Ramp metering deployment on Paris peri-urban motorways

Overview

More than 4 millions road users are travelling every day on highways and national roads of Île-de-France. These roads carry a very dense traffic and are often congested. At the moment, DIRIF is implementing, on highways access ramps, traffic management measures (ramp metering, dynamic speed limits) to reduce congestion and travel times during peak hours.

Objectives

General background

This project is part of a global plan of dynamic traffic management systems that aims to:

- Reduce congestion
- Reduce travel times and enhance their reliability
- Increase road safety
- Reduce pollution

Project description

For each ramp metering access ramp

- sensors on the highway and on access ramps to monitor the state of car traffic in real time
- a traffic light on access ramps to modulate the access of the vehicles to the motorway

The waiting time for a red light is 30 seconds maximum

The system is robustly designed so that the line of vehicles on the access ramp can't reach back the local road.

A sensor is implemented at the beginning of the access ramp to release the vehicles when their number becomes too important

Member States involved:

France DIT

Implementation schedule

Start date: 2016
End date:2018

The project is part of a global plan which consists in equipping 75 access ramps on the highways of the Ile de France Region.

The roadworks of the binding part of the A86 (16 CAC to the South and West on the A86, the A6, the N12 and the N118) were completed in the beginning of 2017; tests are underway before commissioning the equipment. The next part is being implemented (17 CAC to the West and North on the A86) and works are expected to be completed in May 2017.

Budget

Action promoter: French DIT
Total project cost covered
by this Decision: 5311 k€
EU contribution:1062.20 k€
(Percentage of EU support: 20 %)

Results expected

These traffic regulations have been tested in the eastern part of the Île-de-France between 2007 and 2010. The evaluation of this experiment has measured significant benefits obtained from these measures.

- **Save time**: up to 15% during peak traffic
- **Increased fluidity**: increased average speed of 10 km / h during peak periods
- **Improved safety**: up to 20% reduction of accident risk
- **Reduction of pollution**: up to 30% reduction of polluting emissions

Contact People

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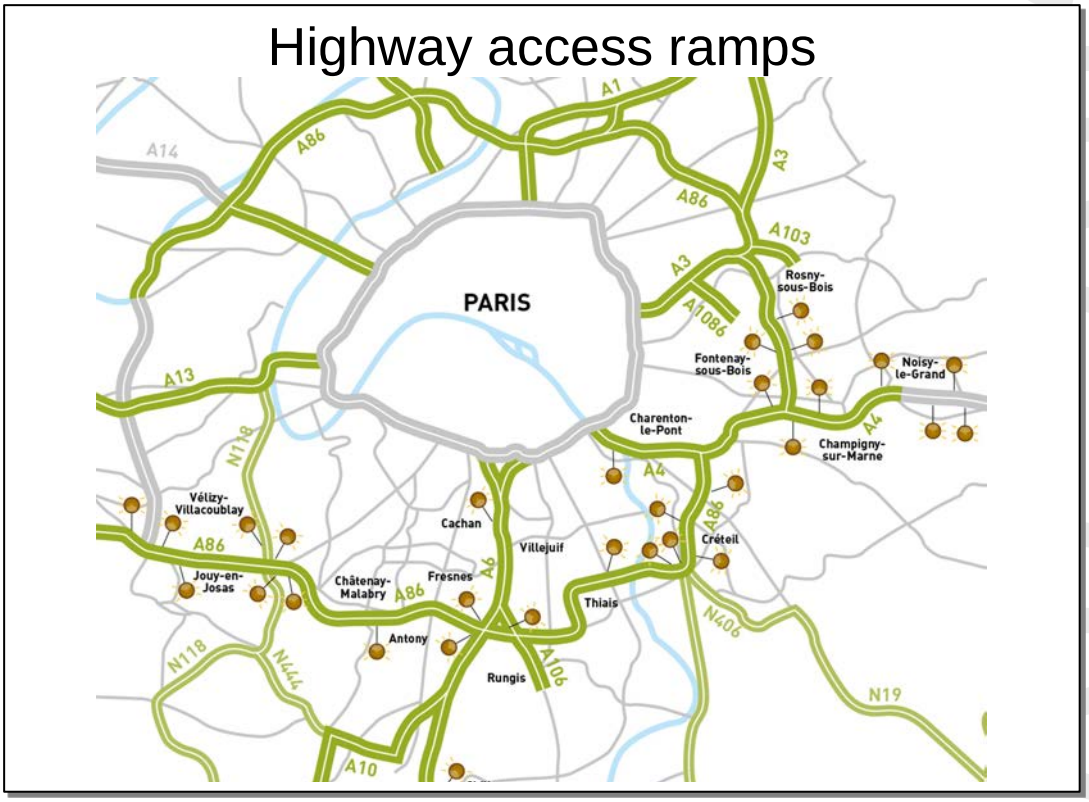
Geographical Location



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