



## PRESS RELEASE

### FOR IMMEDIATE RELEASE

#### **AI-Driven Adaptive Control Delivers up to 57% Reduction in Traffic Delays on Syntell MX Signal Infrastructure**

Stellenbosch and George, South Africa — A groundbreaking deployment of an AI-driven optimisation layer, developed by Quebit, has demonstrated 30–57% reductions in delays across intersections running standard Syntell MX traffic signal controllers—without hardware replacement, firmware modification or civil works.

This marks the first large-scale deployment in South Africa where an AI adaptive control layer connected directly to operational MX controllers.

#### **AI Control Integration with Existing MX Infrastructure**

Using the Syntell MX controller's open communication protocols, the Quebit AI module enabled:

- Real-time optimisation of signal timing
- Dynamic phase and cycle adjustments
- Continuous high-resolution monitoring
- Zero modification to controller hardware or firmware

#### **Key Field Results – Stellenbosch (R44 Corridor)**

Median corridor delay: ↓ 60%

Maximum corridor delay: ↓ 56%

Mon–Thu average delay: ↓ 56%

Friday peak delay: ↓ 57%

Throughput: ↑ 4% vehicles cleared

#### **Safety Finding**

Quebit's monitoring detected an unreported all-red clearance safety issue at R44/Techno Avenue, enabling immediate correction.

#### **Expansion Phase**

Stellenbosch Municipality has signed a 12-month SLA (Oct 2025) to expand the programme to 36 intersections.

#### **George Deployment – Beach Road & York Street**

- Increased right-turn throughput
- Reduced queuing
- Improved pedestrian coordination

#### **About Quebit**

Quebit specialises in AI-driven adaptive traffic signal control and high-resolution urban mobility analytics.

#### **About Syntell**

Syntell is a leading provider of advanced traffic management and intelligent transport systems in South Africa.