PHILIPS

CityTouch

Public lighting

View lighting data, **manage business processes**

With an innovative, data-rich CityTouch system, Siegburg, Germany, sets the standard for efficient, accurate, and flexible lighting asset management

CityTouch

Town of Siegburg, Germany

Lighting asset management

Type catalogue: luminaire type

Type properties

Type designation:	Philips Mini Luma R4
Nominal power consumption:	36 W
Actual power consumption:	36 W
Lens:	Safety glass
Luminaire manufacturer:	Philips
Luminous efficacy:	109 lm/W
Luminous flux:	3950 lm
Lamp type:	LED
Lumen maintenance (L80F10):	65000 h
Color temperature:	4000 K
Driver:	Xitanium 75 W
Number of LEDs:	30
Dimming:	0.5
Input current (mA):	353
IP rating:	IP66
LED modules:	LEDgine REVOLED

Streamline city operations with innovative lighting asset management

Siegburg is a small but vibrant 950-year-old county town in the south of North Rhine-Westphalia, Germany, with almost 40,000 inhabitants. Today, it is an attractive regional shopping destination with access to the highway and Intercity-Express high-speed train network.

As Siegburg has grown, street lighting has become an increasingly important feature of the town's public space. Prior to 2014, Siegburg had a mixed public lighting infrastructure with many different pole, bracket, lamp, and luminaire types. Many of these light points were obsolete and did not meet high-efficiency energy requirements, and the lighting system had limited opportunities for transparent and flexible information gathering and sharing. Clearly, the time had come for change.

"We have to visualize different business processes, including new installations, fault clearance, repairs, cleaning, and maintenance," explains Jörg Hartung, Executive Director of Street Lighting Rhein-Sieg Netz GmbH, the contractor managing Siegburg's public lighting. "Our existing system did not allow for comprehensive evaluations or storage of street lighting data. All of the city's data requests had to be generated from scratch each time. Aspects that we had to improve urgently were data transparency, fault management, and the individual switching and control of lighting."

> **Working with CityTouch has made life much more flexible** because management processes are simplified and shown transparently."

Jörg Hartung
Executive Director of Street Lighting,
Lighting Rhein-Sieg Netz GmbH

Customer
City of Siegburg, Mayor Franz Huhn, and local utility

Contractor
Lighting Rhein-Sieg Netz GmbH

Technical consultant
Jörg Hartung

Project dates
2014 - 2015

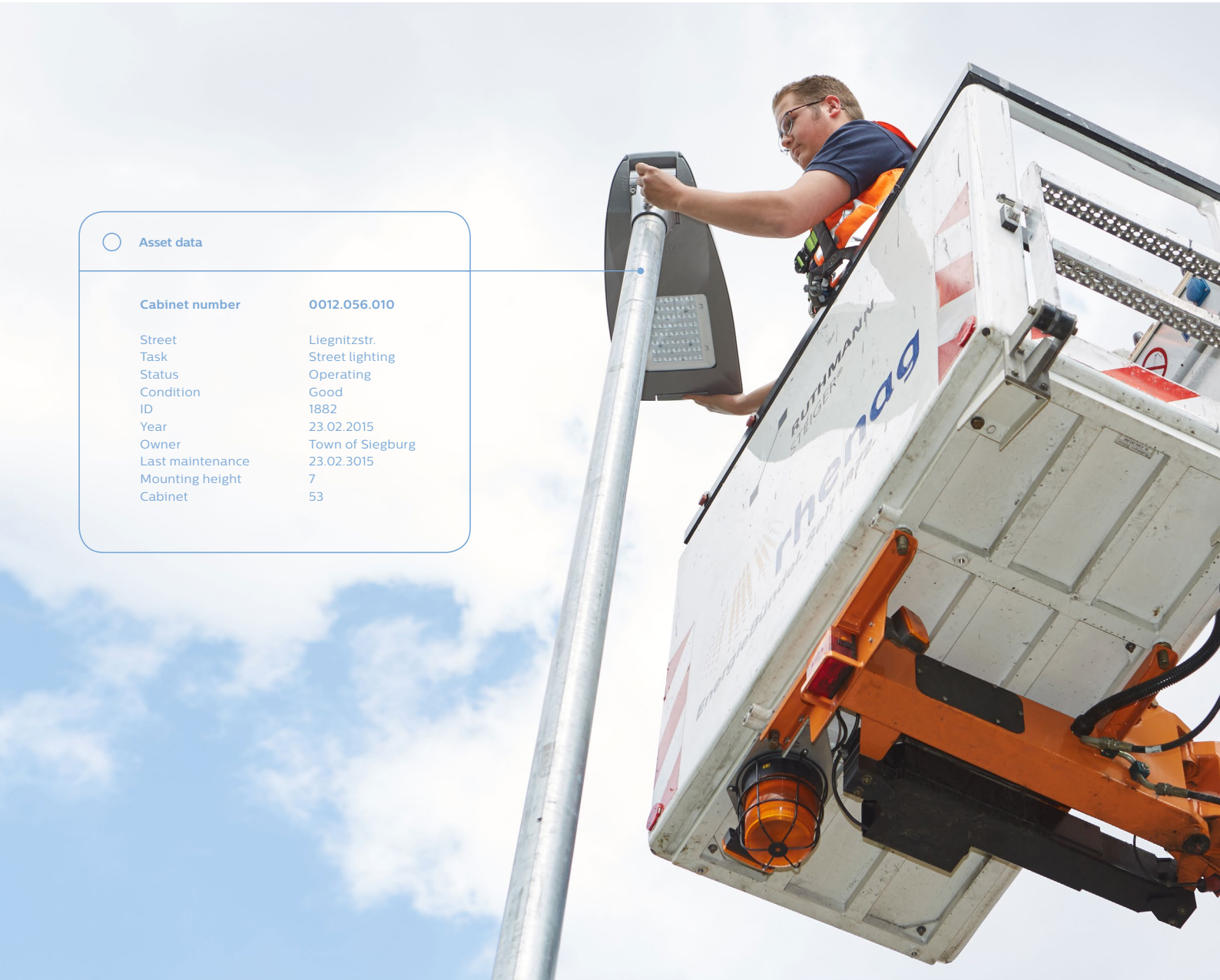
An investment that pays for itself

In 2014, Siegburg began updating its public lighting system by replacing 2,185 inefficient high-pressure mercury vapor lamps with energy-efficient LED, reducing energy costs and CO_2 emissions by up to 50 %.

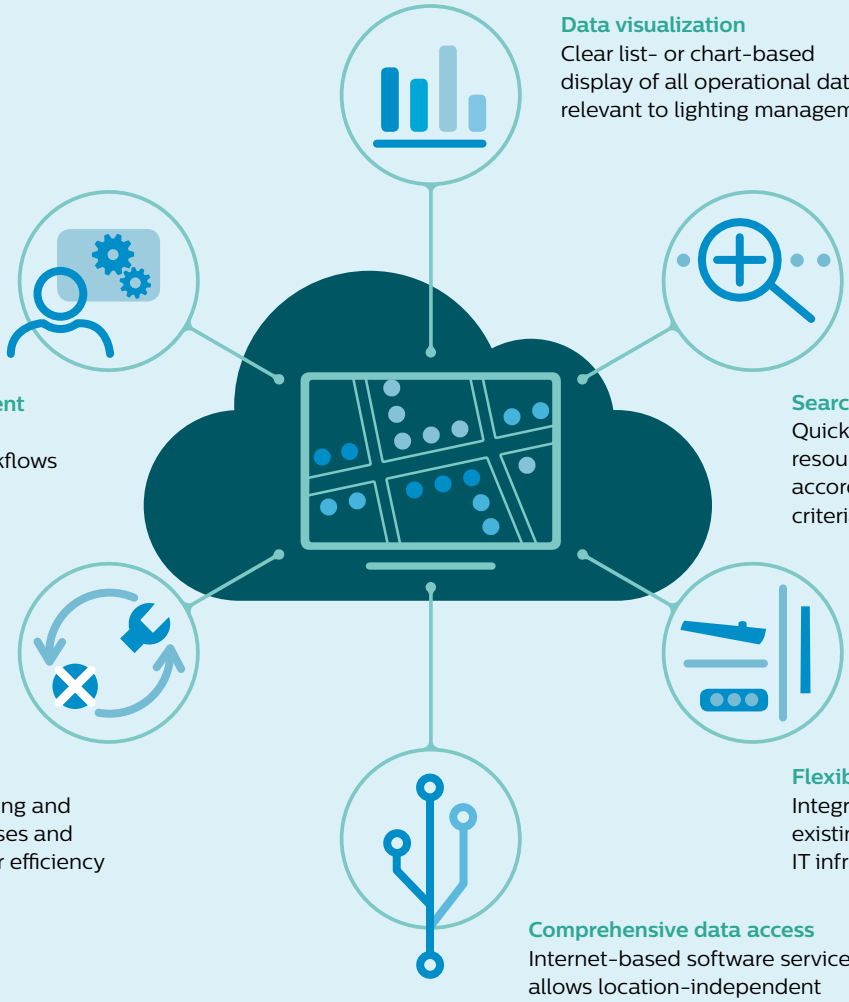
But Siegburg wanted a solution that could do more than reduce energy consumption and emissions. The town wanted a lighting system with enhancements that would improve the quality of life in the community and bring out its best features. “Especially for a shopping destination like ours, well-being and the safety of the people is of considerable importance,” says Siegburg Mayor Franz Huhn. “Therefore, we need a reliable and sensible lighting situation without dark areas.”

An innovative connected street lighting management system from Philips CityTouch has allowed Siegburg to realize all of its ambitions. Siegburg’s system of more than 4,200 LED light points is now managed by the Philips CityTouch workflow and connect applications.

The CityTouch connect application allows the city to control street lights remotely, set up dimming schedules, measure energy consumption, and receive outage notifications. The CityTouch workflow application adds rich data visualization and reporting capabilities, provides a highly configurable lighting asset database, and offers lighting-related workflow management tools.



Features of the
Philips CityTouch workflow application



Data visualization
Clear list- or chart-based display of all operational data relevant to lighting management

Workflow management
Simple planning and generation of all workflows

Search function
Quickly and easily find all resources and processes according to individual criteria

Fault management
Quick and easy tracking and monitoring of processes and operations for greater efficiency

Flexible configuration
Integration into any existing urban lighting IT infrastructure

Comprehensive data access
Internet-based software service allows location-independent data access by all participants.

The lighting assets include a number of CityTouch Ready luminaires. These intelligent, remote-controlled lighting fixtures use automatic localization (GPS), commissioning, and data transmission to integrate quickly and cost-effectively into existing lighting infrastructures.

With remote monitoring, light point management, and rich system data, CityTouch has improved the efficiency of Siegburg's lighting management operations while lowering energy and operational costs. As a result of the savings realized, Siegburg can afford to maintain the upgraded lighting system for years to come.

> **We need intelligent, manageable systems** that prepare us for the future.”

Franz Huhn
Mayor, City of Siegburg

Easy access to all lighting-specific data

With CityTouch, Siegburg’s municipal administration client and utility operations contractor can see all relevant information at a glance and can access it any time, any place. The data collected by the system — from energy consumption to investments to maintenance records — provides a reliable basis for operational decisions. Additionally, the CityTouch system offers unlimited options for pre-programming on/off times, light intensity, and dimming levels.

System managers can use Philips CityTouch to create type catalogs, which make it simple to select resources and assign them to individual light points. Type catalogs for poles, luminaires, lamps, and brackets include all frequently- and recently-used types, technical information, and additional user-configurable information. Type catalogs allow system users to generate and view detailed information on lighting-specific business processes as quickly and easily as possible. They also make mass detection and maintenance tasks, such as re-lamping, very quick and easy.

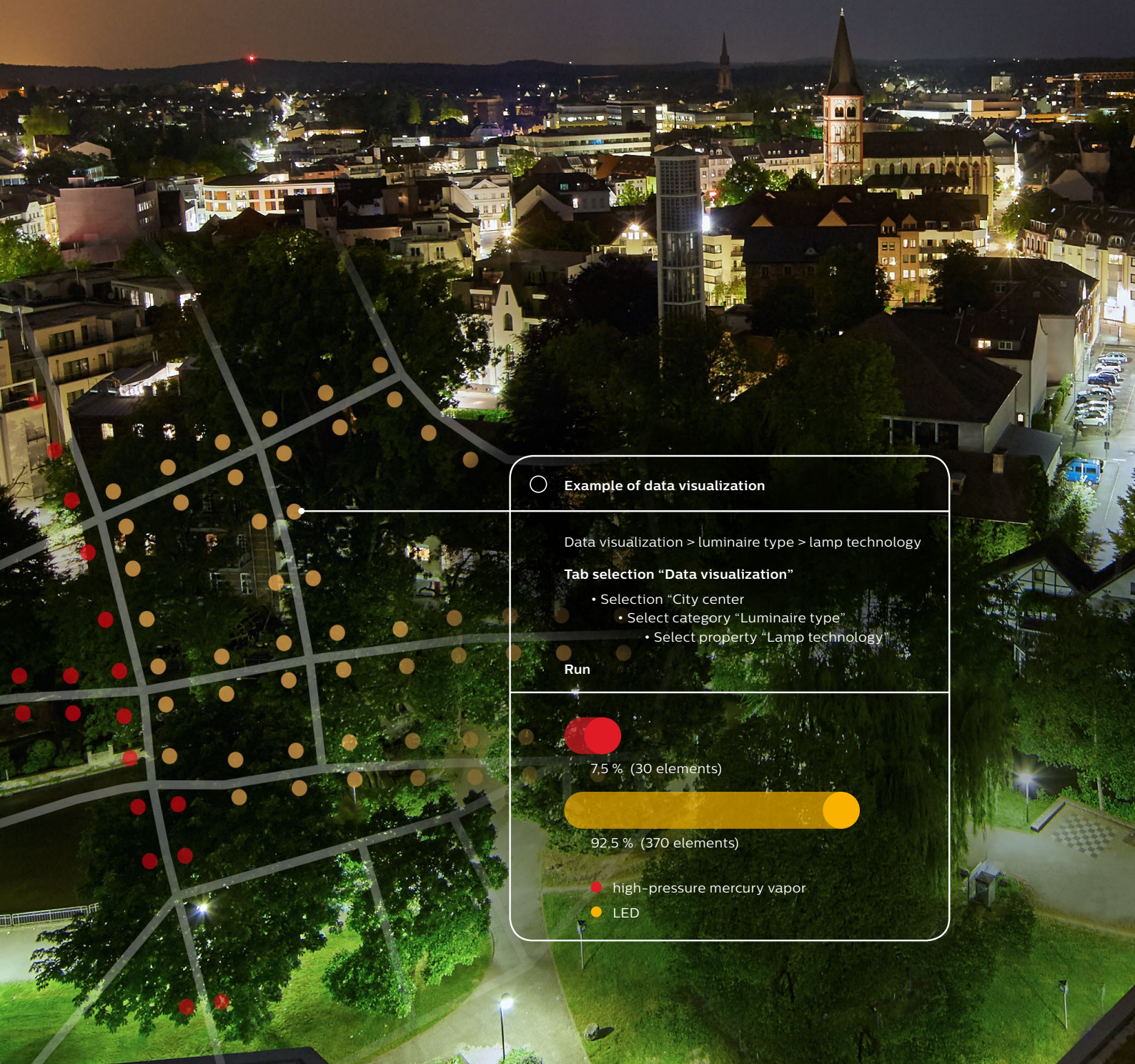
With CityTouch, targeted queries can be generated individually. The city of Siegburg can use the search function to save, sort, and select assets, generate searches, and access, analyze, and evaluate all data. Through data visualization, CityTouch data queries appear graphically. This feature lets mayors, managers, and other decision makers create and visualize useful queries, including monthly reports.

Because all operation-relevant processes are noticeably simplified and transparent, CityTouch has made the working relationship between the city and the utility provider much more flexible.

The power of software as a service

Philips CityTouch lighting management software is delivered over the Internet as a service, meaning the system is location-independent and simultaneously available at any time to multiple users. Centralized and secure storage of data as well as continuous operation are ensured, and IT expenses are minimized.

One great advantage of the software as a service model is that regular updates and enhancements are automatic, and all registered users can access the same data. Therefore, they are always up to date on the latest developments — a clear step towards greater efficiency and transparency.



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philips.com/citytouch
info@citytouch.com