

ASX ANNOUNCEMENT

8 June 2018

Redflex Holdings Limited | ABN 96 069 306 216

Redflex

Investor Update

Redflex Holdings Limited (**ASX:RDF**) releases to the market an investor update.

About Redflex

The Redflex Group has established itself as a world leader in traffic enforcement products and services, developing leading enforcement camera technology and owning and operating one of the largest networks of digital speed and red-light cameras in the world. Redflex develops and manufactures a wide range of digital photo enforcement solutions including red light camera, speed camera and school bus stop arm camera systems, all utilising the most advanced sensor and image capture technologies.

The Redflex Group runs its own systems engineering operations, system integration technologies and innovation centre for research and development. With our continuous development of new safety products, the Redflex Group has been helping to reduce collisions and to save lives for more than 20 years.

Redflex Holdings Limited was listed on the Australian Securities Exchange in January 1997.

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Focus Areas during FY18



...positioning the Company to pursue profitable growth into the next financial year and beyond.

Target Markets

INTELLIGENT TRANSPORTATION SYSTEMS

Road Safety

- Automated Traffic Safety Enforcement (all vehicle code violations)
- Driver assistance
- Collision avoidance
- Incident Management

>\$1.4B USD

Traffic Management

- Heavy Vehicle Monitoring and Enforcement
- Transportation network companies monitoring & regulation
- Traffic management/ congestion management
- Transportation User Charging and Enforcement
- HOT Occupancy Enforcement

>\$35B USD

Compliance

- Insurance vehicle compliance
- Emissions testing/compliance
- Vehicle Classification
- Vehicle tax collection

>\$2B USD

*Market to Markets 2016

Managed Motorways

The image shows a perspective view down a multi-lane highway tunnel. The ceiling of the tunnel is a complex, ribbed structure with a blue-tinted glass or plastic covering, through which light rays are visible. The road surface is dark asphalt with white lane markings. Several vehicles are visible in the distance, including a dark car in the foreground right lane and a white van further ahead. The overall image has a motion blur effect, suggesting speed. A large, bold, black text overlay is centered in the upper half of the image.

Managed Motorways

- The term “Managed Motorway” is used to describe a motorway where a series of complementary technologies are implemented to maximise the utilization of the road infrastructure.
- The solution integrates a suite of traffic management systems to create a fully managed road environment with the following characteristics:
 - **Intelligent** – the system provides intelligent technology that continually monitors traffic conditions and analyses traffic data. Monitoring and analysis are used as inputs to manage traffic.
 - **Controlled** – the system incorporates a range of tools to manage individual lanes, including “Ramp signals”, “Variable Message Signs (VMS)” and “Variable Speed Limit Signs (VSLS)” to minimise congestion and traffic incidents on the motorway.
 - **Informative** – the system provides up-to-date information about traffic conditions and incidents to drivers who are already on or are approaching the motorway.
 - **Safe** – driving to safer roads by enforcing of a variety of lane controls, driving greater compliance and ensuring a safer journey

Halo Distributed – Average Speed (P2P)



Red X – Managed Motorway



Benefits

Observed benefits of Smart Motorways - Table 1 M4 Smart Motorway – Volume w, March 2015

Scheme	Benefits	Source
Highways Agency Studies across the UK	<ul style="list-style-type: none"> • Average journey time savings between 5 per cent and 30 per cent • Average increase in volume between 1 per cent and 5 per cent • Average increase in average speeds 4 per cent to 35 per cent 	Ramp Metering - Operational Assessment, Issue A, 2008, Atkins/Highways
M1, Coordinated Ramp Metering, Victoria, Australia	<ul style="list-style-type: none"> • Volume increased 30 per cent • Average speed increased by 25 km/h 	John Gaffney, VicRoads / ARRB, Presentation to 24th ARRB Conference, f2010
A40 Ramp Metering pilot, Germany	<ul style="list-style-type: none"> • 50 per cent congestion reduction during peaks • 40 per cent reduction in crashes on ramps • 10 km/h increase in motorway average speeds 	US FHWA, Active Traffic Management, International Technology Scanning Program, July 2007
Variable Speed Limits, The Netherlands	<ul style="list-style-type: none"> • Agency Crashes reduced 16 per cent • Throughput increased by 3 per cent to 5 per cent 	US FHWA, Active Traffic Management, International Technology Scanning Program, July 2007
Ramp Metering, The Netherlands	<ul style="list-style-type: none"> • Increased speeds Reduced shockwaves • Reduced short trips (rat running) 	US FHWA, Active Traffic Management, International Technology Scanning Program, July 2007