

TraffiGO™

Smart autonomous portable traffic light system

“Smart Traffic. Anywhere.”

Technology

TraffiGO™ is an invention that introduces an intelligent, autonomous, and portable traffic light system designed for efficient management of traffic with minimal infrastructure. By integrating advanced technologies such as solar power, AI-driven traffic control, LIDAR-based vehicle detection, and IoT connectivity, the system offers a dynamic, real-time optimisation of traffic flow, reduces congestion, and supports sustainability. It is easy to deploy and able to operate independently, making it a flexible and cost-effective solution for both temporary and long-term traffic management needs.

Market need

The system addresses a variety of market gaps, making it relevant for urban development, transportation, construction, and emergency response.



Features

- Fully autonomous operation with AI and LIDAR-based vehicle detection
- Solar-powered system with optional battery backup for off-grid use
- Portable and modular for rapid setup and relocation
- IoT connectivity enables remote monitoring, data analytics, and adaptive control
- Reduces congestion while promoting sustainable, low-energy traffic management



Benefits

- Intelligent, adaptive control significantly improves vehicle throughput.
- Low setup and operational costs compared to traditional infrastructure.
- Uses renewable energy and smart operation to minimise environmental impact.
- Perfect for construction zones, roadwork detours, or events where fixed traffic lights are impractical.
- Deployable in disaster zones or emergency reroutes where infrastructure is damaged or unavailable.



Industry

Construction & Roadworks

Military

Security operations

Potential applications

- Temporary and emergency traffic management (e.g., construction zones, accidents)
- Smart city traffic optimisation and congestion reduction
- Deployment in remote or developing regions lacking fixed infrastructure
- Integration with municipal smart transport and IoT networks

Creator

Dr Etienne Alain Feukeu

Stage of development

Early stage

Intellectual property

Patent Protection

Desired relationship

Co-development, Investors