



PHILIPS

Smart Cities

Smart pole



A connected light source that improves communication across the city

Philips and Ericsson cooperate on telco-integrated street lighting infrastructure. With co-created **Philips lightpole site** we provide mobile broadband connectivity through smart street lighting. The pilots, Los Angeles and San Jose have taken a major step in creating **a connected smart city**.

Smart poles not only serve as an important connected light source which can be remotely managed, they house technology to improve mobile network performance across the city.

The poles can be installed with minimal interruption to normal city activity, such as car and pedestrian traffic, and because they are a 2 in 1 solution – a connected device that also provides necessary light without taking up extra space – smart poles have been called the digital real estate for the Internet of Things.



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The value of the Philips solution as it relates to San Jose’s smart city transformation is its ability to **save energy, improve safety, and respond to city needs more efficiently.**”

Sam Liccardo
Councilman
San José, California



In addition to providing a connected light source, partnering with companies such as Ericsson and utility provider PG&E has given cities the cost saving benefits of LED while improving communication capabilities for citizens and businesses across the city.

Additionally, smart poles will enable the densification of mobile wireless operator's networks, offering providers new possibilities to find the right site location. Because street light poles are ubiquitous in urban landscapes, mobile broadband infrastructure can be scaled beyond traditional sites, a key enabler for evolving heterogeneous networks. As a result, operators can improve data coverage and capacity for residents, visitors, and businesses, enabling an enhanced Mobile Broadband user experience.

Not only improving city life for citizens and businesses, smart pole technology helps cities save up to 70% on energy costs by switching to LED and remotely managing the light source. Additionally, as was the case with San Jose, partnering with PG&E allowed for the implementation of smart meter technology, which measures the amount of electricity used by the mobile network and transmits the data directly back to PG&E. The new meters de-clutter dense urban areas by eliminating the need for standalone pedestal meters that are typically installed next to any equipment that uses electricity.

Smart poles not only makes the area more attractive for citizens, local commerce and tourists, the poles help save on energy costs, declutter urban spaces, and improves mobile network coverage for businesses and citizens alike.



Benefits at a glance



High quality energy efficient LED lighting for safer streets and a more sustainable city



Simple design for an uncluttered public space



Improved mobile network performance



2 in 1 solution taking up no extra space



Reduced maintenance costs because of remote management using Philips CityTouch software

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