



Climate Adapted People Shelter

COMPETITION BRIEF

Welcome to the Climate Adapted People Shelter (CAPS) concept design challenge!

CAPS is a collaboration between [Penrith](#), [Parramatta](#), [Ashfield](#) and [Canterbury](#) Councils and the University of Technology Sydney's (UTS) [Institute for Sustainable Futures](#), U.lab and [Centre for Management & Organisation Studies](#), the [NSW Climate Adaptation Research Hub](#) and the [Institute for Culture and Society](#) at Western Sydney University (WSU).

The competition involves participants to come up with an innovative, low cost, smart, climate adapted design for bus shelters in four Western Sydney areas of Penrith, Parramatta, Ashfield and Canterbury.

Bus shelters for the design competition have been selected on the basis that they are located in an existing heat island. The objective is to develop new concepts for bus shelter design that prioritises user comfort. The overall winning design will be built at the completion of the design competition. Let's reimagine one bus shelter at a time!

(A) IMPORTANT DATES + COMPETITION SCHEDULE

FEBRUARY 2016	COMPETITION LAUNCH AND REGISTRATION Interested teams to register and nominate up to three shelter location(s) for which the team is going to submit a shelter design. Teams are allowed to register for more than one location, however are required to provide insights at Workshop 1 from user-centered research for each location.
MARCH 2016	WORKSHOP 1 - SHARE INSIGHTS In a 90 minute workshop held at UTS participating teams are expected to share and discuss key insights from user-research (independent of council location chosen). Teams will engage with various stakeholders including industry experts, climate researchers, council employees, shelter construction experts and engineers as well as NSW government roads and transport agency representatives.
APRIL 2016	WORKSHOP 2 - IDEAS PITCH AND TEST In a 90 minute workshop teams will test early ideas with various panels of shelter users, project partners and stakeholders. Panels will be organized by location and matched to each teams' registration.
3 RD JUNE 2016	CLOSING DATE FOR ENTRIES Entries are due by 5.00pm (AEST) 3 rd June 2016. See Entry and Submission Requirements for further details.
JUNE-JULY 2016	JUDGING There are three award categories: <ol style="list-style-type: none">1. CAPS Overall Design Award (1 award)2. CAPS Council Area Design Awards (1 award per council)3. CAPS People's Choice Award (1 award) Submissions for Awards Categories 1 & 2 will be judged by an expert panel, which will be announced at least one month before closing date. The People's Choice Award will be decided by public voting online over three weeks in June 2016.
AUGUST- DECEMBER 2016	BUILD, INSTALL AND EVALUATE There are \$25,000 available towards building the winning CAPS Overall Design Award shelter, subject to approval by the relevant Council. The relevant Council will be responsible for the building of the winning shelter. A research team will monitor and evaluate the climate performance of the new shelter design and publish a research report.



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We are looking for creative and innovative solutions that create user delight while also being climate adapted, smart and a good value for money. We are encouraging submission of concept designs that envision the future of what a people shelter can be. Please contact us if you require any further clarification regarding the judging criteria! Judging will be based on four equally important criteria.

(B) COMPETITION JUDGING CRITERIA

DESIREABLE A user-centric approach has been used to identify and address key user needs as well as some overall important aspects in relation to the location. This must be evident in your submission and documentation via insights that were generated from in-depth exploration and understanding of needs. Specific user needs could include elderly seeking comfort, disabled seeking access, teenagers seeking connectivity, families seeking visibility or busy people seeking easy transfer options etc. General important aspects could include provision of ventilation, shade, information display, protection from the elements, visibility of approaching traffic and safety etc.

SMART The proposed solution integrates digital technologies to support the functional performance of the shelter. Digital tools or sensors could be used to allow improved responsiveness of the shelter to environmental conditions or user needs, or as communication platforms for the delivery of information services to users. We are also open to ideas about opt-in services allowing shelters to act as data collection points for wider integration to support transport improvements and adaption measures. SMART features could relate e.g. to how the shelter generates its own energy, displays latent capacity from transport services, forecasts demand or travel time, or adjusts itself to changing weather conditions.

ADAPTED The shelter design responds to the challenges of climate change as they relate to people shelters. This can be achieved through choice of materials, orientation, interaction with the surrounding environment, integration with existing structures, etc. To be ADAPTED the shelter should provide a comfortable and protected space for its users that not only responds to heat but also other climatic elements. Shelters should also be resilient to climate extremes to minimise ongoing repairs and maintenance and maximise performance over their expected life.

VALUABLE The solution must be compliant with the requirements of the Disability Discrimination Act 1992 and must not cost more than AU\$15,000 to construct (excluding site surface preparation). If the existing shelter currently generates revenue (e.g. through advertising) the proposed shelter design should also include a revenue generating mechanism. The mechanism for generating revenue may vary from existing. The design should also consider minimising any ongoing maintenance requirements which may result in a cost to council.



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(C) ENTRY REQUIREMENTS, CONDITIONS, INTELLECTUAL PROPERTY + REGISTRATION

WHO? The competition is open to everyone over the age of 18. We encourage teams of designers, architects, landscape architects, engineers, urban planners, inventors, and students to participate. We support mixed multi-disciplinary teams and collaborative team work. Teams are expected to participate in and contribute to Workshops 1 & 2 as a minimum

SUBMISSION A complete submission includes the following: (1) User-research report, (2) Design documentation, (3) Model/Prototype, (4) Thirty second video pitch to be presented online for CAPS People Choice Award, (5) Five minute video pitch including key features of the concept design (e.g. thermal performance, material choices, cost estimates, desirability, other judging criteria etc.). Finalists are also expected to present their solution in front of the judging panel in June 2016.

REGISTER Please register for the competition by using [the form available here](#) or by copying this URL into your browser: <http://goo.gl/forms/Oemji5gMeY>

IP Entrants will own all intellectual property (IP) rights in the materials submitted for the competition. By entering the competition, entrants agree to grant to the Competition Organisers a non-exclusive, royalty free, fee free, irrevocable licence (including the right to sublicense) to the intellectual property rights in the materials submitted, to use, reproduce, adapt, modify, publish and communicate such materials:

- (a) for the purposes of building and installing the shelter, the subject of this competition; and
- (b) for LGNSW, OEH and Trust purposes, to the extent that such use is not for commercialisation.

In these conditions, "LGNSW" means Local Government NSW, "OEH" means the NSW Office of Environment and Heritage, and "Trust" means the Environmental Trust of NSW. These entities have provided the funds which make this competition possible.

Entrants warrant that the design submitted is an original work that does not infringe upon the intellectual property rights (which includes without limitation all statutory, legal, equitable and other proprietary rights and interests, including without limitation, in copyright, patents, registered and unregistered trademarks, registered designs, circuit layouts and trade secrets) of another person or entity.

By submitting an entry to this competition, entrants agree that, if their entry is chosen to be built by a Council, the entrant consents to such Council adapting the design or not attributing the author, even if such actions would otherwise infringe the moral rights of the author.

MEDIA Entrants agree that by entering the competition, they grant a licence (including the right to sublicense) to the Competition Organisers, and their agents, officers or servants, to use, publish, reproduce, distribute and exhibit their entries, in full or in part, for the purposes of publicising and promoting the event. In any publicity, the Competition Organisers may include an acknowledgement of the creators of the entry and the support of the Penrith City Council, Institute for Sustainable Futures, University of Technology Sydney, U.lab and Adapt NSW for this competition.

PUBLICITY Acknowledgement of publicising and promoting the event: In any publicity, the Competition Organisers may include an acknowledgement of design competition partners including Penrith City Council, Parramatta City Council, Ashfield Council, Canterbury City Council, Institute for Sustainable Futures, University of Technology Sydney, U.lab and Adapt NSW for this competition.

PANEL Decisions of the panel: The expert panel or any of its officers, agents or servants have the discretion to exclude the design and/or any entrant of the design from the competition for any breach, by any entrant, of any term of the competition conditions. The decisions of the expert panel regarding eligibility for the competition and the award recipients are final.

GENERAL Entrants agree that the Competition Organisers, including their agents, officers and servants, are not liable to the entrants or any third party for any loss, damage or expense (whether direct or consequential) arising from the entrants' participation in the competition, however caused. Upon submission of the entries, the Competition Organisers will own the materials (including documents and models) as submitted. If, for any reason, the competition is not capable of running as planned, the Competition Organisers reserve the right, in their sole discretion, to cancel, terminate, modify or suspend the competition. In these conditions, "Competition Organisers" means the following entities individually and collectively: University of Technology Sydney, Ashfield Council, Canterbury City Council, Parramatta City Council and Penrith City Council.



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(D) SHELTER LOCATIONS + COUNCIL CONTACTS

ASHFIELD	AS1	Liverpool Rd near Lappish Av , Stop 213116: A north facing location with unprotected exposure and heat reflecting surfaces around. High use by young families, elderly, and patients of nearby medical practice.
	AS2	Liverpool Rd near Victoria St , Stop 213158: A north facing location with full sun and heat reflecting surfaces including a four lane road, car park and commercial buildings. Use by high school students, and visitors (including the elderly) to a nearby club.
	CONTACT	MS. SARAH LE Sustainability & Resource Recovery Officer 260 Liverpool Road Ashfield NSW 2131 T: 02 9716 1800 E: sarahl@ashfield.nsw.gov.au W: www.ashfield.nsw.gov.au
CANTERBURY	CA1	Crinan St, Hurlstone Park , Stop 219312: A west facing, partially shaded location opposite Hurlstone Park Station on the flyover above train tracks. High use by people connecting from bus to train, 'railbus' or vice versa. No heat data available.
	CA2	Belmore Rd, Riverwood , Stop 221044: A west facing partially shaded location opposite Washington Ave. High use by people traveling to the Riverwood Community Centre, YWCA and Hannans Road Public School.
	CONTACT	MR. LAWRENCE KURDI Environmental Policy Officer 137 Beamish St Campsie NSW 2194 T: 02 9789 9567 E: lawrencek@canterbury.nsw.gov.au W: www.canterbury.nsw.gov.au
PARRAMATTA	PA1	Hassall St, Rosehill , Stop:2150263: A north facing, unshaded location opposite Mercure hotel with substantial foot traffic from residents, shoppers and commuters. Heat data is available for this location.
	PA2	Hawkesbury Rd, Westmead , Stop:214517: A west facing unprotected location outside Wesley Lodge, opposite Westmead Hospital. Major user groups include hospital employees, visitors, and patients, who may be unwell or less mobile. Heat data is available for this location.
	CONTACT	MS. LEANNE NIBLOCK Strategic Outcomes and Development PO Box 32, Parramatta NSW 2124 T: 02 9806 5733 E: lniblock@parracity.nsw.gov.au W: www.parracity.nsw.gov.au
PENRITH	PE1	Derby St, Kingswood , Stop 2747139, Nepean Hospital: A north facing location with unprotected exposure. High use shelter by many unwell and less mobile people who attend nearby Nepean Hospital. Heat data is available for this location.
	PE2	Borrowdale Way, Cranebrook , Stop 274926, Mount Pleasant Shopping Centre: A north facing location with unprotected exposure fronting Cranebrook Village shopping centre. High use by shoppers, youth and young families
	CONTACT	MS. JENNY GUICE Senior Sustainability Planner PO Box 60, Penrith NSW 2751 T: 02 4732 8050 E: jguice@penrithcity.nsw.gov.au W: www.penrithcity.nsw.gov.au
CAPS Team		MS. LEE WALLACE Project Manager CAPS University of Technology Sydney, UTS Business School PO Box 123, Ultimo NSW 2007 T: 0488 443 540 E: leanne.wallace@uts.edu.au W: www.ulab.org.au/caps-climate-adapted-people-shelter
