

# A few of our references

## Innovative intersection control in Rabat (Morocco)

Implementation on a national road, providing access to residential areas

- Intersection control able to solve issues caused by heavy traffic during rush hour

Intersection control solution deployed with the XCam-p video sensor

- Presence and stop detection on each leg of the intersection to optimize the traffic on the national road, while taking into account the traffic demand to/from the residential areas



## Real-time adaptive traffic management in Taipei (Taiwan)

Intersection improvements through saturation detection

- The main axis is permanently green, for maximum fluidity
- On stopped vehicle detection, the secondary axis turns green for a variable time, depending on the main axis saturation



## Anti gridlock – Paris Tramway (France)

Tramway/car intersections on the Tramway T3 route in Paris

- High risk of gridlock situations caused by vehicles turning left, forcing the tramway to stop

Implementation of an anti gridlock system at the tramway/car intersections

- Saturation detection on the turn-left areas
- On detection, the whole intersection turns red to solve the congestion and ensure tramway fluidity



## Traffic information in New York (USA)

Improved traffic information required in Manhattan

- Travel times and levels of service are computed based on the queue length measurements provided by the XCam-ng video sensors
- This traffic information is communicated to the drivers through Variable Message Signs and a website



*Paving intelligence into Security,  
Safety and Mobility*



*For more information, please contact Citilog*

### Europe

Citilog SA  
19/21, rue du 8 mai 1945  
94110 Arcueil - France  
Tél: +33 1 41 24 34 54  
Fax: +33 1 41 24 34 99  
citilog@citilog.com

### Norh America

Citilog Inc.  
2 Bala Plaza, Suite 300  
Bala Cynwyd, PA 19004 - USA  
Tél: +1 (215) 609-4945  
Fax: +1 (484) 873-2292  
citilogusa@citilog.com

### IberoAmerica

Citilog IberoAmerica  
Av. Jacarandas, 2 Oficina 110  
46100 Burjassot, Valencia - Spain  
Tél: +34 637 978 149  
Tel: +33 1 41 24 34 99  
espana@citilog.com

### Asia-Pacific

Citilog Asia  
35/F Central Plaza 18 Harbour Road  
Wanchai - Hong Kong  
Tél: +852 2593 1500  
Fax: +852 2593 1222  
citilogapa@citilog.com

## Video Analytics for Real-Time Urban Traffic Management

# Solutions for a more fluid traffic

## Real-Time Adaptive Traffic Management

**Goal:** Dynamically detect the saturation of a roadway and apply real time traffic management solutions

### Key benefits & functionalities

- Queue length measurement in real time
- Implementation of advanced intersection control strategies
- Waiting time reduction up to 20%; Greenhouse gas emission reduction up to 12%.

## Citilog's full range of video sensors provides:

- Real-time traffic analyzing based on image processing
- Operation in all weather and lighting conditions
- Fast ROI thanks to the low cost and field-proven reliability
- Low power consumption, allowing for a solar power source
- Seamless integration with all existing intersection equipment
- Video streaming capability

## Enforcement Systems : Red Light Violation – Point to Point Speed Enforcement

**Goal:** Improved intersection and highway safety

### Key benefits & functionalities

- Automatic license plate recognition, with built-in database
- Automatic billing system
- Easy deployment with limited civil engineering



Saturation Detection



Intersection Control

## Public Transportation Priority Management

**Goal:** Ensure public transportation fluidity for services such as light rail, tramways and rapid bus service

### Key benefits & functionalities

- Ensured intersection fluidity for both cars and public transportation
- Improvement of the mean speed of public transportation
- Improved reliability of travel times, for the satisfaction of public transportation users



Priority Management for Public Transportation



Anti-Gridlock

## Anti-Gridlock

**Goal:** Detect and avoid gridlock situations

### Key benefits & functionalities

- Combination of traffic measurements for precise detection of high risk gridlock situations
- Traffic optimization by avoiding a high risk situation and source of congestion
- Reduction of congestion-induced accidents

## Traffic Information

**Goal:** Provide traffic information such as travel times and levels of service

### Key benefits & functionalities

- Providing reliable traffic information to road users for improved trip planning
- Precise travel time and levels of service computations derived from queue length measurements
- Video streaming capabilities for visual confirmation of traffic situations



Traffic Information

