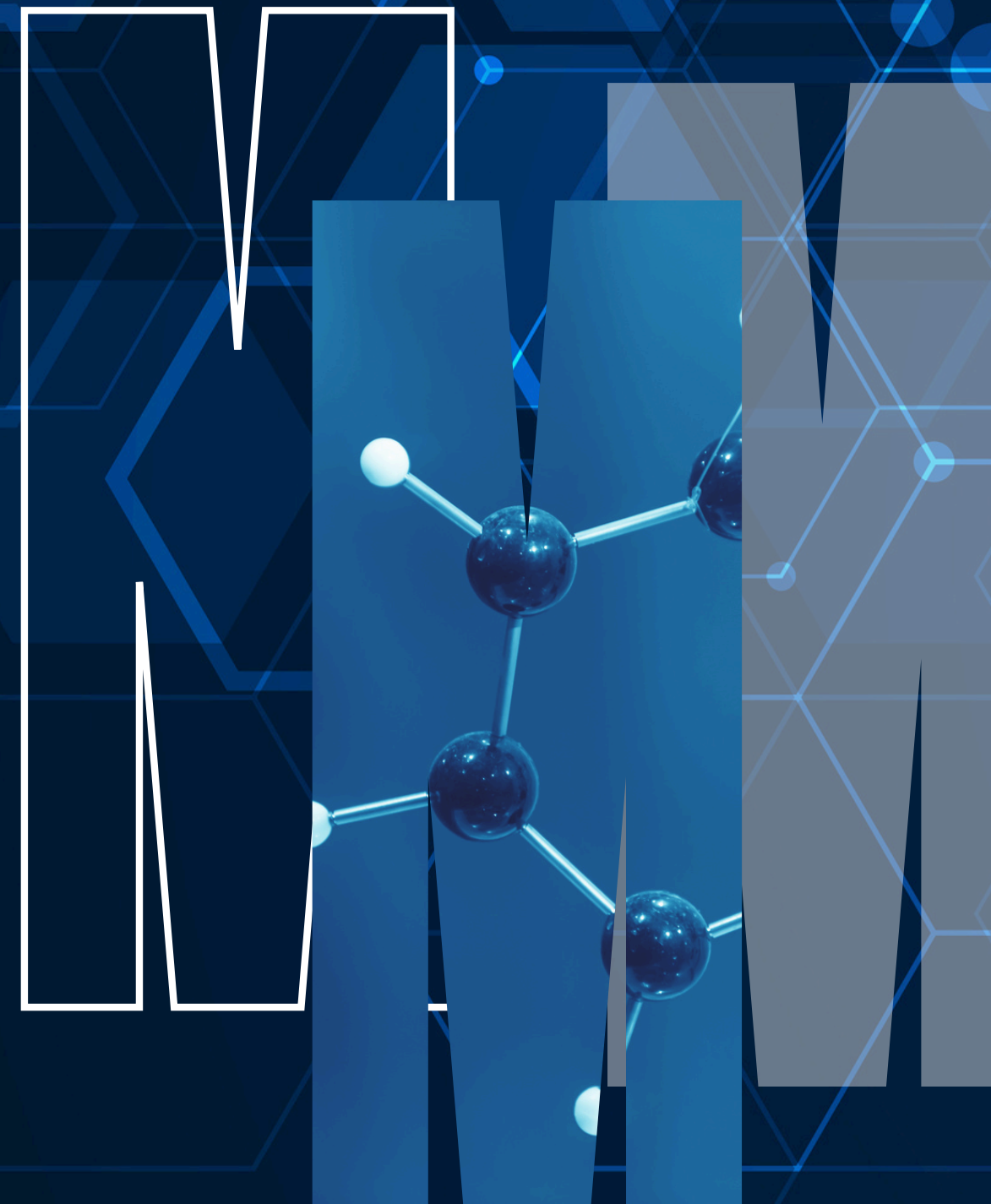


2025-2028
**DIGITAL HEALTH
STRATEGY**



FOREWORD

Digital Health has been a cornerstone strategic priority for the Faculty of Information Technology since 2017. The last several years have been unlike any other, we've witnessed a revolution that has transformed the healthcare landscape across delivery and research. A revolution underpinned by technology.

This 2025 – 2028 Digital Health Strategic Outlook seeks to formalise our direction in harnessing the pace of technological innovation and the depth of expertise that resides within the Faculty. Importantly, it reflects our deliberate effort to unify the diverse perspectives of technologists and health professionals.

By aligning leading capabilities in areas such as data science, AI, human-computer interaction, cybersecurity and health informatics with the real and evolving priorities across every domain in healthcare we can better foster a collaborative ecosystem that benefits patients, clinicians and the broader communities it affects.

The Faculty is committed to improving health outcomes through digital solutions that are both technologically robust and ethically sound. We're proud to be at the forefront of this transformation, and we look forward to working with our diverse partners to shape a better future for all.

ENDORSEMENT FROM THE DEAN



The Digital Health Strategic Outlook is a powerful expression of our commitment to Monash's Impact 2030 – especially in supporting 'Thriving Communities' – and a clear manifestation of our Faculty's mission IT for social good.

Digital health is central to equitable, resilient and socially responsible futures. Uniting technological innovation with real-world healthcare needs exemplifies how our Faculty leads through collaboration, impact and purpose. It's a natural area to apply the leading expertise we possess across our departments and research groups.

I thank all those who contributed to this strategic direction and look forward to advancing this vision together.

Professor Ann Nicholson



WELCOME FROM DIGITAL HEALTH LEAD PROFESSOR CHRIS BAIN

We are living in a time where technology is reshaping how we understand, deliver and experience care. From the rise of precision medicine to AI-driven diagnostics, telehealth and wearables, the potential for digital health continues to emerge.

No matter who you are or where you come from, healthcare is a global priority with importance that cannot be understated. This universal significance makes digital health a natural focus area and reflection of the Faculty's core mission: IT for Social Good.

Technology is entrenched so deeply in every aspect of our lives, with a reach that spreads to almost every corner of the world. As a faculty dedicated to IT, we're in an advantageous position to leverage new and emerging technologies to address some of society's most pressing challenges in health, wellbeing and equitable access to care.

This strategic outlook, developed closely with researchers, clinicians, patients, medical institutions and community members, is a springboard to evolve the solid foundation we've established so far. It builds upon where the Faculty already has strong existing relationships, opportunities of enormous potential and influential partnerships.

Importantly, digital health is intrinsically multidimensional – demanding collaboration across disciplines, systems and experiences. Therefore the capabilities, themes and impact areas presented will resonate beyond academia with broader society.

I would like to thank the researchers, professional staff and Faculty leadership for both their contributions to, and support of, this strategic direction, as well as our collaborators across Monash University and the healthcare sector worldwide. I am grateful to have the opportunity to lead this vital agenda.

Warm regards,
Professor Chris Bain



MULTIDISCIPLINARY **APPROACH**

The following is a breakdown of key specialist research groups within the Faculty of IT that collaborate and contribute to our Digital Health initiatives.



- Lab
- Group
- Centre

BRIDGING RESEARCH **AND IMPACT**

Discover our key capabilities in Digital Health and areas they're making the most impact.

		HOW WE CREATE IMPACT				
		FACULTY OF IT CAPABILITIES				
		AI in Health	Community Informatics	Digitally Enabled Care Models	Optimisation of Software in Healthcare	Value Based Digital Health
AREAS OF IMPACT	Cancer and Cancer care From its extensive range of Cancer Registries to the clinical services it delivered via partnering hospitals, Monash has a strong foundation for our faculty to evolve this area with emerging technologies globally.	Leveraging the potential of AI and machine learning in: • Medical imaging: Improving image analysis, abnormality detection and accuracy of all identification processes. • Bioinformatics: Enhancing genomics activities, personalised medicine, disease research and drug discovery. • Decision-making support: Assisting clinicians in diagnosing and determining treatments while reducing human error. • Administrative efficiency: Streamlining tasks such as scheduling, billing, patient information sharing and more. • Assistive technology and accessibility: Supporting individuals with disabilities through adaptive technologies. • Data privacy and security: Producing novel approaches for managing data and preserving privacy.	Championing health equity and quality of care for underserved communities through community informatics that drives: • Inclusive solutions: Developing digital solutions to break down economic and geographic barriers to healthcare. • Health education: Using digital tools and data to identify knowledge gaps and tailor education to learners – refined with ongoing feedback. • Co-design and collaboration: Engaging patients, healthcare providers and community organisations in co-creating meaningful digital solutions. • Informed decision-making: Gathering insights integral to personalised care, timely interventions and better resource allocation.	Developing healthcare delivery approaches based on digital technologies that enable: • Remote care: Via telehealth platforms, mobile apps, connected devices and wearables. • Empowered self-management: Through real-time access to health information and reliable guidance for day-to-day management of conditions. • Better decision-making: Based on large amounts of diverse health data gathered through wearables and other devices. • Robust integration: Due to interoperability and APIs that allow digital tools to synchronise with EMRs and communicate with clinical workflows. • Tailored interventions: Driven by data and predictive analytics that allow for personalisation.	Helping healthcare organisations optimise and scale their systems for high-demand environments through: • Enhanced usability: Developing intuitive interfaces, streamlined processes and better accessibility. • Stronger data infrastructure: Improving how data is captured, analysed and visualised to drive action. • Fortified security: Establishing federated learning, anonymised data, compliance measures and more robust cybersecurity architecture. • Human-centred design: Co-designing with end users, facilitating continuous feedback and ensuring adoption and meaningful use. • Automation and integration: Fast-tracking administrative tasks and enabling predictive analytics for early intervention and resource planning.	Bridging the gap between real patient value and digital health solutions underpinned by: • Effective R&D: Ensuring research and development outputs are effective and sustainable for use in healthcare. • Equity and inclusion: Boosting accessibility for diverse populations by addressing disparities in literacy, affordability and more. • Continuous improvement: Embracing agile and continuous development driven by real user feedback. • Data-informed decisions: Using reliable data and analytics to guide care decisions. • Integrated and coordinated care: Enabling seamless communication and reducing fragmentation across the healthcare system. • Patient-centred outcomes: Prioritising meaningful health outcomes FROM clinical processes,
	Cardiovascular Health and Wellbeing Cardiovascular disease is ubiquitous and cardiac care is provided by healthcare systems worldwide. This area is a natural focus for Monash – especially as the home of Australia’s first dedicated Heart Hospital.					
	Equity for Individuals and Communities Healthcare is rife with inequities driven by geography, literacy and other factors. Our partnerships in Malaysia, Indonesia and India provide us with numerous opportunities to help break the cycles of disadvantage.					
	Forensic Medicine and Forensic Pathology Monash has a longstanding relationship with the Victorian Institute of Forensic Medicine (VIFM) – a leader in forensics. Our access to data, real-world needs and research opportunities can empower institutes like VIFM to serve a premium role in the study of mortality and disease.					
	Mental Health and Wellbeing Working with partners such as Turner Institute and Turning Point, we’re undertaking mental health research and supporting mental wellbeing and addictions. With advancements across apps, wearables and remote healthcare, we’re poised to evolve this area with IT.					
	Neurosciences The University has existing strengths in this domain through its Department of Neurosciences and the Neuroscience group at its affiliate Hudson Institute. With neurological care prevalent around the world, this area is primed to be advanced through our Digital Health projects.					
	Women's Health Monash is a global leader in women’s health through groups such as the Monash Centre for Health Research and Implementation – a collaborator of the Faculty. This primes us for impact with partners in IVF more broadly and major health providers with extensive care programs and sites.					
		LINKS TO BROADER MONASH STRATEGY AND ECOSYSTEM				
LINK TO IMPACT 2030	Thriving Communities	✓	✓	✓	✓	✓
	Climate Change	✓	✓	✓	✓	
SYNERGY WITH MONASH INSTITUTES	Monash AI Institute (Faculty of IT led)	✓	✓	✓	✓	
	Monash Institute of Medical Engineering	✓	✓	✓	✓	✓
	Monash Victorian Heart Institute	✓	✓		✓	
	Monash Biomedical Imaging	✓				
	Monash Centre for Health Research and Implementation	✓	✓	✓	✓	✓
EDUCATION	Digital Health courses and units*	✓		✓	✓	✓

*Indicates capabilities that are also taught by the Faculty either in its IT degrees or through courses managed by other faculties.

A GLOBAL NETWORK OF PARTNERS

With Digital Health a worldwide priority, we've forged strong partnerships with influential organisations, institutions and groups in Australia and abroad.



INTERNATIONAL

Monash University Malaysia

Monash's third largest campus and the first foreign university campus in Malaysia.

Malaysia University Indonesia

Indonesia's first foreign university campus focused on postgraduate studies and research.

University Medical Center, Ho Chi Minh City

The first combined hospital-university model in Vietnam combining patient care, medical education and research.

- Serves over 2M outpatients and 55K inpatients annually
- Trained nearly 6K physicians, nurses and international fellows in 2023
- A key pillar of the overarching University of Medicine and Pharmacy

University of Medicine and Pharmacy, Ho Chi Minh City

One of Vietnam's most prestigious institutions for medical and pharmaceutical education, and also operates the University Medical Center.

- Has 33K+ publications in medicine accumulating more than 44K citations.
- Comprised of seven faculties specialised across healthcare, nursing and medicine.

VinUniversity, Hanoi

A private, non-profit university established in 2018 comprising four colleges including the College of Health Sciences.

- Achieved QS 5-Star rating in nine categories, including teaching, employability and global engagement
- Hosts the [VinUni-Illinois Smart Health Centre \(VISHC\)](#) as a key partner with the Minas DH Program

Apollo Hospitals

India's largest integrated private healthcare network with services across hospitals, pharmacies and digital health.

- Operates 70 hospitals, 5,541 pharmacies and 1,750 diagnostic centres nationally
- Employs 83K staff and has served more than 150M patients from 140+ countries

Apollo University

Established by the Apollo Group and the #1 private university in India (QS, 2025).

- Has a School of Health Sciences and a School of Technology – both partners with Monash University
- Delivers a master's degree in Health Informatics

Indian Institute of Technology Bombay (IITB)

One of India's premier public technical and research universities renowned for excellence and innovation.

- Hosted 13,282 students (including 3,687 PhD candidates) in 2023 and employs 733 faculty members
- Ranked #1 in India in the QS World University Rankings 2025

Chulalongkorn University, Thailand

Thailand's first university and ranked #1 nationally.

- Known as a centre for academic learning and professional excellence.
- Closely integrated with King Chulalongkorn Memorial Hospital run by the Thai Red Cross



AUSTRALIA

Australian Council of Senior Academic Leaders in Digital Health (ACSALDH)

A group that advances digital health research, education and innovation.

- Consists of 37 members each representing an Australian university
- Formed in 2024 by the Digital health Cooperative Research Centre

Australian Alliance for Artificial Intelligence in Healthcare (AAAIH)

An initiative that aims to improve health and economic outcomes through scalable and sustainable AI-enabled healthcare.

- 100+ global partners and stakeholders from all domains.
- Operates across Safety, Quality and Ethics or Workforce programs

Australia's National Digital Health Initiative (AND Health)

The leading provider of commercialisation, incubator and accelerator programs for digital health tech companies.

- Worked with 935+ companies nationally
- Supported more than 1.2M patients
- Proven in supporting the commercialisation of proof-of-concept health technologies

Australasian Institute of Digital Health (AIDH)

Australia's peak body for digital health with a 30-year history.

- Represents a united and influential voice for health informatics and digital health leaders and practitioners.
- 2,300+ members and fellows, and 190+ industry partners



VICTORIA

Monash Health

The state's largest public health service with a 170+ year history offering healthcare across the entire lifespan.

- Over 2K beds across its 40+ care facilities
- More than 16K staff

Regional Health Training Hubs

Government-funded initiatives designed to improve the recruitment and retention of medical professionals in rural areas.

- 25+ training hubs across all Australian states and territories
- Bendigo, Gippsland and Mildura are operated by Monash – the most of all participating universities

Alfred Health

A top metropolitan health service that owns The Alfred, Caulfield Hospital and Sandringham Hospital, numerous clinics, a leading intensive care unit and the largest, most active trauma service in the country.

- Serves over 680K people in southern and Bayside Melbourne
- Over 8.5K employees and 13 statewide services

Victorian Institute of Forensic Medicine (VIFM)

An institute providing independent forensic medical and scientific services to support families of the deceased, victims of violence, law enforcement and other jurisdictions.

- 200+ employees
- Operates as the Department of Forensic Medicine partnering with Monash University
- Houses the Donor Tissue Bank of Victoria



MONASH AUSTRALIA

Institutes

Monash AI Institute (Faculty of IT led)

An institute advancing AI through novel research, industry collaboration, training and entrepreneurship leveraging an interdisciplinary research community and vast affiliate network.

Monash Institute of Medical Engineering (MIME)

A multidisciplinary institute driving the evolution of healthcare through innovative medical technologies and engineering solutions.

Monash Victorian Heart Institute

A leading centre dedicated to cardiovascular research, education and patient care innovation.

Monash Biomedical Imaging

A research facility providing advanced imaging technologies for biomedical and neuroscience research.

Monash Centre for Health Research and Implementation (MCHRI)

A collaborative centre translating health research into practice to improve community health outcomes.

Faculties

Faculty of Medicine, Nursing and Health Sciences

Faculty of Engineering

Faculty of Pharmacy and Pharmaceutical Sciences

Other faculties

BROADER MONASH AUSTRALIA ECOSYSTEM

KEY ACTIONS AND **MEASURES OF SUCCESS**

Our Digital Health work contributes to the broader University's Impact 2030 goals of Excellent, Enterprising, International and Inclusive – while addressing its identified Challenges of the Age: Climate Change, Thriving Communities and Geopolitical Security.

KEY PERFORMANCE INDICATORS	PLANNED ACTIVITIES
DH1: Increase gross research income from Digital Health work by 5% annually	• Formalise collaborations with new Memorandums of Understanding and service established ones. • Source new partnerships. • Actively share and disseminate inbound funding and HDR supervision opportunities.
DH2: Increase total completed Higher Degree by Research (HDR) supervisions on Digital Health topics by 5% annually	
DH3: Increase total Digital Health research outputs by 5% annually	
DH4: Grow membership of the Alliance for Digital health At Monash (ADAM) by 5% annually	• Host ADAM webinars and other events aligned to University strategic priorities, global trends and technological innovations in Digital Health. • Formalise collaborations with new Memorandums of Understanding and service established ones. • Promote and elevate Digital Health work from the Faculty, University, partners and in the healthcare sector more broadly. • Generate interest in ADAM membership through active marketing and affiliations. • Extend invitations directly to prospective ADAM members emerging from collaborations, events, networking and other channels.
DH5: Expand the presence and impact of digital health in Monash University's education ecosystem	• Aim to establish and deliver the first graduate digital health course offerings with other faculties and Monash University Malaysia by 2027. • Aim to establish single unit digital health offerings that can be integrated into existing and new course offerings across faculties at Monash.
DH6: Boost the contributions and participation of digital health partners in the Faculty's industry programs.	• Increase the formal participation of health and digital health companies in the Faculty's work-integrated learning programs to offer students real-world experience.



MONASH
University

MONASH
INFORMATION
TECHNOLOGY

DISCOVER MORE

If you would like to delve deeper into our Digital Health work, partnerships or other opportunities, please get in touch.

✉ Chris.A.Bain@monash.edu