



# SMART LIGHTING

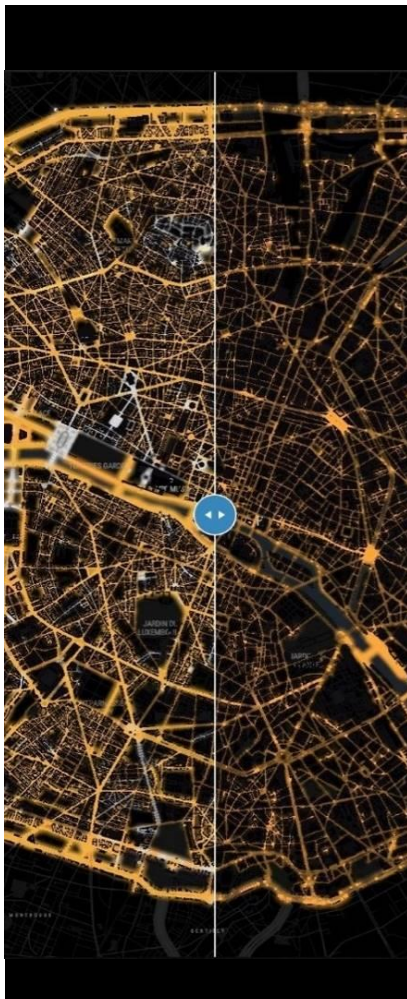
A RANGE OF INNOVATIVE OFFERS FOR YOUR PUBLIC LIGHTING



## TOWARDS INNOVATIVE AND MODERN LIGHTING

In 2021, cities have a total of nearly 4 billion light points. More than 80% are dilapidated and sometimes prohibited by decrees\*.

\* Source: AFE



### *CITEVISION: A study offer to renovate your lighting, for an efficient and carbon-free fleet.*

Questions about the condition of your public street lighting? EDF offers you to carry out a diagnosis and a modernization study. One of the purposes will be to reduce your energy bill.

As a major actor in decarbonization and digitization, EDF supports you in the modernization of your public street lighting thanks to its tools and know-how.

### A city-wide study

EDF has powerful tools for carrying out an **audit of public street lighting** based on the heritage data of local authorities.

From this audit, EDF provides a **study to modernize** public street lighting throughout the city. Thanks to algorithms based on track geometries, our tools identify for each light point the optimal configuration maximizing **energy savings to digitize regions and reduce CO2 emissions.**

### Compliance with current standards

Each country meets **standard lighting obligations.** EDF integrates them and provides a presentation of the hypotheses applied to the tools carrying out the **lighting** master plan development and the photometric studies. Our teams provide local authorities with **regulatory public street lighting.**

### Local specificities taken into account

Each city having its **own territorial characteristics** and its history, we configure in our tools **rules translating the strategic orientations** and the **lighting atmospheres** in order to provide a **personalized study:** energy performance, attractiveness, security of a district.

### Report and KPI\*

Each study is delivered with a **report** that the client can consult to help him in his **strategic choices.** This report provides the key indicators for each scenario, allowing them to be compared and to assess their **energy and financial impacts.**

\*Key Performance Indicator

**1 week**

*The time taken by the tools to study a city of 10,000 light points..*

The prerequisites for the study are :  
- Up-to-date **Lighting Standards**  
- **Up-to-date and complete heritage database**



## AN INNOVATIVE CONCEPTION OF STREET LIGHTING MASTER PLAN

Our city-wide service gives you an **innovative vision** of your modeled public street lighting. It allows a relevant and optimal analysis of the strategies you want to put in place in your lighting policy.

The study is **differentiating** thanks to the most comprehensive **modeling and configuration of your calculation criteria for your entire fleet**. The power of the tool makes it possible to quickly renew all the recommendations for each modification of the calculation assumptions.

Our tool provides **flexibility and adaptability** to answer all the needs related to the design of a lighting master plan.

### Data processing – Digital twin

The **quality of the input data** is an essential prerequisite for the successful completion of the study. If necessary, our GIS\* experts can assist you in their preparation.

This data is inserted into our tools in order to create the business rules that personalize our studies. Thanks to our knowledge and tools equipped with a **GIS data processing engine**, we use all data from geographic layers useful for calculations (heritage, territorial data, traffic, biodiversity, etc.) to **model cities** (park, roundabout, school, hospital, etc.), the uses of the premises and all **customer expectations** in terms of **public lighting**.

The culmination of our service is a **digital twin** that visually **reproduces** the deployment of **strategies**, the **technical solutions** selected and the **energy savings** generated.

\*Geographic Information System

More than **180 000**  
light points analyzed

Up to **76%**  
of energy saving

Cities like **Paris** or  
**Sacramento** studied



Heritage database



Territorial data, Biodiversity



Traffic, Points of interest



Recommendations for each street

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