vivapolis
Powered by French creativity

ANTICIPATION OF LYON'S PUBLIC TRANSPORT NETWORK IN 2030

ANTICIPATING PUBLIC TRANSPORT INFRASTRUCTURE IN LYON BASED ON FUTURE USES

The major development projects in Lyon are now permanently transforming the city of Lyon. The construction of the 60,000-seater stadium, the complete redevelopment of the Part-Dieu station district... these major projects have a significant impact not only in terms of quality of life and environmental footprint, but also in terms of transport infrastructure.
To anticipate the impact of these major urban projects on the public transport network, and thus on the accessibility and attractiveness of the territory, Keolis asked ForCity to adapt its prospective urban simulation platform on its behalf.
The tool allows Keolis to represent its respective projects in a digital city lab in the form of actions, behaviours and trends pulled together into scenarios, the results of which are used in the form of numbers, graphs, and in a 4D visual representation of the city.
It has already allowed Keolis to perform simulations on the access to Grand Stade de Lyon during Euro 2016 matches These simulations have confirmed the capacity of the current network to serve the stadium, even in exceptional circumstances.

KEY DATA
of the Metropolis of Lyon during Euro 2016

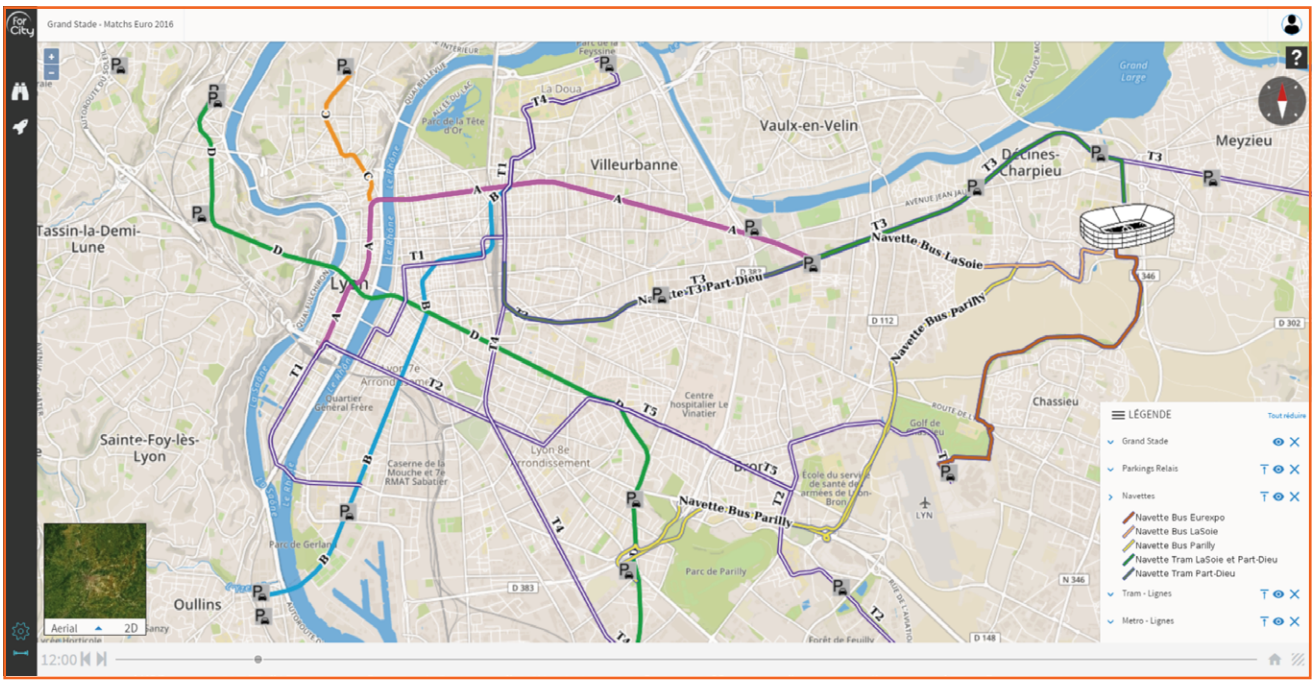
- 1.5 million inhabitants
- + 300,000 visitors expected in Lyon for the 6 matches of EURO 2016
- 59,186 seats in the stadium
- 13,000 spectators transported by tram
- 23,400 spectators transported via bus or shuttle bus
- 60 buses mobilised for the outward service and up to 120 vehicles for the return service

INNOVATIONS

This tool is the first to combine all the factors that allow tomorrow's city to be anticipated.

- **Grouping 4D visualisation and simulation functions on a single Software as a Service platform:** the two functions are combined within a single turnkey, which allows users to focus on a holistic business approach to understand and anticipate urban development;
- **Systemic approach:** the simulations combine the determinants of housing, mobility, population and energy etc. including socio-economic and behavioural aspects;
- **Transposable platform from one territory to another:** the models describing urban development are developed independently of the territory and can be transposed quickly onto another town;
- **Platform developed by a neutral player:** local players can simulate their local strategies without restrictions and collaborate without a second thought.

Liberté • Égalité • Fraternité
RÉPUBLIQUE FRANÇAISE
MINISTÈRE DE L'ENVIRONNEMENT, DE L'ÉNERGIE ET DE LA MER
MINISTÈRE DU LOGEMENT ET DE L'HABITAT DURABLE



RESULTS

/// Scenarios of improved service, waiting times and comfort

The modelling platform enabled Keolis to identify areas in the network where to strengthen the service and the direction of travellers, to significantly reduce waiting times and to bring user comfort to the same level as that of non-match days. In addition to the expertise and essential professional experience of Keolis, the ForCity platform has allowed phenomena to be imaged and revealed, including chain reaction effects that are difficult to grasp other than by systemic modelling. Thus, the ForCity platform provided Keolis with tangible evidence allowing it consolidate its expertise with SYTRAL.

/// Awards

The ForCity solution won the 2016 Le Monde Grand Prize for Innovation.

Le Monde SMART CITIES Les prix de l'innovation

Pascal Jacquesson,
Director Keolis Lyon

In a neighbourhood like Part-Dieu, which will change dramatically until 2030, with ForCity, which gives us digital data on the evolution of jobs, residents ... we can prepare the transport network of tomorrow and today, we can do in a few months what, for example, in 2011 it took 3 to 4 years to do.

BUDGET

→ A few hundred thousand euros

For City