

# Yarra Trams Renewal Project

The Adbri technical team was engaged by Fulton Hogan to customise our 50MPa general purpose concrete mix to reduce its embodied carbon for the Tram Tracks Renewal project in Victoria. As the project owners, Yarra Trams considered a 25% cement substitution and other optimisation opportunities for both sustainability and performance benefits.

The Adbri team created a bespoke mix by replacing a portion of this cement with slag, a byproduct which can be used as an SCM. SCMs can lower embodied carbon without lowering the strength or performance of concrete mix.

By replacing up to 25% of the cement content with slag, Yarra Trams made the sustainable choice to *Build Better* with Futurecrete®. Their choice resulted in a reduction of up to 270,000 kg CO<sub>2</sub> equivalent per year of supply, compared to conventional concrete, as evidenced in Adbri's concrete EPDs\*.

Yarra Trams and Fulton Hogan are

# Building Better

\* Comparison between Victorian manufactured 50MPa 20mm 25% Slag concrete and the National Life Cycle Inventory Database (AusLCI) equivalent ready-mix concrete with no cement replacement.