

## Dynamic Bus Lane

by Loïc Vanbaelinghem / 2019-06-21 14:42:16 / Frankreich / 6812 / FR



Year of commitment : 2017

Digital services : Receivers

Sustainable mobility : Urban roads, Bus, Other



300 000 €

Builder

Eiffage Energy Systems

### GENERAL INFORMATION

The Métropole de Lyon, like all major European cities, faces major challenges in the mobility of goods and people. More than 4 million daily trips are made on its territory, of which 42% by private car which represents 2/3 of the kilometers traveled.

In order to improve the performance of buses in these constrained sites with high traffic pressure, the Lyon Métropole has experimented with a new device, based on dynamic management of the tracks. **Innovation consists in moving from a spatial sharing to a temporal sharing of the road network** .

This experiment took place in the first quarter of 2017, on Avenue Lacassagne in Lyon.

The principle of the **dynamic bus route** is simple: it is a question of allocating and temporarily dedicating a general traffic lane to the buses: the bus is then no longer stuck in the general circulation benefiting from a dedicated lane, while preserving acceptable traffic flow conditions outside the bus crossing.

The assignment of this dedicated channel is done in a "dynamic" way, by lighting of the LEDs on the ground and lighting panels of drawdown, indicating to the users the conduct to hold when a bus is approaching. Thus, as soon as the lane is dedicated to buses, the corridor is "sanctuarisé", and the cars are invited not to cross it

## Data Reliability

Self-declared

## Website Enterprise / Infrastructure

[Eiffage Energie Systèmes](#)

## Sustainable Development

Attractiveness :

The results of this experimentation are encouraging mainly with:

- Up to 28% gain in travel time
- Up to 25% gain in regularity
- No significant impact on traffic
- Ownership by users with 40% to 60% compliance rate

## Testimony / Feedback

## Governance

Greater Lyon

**Holder Type :** Local Authority

Eiffage Energy Systems

**Builder Type :** Construction Industry

The partners of the project are:

- Grand Lyon, which wished to put in place the device on its territory,
- Egis, who assisted the Metropolis for the selection of the site, the framing of the experiment and the evaluation,
- Eiffage Energie Systèmes, which designed and installed the dynamic management system.

## Sustainable Solutions

Dynamic bus corridor

**Description :**

The device breaks down in several times

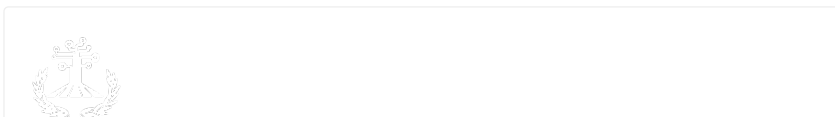
- Phase 1: When no bus is detected, the motorist is free to move and use both ways.
  - Phase 2: Upstream of the device, when a bus is approaching, it is detected then the first luminous panel tells users to fall back on the left lane. Simultaneously, the leds glow for strengthen vertical signage.
  - Phase 3: When the lane has been released by the motorists, the second dynamic panel lights up and indicates to the users the reserved character of the lane. It is transformed into a clean site and is accessible only to buses
  - Phase 4: When the bus crosses the junction, the light system of the first section goes out. Both lanes are again open to general traffic.
- Mobility :
  - Smart city :
  - Collaborative transportation

**Company (es) Website :**



## Contest

## Building candidate in the category





Grand Prix Infrastructure Durable



Prix du public

