Newsletter #2, November, 2017

Industry workshops

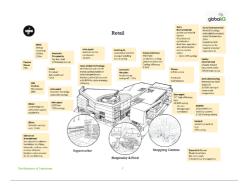
We held another industry workshop on September 12. The workshop was targeted at Australian product manufacturers and suppliers looking to innovate by bringing new products to market.

We had a huge turnout of more than 50 innovators who identified an array of different emerging technologies that they are bringing to market. These could give a massive energy productivity boost across the nation.

We showcased the *i*-Hub's Seed Grant funding and Green Proving Ground Activities (being the most relevant for this segment), and how these activities could help accelerate development and adoption.

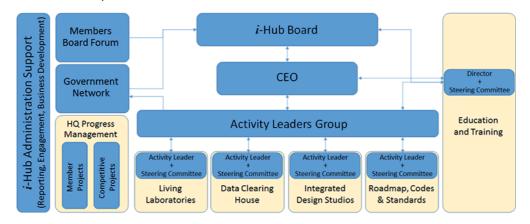
Stay tuned for our next industry workshop in early 2018. It will be in partnership with the Facilities Management Association, with a focus (among other things) on the Australian Smart Buildings Data Clearing House Activity.





Governance

As you would expect, there has been lots of discussion on how funding will be allocated over the course of the initial six-year period, and how each organisation can benefit from the *i*-Hub structure. So we are well advanced on these governance principles, and we have documents that we can send through to companies interested in joining. The structure of the proposed *i*-Hub company is illustrated below. There will be an independent skills-based Board.



A key distinction is made between the Core Activities, which provide infrastructure for industry collaboration (1. Living Labs/Green Proving Ground, 2. Data Clearing House, 3. Integrated Design, 4. Roadmap, Codes and Standards, 5. Education and Training), and Member Projects. The shared Core Activities will be resourced from untied funds, rather than company-tied funds.

In contrast, Member Projects will typically be stand-alone product innovation projects driven by a company for its own commercial growth objectives. They will utilise company-tied funds topped up with untied funds. These will generally be conducted as independent sub-projects by a small subset of *i*-Hub participants. The commercialisation/utilisation objectives of the *i*-Hub will be facilitated by default assignment of project IP to the company (unless otherwise agreed at project application stage).

Universities on board

We are pleased to welcome our first universities into the *i*-Hub team, to provide local research and training focus in four states across Australia. Leadership roles have been assigned to continue the development of the Core Activities.

These are Queensland University of Technology (Living Laboratories), University of Melbourne (Integrated Design) and University of Wollongong (Industry Roadmap, Codes and Standards). CSIRO will lead the Australian Smart Buildings Data Clearing House Activity. (It should be noted that these leadership roles are for coordination and leadership clarity. They don't prevent *i*-Hub members and universities from working across the full suite of activities and across state boundaries).









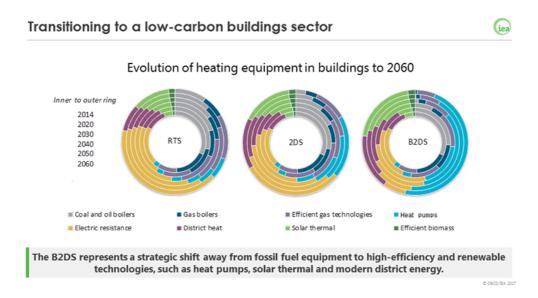
There are some remaining negotiations occurring with other universities that would also like to come on board.

International Mission Innovation

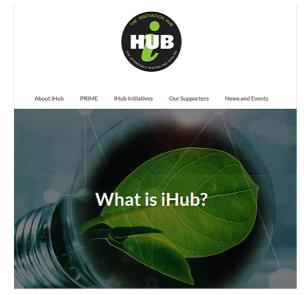
The international Mission Innovation IC#7 "Affordable Heating and Cooling" Innovation-Challenge member countries held its first expert workshop in Abu Dhabi over November 1–2, to further define the priorities. Australia was well represented, with six delegates attending (at various points) including Stephen White, Paul Cooper and Ken Guthrie.

Australia has been chosen to lead the "Predictive Maintenance and Control Optimisation" priority area internationally. After two days of deliberations, initial collaboration opportunities are starting to form with international partners. These opportunities have high alignment with our Australian *i*-Hub workplans, and enable us to access additional resources. For example, separate but linked, we heard from the Rocky Mountains Institute, which is offering a grand prize of \$3 million for a next-gen air conditioner. Links also exist into the Breakthrough Energy Coalition www.b-t.energy/.

Across a range of recent international meetings, it's clear that the statistics regarding air conditioning growth, and its likely impact on world energy consumption and emissions is now grabbing political attention.



Website



We've just launched our new-look website. Enjoy at www.ihub.org.au.

Draft proposal submission

Thanks to everyone who has sent us letters of support and pledges of resource contributions. The draft proposal has been submitted and we are meeting with ARENA in early December for further discussions. From there, we should hear of an intention to fund early in the new year.

So, if you're keen to secure your spot in the *i*-Hub, now's a good time to make contact and see how it can work for your business!

Tony Gleeson, M.AIRAH Chief Executive

AIRAH

Well it's been a frenetic ride over the past few months, pulling together the "Affordable Heating and Cooling Innovation Hub" (*i*-Hub) initiative. We now have an Expression of Interest stage proposal to help deliver on our collective PRIME roadmap agenda.

So, it is surely time to give you an update on progress.

Please make contact with us if any of the developments listed below are of interest to your company. There is still time to come on board as a member, and benefit from all the resources and growth opportunities that will come from this national collaboration.

We understand that the HVAC&R industry is diverse. So, based on your previous feedback, we have divided up different activities and membership packages to suit each segment of the industry. Hopefully we've got something that will suit your needs.

And, of course, if this newsletter is not your thing, then feel free to unsubscribe.

Building Commissioning

AIRAH and Standards Australia are continuing to drive the PRIME priority project focusing on Building Commissioning.

The proposal to have Building Commissioning called up the National Construction Code was unsuccessful, so Standards Australia, through its new Innovation Incubator, will be facilitating a Design Thinking workshop to find smart solutions for issues connected to Building Commissioning in Australia.

The aim of the Design Thinking workshop will be to step back and look at the problem relating to building commissioning from a user perspective. Working in groups, attendees will be asked to hack a number of potential solutions that would offer maximum benefit/impact for stakeholders in this space.

This PRIME project is a collaboration between AIRAH, AMCA, NEBB and CIBSE.

Residential Air Conditioning standard

The Australian Institute of Refrigeration, Air Conditioning and Heating (AIRAH) and Standards Australia released for public comment a draft version of DR AS/NZS 5141: 201X, Residential climate control systems – Minimum applications and requirements for energy efficiency, performance and comfort criteria.

The standard sets out the requirements for the design, selection, installation, commissioning and maintenance of residential climate control heating, cooling and air conditioning systems.

Maximising the energy efficiency of these systems was a key consideration by the committee, as well as the safety and comfort of building occupants.

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