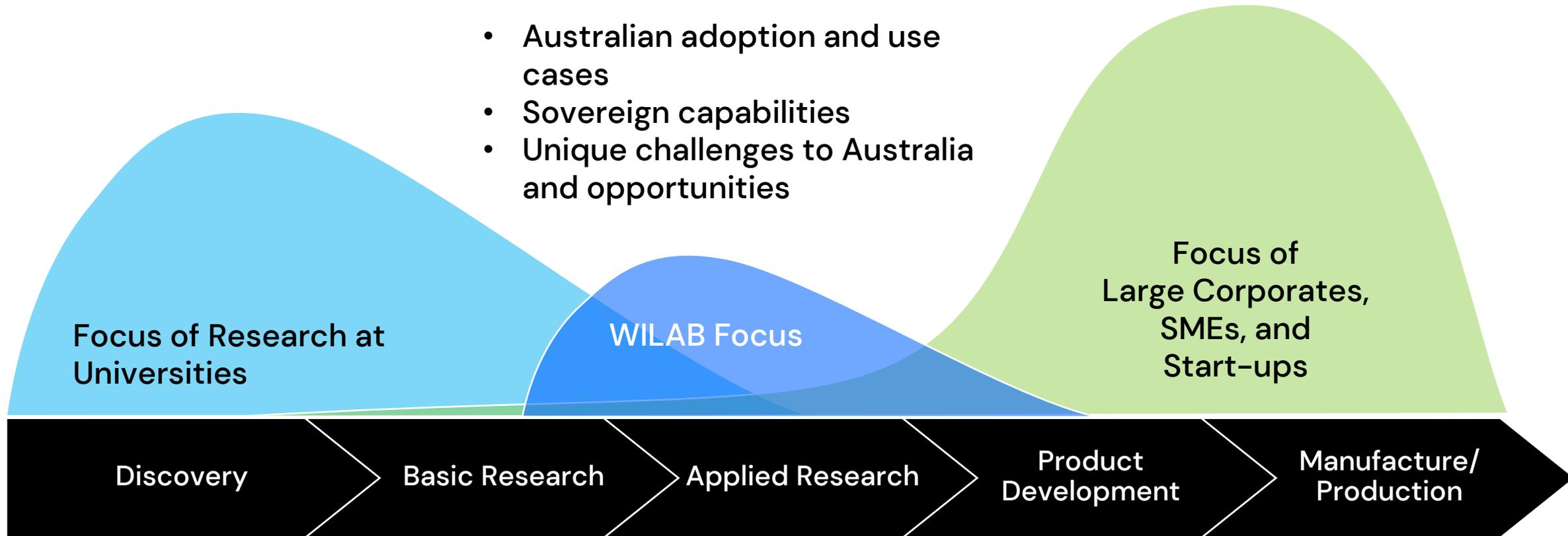
WILAB's Innovation Acceleration





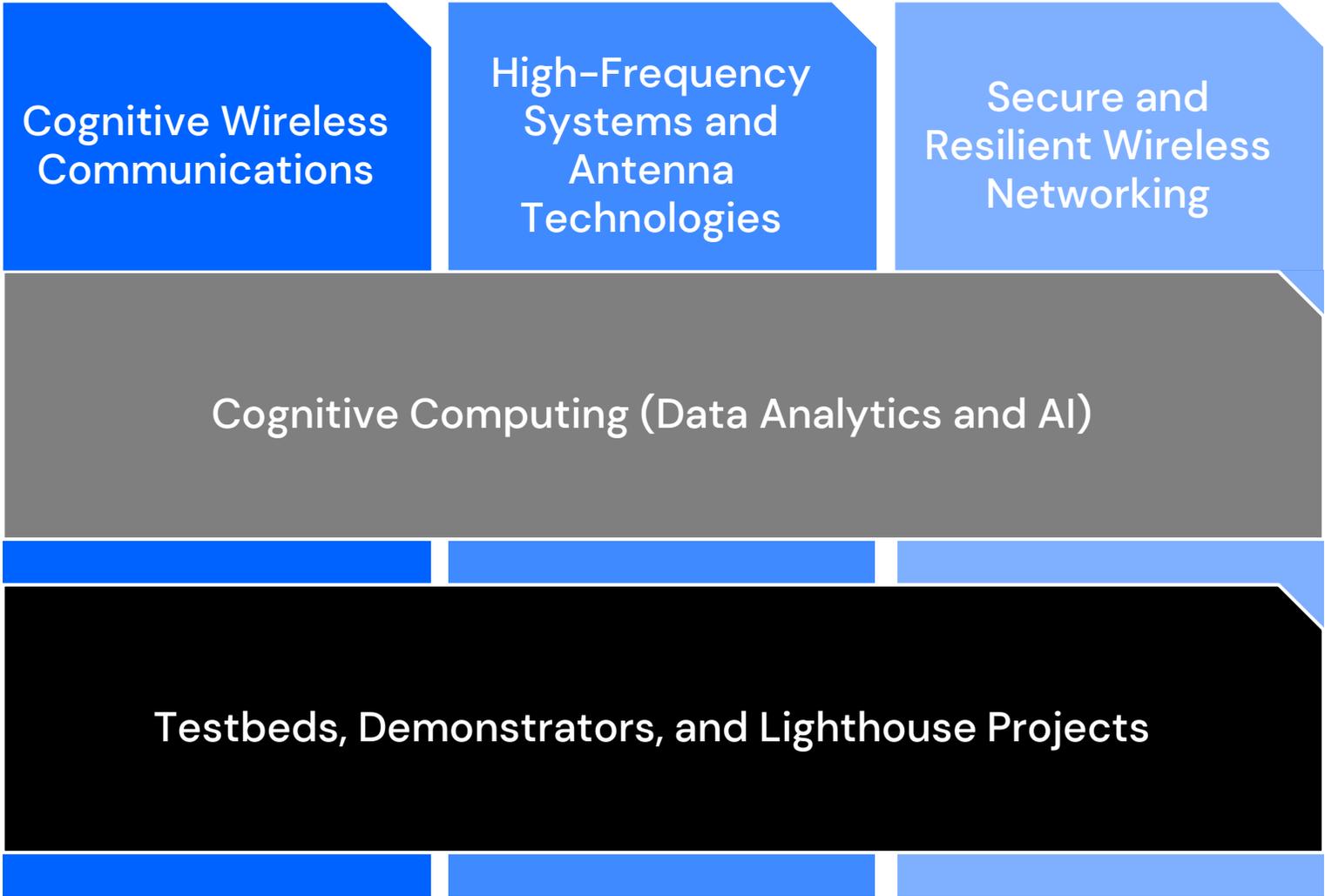
WILAB's Positioning on the Innovation Valley

- Australian adoption and use cases
- Sovereign capabilities
- Unique challenges to Australia and opportunities





WILAB's Research Programs



Lighthouse projects across key sectors as exemplar activities

Healthcare



Defence



Transport



Agriculture



Mining



Manufacturing



Demonstration of sector wide benefits



**Wireless Innovation
Laboratory seeks to
partner with Industry in
this journey**





Engagement Models

Innovation Fellows

- Cross-disciplinary teams of students as interns or fellows
- Embedded within partner organisations

Innovation Accelerator Projects

- 6-12 months
- Shared Resources towards accelerated development of solutions

Challenge Projects

- 1-2 years, single partner
- Dedicated Resources
- Projects tackling challenging problems defined by Partner

Lighthouse Projects

- Duration 1-2 years, multiple stakeholders
- High-profile exemplar projects validating solutions with sector-wide application
- Cross-disciplinary teams

Research Scholars

- 3-4 years, single partner
- Up to 1:2 leveraging of direct investment via industry grant schemes (Industrial Transformation Research Program, CRC-Ps, Linkage Projects)

**WILAB
Activation Via
Victorian Higher
Education State
Investment
Fund**

Universities \$5M In-Kind Investment

+

Seeking Industry \$5M Cash

+

Leverage Victorian Government \$10M

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Enduring WILAB



WILAB will become a successful innovation acceleration platform

Talent Pipeline

Successful
Innovation
Partnerships

Technology
Adoption
Demonstrators

Micro-
Certificates

Industry-
University
Collaboration





Australian 5G Innovation Initiative

Industry Led Demonstrators

unimelb.edu.au/wilab



Australian Government

**Department of Infrastructure, Transport,
Regional Development and Communications**

**WILAB is keen to partner with
industry in their bids under
this scheme!**



WILAB's Aspirations

- ❖ Premier wireless technology innovation centre for Australia
- ❖ Enabler of adoption of wireless technologies that shapes our lives in the future
- ❖ Focus on Australia's unique landscape, needs, and opportunities
- ❖ Cocreate solutions on our shared journey to 2030 and beyond
- ❖ Collaborative endeavours that are shaped by the needs of industry and society

We will be in touch with further details.

You can also reach us via:
nirmalat@unimelb.edu.au

unimelb.edu.au/wilab

