

SESSION SPONSOR PRESENTATION: SYNTELL AND BYTEFUSE

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ABSTRACT

Developed locally in partnership with Syntell and Bytefuse, Quebit is an adaptive, data-driven **artificial intelligence (AI) traffic management solution**. With continuous fluctuations in traffic patterns, the timing configurations at intersections are often outdated and asynchronous, leading to reduced traffic flow and increased congestion.

Quebit's **intelligent, self-learning** system adapts to changing traffic patterns in real time. It's packaged into a module, a **plug & play** device that can be easily installed in any controller that supports the UTMC protocol. Quebit promptly handles **acute fluctuations** in traffic patterns, such as those observed during load shedding, accidents and events. Within corridors, Quebit synchronises the timings between the intersections with the goal of **continuously optimising** traffic flow through a city-wide grid of intersections.

In this talk we'll demonstrate how Quebit performs in real-world conditions compared to other adaptive control solutions.