



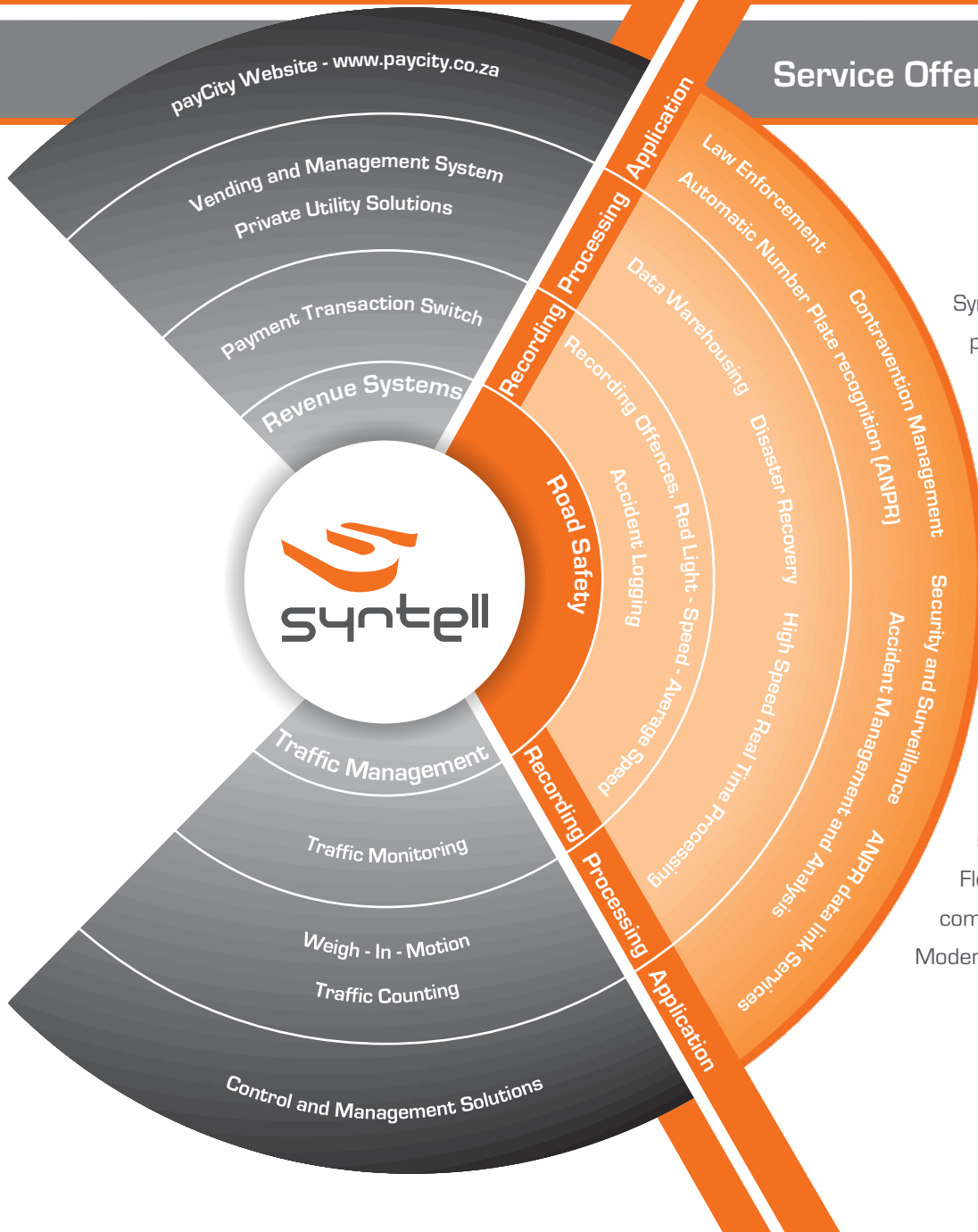
Road Safety

Vehicle surveillance and enforcement solutions



Road Safety

Service Offering



Syntell's Road Safety business provides turnkey solutions to enable vehicle related enforcement services

Infrastructure that enables

Recording
of incidents and data

Processing
and management of the data

Systems that facilitates solution specific **Application**
Flexible Revenue sharing
commercial solutions based on
Modern technology platforms

Vehicle related, surveillance and enforcement solutions

Syntell is a leader in end-to-end traffic law enforcement services and systems. We recognise the importance of safe, first world road infrastructure and management systems, and a society that holds itself accountable for contributing to this environment.

Recording and Capturing

Syntell provides the infrastructure and technology required to capture traffic violations or other related events for processing.

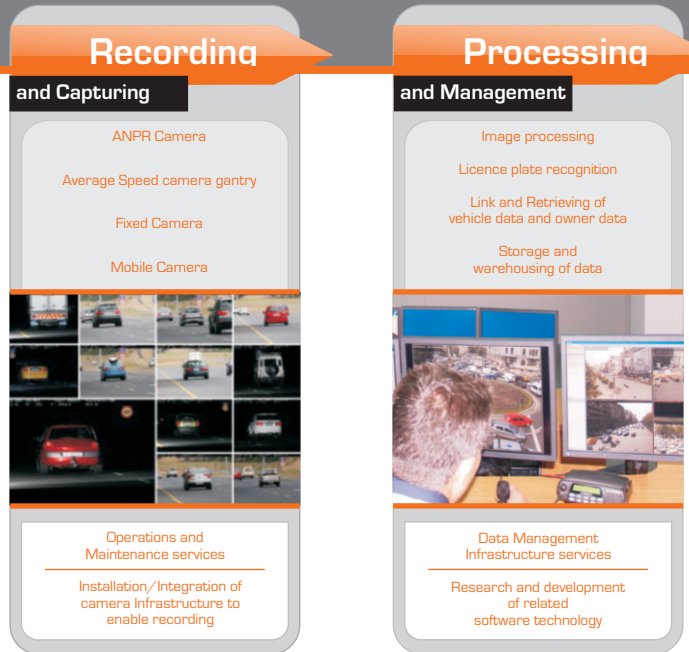
There are various options available

- Mobile speed cameras, using the latest technology on the market,
- 3D tracking radar, tracking 32 vehicles over 5 lanes
- Fixed speed cameras
- Red light cameras
- Average Speed over Distance installations, with the additional data mining and analysis to provide valuable data for future planning
- Syntell provides a turnkey delivery solution for the installation, commissioning and operation

Processing and Management

Syntell provides a complete data management solution, data is hosted in a secure but accessible environment; enabling efficient usage and application of the data. The data servers' flexibility means they can be hosted as a service to our clients or within the client's IT infrastructure.

- Data separation to ensure and protect confidentiality is an integral part of the service
- Disaster recovery and management of uptime and system availability is a key part of Syntell's solution
- Ongoing Investment in Research and development to ensure the correct level of technology is available for the relevant application



Application specific data usage

Syntell technology enables the processing of data collected from contravention events for a large number of applications and services.

Road safety improvement

- Law enforcement
- Management and processing of violations, Speeding (Average speed over distance, fixed and mobile cameras), Bus lane monitoring, Rail crossing monitoring, License and registration, Smart roadblocks and ANPR roving vehicles
- Proactive communication with road users "Real time" Text SMS
- Road user specific with ANPR or monitoring
- Security and surveillance Prevent access to controlled areas
- Alerting police and security companies

Syntell Products & Systems

Application

special data usage

Road Safety initiatives

Law Enforcement

Speed enforcement

- Licence and registration
 - Tax revenue collection
 - Accident logging
- Access control applications
- Security and surveillance

Data Mining, Analysis, Reporting
and Alert services

Back office processing services

Call centre services

SYNTELL X1 Radar Speed Camera

Syntell has designed and manufactures the Syntell X1 mobile 3D Tracking Radar enforcement camera. The X1 can cover up to 5 lanes of traffic and capture offence details in less than 0.5 seconds. It has the capability of tracking 32 targets simultaneously. Other violation capturing technologies :

Red light violation cameras, Fixed speed cameras, Road monitoring cameras (i.e. Bus lane or Rail crossings)

SYNTELL QX1 Image processing and management System

Syntell offers a highly efficient image processing system that can process high volumes of violations efficiently, securely with utmost data integrity. The images will be stored for reference and can be uploaded to a contravention management system for prosecution.

SYNTELL OPUS Contravention management system

Syntell has designed and developed its own unique Traffic Management Contraction system – OPUS. This system is built on the latest Microsoft SQL platform, thus making it an internet based system that can be accessed from anywhere with the proper access and security levels. This gives users the flexibility of logging in to the system from remote sites to access any information required. The Opus TMS performs the complete back-office function associated with traffic offences, right through all processes until the cases have been finalised. The system can be configured to interface with most types of cameras as well as other payment systems, like Payfine, Banks, South African Post Office (SAPO) and the like. Opus interfaces directly with our call centre campaign system as well as the smart ANPR Roadblock System.



PayCity Web Viewing and Fine Payment

Syntell has developed its own violation web viewing site www.payCity.co.za

By logging onto the internet, the public can access this website and view their fines from anywhere in the world.. This facility alone alleviates congestion at the Traffic departments, where many offenders have to spend long hours in lengthy queues to view their fines. Since the website went live, nationally, Syntell has experienced an average of four 'hits' (ie, visitors to the site) per second.



payCity
connected cities
www.paycity.co.za



Syntell Average Speed over Distance

Multi Purpose, Red light,
Speed & ANPR
monitoring Camera



Security surveillance cameras
Road side, Shopping malls
neighborhood security



Syntell has the capability of providing this unique system to valued clients. We believe that this excellent offering will totally revolutionise the method of speed enforcement. The current method of enforcement via fixed or mobile cameras take place on one specific place at a given time.

The Average Speed Over Distance measures the average speed of a vehicle over a variable range of distances which are determined by traffic authorities. Two cameras are set-up over a specified distance (from as little as 1 km to hundreds of kilometers apart). As a vehicle passes the first camera, the time and date are recorded, the same occurs when it passes the second camera. This information is then used to calculate the average speed over that stretch of road. The system manages multiple lanes and automatically manages vehicles that change lanes within a section.

The Syntell JIS (Joint Information System)

provides an Internet based central repository and management nerve centre for the interchange of data. The system manages information in real time,

interacting with deployed equipment via 3G or Wi-Fi networking, both at mobile and fixed locations. The system provides an on-line 24/7 link to data on the criteria to be associated to the managed data gathering systems. Data relating to read number plates can be queried instantly, returning to the roaming operators all data linked to the vehicle in question. The heart of the JIS system is a web of data servers that are managed to ensure data exchange occurs with the absolute minimum of delay, this is critical especially when considering the use of mobile ANPR platforms.

Security and Surveillance Capability of JIS

The use of the JIS enables the roll out of a web of sensory systems that require little more than the detection device and JIS client interface package. All of the data recording and data interchange is managed by the central server. The system can be scheduled to provide information reports to key management, security service and law enforcement officials, this can either be in the form of a Remote Monitoring Client, SMS or via Email.

Syntell iTES (integrated Traffic Engineering Solution)

Syntell offers a fully integrated iTES that has been locally developed over many years. The iTES system is a spatially orientated traffic and accident/crash management system that has been developed to cater for the engineering requirement of national, metropolitan, provincial and municipal roads and traffic departments. The system offers a central repository for all road related information using a GIS road map as the base. This ensures seamless integration of the many management systems being used by various role players. All data resides in a single and central database, which includes the following:

Traffic Data Monitoring Module

The management and maintenance of a road network is no small task. It is of utmost importance that the type and number of vehicles utilising the network, as well as the traffic growth patterns on the network, be monitored regularly to ensure that planning for road rehabilitation, resealing and rebuilding is done correctly.

The latest technology is used to ensure that the client will receive information that is in line with national and international standards.

Accident/Crash Management Module

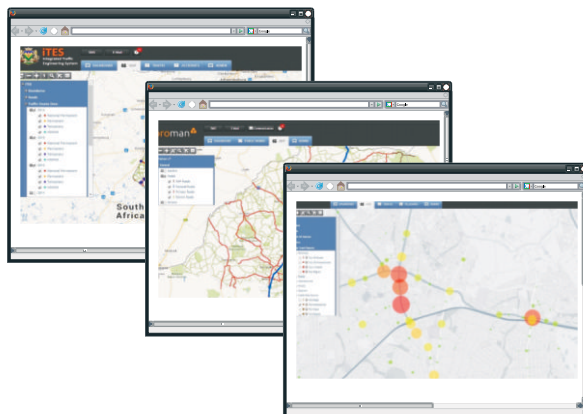
Crashes can mainly be related to three factors, and in some cases a combination of these factors, namely Human, Road and Vehicle related aspects.

It is of the utmost importance to link crashes to an exact position on a road and to determine the reason for the crash. This provides the means to address the factors contributing to the crash.

The collection, verification and management of crash statistics is a very complex task with multiple role players that need to be committed to the process ensure optimum results. Syntell personnel have been involved in the collection, processing and analysis of crash records for more than 20 years.

Integrated GIS Module

All information in iTES is displayed visually on the integrated Google based GIS. This allows for the effective understanding and management of all information.





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Syntell is a leading blue chip company providing cutting edge technology-based services and systems for road safety, traffic management and revenue collection. Syntell was originally part what was Plessey South Africa which was founded in 1963. As a trusted partner to local, regional and national governments around Africa and the world, Syntell understands the dynamics of effective public-private partnerships when it comes to the needs of cost-effective service delivery. Syntell is majority-owned by JSE listed Hoskins Consolidated Investments (HCI).

Note that Syntell supports the principles of Employment Equity

Please contact Syntell for more information at
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www.syntell.co.za