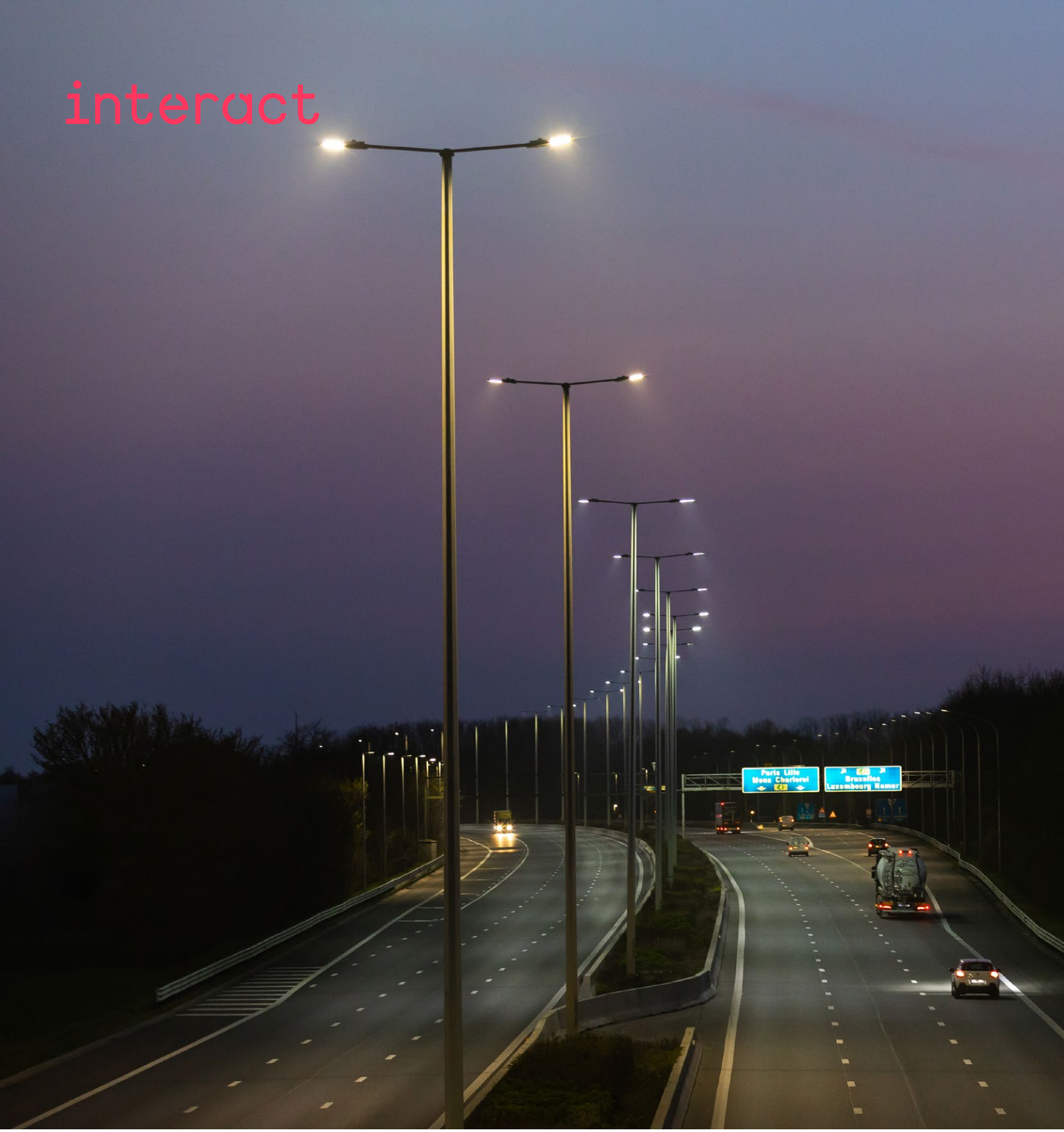
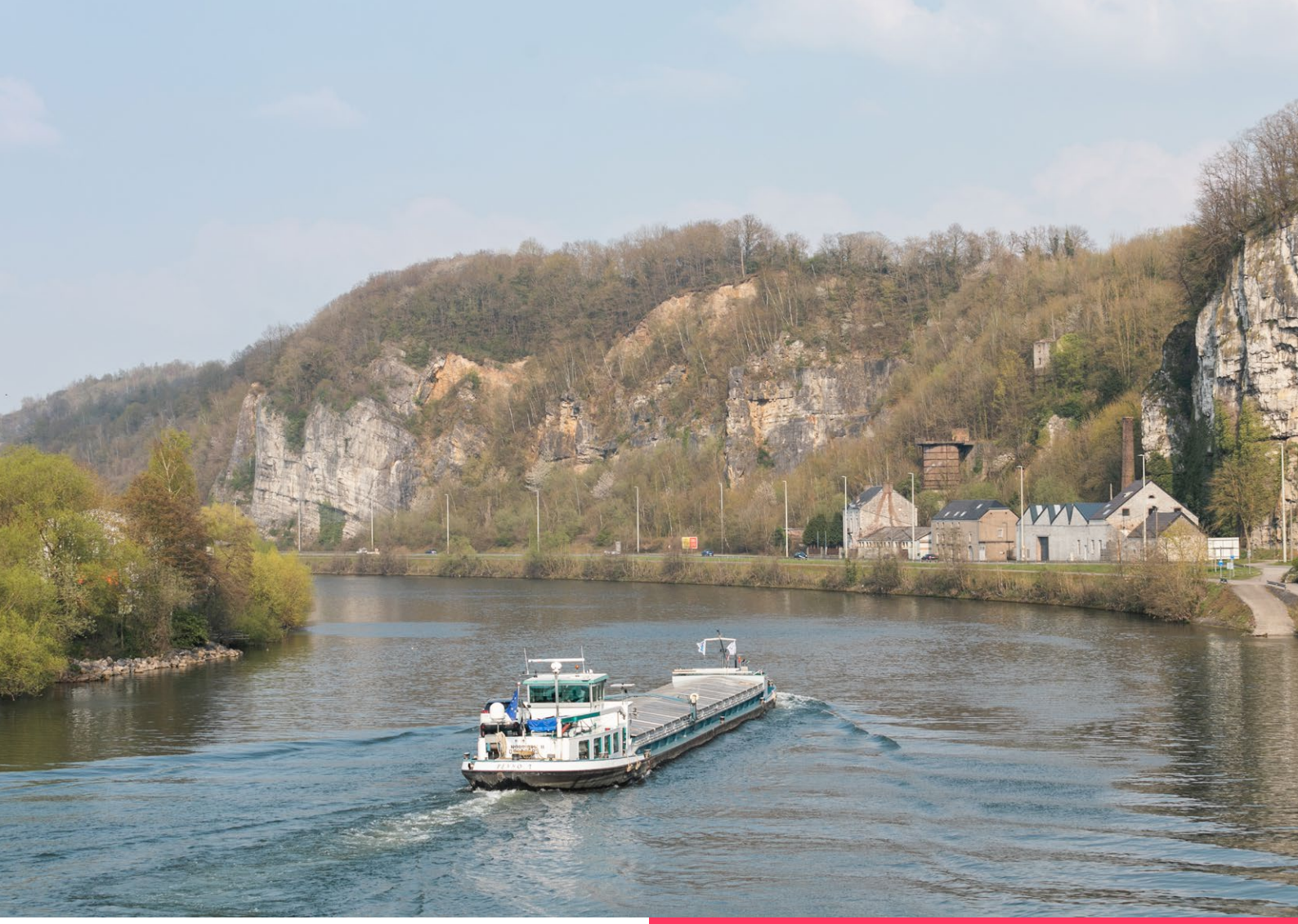
interact



Case study

Wallonia opts for sustainability and safety for its motorways

100,000 connected LED-light points over 2,700 km



Wallonia: an essential link in the European economy

The Wallonia region of Belgium is located at the crossroads of various major European arterial roads, making its road network important for the economic development of the European Union (EU). For SOFICO, the Walloon infrastructure financing company responsible for managing Wallonia's motorways and main roads, it was vitally important to ensure Wallonia possessed a safe road network with a steady flow and a sustainable lighting network to operate in line with European climate goals.

> "Our regional lighting budget is unchanged. But we now have more efficient and environmentally friendly lighting, because it is recyclable, and therefore more sustainable."
>
> Denis Cornet, Manager
> Mobility and Infrastructure SPW

A cost-effective circular model

The Lumières 4.0 plan, the result of a public-private partnership between SOFICO and the LuWa consortium, provides intelligent LED lighting across a 2,700km stretch of motorways—all controlled by an Interact connected lighting system from Signify and managed by the MUSE urban space management platform from Citelum. The consortium chose Signify to supply its Interact connected lighting system because of the guaranteed high quality and added value that Signify offers. To ensure that its lighting solution is sustainable, Signify proposed new circular LED luminaires from Philips for the project. Because all components of these luminaires can be reused at the end of their service life, they were the best choice both economically and ecologically.

Smart lighting for road safety

The light intensity on each route is controlled from the Perex traffic centre near Namur, Belgium, and adjusted based on traffic and weather conditions, as well as other special circumstances that can affect safety, such as road construction or repairs. Interact automatically and immediately sends data-rich alerts regarding system outages or interruptions in service, as well as using real-time performance data to assess when luminaires are likely to need replacing, allowing for preventive maintenance. Thanks to Signify's Interact connected lighting system, LuWa can guarantee that more than 99% of light points across the entire network are always operational, allowing for well-lit, safer roads.

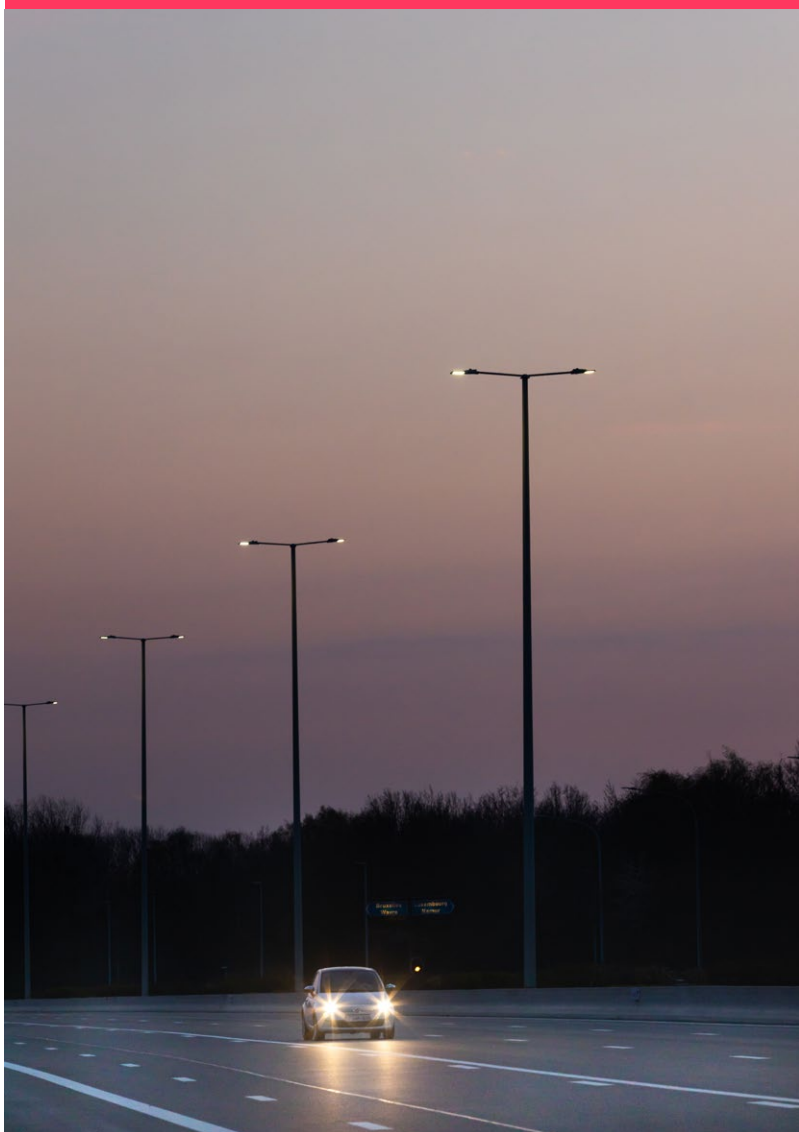
Environmentally friendly

The energy-efficient connected LED luminaires paired with the Interact lighting management system contribute to a 76% reduction in electricity consumption. For SOFICO, that means a significant reduction in operating costs. This reduction allows the region to recoup its investment. Meanwhile, the energy savings will result in a reduction of 166,000 tons of CO_2 emissions over 20 years.

The spotlight is on the social dimension

The Lumières 4.0 plan demonstrates the partnership's commitment to social initiatives. The plan created 400 new jobs and involved 100,000 hours of technical training. From the control centre in Namur, workers are able to remotely monitor, adjust, and resolve issues in luminaires as needed. This ensures a safer working environment for maintenance workers as it limits the need for hazardous roadside work.

> "Luminaries can easily be repaired. Maintenance workers spend less time working along the road and are therefore less exposed to dangerous conditions. This will be much safer for them."
>
> Alexia de Gyns, Manager Communications LuWa



Safety

Interact's ability to adapt based on real-time weather conditions and traffic incidents has led to improved safety on the road network. Unusual traffic situations are detected immediately, alerting motorists and emergency services more quickly.

Environmentally friendly

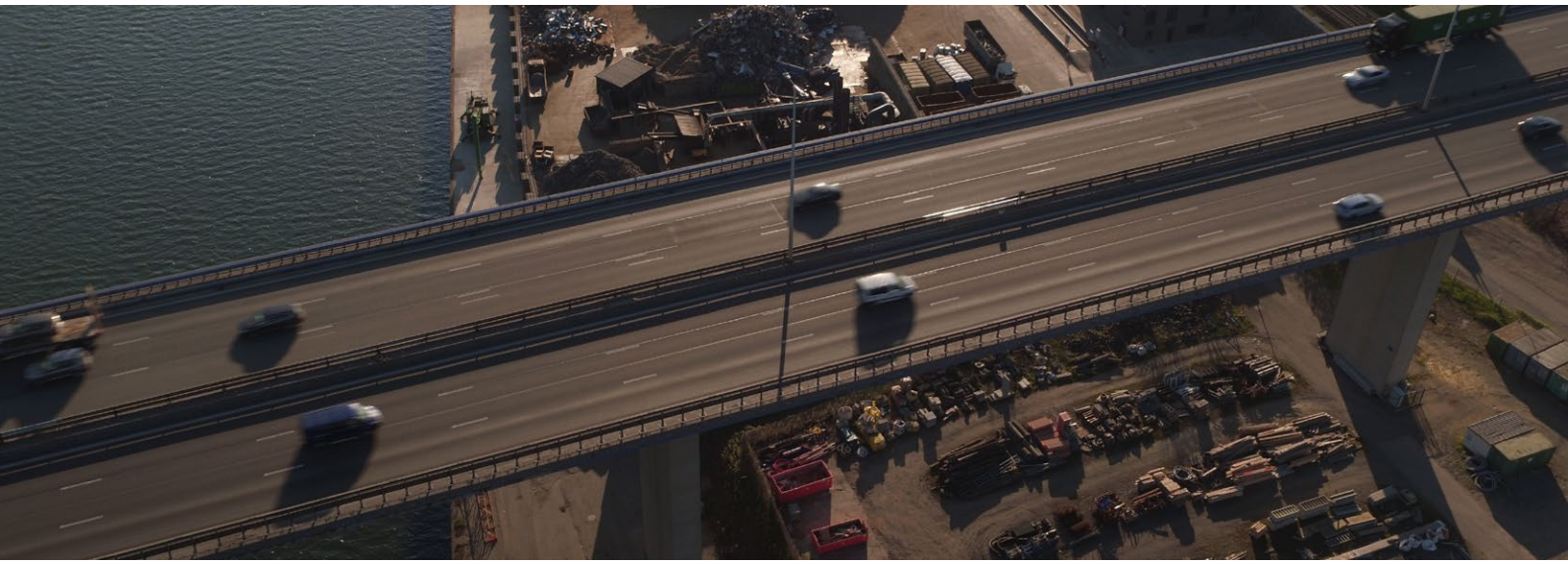
LED luminaires paired with Interact software result in energy savings of 76% per year, equating to nearly 1.3 billion kilowatt-hours (kWh) saved, while generating CO_2 emission reductions of 166,000 tons over 20 years.

Easy maintenance and management

Via the Interact dashboard you can immediately control and monitor lighting remotely, identify lighting failures through real-time fault notifications, and access information about each individual light point, allowing for preventive maintenance. The circular design of the luminaires makes them easier to repair.

Circular is cost-effective

The circular design of the luminaires offers economic advantages because the components are reused at the end of their service life.



For more information about Interact
www.interact-lighting.com

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