



**MONASH**  
University

# Data Science and AI platform

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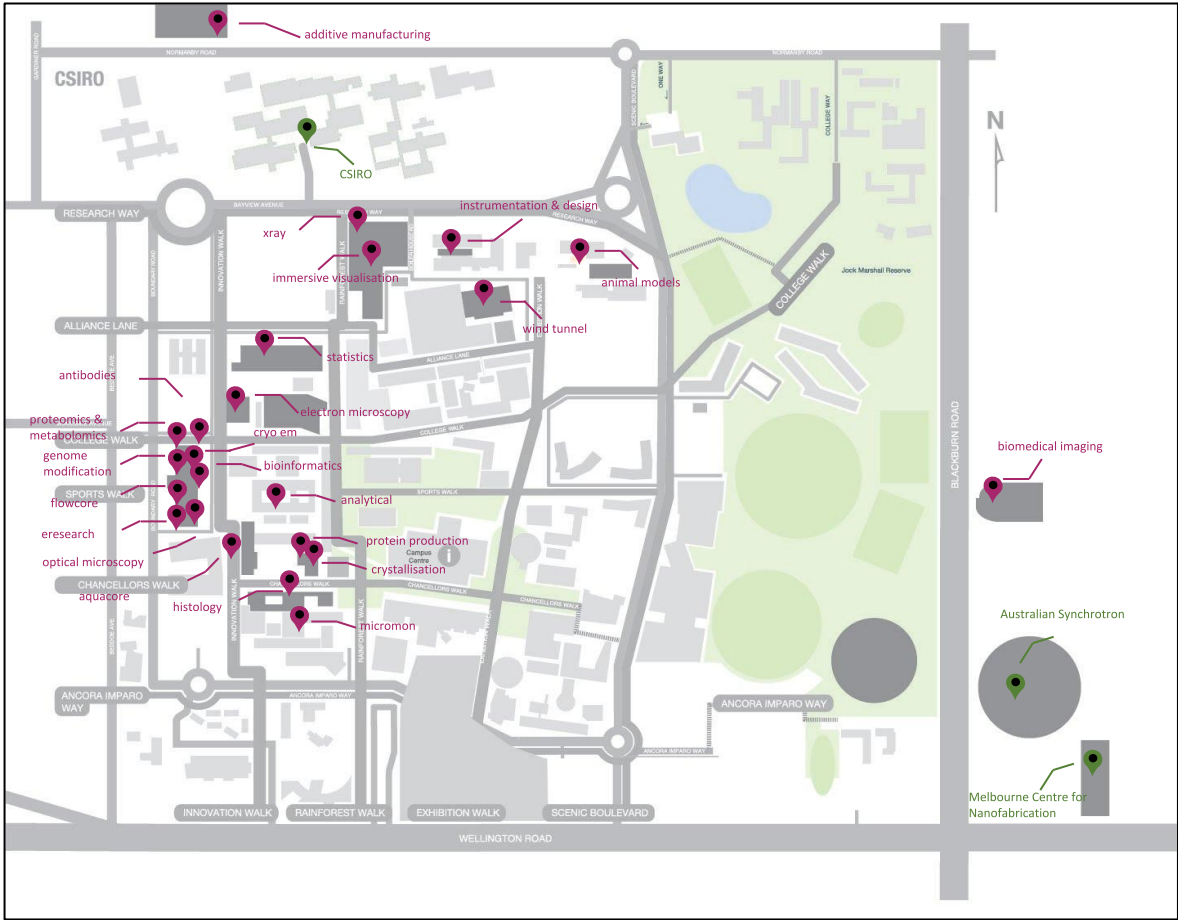
# Monash Technology Research Platforms

## Monash Precinct

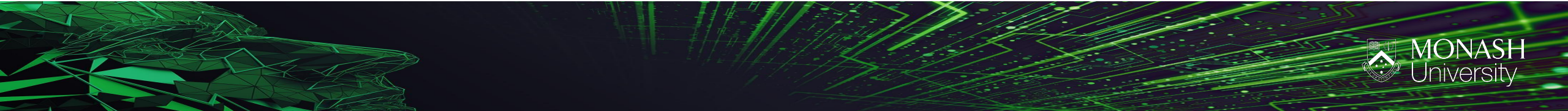
Monash Institute for Pharmaceutical Science

Alfred Medical Research and Education Precinct

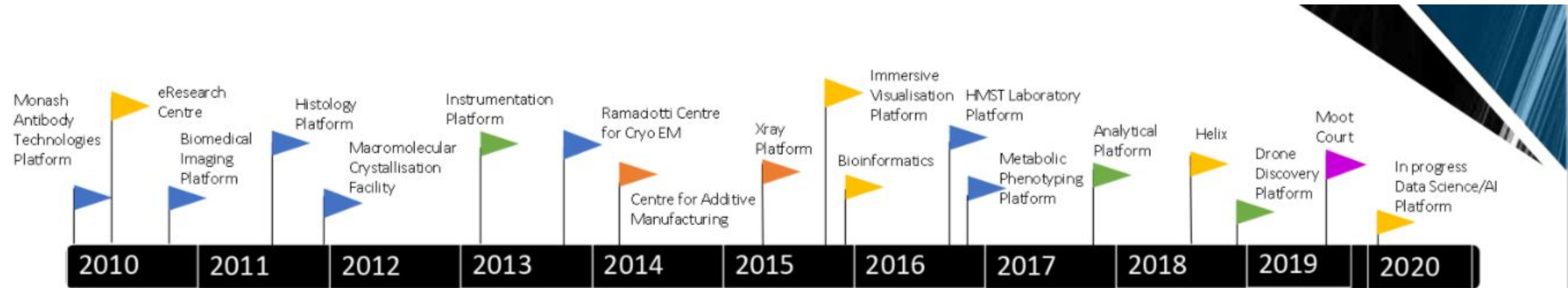
Monash Health Translation Precinct



- 30 technology research platforms
- Deliver 200,000+ services per year
- '000s Publications linked to platform use
- Multi-million dollar investment



# Monash Technology Research Platforms



**Foundational platforms**

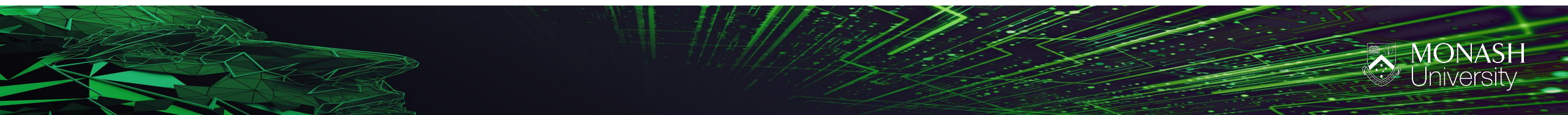
**Technology focus and building efficiencies & expertise**

**Disruptive technology**

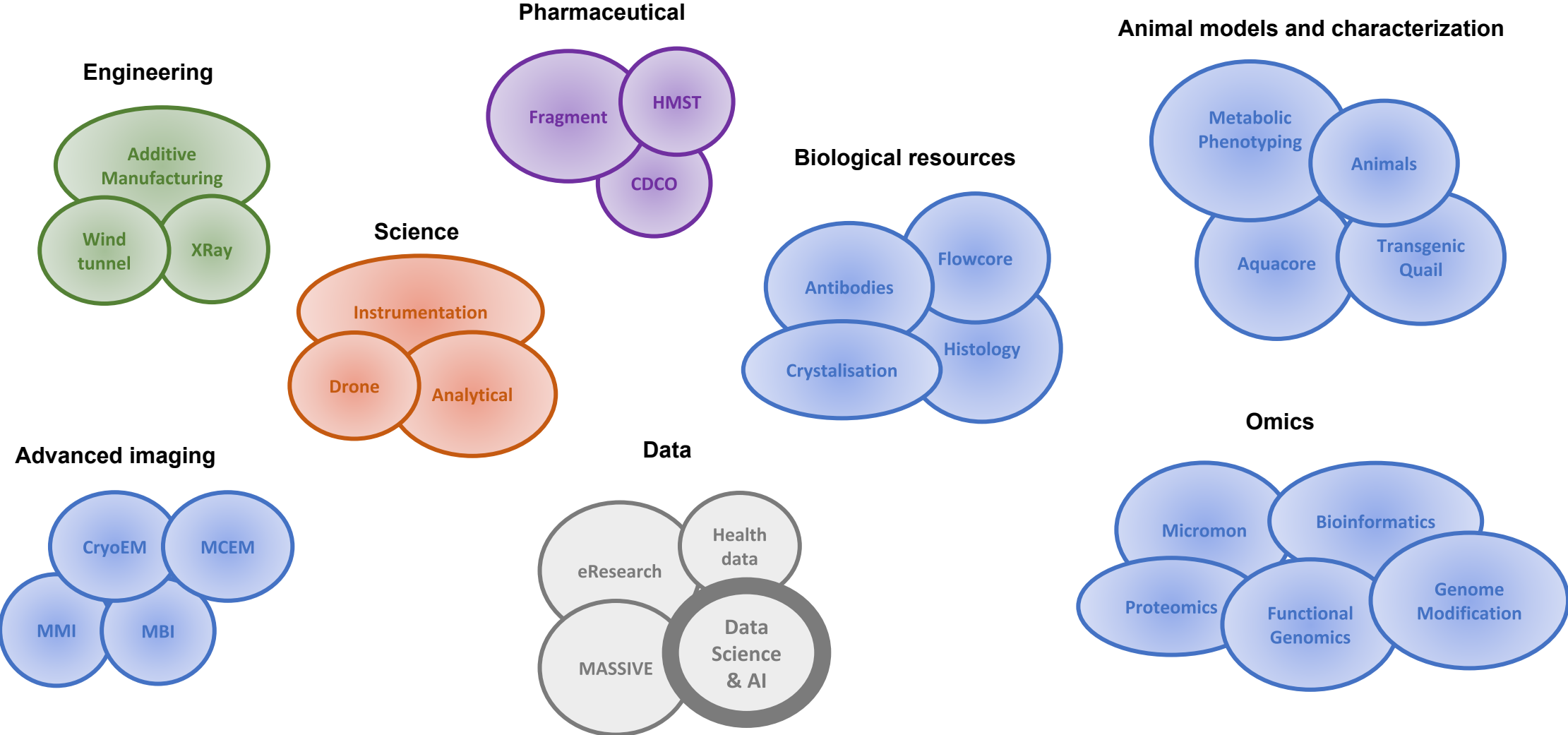
**Data focus and multi-disciplinary** →

Value to Researchers - Cultural shift

**MNHS/PHARMACY      ENGINEERING      SCIENCE      LAW, IT, BUS ECO**

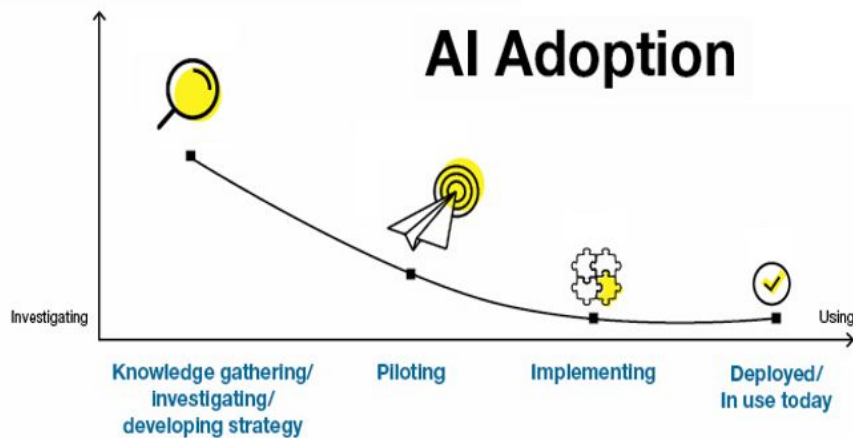


# Monash Technology Research Platforms: clusters



# Data science and AI platform

Our goal is to democratise data science and AI for all the researchers in the university



Base: n=83; Gartner Research Circle Members

[gartner.com/SmarterWithGartner](https://gartner.com/SmarterWithGartner)

**Gartner**

## Investigating

- Have huge data sets and investigating the potential benefits of leveraging Data Science & AI
- Require awareness programs and consultants to advise on using AI technologies to accelerate their research
- Require upskilling their community
- Eg: Faculty of Pharmacy, Faculty of Law

## Piloting

- Actively experimenting and piloting some Data science and AI projects through collaborations
- Require AI & ML talent to assist with applying existing techniques to their research
- Require upskilling their community
- Eg: School of Chemistry, Faculty of Education

## Implementing

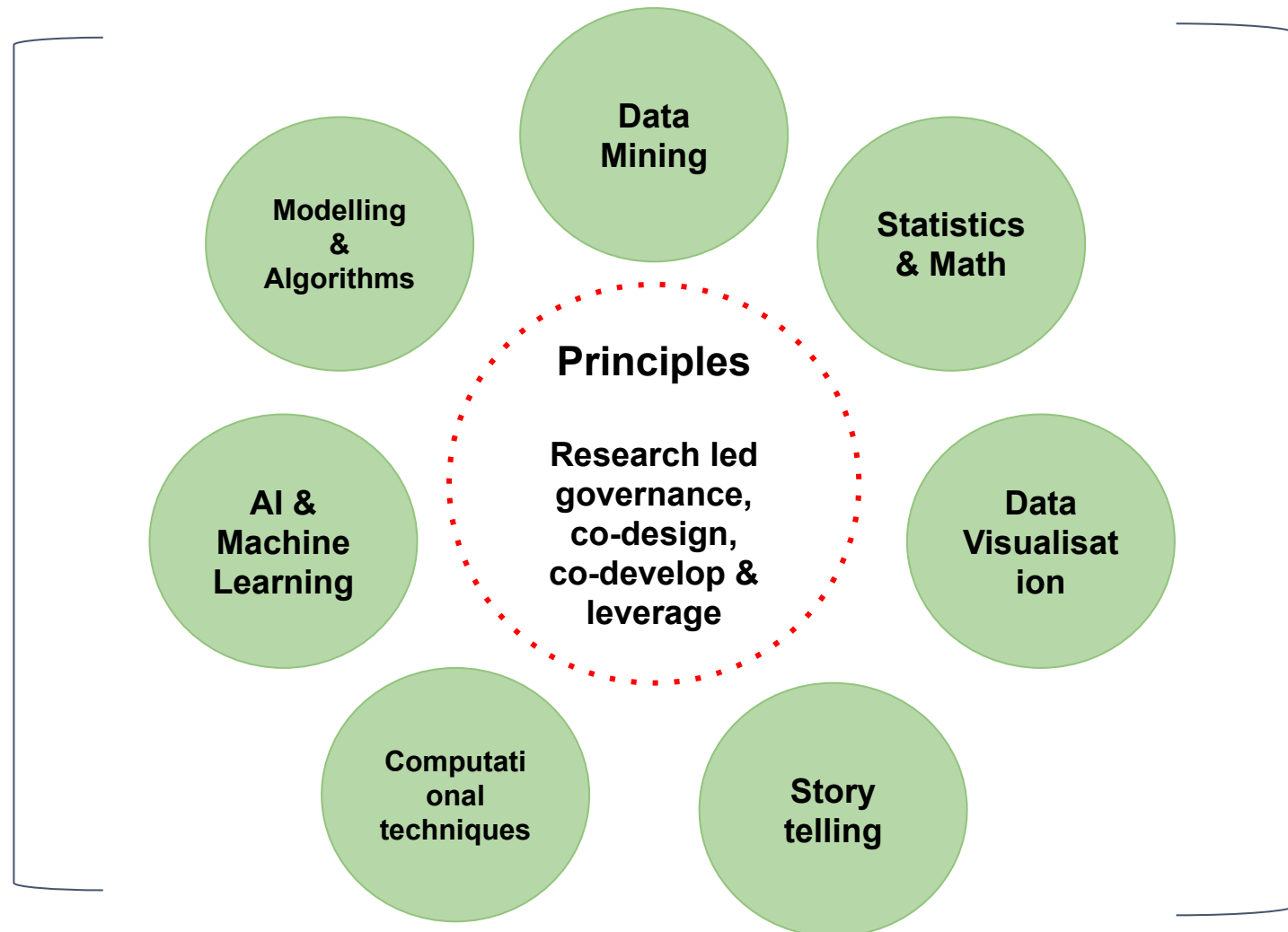
- Have significant on-going research leveraging Data Science and AI and have long term plans in place
- Require quick & cost efficient accessible talent to accelerate research
- Require further upskilling their community
- Eg: Faculty of Medicine, Nursing and Health Sciences, Faculty of Business & Economics

## Innovating

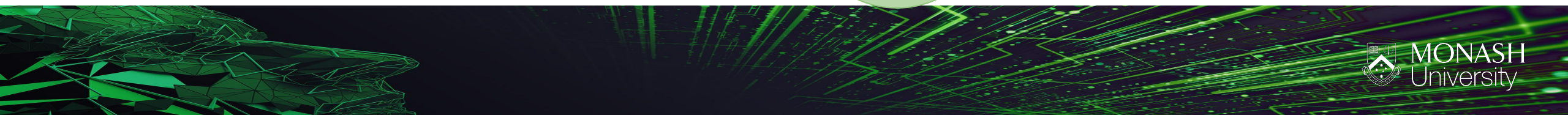
- Experts in developing and applying new and existing AI and Machine learning techniques
- Require avenues for opportunistic collaborations with other faculties and industry
- Are sufficiently skilled in training the community
- Eg: Faculty of IT, Faculty of Engineering

# 'supplier of skills'

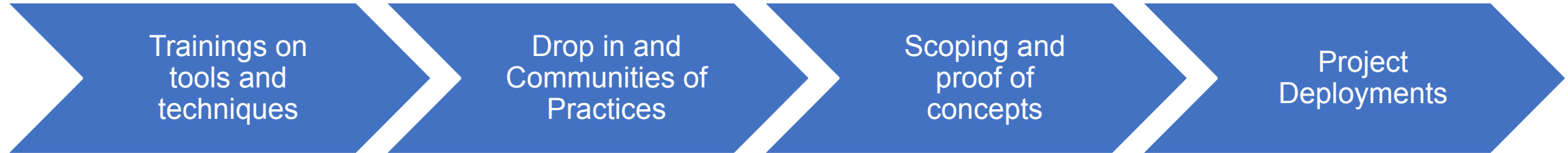
Train & Build  
communities of  
practices



Consultation and  
collaboration



# Data Science and AI platform



Foundational programs on Data mining, statistics, data wrangling, models, algorithms, data science, AI, Data visualisation.

Consultations, foster connections among researchers solving similar challenges and using similar tools

Collaboration on design. Setup tools and capabilities for research projects

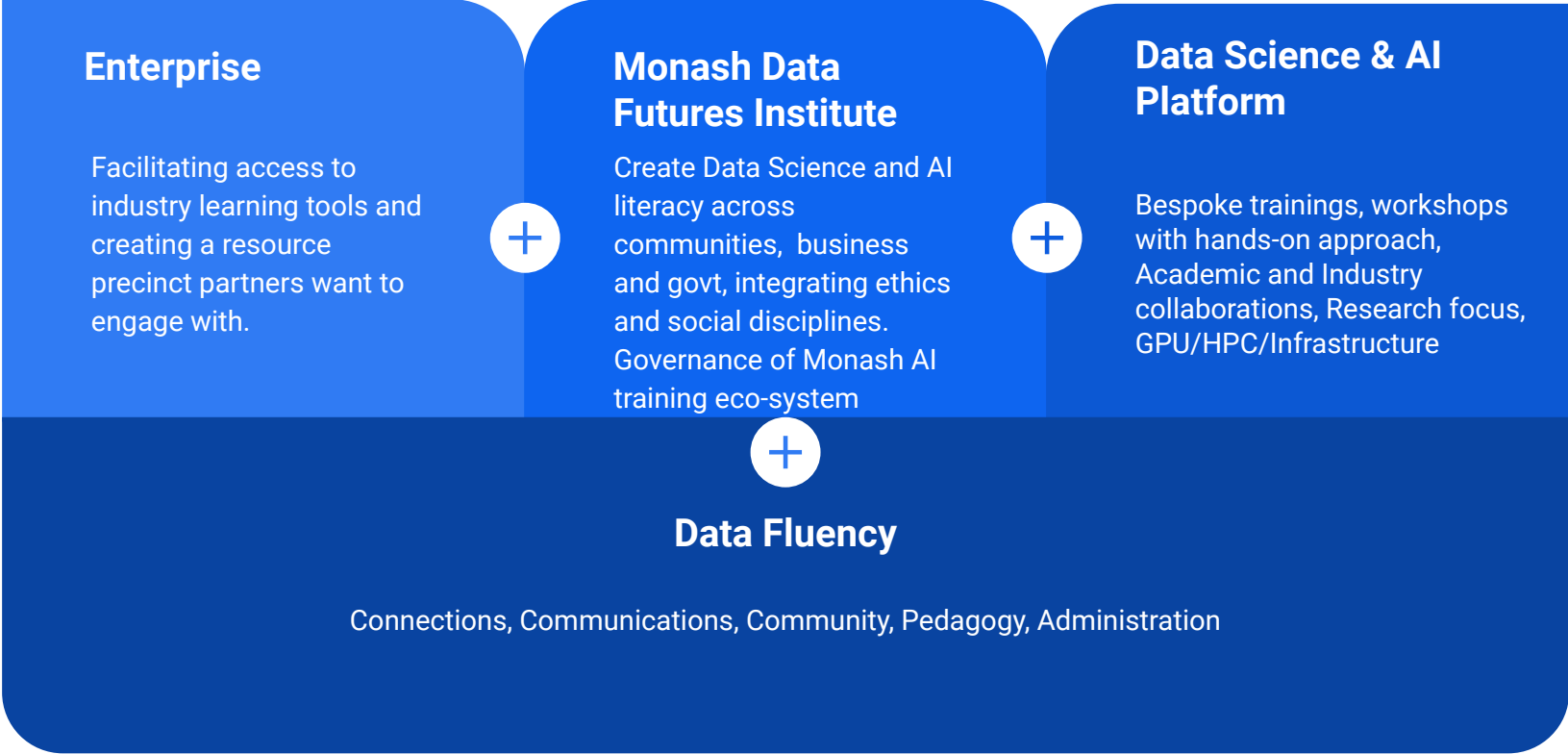
Specialist and expert deployment on short, medium and long term research projects

# Monash Data Futures Institute

- **AI for social Good**
- Increase Monash's **research profile in interdisciplinary AI and Data Science**
- **Coordinate bids for large research grants**
- **Demonstrate the critical and transformative nature of AI and data science**
- **centre for thought-leadership** in the application of AI & Data Science for social good

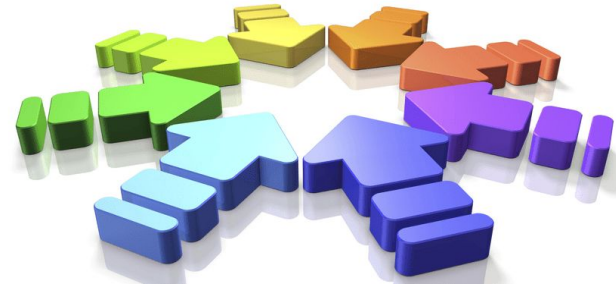


# Connecting existing capabilities..



## Building Future Ready Skills for AI/ML

# Operations model



**Aggregation**



**Cost recovered**

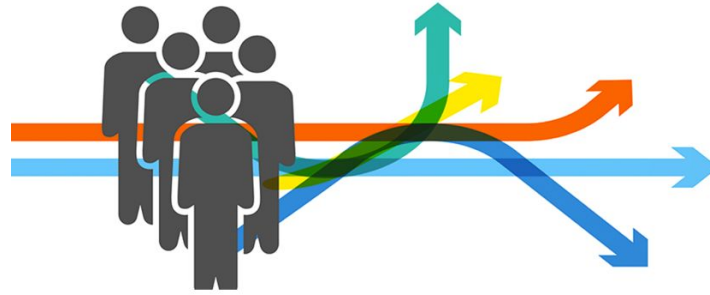


**External funding opportunities**



**Partnerships & leverage**

# Challenges



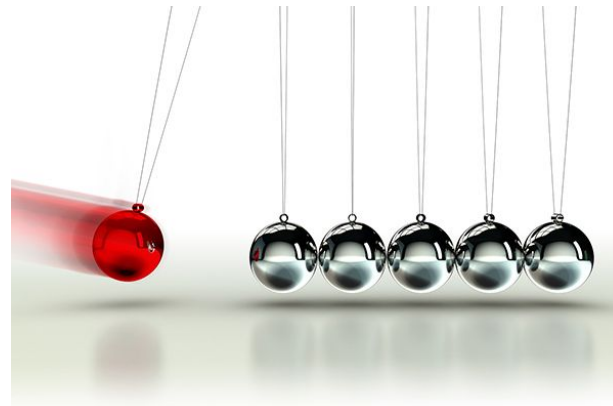
**Career path**



**Awareness**



**Finding right people**



**Measuring and communicating impact**



**Aggregation**

# What can we do collectively?

- Mini-conference to share success stories, impact
  - Talks by representatives from each platform
  - Researcher's perspective/testimonial
  - Encourage attendance of leadership from faculty/chancellery/industry
  - Showcase not just impact, but efficiency (i.e. impact / budget cost)
- Consortium funding applications for computational infrastructure / events
  - e.g. ARDC, ARC LIEF
- Co-hosted training workshops
- Collaboratively define value and impact

## Contact Us

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