

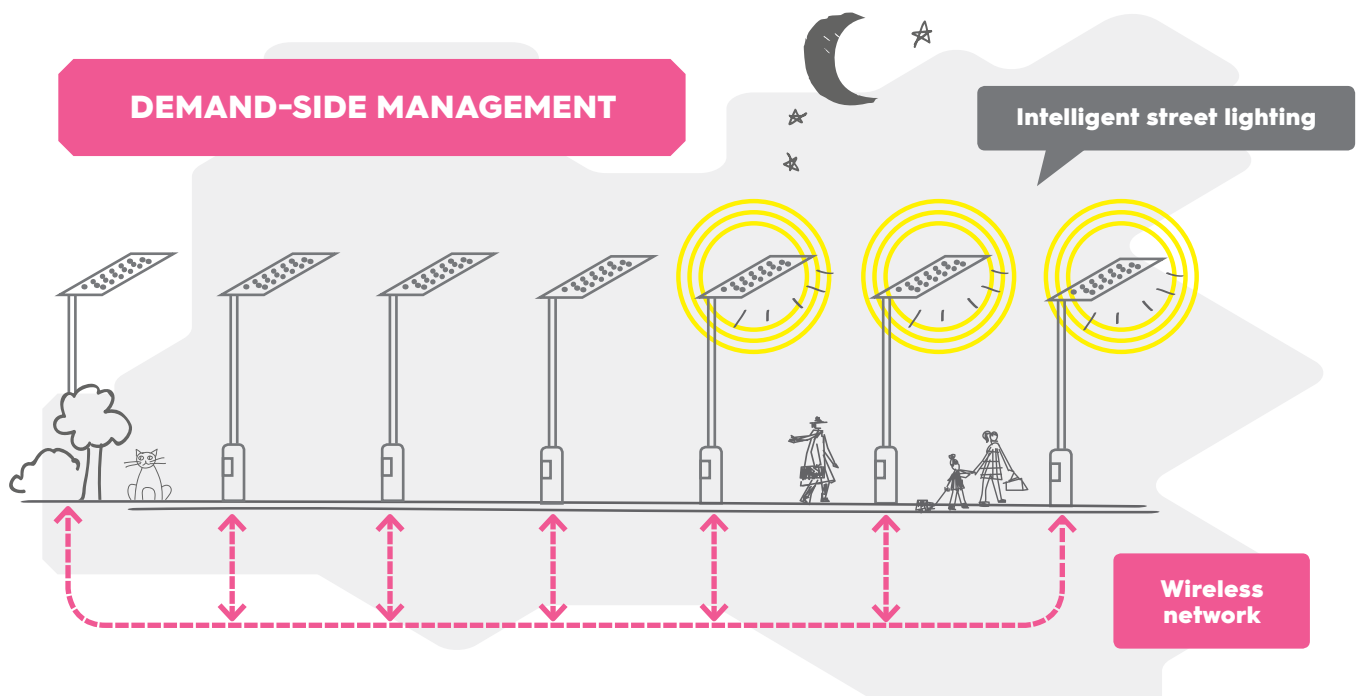
## Efficient and intelligent street lighting

Rotterdam

Energy management and ICT

DEMAND-SIDE MANAGEMENT

Intelligent street lighting



This objective of this solution is the reduction of energy use for street lighting as well as the usage of data that can be gathered from light poles. For this solution, street lighting will be used in relation to the real-time needs of pedestrians and vehicles that use public roads.

### Main partners involved:



# FACTSHEET R11

## Efficient and intelligent street lighting



### How does it work?

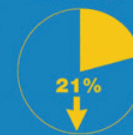
Street lighting in the Heart of South area in Rotterdam will be fitted with LED (light-emitting diode) lights and modern sensor technology to lower energy demand by adjusting lighting intensities in relation to the real time needs of passers-by.

Furthermore commercial parties will be allowed to put sensors on the lamp posts. At present, there don't appear to be restrictions for data types.

The intelligent street lighting will use KPN's long range (LoRa) wireless network, or will be partly operated on another wireless network.

### Smart and sustainable lighting benefits.

#### CRIME REDUCTION



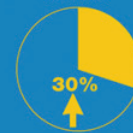
In areas with improved lighting.

#### MAINTENANCE COSTS



Real-time data gives more control.

#### ENERGY SAVINGS



Through dimming and trimming.



### Estimated impacts

This solution should lead to a city-wide reduction in the use of energy of around 30%.

### Replication potential

This solution is highly replicable. Several cities are already working on the so-called Humble Lightpost, so there is already a lot of knowledge exchange among cities.

### Contact:

Email@organisation.com



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