

ALGORITHM TO DIGITALLY MONITOR OVERLOADING OF TRUCKS WHILE MINIMISING CONGESTION AT WEIGH BRIDGES

Cost savings for toll road operator, and reduced waiting time for heavy vehicles.

Technology Overview

This novel system allows for digital monitoring of payloads on heavy vehicles and avoids repetitive, physical weighing of compliant vehicles at static weigh bridges to check overloading status.

This is achieved by digitally linking all weigh bridges and existing or new cameras on a specific corridor. Once a truck is weighed and photographed, the system digitally recognizes any visual changes and undue delays, while the vehicle is in transit.

Only exceptions (with visual changes, undue delay, stoppages and detours) are referred to the static weigh bridge for re-testing, saving time and money.

Technology Benefits

- Cost effective, digital, centrally monitored law enforcement.
- Easy to integrate into existing systems.
- Advances prolonged pavement surfaces.



Market Opportunity

Ideal for management of toll roads and logistics corridors, including self-policing industries such as mining and forestry, especially in developing countries.

Assist with management of tarred road maintenance.

Project status

Granted patents in SA, ARIPO, OAPI, Nigeria, India, Brazil

Currently seeking licensees or purchasers for the technology.

Contact: North-West University
Technology Transfer & Innovation
Support Office

Hannes Malan +27 (0)82 412 4930

Hannes.Malan@nwu.ac.za