Sustainable mobility	Connected Mobility

Carnot IFPEN Transports Energie

CONNECTED MOBILITY

OVERVIEW AND CHALLENGES

At a time when mobility is evolving to address the objectives of decarbonization, **mobility data represent crucially important resources**. Even before the advent of driverless vehicles, it is necessary to be able to understand, analyze and, indeed, predict major events (Covid-19, natural disasters, pollution, etc.) in order to adjust the movements of people and goods and encourage best practices.

For the same vehicle and the same journey, **NO_x emissions can vary by up to 400%** and **CO_2 emissions by up to 20%**: optimizing driving style is thus a major factor in reducing NO_x emissions *(source IFPEN)*.

For several years, IFPEN has been exploiting the potential offered by digital technology to reduce the environmental impact of transport. It is contributing to the improvement in air quality in towns and cities by developing connected tools, for the regions, the general public and road professionals, capable of measuring their environmental footprint (CO2, energy and pollutants) and offering advice to help them improve their behavior at the wheel.

Two families of web services are emerging. One proposes journey analysis indicators: energy, pollutant emissions, safety, etc. The second makes it possible to analyze a large number of journeys in order to create aggregated indicators related to a geographical reference or a usage segment.

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