Media Release
1 October 2019
For immediate release

Industry research highlights a new integrated approach of improving lifecycle value of assets in housing, building and infrastructure

Research from the Sustainable Built Environment National Research Centre's (SBEnrc) *Unlocking Facility Value through Lifecycle Thinking* project indicates that lifecycle thinking has significant potential for improving the delivery, maintenance and operation of facilities. Industry disaggregation, poor marketing of the value and disparate market drivers have limited the potential for greater uptake along the supply chain.

This new Sustainable Built Environment National Research Centre project aims to make use of smart digital frameworks to appropriately capture the information required for key decisions made across the lifecycle of facilities in the housing, building, transport, utilities and airport sectors, through developing an automated integrated system for asset management.

Curtin University's Professor Keith Hampson, CEO of the Sustainable Built Environment National Research Centre, said the work in this project will address the industry challenge of integrating different digital platforms through the facility lifecycle for making informed decisions.

"An enormous volume of disjointed data is generated in the Architectural, Engineering and Construction industry. This SBEnrc project aims at addressing the problem of data silos to enhance data integration and make better informed decisions".

Steve Golding, Chair of the Project Steering Group and Director of North Queensland Bulk Ports, said the project will improve the understanding of the requirements and challenges faced by industry in relation to key decisions made in managing assets through long-term lifecycle thinking.

"Incorporating lifecycle thinking can offer a better understanding of the potential economic, social and environmental consequences of decisions over the entire lifecycle of the projects. This SBEnrc project plays an important role in increasing awareness of lifecycle thinking, not only during the construction of a project, but also for the operation and maintenance of facilities, through better education and training and by involving asset managers and operators".

Associate Professor Peng Wu, Leader of the project, said the project will also integrate artificial intelligence through various lifecycle phases of projects to better understand and visualise the impacts of decisions.

The 18-month project commenced in October 2018, with extensive collaboration with Main Roads Western Australia, Aurecon, Department of Finance, Building Management and Works Western Australia, Queensland Department of Housing and Public Works and NSW Roads and Maritime Services.

The SBEnrc, provided the industry research leadership in coordinating and funding this key project, with members including Aurecon, the Government of Western Australia, Queensland Government, NSW Government and Curtin, Griffith and RMIT Universities, and with additional industry supporters including Water Corporation WA, Seqwater and NATSPEC.

According to SBEnrc CEO Professor Keith Hampson, "The SBEnrc is a unique Australian collaboration that blends individual contributions of industry, government and research partners to deliver practical leading-edge outcomes".

About the SBEnrc

The Sustainable Built Environment National Research Centre (SBEnrc) is the successor to the CRC for Construction Innovation. Established on 1 January 2010, the SBEnrc is a key research broker between industry, government and research organisations servicing the built environment industry. SBEnrc partners include: BGC, Government of Western Australia, Queensland Government, New South Wales Government, Curtin University, Griffith University and RMIT University.

** ENDS **

Interviews:

Peng Wu, Curtin University peng.wu@curtin.edu.au, 08 9266 4723