



interact

# A safe, sustainable journey for Gran Canaria's highways

**The cabildo (council) of Gran Canaria has upgraded the lighting system of the island's most important highway, known as GC-1, to achieve significant energy savings and improve user safety.**

**"We have developed a clear and sustainable project for our lighting system. It's a major revolution in energy efficiency and cost savings."**

Antonio Morales, President of the Cabildo of Gran Canaria

## Customer challenge

The original lighting system for the GC-1 highway, which carries more than 135,000 vehicles per day, involved complex maintenance tasks and high costs. Lamp substitutions, maintenance, or replacements would force the closure of one lane of the highway, so these were done only every four years to avoid major disruption. In addition, the lighting had to comply with requirements and recommendations from the Instituto Astrofísico de Canarias around environmental issues such as light pollution.

## The solution

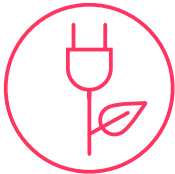
The installation of Philips DigiStreet Large LED lights, with an output of 32,000 lumens and standardized Zhaga connectors, and our lighting asset management system gives highway operators ultimate control. An innovative Interact lighting management system allows for simple maintenance and point-by-point management to comply with the island's environmental regulations.

## Precise, efficient, and future-ready lighting control.

Interact enables remote management of all lighting assets. The Cabildo de Gran Canarias can monitor lighting in real time, collect and analyze data, and assign maintenance tasks to technicians.

Philips DigiStreet LED luminaires avoid glare, improve visual comfort, offer greater uniformity of light distribution, and render colors accurately.

Zhaga connectors make the luminaires ready for the future, enabling sensing capabilities for monitoring environmental conditions such as motion, tilt, vibration, and noise.



### Cost savings and energy efficiency

The combination of Philips DigiStreet luminaires and Interact provides energy savings of 80% compared to conventional alternatives. These savings allow the installation to be amortized within the useful lifetime of the luminaires.



### Safety, quality, and control

GC-1 highway drivers will feel safer thanks to the elimination of light glare and the much improved illumination. The simplicity and control of the Interact IoT lighting system allows highway authorities to avoid lane and road closures by remotely identify failures and breakdowns.



### Ready for the IoT

Integrated Zhaga connectors allow sensors and other connected devices to be installed in the future, providing data on motion, tilt, vibration, noise, and other conditions.



### Environmentally friendly

Philips DigiStreet LEDs are sustainable and environmentally friendly. The color temperature of 2700K, as recommended by the Astrophysical Institute of the Canary Islands, provides the best balance between efficiency, safety, and environmental impact.

## Project details

- 2700° K Philips DigiStreet lights to comply with dark sky regulations
- Philips DigiStreet luminaires and Interact provides energy savings of 80% compared to conventional alternatives
  - Prepared for additional sensors thanks to Zhaga-ZD4i connector and D4i driver
  - Safety improvement due to a luminance level of 2 cd/m<sup>2</sup> with 0.7 uniformity.

