

# Streetlight maintenance planning



## « Better lighting with less energy »

- To answer to a public tender for street lighting, you must plan maintenance of fixtures over 25 years
- You must take many constraints into account: resources, costs, electric consumptions, failure rates

## Large-scale & fast combinatorial optimization

- Thousands of streets
- Tens of thousands of fixtures
- **Nonlinear model involving 1,000,000 binary decisions**
- User needs to interact to check what-if scenarios: **fast optimization required**

