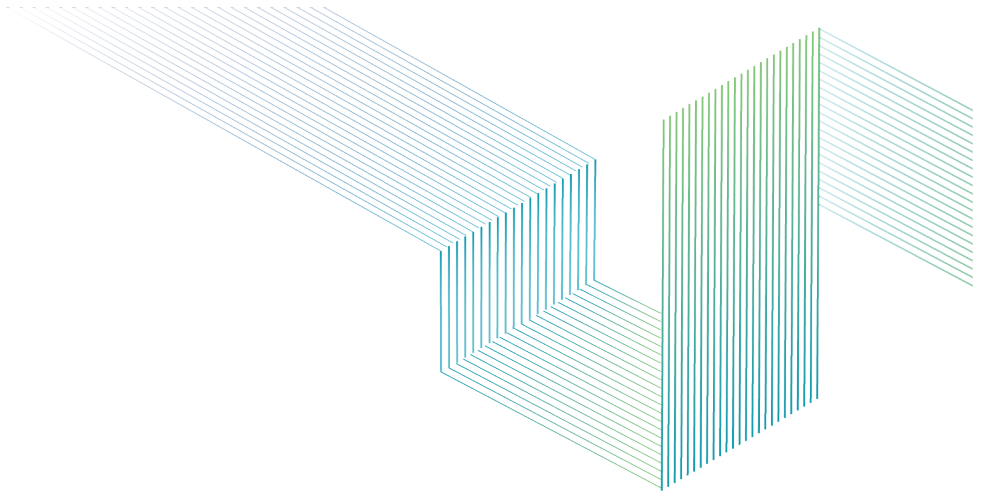




Fishermans
Bend campus



Living Lab EOI

August 2020

The University of Melbourne is calling for Expressions of Interest (EOI) to identify opportunities to embed Living Labs - live research - within the Fishermans Bend campus.

The University of Melbourne's new campus at Fishermans Bend will bring research to life at an industrial scale, with a world class innovation hub for engineering and design opening in 2024.

The vision for the Fishermans Bend campus is a vibrant place of large-scale research and project-based learning that creates interdisciplinary collaboration and partnerships with industry.

Central to this vision is using the campus project as a 'Living Lab' - a live site where researchers and students, government, business and end-users come together to co-create solutions to real world problems, at scale.

The project presents a unique opportunity for the University to leverage a purpose-built campus located close to industry partners, driving momentum for significant change in how Australian cities are developed.

The campus design and construction will support new industry methods and materials, creating a tangible example of the sustainable infrastructure, buildings, systems and practice innovations the University community is driving to create a better future.

What is a Living Lab?

A live setting used by researchers and students, government, business and end-users co-create solutions to real world problems.

The key aspects of a Living Lab are collaboration between stakeholders (such as academic and industry partners) and a 'live' setting.

There are several ways Living Labs as research and

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teaching and learning opportunities can be embedded within the project: short term experiments, longer term initiatives, specific infrastructure design, engagement with students and partners, consideration of new design technologies or methodologies, and data capture and dissemination.

This can happen in all stages of the project, including design, construction, and operations.

Types of Living Labs: enabler vs experiment

Realising the full benefits requires a continuous process of identifying and creating suitable projects and implementing the learnings from their results.

It is helpful to understand the difference between Living Labs as an enabler versus as an experiment.

- A **Living lab enabler** facilitates research and teaching and learning projects over the long term. They can be thought of as a class of [research infrastructure](#) that are embedded in the real world and can be used for multiple experiments.
- A **Living Lab experiment** may be a one-off to increase knowledge about a particular issue.

Example – enabler vs experiment:

The following example demonstrates how building façade Living Lab could be a Living Lab *enabler* or a Living Lab *experiment*:

Enabler: designing the side of a building to host different façade modules to be installed, tested, then removed again, enabling a range of experiments to be undertaken over time.

Experiment: different types of façade built into the side of one building to enable comparison of their performance in different seasons.

contact: fishermans-bend@unimelb.edu.au

Fishermans Bend Living Lab aims

- Create impactful research, teaching and learning
- Draw on the interaction between stakeholders to drive innovation
- Apply realism to ensure experimentation is undertaken in natural, real-life scenarios
- Contribute to sustainability
- Promote openness between stakeholders and catalyse the innovation process in the precinct
- Contribute to and benefit from the broader Fishermans Bend Employment Precinct and leverage the unique opportunity of a new purpose-built campus, in Australia's largest urban renewal area

Living Lab Objectives

Keep operations front of mind

Living labs as enablers and experiments must not adversely impact on operations for the campus and the experience of those on campus, health and safety must be a key consideration for users. Living Lab enablers and experiments should not be an operational burden when research is completed, and sustainability is a key theme of the campus.

Expect open protocol by default

Data systems supporting Living Labs are to be integrated open protocol systems with data open to all with security of data managed by the University.

Explore teaching and learning opportunities

The Fishermans Bend campus will provide many opportunities for students, industry, the community, engineers and architects to learn about best practice sustainable design and test new products and ideas. Innovation, teaching and learning opportunities should be considered at every step to complement but not replicate learning opportunities at other campuses or places in the precinct.

Facilitation through clear governance

The success of the implementation and continual adaptability of the Living Lab will be dependent on following the University Living Lab governance structure.

All decisions on Living Lab platforms and experiments are to be made through the University governance structure, with a Living Lab champion to act as a central contact or coordination point, to ensure that living lab momentum is maintained through the life of the campus, with consideration of the delivery, operation, evaluation and ultimately the decommissioning of living labs platforms and experiments.

Scales of engagement

The Fisherman's Bend campus allows the University to engage in Living Labs on many different scales. These range from:

- City Scale Research – How can Fishermans Bend contribute to city functioning?
- Precinct Scale – How can the Living Lab enhance the Employment Precinct within Fishermans Bend?
- Site / Campus Scale – The University of Melbourne's campus within the Employment Precinct
- Building Scale – Individual buildings within the campus
- External environments – Collective external spaces within the campus, and the precinct
- Internal environments – Amenity and performance of internal environments within the campus
- Human behaviour / comfort – monitoring the individual engagement with the campus, and during project processes such as project management, change management, procurement, etc.

Process to submit an expression of interest

Please send all completed submissions forms to fishermans-bend@unimelb.edu.au

Submissions close **12pm, 8 October 2020**.

Evaluation

The Living Lab Working Group will evaluate responses and select those that offer the most impact and benefit based on the evaluation criteria (see attachment)

Implement successful projects

Successful projects proceed with formal reporting of implementation and progress to the Steering Committee through the Living Lab Working Group.

Key dates:

- 25 August 2020: Expression of interest (EOI) opens
- 8 October 2020: EOI closes, submissions reviewed by Project Living Labs Working Group
- Mid- October 2020: Project Steering Committee reviews Recommended submission
- Mid-late October 2020: Successful Living Lab proposal teams notified and progress.



Fishermans
Bend campus

EOI SUBMISSION FORM:

Fishermans Bend Living Lab opportunity

Briefly describe the opportunity identified at Fishermans Bend, addressing the topics outlined in the table below.
Submit your application via email to fishermans-bend@unimelb.edu.au by **12pm 8 October 2020**.

Living Lab opportunity	[Title]
Opportunity sponsor	[Individual championing the initiative]
Research Lead or Group(s)	[Within the University – names or groups - if you are unsure, please contact fishermans-bend@unimelb.edu.au and we can provide suitable contacts for potential research groups]
Opportunity statement	[Briefly describe the proposition, and the problem you are trying to solve, or opportunity this will capture]
Benefits	[Identify innovation, research or teaching and learning benefits that will be created through this project]
Technology/system maturity (TRL)	[What is the maturity of the technology or knowledge? Does the concept harness existing knowledge and experience; with limited precedent, limited pilot scale implementation with opportunity for scale, or is it a mature/tested technology with limited scope for innovation?]
Industry partnerships	[Are there industry partners or other organisations willing to contribute funding, knowledge, in-kind support or sponsorship? Is there an opportunity to leverage this project to attract other resources?]
Other partnerships	[Other ancillary partnerships that may govern, support, interact with or take benefit from the living lab opportunity]
Scale of engagement	[person, building, campus, precinct etc.]
Project type: Experiment vs Enabler/platform	[Is the opportunity an experiment (a short term or one-off project to increase knowledge about a particular issue, or an enabler (i.e. long-term research platform, embedded in the real world and used for multiple experiments)?]
Intended duration	[Time-span for the Living Lab project, noting any relevance to the project stage – ie. Implemented during construction, during regular operation when the campus opens, etc.]

Evaluation criteria: Living Lab EOI

The following qualitative assessment tool will be used by the Evaluation Panel to review each EOI idea. It is not intended as a business case tool, but rather to enable deeper understanding of the Living Lab opportunity, and what factors require development to move the opportunity from a concept to implementation. The opportunity assessment will also assist in prioritisation and coordination of Living Lab opportunities.

Evaluation Criteria	Details	
Value / Benefits	Industry	<i>[short, medium, long term benefits including products/services generated]</i>
	Precinct	<i>[align with and strengthen innovation impact at the Fishermans Bend precinct]</i>
	Research	<i>[benefit to research outcomes including the ability to attract talent/funding]</i>
	Teaching & Learning	<i>[teaching and learning outcomes, alignment with curriculum, including enhanced employability of students]</i>
	Sustainability	<i>[contribution toward the University of Melbourne, Government or City of Melbourne sustainability vision]</i>
	Community	<i>[advancing reconciliation with Indigenous peoples and communities, strengthening diversity and inclusion in the University community]</i>
	Other	<i>[piloting new technology or knowledge, reputational benefits, enrolments, etc.]</i>
Strategic alignment	University	<i>How the initiative aligns with the University's vision for the campus: a vibrant place of large-scale research and project-based learning that creates interdisciplinary collaboration and partnerships with industry.</i>
	Faculty or School vision	<i>[how the initiative aligns with the faculty or school's vision]</i> <i>MSE vision: "preparing outstanding graduates and achieving global impact through our teaching and research, together with our partners."</i> <i>ABP vision: "to create a distinctive and dynamic destination where students, academics and industry experts come together to test, explore and innovate solutions for the Built Environment using leading-edge facilities and a unique culture of innovation provided by the design innovation incubator Parallel Practice."</i>