

## “PLAN LUMIÈRES 4.0”: WALLOON MOTORWAYS HEAD INTO THE FUTURE

Verlaine, March 13<sup>th</sup>, 2019 - Carlo DI ANTONIO, Walloon Minister for Mobility, and the SOFICO (Société Wallonne de Financement Complémentaire - Walloon Complementary Infrastructure Financing Company) have just allocated a contract for the design, modernization, financing, management and maintenance of public lighting installations on main roads and motorways in the Walloon region to the LuWa consortium, composed of Citelum (authorized representative), Luminus, CFE and DIF.

The «Plan Lumières 4.0» (Lighting Plan 4.0), with a 20-year duration, will be executed under a PPP (public/private partnership). The contract includes the gradual commissioning of the new lighting starting on the second half of 2019 and the renewal of network infrastructure using LED lighting, i.e. around 100,000 lighting points over the first four years.

*“Thanks to the new light sources, i.e. the LED, and a dynamic lighting made possible by new technologies, this plan will contribute to ensure a better service to users and to significantly reduce the energy bill with a consumption cut by around 76%”* underlines Carlo DI ANTONIO.

### **Europe’s first smart and connected motorways**

To meet all possible usage scenarios, the lighting points will be equipped with various remote management systems and several sensor types. The fully connected, smart network will enable light intensity to be modulated in accordance with traffic and various usage scenarios in addition to remote management via the new PEREX traffic management and monitoring center, located in Daussoix (Namur province), when needed: weather conditions, road works, accidents, etc.

An IoT (Internet of Things) application based on the urban space management platform MUSE<sup>®</sup>, will enable SOFICO to implement new services (video protection, traffic light systems, access points, variable message signs, etc.), to control the lighting’s operation and to measure its energy consumption. In anticipation of the development of self-driving vehicles, the LuWa consortium will also deploy roadside units on all motorways and interchanges incorporating both Bluetooth traffic sensors and the latest V2X (vehicle-to-everything) technology designed for communication with smart vehicles. Walloon motorways will thus become Europe’s first smart motorways, ready to welcome self-driving vehicles in the future.

### **Optimal, economical and eco-friendly lighting**

The renovation plan includes the replacement of obsolete sodium lamps and the modernization of lighting infrastructure: transformers, power supply stations, power lines and street lamps, along 2,700 kilometers of motorways and national roads (including 400 kilometers of interchanges), and at motorway and vehicle-share parking areas. The choice was made to use long-lasting and sustainable materials from the standpoint of life-cycle and recycling.

Replacement by LED lamps, with lower energy consumption and a longer lifespan, together with a light intensity variation system, will ultimately allow for a 76% energy savings, preventing 166,000 tons of CO<sub>2</sub> emissions and reducing light pollution. This new lighting which incorporates preservation of natural areas and biodiversity, will accordingly form part of the Wallonie#Demain environmental transition plan, supported by Carlo DI ANTONIO, Environment and Ecological Transition Minister.

### **Users and safety at the heart of the project**

The works will be carried out mostly at night to minimize inconvenience to drivers and ensure the safety of works teams. The ultimate goal is to attain more than 99% equipment availability and to deliver flawless quality of service and operation.

The safety of the region will be optimized through the rehabilitation and bringing into compliance of the motorway lighting network. The high-performance LED lamps selected will provide more accurate color rendering for markedly improved visibility, comfort and safety for users.

Lighting levels will be stratified according to the different types of roads in question and will be modulated in accordance with given situations: interchanges that light up when a vehicle arrives, lighting to alert a driver moving in the wrong direction, enhanced lighting intensity during bad weather, etc.

### **Focus on human, social and economic factors**

This ambitious project will position Wallonia as a model for social inclusion and employment: 400 new jobs created, 100,000 hours of training run with Missions Régionales pour l'Emploi (MIRE), payment of part of the Redevances de Disponibilité Brutes fund to personnel inclusion and recruitment companies through the scheme Entreprises de Travail Adapté (protected workshops).

The project's budget is €600M over 20 years, to be financed by SOFICO. It will allow for the replacement of the entire lighting system, making it much more efficient, with a budget envelope identical to the one currently allocated to this item of expenditure.

For the project, SOFICO will be assisted by the government department SPW (Service public de Wallonie) for project-related technical operations.

This Plan Lumières 4.0 is one step of a major ITS (Intelligent Transport System) plan currently deployed by the SOFICO to develop the smart motorways of tomorrow.

### About SOFICO

The Société Wallonne de Financement Complémentaire des Infrastructures (SOFICO) was created in 1994 by the Walloon government.

It provides missing links in the European road and riverine transport network crossing Wallonia.

It is also prime contractor for the structural road network that includes Walloon motorways and national roads spanning approx. 2,300km. It finances, maintains, refurbishes and manages this network, particularly through revenues from the per-kilometer charging system. It is assisted in this role by SPW Mobilité et Infrastructures. To address the need to ensure the smooth flow of increasingly congested traffic at the entrance to major cities, SOFICO prioritizes intermodality, the implementation of vehicle-share parking along major routes and initiatives linked to the smart motorways project. It also manages motorway rest area franchises.

SOFICO is also active in the telecoms field and manages the Walloon fiber-optic network.

Additionally, it awards franchises for the development of renewables projects along the roadway infrastructure that it manages.

For 25 years, SOFICO has been working towards a more mobile, connected and green Wallonia.

More information on [www.sofico.org](http://www.sofico.org)

### About SERVICE PUBLIC DE WALLONIE (SPW)

The SPW Infrastructures is a main Walloon player in the fields of design, financing, management and operation of quality infrastructures for the economic and social deployment of Wallonia. It provides quality, safe, accessible to all and environment-friendly infrastructures to citizens and companies.

It notably manages:

- Road and motorway networks including their equipment, infrastructure and annexes with a security and mobility aim;
- Road and motorway traffic including road information;
- Electrical, mechanical and electromechanics works and associated;
- The RAVel network including its deployment, investments and its promotion;
- The development, maintenance and operation of the optical fiber and telecommunication network.

### About CITELUM

EDF Group subsidiary, Citelum develops its smart lighting expertise in the fields of traffic light systems, artistic lightings and connected urban services: videoprotection, traffic management, smart parking, electric vehicles charging points, Li-Fi, air quality sensors and the digital services management platform MUSE®.

Over 1,000 cities and industries in the world have already trusted Citelum: Mexico City, São Luis, Santiago de Chile, Copenhagen, Barcelona, Naples, Dijon, Sète...

With 2,500 employees, the Group generated a turnover of 318 million Euros (75% out of France) in 2018.

More information on [www.citelum.com](http://www.citelum.com) / Twitter: @Citelum

### About LUMINUS

Luminus is an electricity generator and provider of energy and energy services. The company is the foremost provider of land-based wind and hydro-electric energy in Belgium. Luminus also plays a key role in security of supply for Belgium through several natural gas power plants that compensate for the fluctuating nature of solar and wind energy. With an installed capacity of 2,054 MW as of September 2018, it accounts for around 10% of total installed capacity within the country. It sells electricity, gas and energy services to two million private and business clients, representing a market share of around 20%. The company invests in order to address energy concerns of the future by offering its clients innovative energy efficiency solutions and is continuing its developments within the renewables sector. It has around 2,000 employees. Four the seventh year in a row, our company is classed among the 64 Belgian companies ranked as a Top Employer. It draws upon its substantial local presence and the expertise of the EDF group, one of the major players in the global energy sector.

More information on [www.edfluminus.be](http://www.edfluminus.be).

### About CFE

CFE, founded in 1880 is a Belgian industrial group active in three different divisions; the Dredging, Environment, Offshore and Infra activities are carried out by DEME, the Real Estate Development and the third division Contracting encompasses the group's construction, multitechnics and rail activities in Belgium, Luxembourg and Poland.

MOBIX, an integral part of the CFE group, represents a turnover of more than 70 million euros and employs almost 600 people for the whole of Belgium. MOBIX is positioned as a multidisciplinary entrepreneur and has two divisions: on the one hand the Rail division, which brings its expertise in the field of catenaries, signaling, laying of tracks and securing, on the other hand the division Utilities specializes in the placement of public lighting, the installation of gas distribution networks and high, medium and low voltage networks.

More information on [www.cfe.be](http://www.cfe.be)

### About DIF

DIF is an independent infrastructure fund manager, with €5.6 billion of assets under management across seven closed-end infrastructure funds and several co-investment vehicles. DIF invests in greenfield and brownfield infrastructure assets located primarily in Europe, North America and Australasia through two complementary strategies:

- DIF Infrastructure V targets equity investments in public-private partnerships (PPP/PFI/P3), concessions, regulated assets and renewable energy projects with long-term contracted or regulated income streams that generate stable and predictable cash flows.
- DIF Core Infrastructure Fund I targets equity investments in small to mid-sized infrastructure assets in the energy, transportation and telecom sectors with mid-term contracted income streams that generate stable and predictable cash flows.

DIF has a team of over 110 professionals, based in eight offices located in Schiphol (the Netherlands), Frankfurt, London, Luxembourg, Madrid, Paris, Sydney and Toronto.

More information on [www.dif.eu](http://www.dif.eu)

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