

Enhancing the Use of Products with Recycled Contents in the Australian Construction Industry

October 2021 - June 2023

The project will make a significant contribution to the construction industry by enhancing the use of products with recycled content. This will ensure increased business opportunities and benefits for manufacturers of such products and achieve circular supply chain sustainability. The aim of the project is to increase the use of construction products with recycled content to make the use of them more mainstream.

Objectives

The project aims to achieve the following objectives:

1. Identify factors (barriers and enablers) influencing the use of products with recycled content in the construction industry in Australia and understand end-user's perceptions about the application of these products
2. Develop a framework for an independent certification program for products with recycled content and identify robust technologies to develop quality products with recycled content
3. Review the issues related to "Design for No Waste" and "Design for Recycling" and contribute to the development of relevant industry guidelines
4. Develop stakeholder-guided behaviour change strategies through a co-design/co-created educational program for the construction industry

Industry Outcomes

The proposed certification framework will ensure the provenance and quality of recycled products. Thus, the project will improve industry practice by bringing confidence back in the use of products with recycled content. The project will enable:

1. In-depth understanding of barriers and enablers influencing the use of products with recycled content in the construction industry
2. Framework for an independent certification program for products with recycled content
3. Understanding of robust technologies for processing construction waste and developing products with recycled content
4. Contribution to Design for No Waste or Design for Recyclability guidelines
5. Pilot tested and validated education/training program aiming at behaviour and attitudinal changes for managing construction waste on construction sites



Associate Professor Tayyab Maqsood

BSc MEng PhD
Project Leader, RMIT University
tayyab.maqsood@rmit.edu.au



Ainsley Simpson

BSc (Hons) MBA
Chair, Project Steering Group
CEO, Infrastructure Sustainability Council (ISC)
Ainsley.Simpson@iscouncil.org

