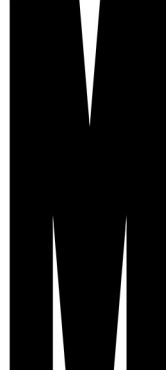


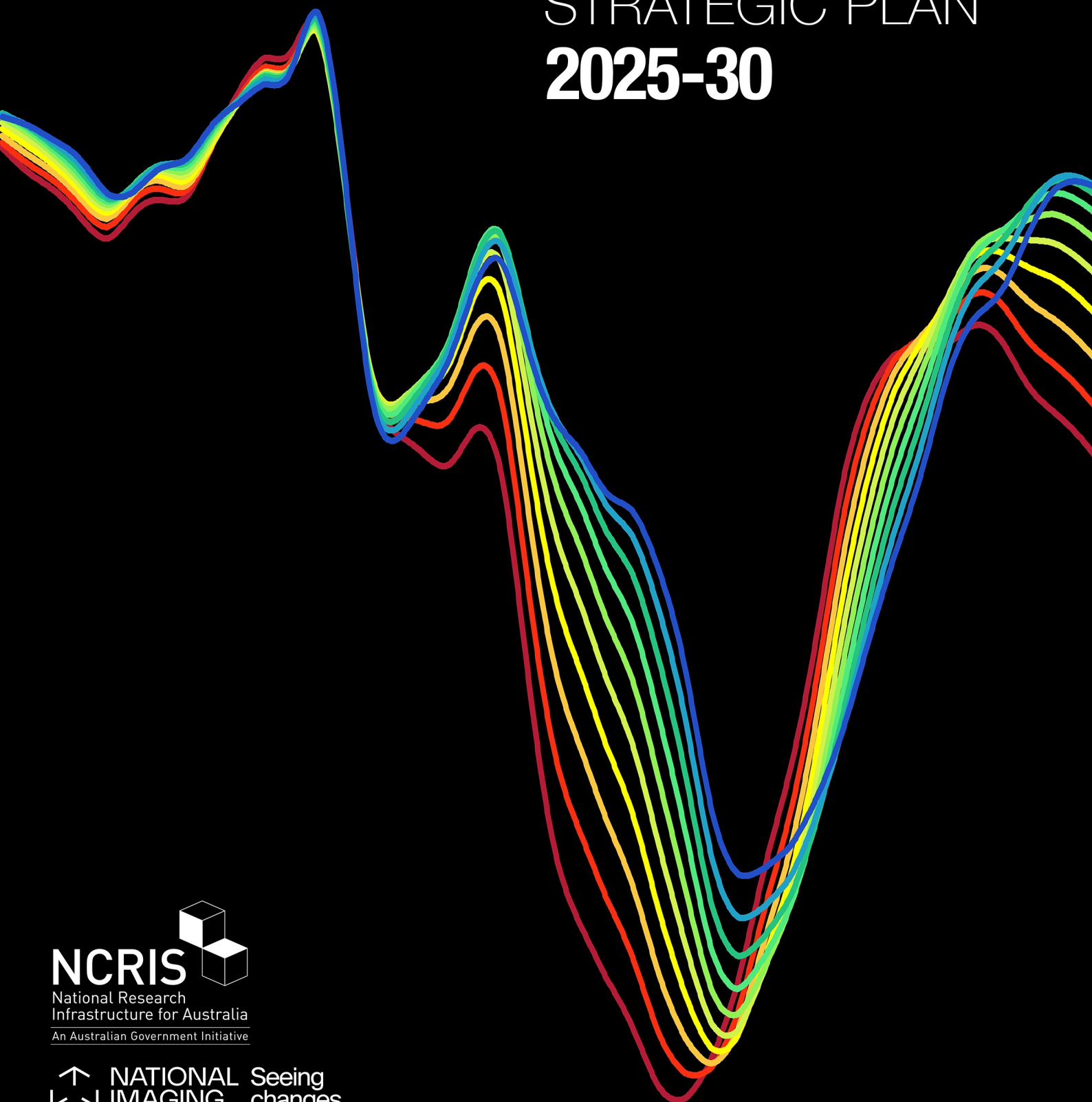


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STRATEGIC PLAN **2025-30**



NCRIS
National Research
Infrastructure for Australia
An Australian Government Initiative

 **NATIONAL
IMAGING
FACILITY** Seeing
changes
everything.

Note from the Director



MONASH UNIVERSITY recognises that its Australian campuses are located on the unceded lands of the people of the Kulin nations, and pays its respects to their elders past, present, and emerging.

Monash Biomedical Imaging (MBI) has matured into a critical component of Monash University's research ecosystem and a nationally significant contributor to Australia's biomedical imaging capability.

Over many years, MBI has built a strong foundation of infrastructure, expertise and partnerships that support high-quality research across clinical, preclinical and translational domains. As the research landscape continues to evolve, so too must the way we operate as a research platform. Advances in imaging technology, increasing data complexity, the growing role of artificial intelligence and heightened expectations around translation and impact require a clear strategic focus. At the same time, research infrastructure must remain reliable, accessible and responsive to the needs of researchers, clinicians and partners.

This Strategic Plan sets out MBI's direction for the coming period and articulates how MBI will strengthen its core imaging capabilities, embed image data analysis as a central service and support researchers through thoughtful project design, robust workflows and expert guidance across the full research lifecycle.

Central to this strategy is our people. MBI's technical, scientific and professional staff underpin the quality, safety and impact of all activities across the platform. This plan prioritises workforce development, capability building and sustainable operational models to ensure that MBI remains a trusted and high-performing research partner. MBI's success depends on strong collaboration across the national imaging network, and with clinical, industry and government partners. This plan provides a shared framework to guide investment, decision-making and engagement, ensuring that MBI continues to deliver value, enable innovation and support research that makes a meaningful difference. I thank our staff, users, partners and stakeholders for their continued commitment to MBI and look forward to working together to realise the ambitions set out in this Strategic Plan.

A handwritten signature in black ink, appearing to read 'C. Hagemeyer', written in a cursive, flowing style.

Professor Christoph Hagemeyer
Director, Monash Biomedical Imaging



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STRATEGIC OBJECTIVES

MBI is a Monash University research platform and a partner node of the National Imaging Facility under the Australian Government's National Collaborative Research Infrastructure Strategy (NCRIS).

Over 13 scanners and equipment are located across two sites at Monash University's Clayton Campus, and Alfred Hospital Campus. Each node offers complimentary and specialised equipment, supported by trained staff.

MISSION

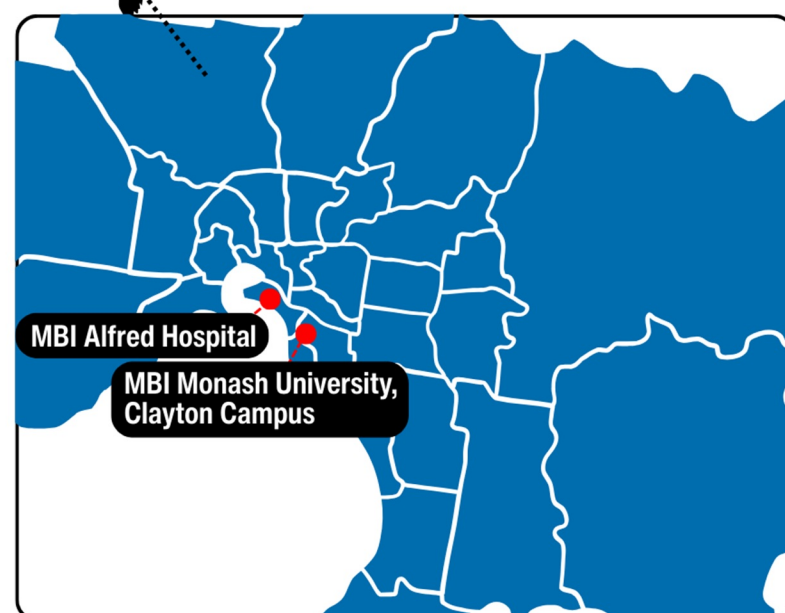
MBI aims to provide excellence in biomedical imaging research services to the Monash University and Australian research communities, by providing open access to multi-modal imaging facilities.

VISION

Our vision is to be one of the pre-eminent biomedical imaging facilities globally. That means providing state-of-the-art imaging equipment, including expertise in developing multimodal imaging programs specific for each individual user. With strengths in cognitive and clinical neurosciences, hybrid and multimodality imaging, and emerging strengths in cardiovascular imaging and digital health, MBI aspires to partner with research and industry organisations to translate research from pre-clinical studies to clinical applications.

VALUES

We value collaboration and open access, working closely with academic, clinical, and industry partners to maximise research impact and translation. Our people-focused approach prioritises expertise, training, responsiveness, and trust to deliver high-quality outcomes for every user and project.



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Partnerships

Strengthening Research and Clinical Partnerships

STRATEGIC OBJECTIVE

Strengthen and expand MBI's global leadership, research, clinical, and industry partnerships to maximise the scientific, translational, and clinical impact of MBI's multimodal imaging capabilities.

HOW WE WILL ACHIEVE THIS

MBI will engage in large-scale national and international grants, and training hubs, integrating AI-driven image analysis methods. We will aim to establish a joint venture with a major healthcare provider to facilitate more clinical imaging and patient-centric research. Our applications will be broadened beyond neuroscience into cardiology, oncology and metabolic diseases. We will engage early with partners at the project design stage, support integrated preclinical-to-clinical imaging workflows, and align our capabilities with precinct-based partners to enable multidisciplinary and translational research.

IMPACT FOR OUR USERS

Users will benefit from stronger, more connected research and clinical networks, streamlined access to complementary expertise and infrastructure, and enhanced opportunities for translational and industry-engaged research. These partnerships will reduce barriers to collaboration, improve study quality and efficiency, and accelerate the pathway from discovery to clinical and real-world impact.

Radiochemistry

Advancing Molecular Imaging and Radiochemistry

STRATEGIC OBJECTIVE

Advance molecular imaging and radiochemistry capability at MBI to support innovative preclinical and clinical research and enable the development, translation, and application of novel imaging tracers.

HOW WE WILL ACHIEVE THIS

Expand tracer development and molecular probe applications in PET, ultrasound, MPI, and optical imaging. MBI is leading the establishment of a Monash cyclotron facility which will enable the production, handling, and application of radiotracers for research and clinical studies. We will work closely with academic, clinical, and industry partners to support tracer development, validation, and access, and to align imaging capability with evolving research needs. MBI will continue to participate in NIF's human molecular imaging and radiochemistry network, and enhance industry collaboration to secure funding and enable advanced radiopharmaceutical research and training.

IMPACT FOR OUR USERS

Users will have access to new and improved advanced molecular imaging techniques and radiochemistry expertise that enable more sensitive, specific, and innovative interrogation of biological processes. This will support higher-impact research outcomes, facilitate translation from preclinical studies to clinical application, and position users to pursue competitive funding, collaboration, and industry engagement opportunities.



Infrastructure

Infrastructure Enhancement and Technology Updates

STRATEGIC OBJECTIVE

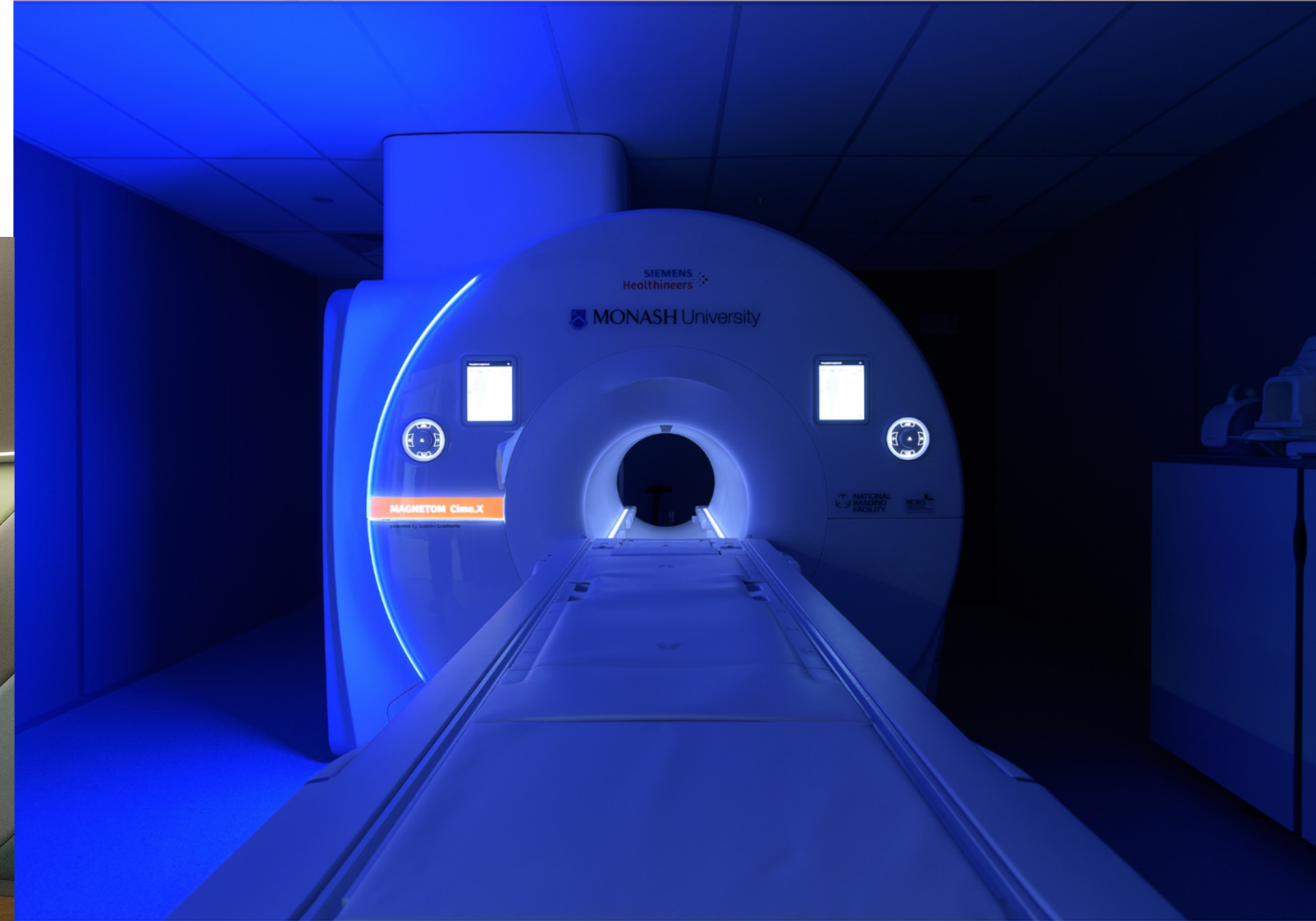
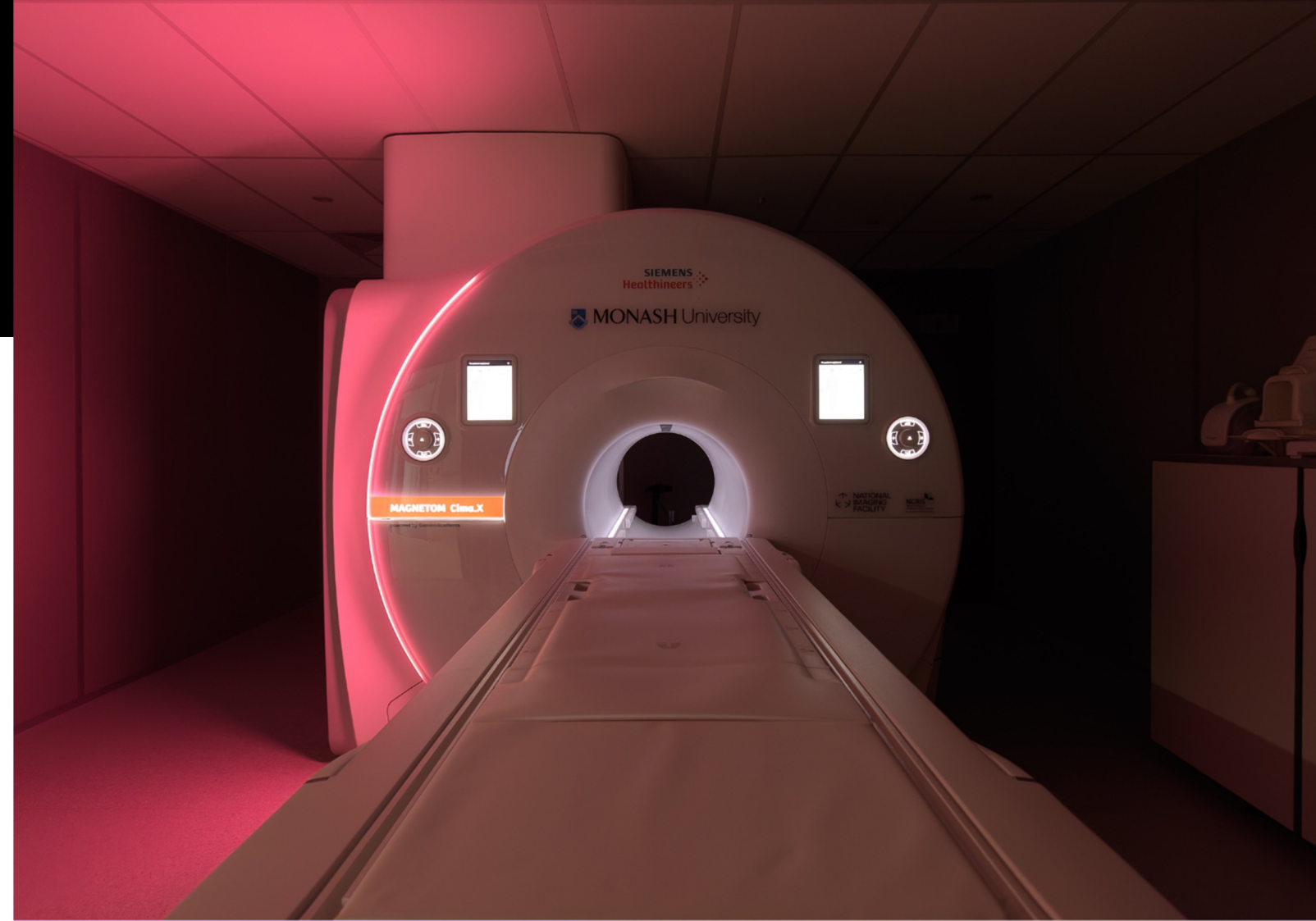
Maintain and advance MBI's imaging infrastructure and technology to ensure continued access to state-of-the-art, reliable, and fit-for-purpose capabilities that support world-class preclinical and clinical research.

HOW WE WILL ACHIEVE THIS

MBI will strategically invest in the maintenance, upgrade, and renewal of imaging infrastructure to sustain technical excellence and operational reliability across all modalities. MBI will deploy a partnered Total Body PET scanner in alignment with NIF strategic initiatives. We will align infrastructure planning with emerging research priorities, user demand, and national research infrastructure initiatives, ensuring that upgrades enhance multimodal and translational capability. Through proactive lifecycle management, expert technical oversight, and integration of new technologies, MBI will ensure its platforms remain adaptable, robust, and future-focused.

IMPACT FOR OUR USERS

Users will benefit from consistent access to cutting-edge imaging technologies that are reliable, well supported, and aligned with contemporary research needs. This will reduce technical risk, improve data quality, and enable users to pursue innovative, competitive, and high-impact research using infrastructure that evolves alongside scientific and clinical advances.



Data

Image Data Analysis as a Service and AI Integration

STRATEGIC OBJECTIVE

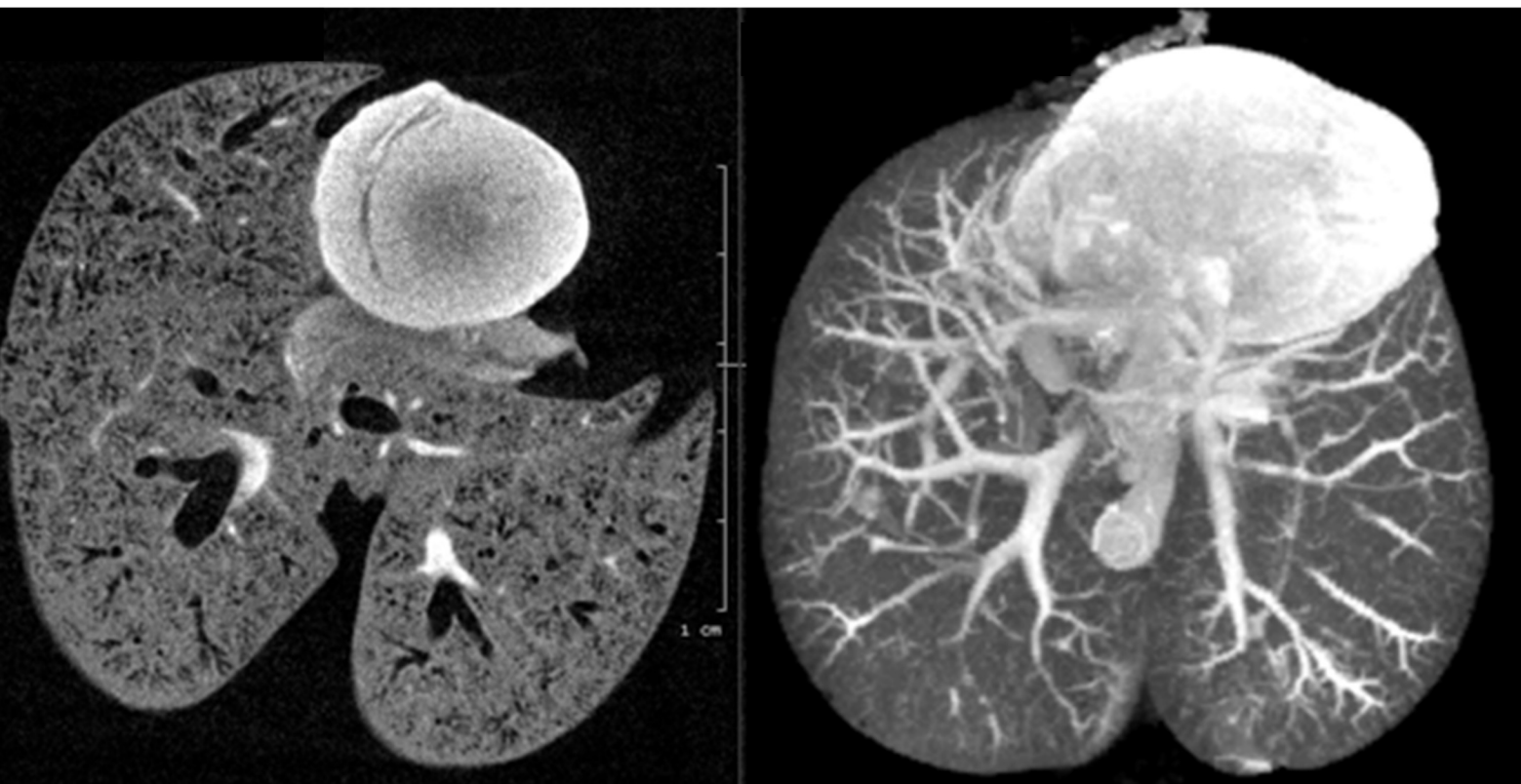
Establish image data analysis as a core, scalable service at MBI, integrating advanced analytics and artificial intelligence to enhance the value, accessibility, and impact of imaging data.

HOW WE WILL ACHIEVE THIS

MBI will develop and embed image data analysis services across its imaging platforms, providing users with access to expert analytical support alongside data processing pipelines and emerging AI-enabled tools. MBI will partner with NIF to leverage AI-driven pipelines. The IRIS platform will be upgraded and expanded to include preclinical projects, improve operational efficiency, and data security.

IMPACT FOR OUR USERS

Users will benefit from improved data quality, deeper analytical insights, and a significantly reduced analytical burden. Data processing and analysis are often the primary points where projects slow down or stall; by providing these capabilities as a supported service, MBI will remove a major barrier to research progress. This will enable users to move more efficiently from image acquisition to validated results, supporting timely publication, grant outcomes, and translation of imaging data into clinical and bedside applications.



Workforce

Workforce Development and People Strategy

STRATEGIC OBJECTIVE

Build, support, and retain a highly skilled, engaged, and adaptable workforce that underpins MBI's scientific excellence, service quality, and long-term sustainability.

HOW WE WILL ACHIEVE THIS

MBI will invest in workforce development through targeted training, professional development, and clear role pathways that support technical excellence and leadership across all teams. We will continually identify people and skills required through a detailed and coherent work plan. MBI will expand its role in education and training, integrating with relevant Monash Departments or industry partners.

IMPACT FOR OUR USERS

Users will be supported by experienced, knowledgeable, and engaged staff who provide consistent, high-quality guidance and service. A strong people strategy will enhance reliability, responsiveness, and innovation across MBI services, ensuring users benefit from trusted expertise and a positive, professional engagement experience.



Profile

Raising Profile, Increasing Awareness and Engagement

STRATEGIC OBJECTIVE

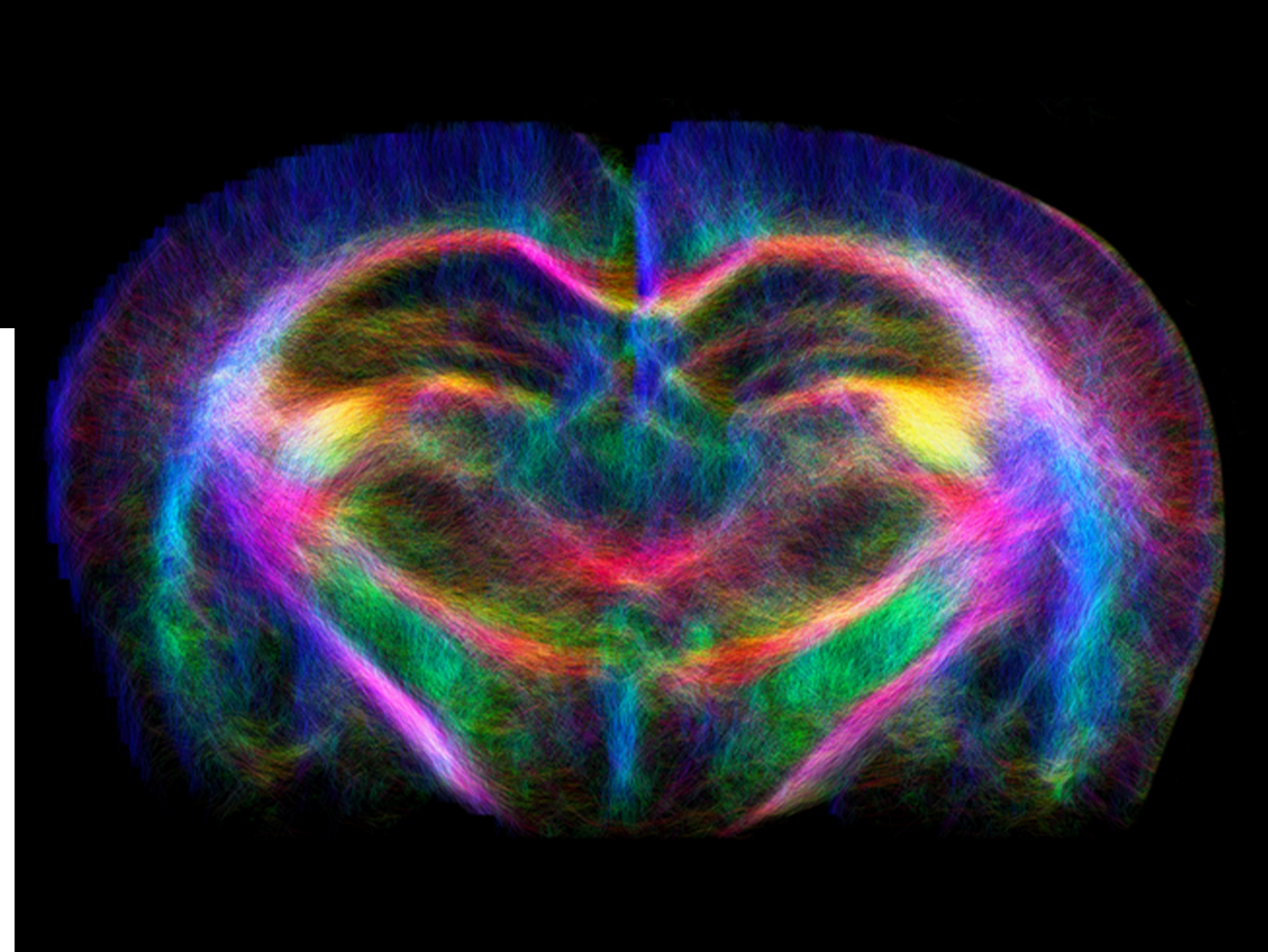
Strengthen MBI's profile, visibility, and strategic positioning through clear, consistent, and targeted communication that articulates MBI's value, impact, and role within the research and clinical ecosystem.

HOW WE WILL ACHIEVE THIS

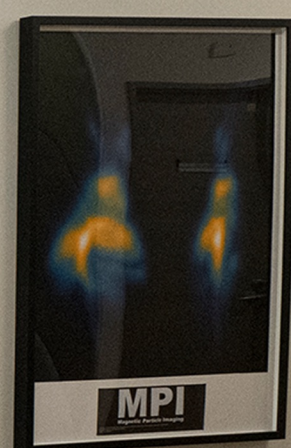
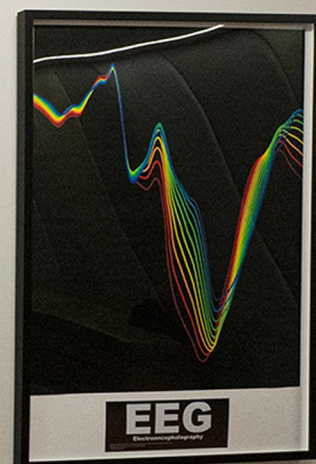
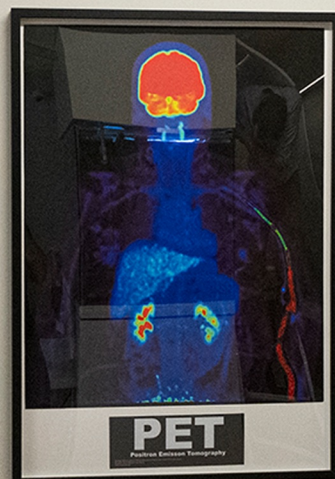
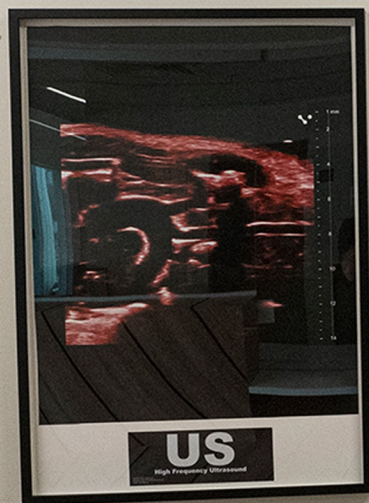
MBI will implement a coordinated branding and communication approach that aligns with Monash University, national research infrastructure priorities, and key partner organisations. We will proactively communicate MBI's capabilities, expertise, and research impact through digital platforms, stakeholder engagement, and targeted outreach to academic, clinical, and industry audiences. By strengthening internal and external communication pathways, MBI will ensure consistent messaging and improved awareness of services, opportunities, and outcomes.

IMPACT FOR OUR USERS

Users will benefit from greater visibility of MBI-supported research, clearer pathways to access services, and stronger recognition of their work within the broader research and industry landscape. Improved strategic communication will support collaboration, funding competitiveness, and engagement opportunities, amplifying the impact of user projects and outcomes.



IMAGING AT MONASH





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