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INGÉROP ENABLES LOCAL GOVERNMENTS TO OBTAIN ACCURATE TRAVEL TIME DATA AND OPTIMISE NETWORK OPERATIONS

Ingérop, a major player in engineering and consulting in sustainable mobility, puts its expertise into the analysis and processing of Floating Mobile Data (FMD) for local authorities. Combining its knowledge in fieldwork with cutting-edge technology, the group has developed "Ingérop Mobility", a tool that collects, analyses and transcribes traffic information in real time. The results are then used to measure travel time variation over a set section of road. The data is collected anonymously through road users' smartphones, and the analyses is conducted by Ingérop and provided to local governments so that they can take the necessary action and/or implement prevention measures.

This new expertise meets the challenges faced by cities and conurbations in terms of traffic flow, prioritisation of actions on the road network, communication with local residents and reduction of the costs associated with the implementation of conventional data collection solutions. It extends to shopping centre and airport managers who wish to improve access to their facilities and, in the near future, it will provide real-time information on pollutant emissions.

Ingérop Mobility, expertise through the use of Floating Mobile Data

Local governments need to know the traffic conditions on their network to reduce or eliminate problem areas. Traffic data acquisition, by conventional methods and/or intrusive video surveillance system, or by field surveyors, is costly both in terms of operation and maintenance. Moreover, the data collected are not always accurate and reliable.

Ingérop Mobility was designed and developed by Ingérop. This tool enables the gathering, in a completely new and anonymous way, representative and reliable travel time measures for a given route and at different times of the day. These measurements are then analysed and used to categorise this route according to travel time, average speed, lost time or saturation rate.

Once calibrated and processed, these data become qualified and reliable performance indicators depending on the area considered.

Ingérop Mobility, associated services to objectify traffic conditions

Entirely supported by Ingérop, Ingérop Mobility provides local governments with innovative tools and efficient means of action:

- **Early identification and prioritisation**

The improved data collection, through the use of cellular data for mobility studies and the identification of congested areas, will help define the challenges and prioritise actions (work programming).

- **Monitoring of mobile worksites**

The comparative analysis of traffic conditions during the construction period, combined with traffic dysfunctions and measures, allows optimal information to be provided to residents. The implementation of dedicated communication channels and traffic reorganisation ensures that the disruption to residents is as minimal as possible. Additionally, a detailed analysis of traffic conditions over a large area helps in the analysis and the development of mitigation measures to minimise the nuisances caused by the worksite.

- **Mobility Observatory**

The continuous and real-time recording of mobility conditions on a congested network will enable their evolution and identify the issues that need addressing. Furthermore, monitoring the implementation of travel policies will provide the information required to make the network more fluid.

The results of these analyses will indeed enable local governments to obtain their own saturation rate and act accordingly.

▪ **Operation and network information**

Traffic control HQs will be optimised thanks to data collection and analysis. It is also a way to provide road users with the right information in real time, and thus, optimise their travel choices.

Ease of use, speed of implementation and gathering of reliable data are the main characteristics of Ingérop Mobility which make it an effective tool for local governments and enable them to optimise traffic on their network.

Case study - Traffic monitoring during construction
Upgrade of le Jarret corridor in Marseille

- ✓ 194 sections / 18.7 km / 91,000 Google queries per survey
- ✓ Monitoring of the travel time evolution along the corridor during construction (over 2 years)
- ✓ Monitoring of the global congestion indicator
- ✓ Focus on specific intersections
- ✓ Identification of traffic problems and development of mitigation measures
- ✓ Communication with elected officials and local residents.



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About Ingérop

A leading player in France and with a strong international presence, Ingérop is an engineering and consulting group in sustainable mobility, energy transition and living environment. The group is present in all construction sectors:

Building, Energy & Industry, Water & Environment and City & Mobility. Independent, based in Rueil-Malmaison (France), it employs nearly 2,000 employees and expects to generate sales of more than €253 million in 2019, including more than 27% internationally. Operating in more than 70 countries, Ingérop continues its steady development both in France and abroad thanks to its shareholder independence, technical expertise, capacity for innovation and proximity to its clients.

Ingérop Press Office

CLC Communications - +33 (0)1 42 93 04 04
Jérôme Saczewski - j.saczewski@clccom.com
Anne-Claire Berthomieu - ac.berthomieu@clccom.com
Diane Jourdan - d.jourdan@clccom.com

Contact Communication Ingérop

Sophie Rapatel - Communications Director
sophie.rapatel@ingerop.com
Tél : +33 (0)1 49 04 55 08 - Port : +33 (0)6 20 88 16 76
www.ingerop.fr