

Hunter Water case study
Jim Bentley



About Hunter Water



- Monopoly State-Owned Corporation
 - ~600,000 customers
 - 6,671 km² area of operations
 - 5,000+ km of water main
 - Staff 456 FTE (including in-house field maintenance crew)
 - AU\$2.7B asset base
 - AU\$340m annual revenue

The Case for Change

- Shareholder's vision for the region
- Drought threat
- Supply / demand shortfall
- Highest leakage in Australia
- High usage per household
- Engagement survey feedback
- Risk of disruption

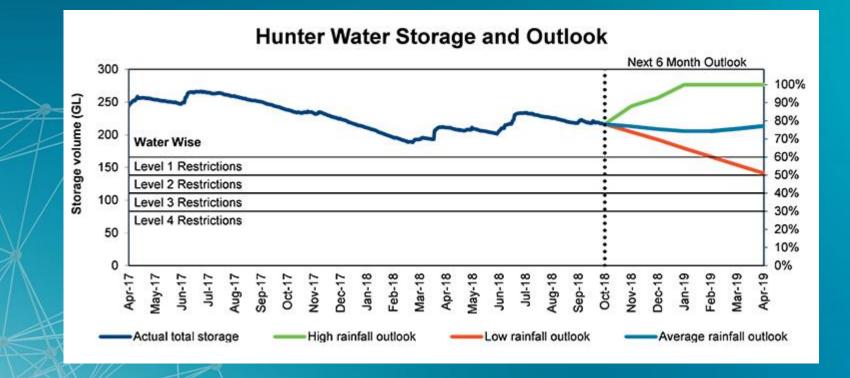




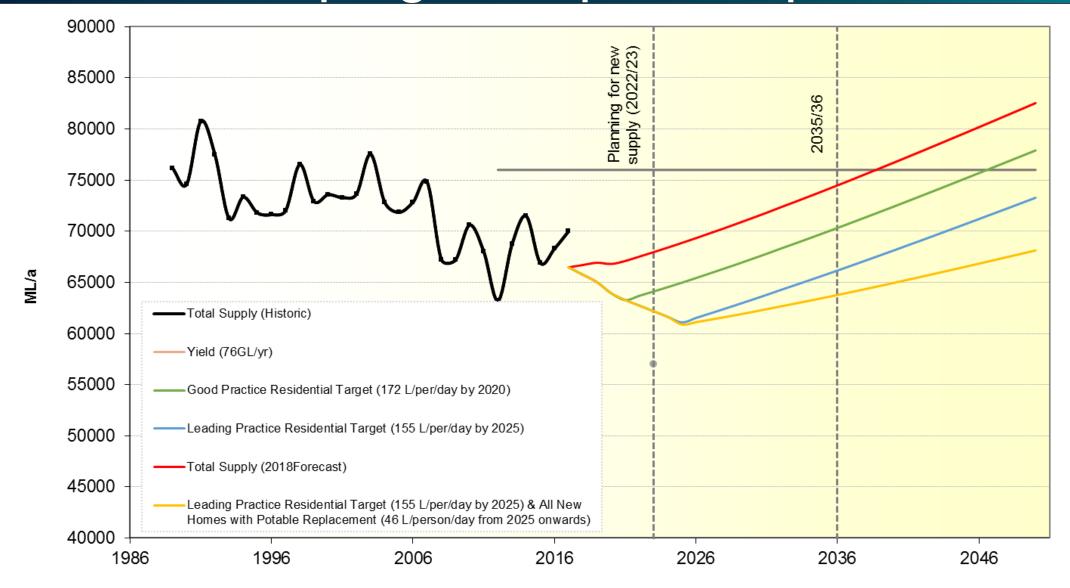
Vision for Greater Newcastle:

"To build the Hunter as the leading regional economy in Australia, with a vibrant metropolitan city at the heart, a biodiversity rich natural environment, thriving communities, and greater housing choice and jobs."

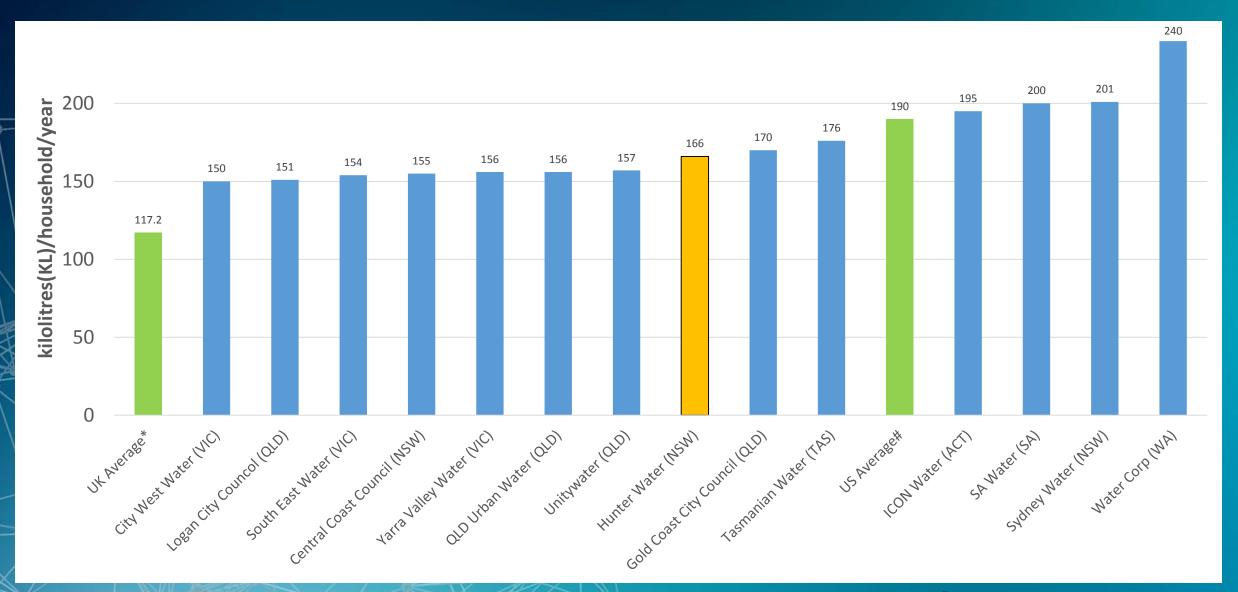




Keeping our options open



Water usage per residential household



Engagement Survey 2016

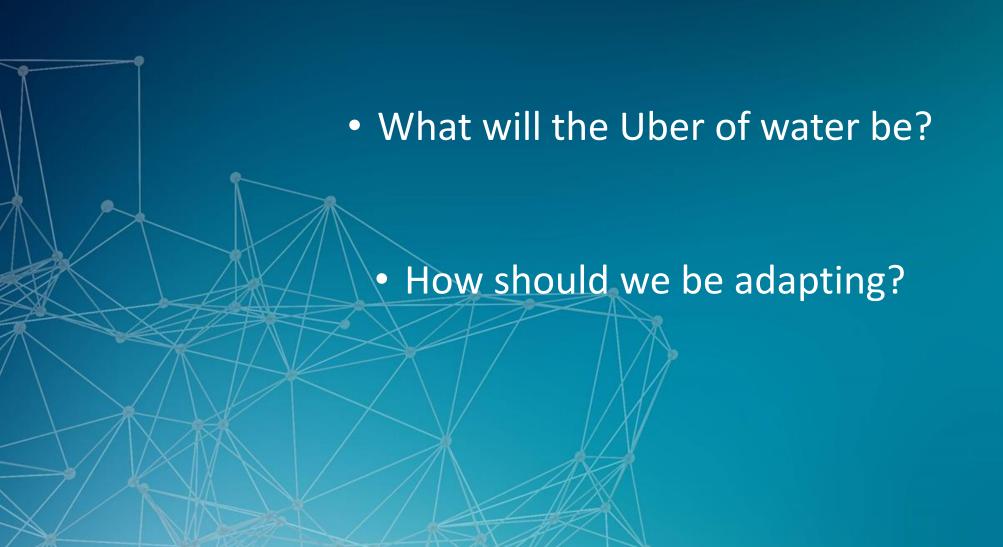
	% FAV	IND DIFF	ALL DIFF
PASSION/ENGAGEMENT	81	+6	+15
Organisation Commitment	84	+12	+13
Jobs Satisfaction	85	+5	+14
Intention to Stay	72	+1	+18
PROGRESS	45	+2	-16
Organisational Direction	57	+9	-8
Change and Innovation	33	-5	-24

Changing regulatory approaches

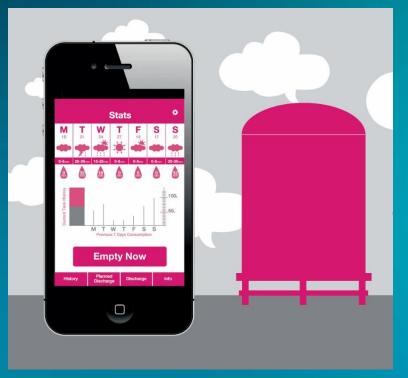




Risk of Technological Disruption







Melbourne – South East Water – Smart rainwater tanks

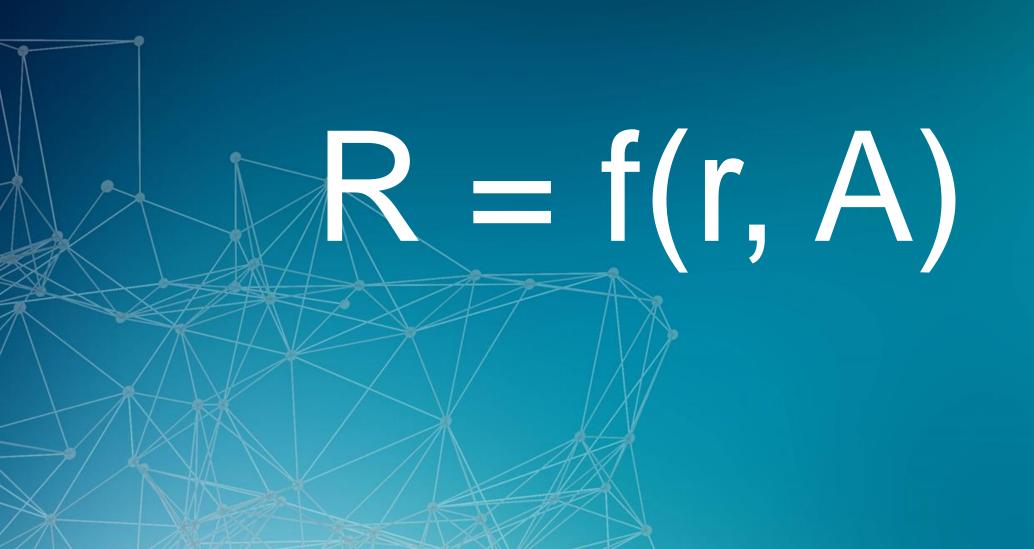


Water-Energy Nexus

What did we need to achieve?

- 1. Grow our window for supply augmentation decisions
 - * reducing leakage
 - * changing customer behaviour
- 2. Change from being a controller to an enabler of development
- 3. Embrace technology which could disrupt water supply and our business model
- 4. Develop a waste to energy program with partners in the region

Resilience



Hunter Water's previous 'strategy'

Vision:

To be a leading water business.

Mission:

We will provide safe, affordable and reliable services.

Hunter Water's 2017+3 Strategy

Vision:

To be a valued partner in delivering the aspirations for our region.

Purpose:

To enable the sustainable growth of the Lower Hunter and enhance liveability through the provision of affordable, high quality services.

Maintain prices in line with inflation

Add 10 years to decision making for source augmentation

Full support from customers and community

Aspirational Goals

Carbon neutral by 2030

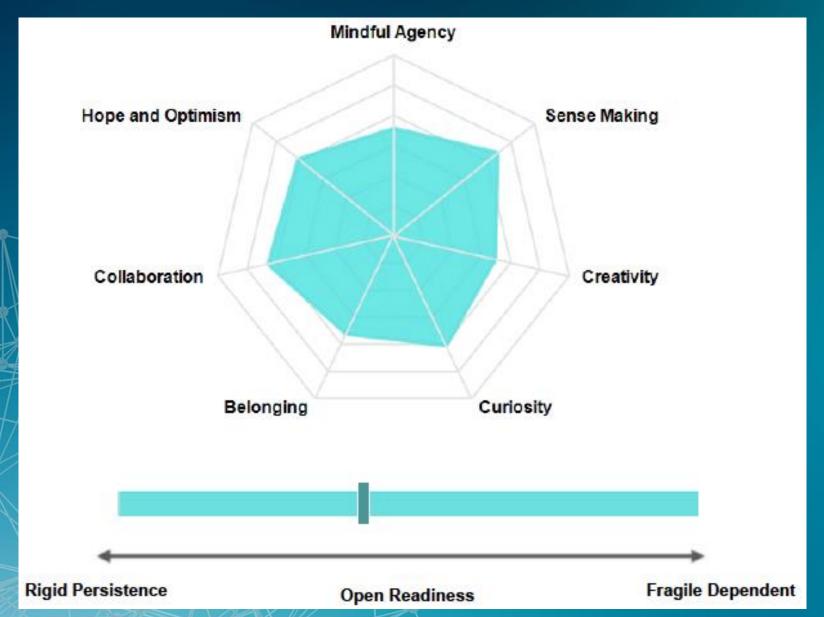
Key focus on culture change, starting with senior leadership:

- Bespoke leadership development program co-designed with Winsborough
- Focus areas of trust, influence and learning
- HOGAN personability tools Winsborough 360
- CLARA Learning power assessment

Becoming a learning organisation: CLARA Tool



Hunter Water CLARA Results



Learning and Resilience

- Learning power as a tool to being about internal culture change
- Customer journeys as learning journeys
- Behaviour change at scale for a more resilient water future

What happened?

 Marketing team transformed summer demand management campaign using learning power principles – aimed at raising curiosity and building hope and optimism.

Learning to Love Water with our communities





WATER WISE RULES FROM 1 JULY



THREE KEY RULES

- 1. All hand held hoses must have a trigger nozzle attached.
- 2. Watering with a sprinkler, irrigation system or hose is permitted any day before 10am or after 4pm. This avoids the hottest part of the day when water wastage occurs due to evaporation.
- 3. No hosing of hard surfaces such as concrete, paths and driveways. Use a broom instead.









These actions can be performed any day before 10am or after 4pm. This avoids the heat of the day when water wastage occurs due to evaporation.







Top up or fill a pool





Hoses must have a trigger nozzle



These actions can be performed at any time. Remember, hoses must always be used with a trigger nozzle, whatever the action or time of day.



Sports grounds



Firefighting



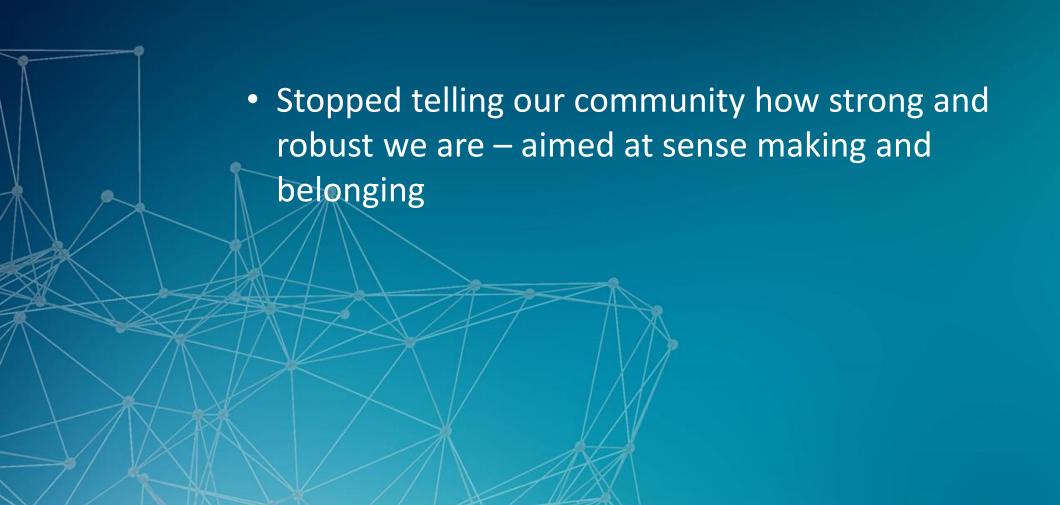
Rainwater or bore water

Hunter Water's supply can be used in the event of, or to prevent, an accident, health hazard, surface discolouration or environmental issue.

You can always use water to defend property from fire or test fire protection systems. Watering systems can be used to establish new lawns and gardens for up to 14 days from installation. Other exemptions apply. Visit hunterwater.com.au/waterwise to find out more.



What happened? (Cont)







MEDIA RELEASE

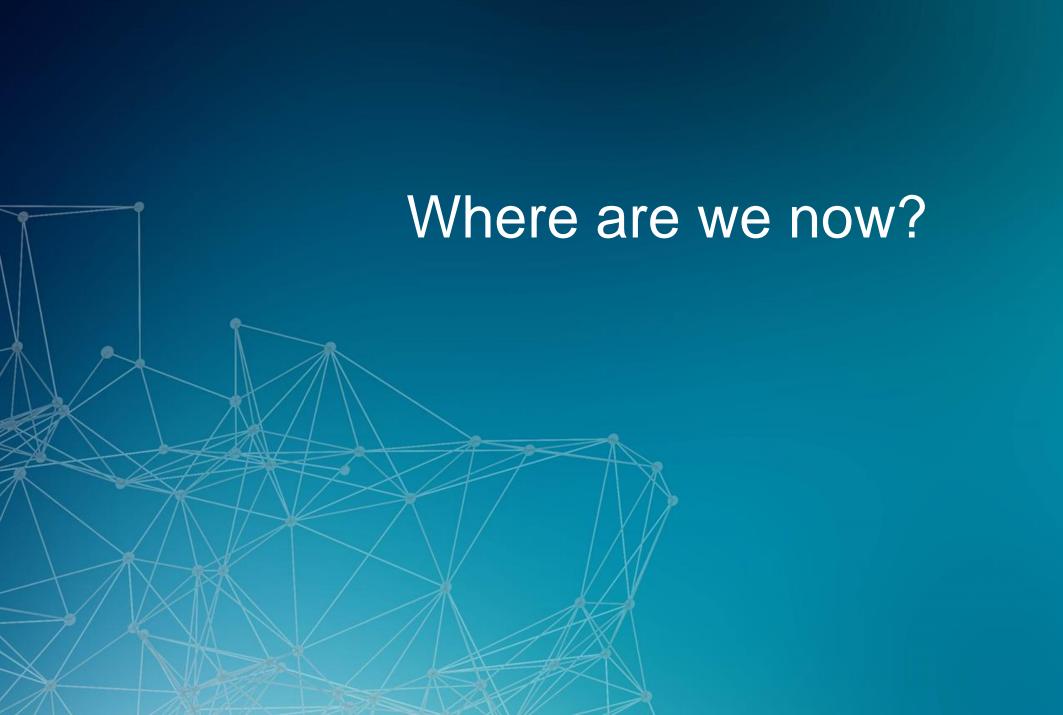
Wednesday, 1 July 2015

\$1BILLION FOR HUNTER WATER INFRASTRUCTURE

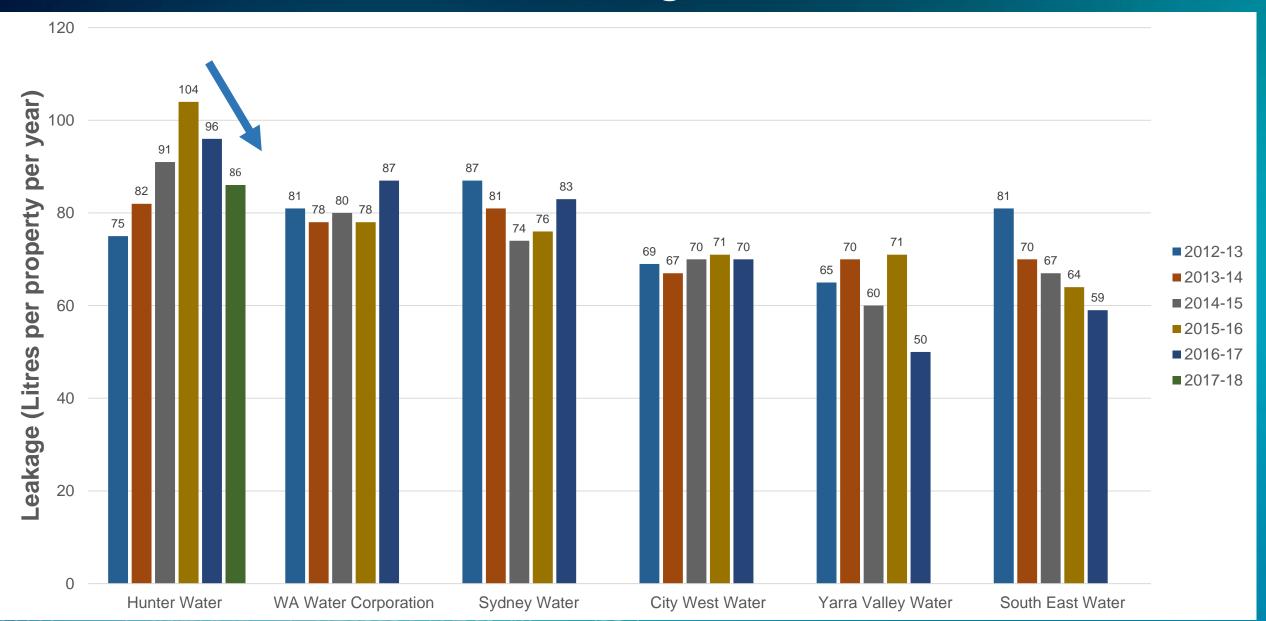
Hunter Water will invest \$1.1 billion into better infrastructure during the next 10 years in the Hunter, to support the increase in the region's population to one million people by 2050.

What happened? (Cont)





Leakage



Development Services Statistics

In a year in which we received a record number of development assessment applications:

Average processing time reduced from 21 days (2017) to 11 days (2018)

 Average processing time for Compliance Certificates reduced from 5.4 days (2017) to 2 days (2018)

 95% score us 9/10 and 91% extremely likely to speak positively about development services at Hunter Water

Mystery Shopping



TRANSACTIONAL

No ability to score of rate our CSRs on their individual performance

Mystery shopping program in February 18

Focus on ease, sentiment & success

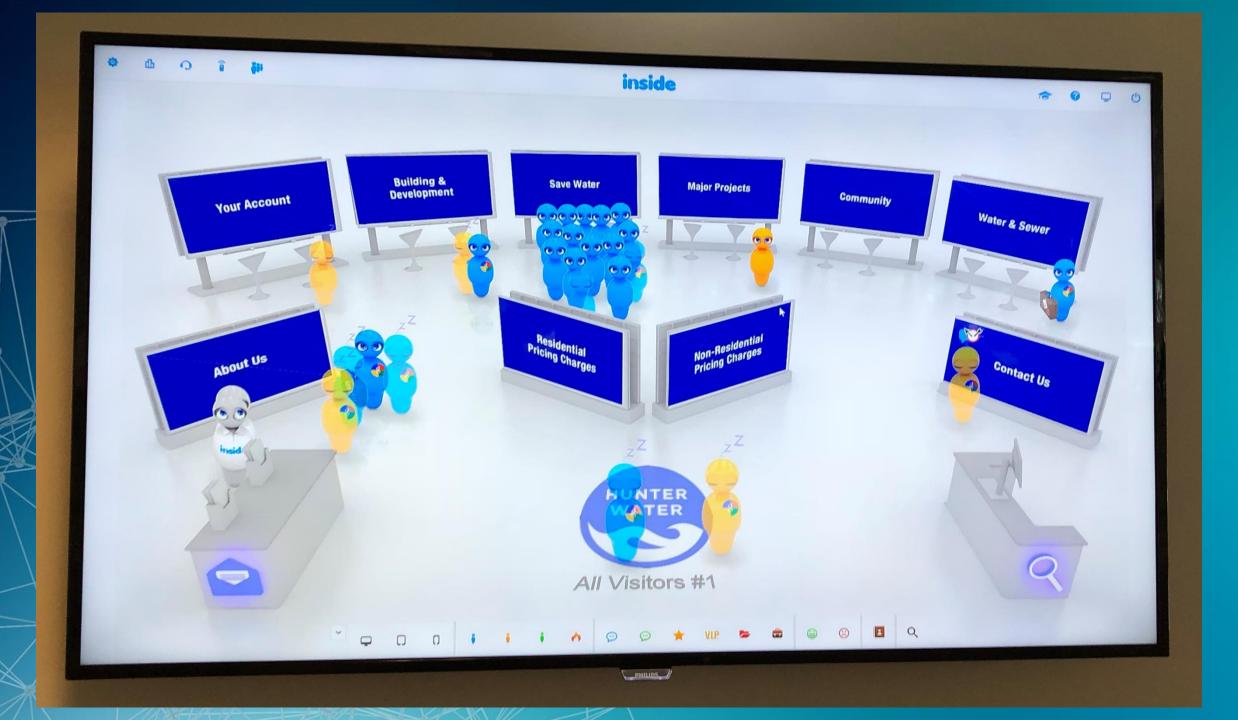


BEHAVIOURAL

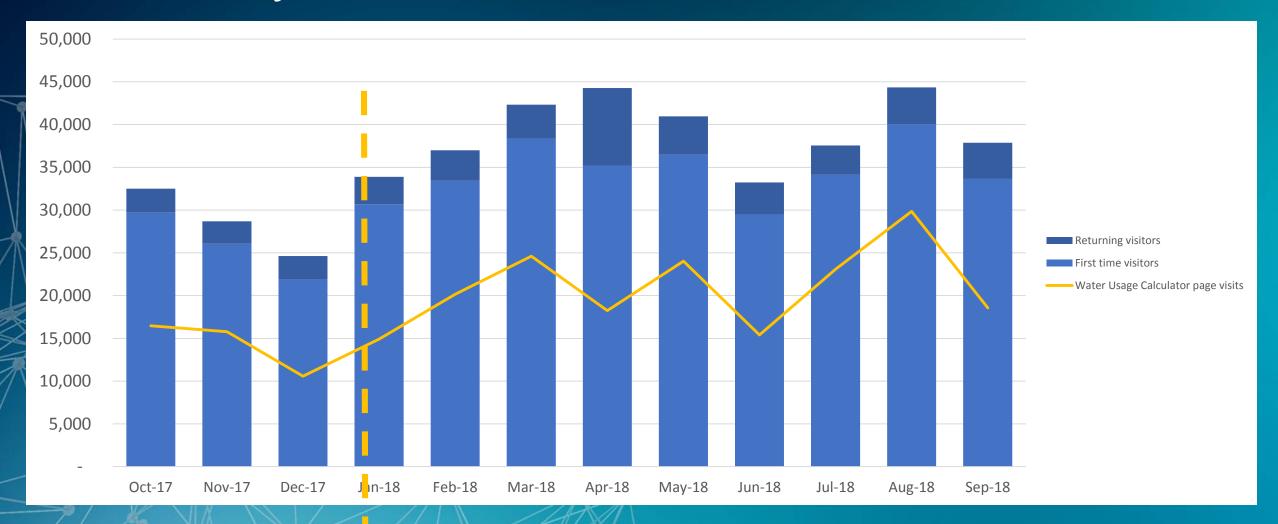
Used as a coaching tool

From **52**% to **69**% in 7 months

Top performance and most improved program



Monthly website visitors: hunterwater.com.au





Drawing water out of air

BY HELEN GREGORY

A PIONEERING University of Newcastle research team that has developed technology to produce drinking water from thin air is preparing to showcase its revolutionary work on the world stage.

UON's Hydro Harvest Operation team is the only Australian cohort to reach the final stage of the twoyear and \$1.75 million Water Abundance XPRIZE competition, which challenges teams to create a device that extracts a minimum of 2000 litres of water per day from the atmosphere using 100 percent renewable energy, at a cost of no more than two cents per litre.

Professor Behdad Moghtaderi from UON's Newcastle Institute for Energy and Resources said teams were working with the aim of delivering decentralised access to water to help solve the global water shortage crisis.

His team's low-cost, fussfree and energy-efficient it would have worldwide to below the dew point, the



TRAILBLAZERS: Clockwise from back, Dr Priscilla Tremain, Dr Andrew Maddocks, Dr Cheng Zhou, Professor Behdad Moghtaderi and Associate Professor Elham Dooroodchi, Of the initial 98 teams, only four were from Australia.

simple as possible to ensure ation cycles that cool the air

to keep the technology as are usually based on refriger- not cooling."

The modular and environmentally friendly technology prototype is capable of con- applications, especially for point at which condensation can work anywhere without verting the air's humidity in-developing countries," Pro- will form. We're turning that being bound to climate,

to use desiccant to absorb "Then we use solar energy to drinkable water. "We went fessor Moghtaderi said. "At- idea on its head. Our process which could potentially hot, humid air that moves into the competition wanting mospheric water generators is based on heating the air, transform the future of water over and around the desic-

cant. The hotter the air, the more water it's going to hold and then by cooling that hot air, we get the water back."

Prize organisers said there was more than three quadrillion gallons of untapped water in the atmosphere, or enough to meet the needs of every person for a year.

The Hydro Harvest Operation team is comprised of Professor Moghtaderi, Associate Professor Elham Doroodchi, Dr Andrew Maddocks, Dr Priscilla Tremain and Dr Cheng Zhou, working under UON's newly established Global Impact Cluster for Energy, Resources, Food and Water. Associate Professor Doroodchi said the team was "thrilled" to be selected as finalists in the competition. "It feels great to be representing our country as we have been working incredibly hard to turn our simple idea into a viable reality," she said. "Even if we don't win, generation. "The first step is we will pursue the idea to ensure greater access to water for all." They will join four teams from India, USA and during the day to produce the UK in the competition's

University of Newcastle Global Impact Cluster Energy, Resources, Food and Water research Water from dehumidification



Engagement Survey 2018 vs 2016

	2018	2016	IND DIFF	ALL DIFF
PASSION/ENGAGEMENT	79%	81%	+5	+11
Organisation Commitment	84%	84%	+13	+12
Jobs Satisfaction	81	85	+1	+8
Intention to Stay	71	72	+2	+14
PROGRESS	63	45	+12	-5
Organisational Direction	69	57	+14	-2
Change and Innovation	46	33	+6	-10

Key Changes

	2018	2016
Organisation Direction	83	52
Senior Leadership	59	46
Cross Unit Collaboration	44	37
Processes	41	44
Technology	40	44

Conclusion

- 1. A more inspiring purpose appears to have led to employees being actively engaged
- 2. We have overcome fear of change resulting in some important KPI improvements:
 - * 17% reduction in leakage
 - * halving of time taken to provide approvals to developers
 - * from mid-way to top 2 in mystery shopping scores Leaders now dare to believe!
- 3. Strong evidence that community is now curious about how to use water more wisely
 - * too early to say whether their behaviour will change, but encouraging signs

