

# Sustainable Cities Design Challenge

## Water and energy systems integration - multidisciplinary collaboration to design sustainable cities

The Sustainable Cities Design Challenge successfully promotes collaboration and interdisciplinary work to design the cities of tomorrow.

### What is the Sustainable Cities Design Challenge?

Throughout workshops, interactive activities, field trips and group sessions with experts and leading academics, multidisciplinary teams work together on a case study to improve sustainable city design and liveability.

Teams compete in a game-based environment to solve this challenge.

### What are the benefits of the Sustainable Cities Design Challenge?

- Participants develop skills for **collaboration** and gain a multidisciplinary approach which are key to tackle sustainability issues of our cities.
- Participants are equipped with **knowledge and skills** to enable more sustainable and liveable places.
- Professionals get involved in sustainability issues and contribute uniquely from the perspective of their discipline. Consequently, more **effective solutions** are obtained with the contributions from each discipline harmoniously integrated.



Participants say:  
 “The variance and quality of the lectures were very interesting - it was very well organised and timed and provided some really interesting numbers, ideas, challenges and opportunities”

“I really enjoyed learning from different aspects, and working with people from different expert field but towards the same goal”



## Key Learning Opportunities

### Build applied knowledge.

Participants use critical thinking around a key issue influencing city design and management.

### Unlock ideas.

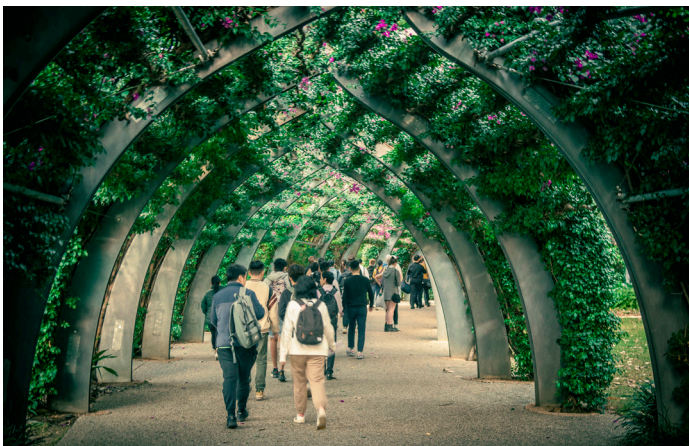
Participants get the chance to apply systems thinking to understand problems in the city and discuss the feasibility of their ideas with team members, mentors and industry experts.

### Test and refine ideas.

Access 40 hours of Continuing Professional Development, including knowledge and use of Cooperative Research Centre for Water Sensitive Cities analysis tools, and 40 hours of industry placement towards student’s Engineering Professional Practice (EPP).

### Take ideas to the next level.

Leverage the expertise and understanding of different fields (energy, water, architecture, planning) to solve real-life problems related to solve real-life problems related to sustainability, urban growth, water and energy demand, resource efficiency and liveability.



## History

The Sustainable Cities Design Challenge has been convened several times at The University of Queensland by an experienced team led by Professor Steven Kenway with collaboration of Professor Steve Conrad (Colorado State University).

The Challenge has proven highly popular with students. The Challenge or its component resources have been adopted into multiple courses at UQ. It has also been taken up in Belgium, Poland, Spain, The United States, and Canada.

## Proudly supported by:



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