With 60% of the world’s population, five billion people, slated to live in cities by 2030, rail network operators are hard pressed for urban mass transit solutions. Congestion, lack of adequate mobility, environmental pollution and safety represent some of the most important challenges today. Moreover, increasing urban transport capacity is at the crux of solving these issues.

For over 70 years, Alstom has been addressing such urban challenges and is constantly upgrading the most service proven radio Communication Based Train Control (CBTC) signalling solution, the Urbalis range. Widely proven and constantly upgraded, the Urbalis 400 represents the ideal CBTC solution for urban transit operators aiming to maximise performance and capacity and who require traditional interlocking systems for operational needs. The new Urbalis Fluence is a CBTC solution whose intelligence is based onboard the train. It offers operators very high capacity, reduced minimal headway, best-in-class operational availability and optimised lifecycle costs. These advanced Urbalis systems ensure highest passenger transport capacity, operational availability, and lowest life cycle cost on the market.

Frederic Dufour holds the position in ALSTOM Transport of Train Control and Signalling Director for Australia. During the NWRL Project planning phase, Frederic was in charge of the tender for ALSTOM.

Frederic is originally a Civil Engineer with an engineering degree, Master of Sciences and PhD in Automatics and Microelectronics. He has fifteen years experience on railway projects working in Europe, South America, China, SE Asia and locally in Australia for the last three years, and has held several positions in rolling stock and signalling.