

Cities & Regions leading the way on Energy Efficiency

- Best practices and policy approaches -

Harry Verhaar, Head of Global Public & Government Affairs, Signify

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Philips Lighting is now Signify

Company name
Royal Philips

Company name
Philips Lighting

Company name
Signify

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Global product brand

PHILIPS

Including sub-brands

PHILIPS LIGHTOLIER
PHILIPS Bay-Brite
PHILIPS LEDALITE
PHILIPS CHLORIDE
PHILIPS burton
PHILIPS bodine
PHILIPS CFI
PHILIPS OPTIMUM
PHILIPS ADVANCE
PHILIPS Stonco
PHILIPS KEENE
PHILIPS GARDCO
PHILIPS HADCO
PHILIPS LUMEC
PHILIPS teletrol
PHILIPS Strand Lighting
PHILIPS Selecon
PHILIPS VARI*LITE
PHILIPS dynalite
PHILIPS IndaL
PHILIPS WRTL
PHILIPS hue

Global IoT brand

interact

Specialty brands

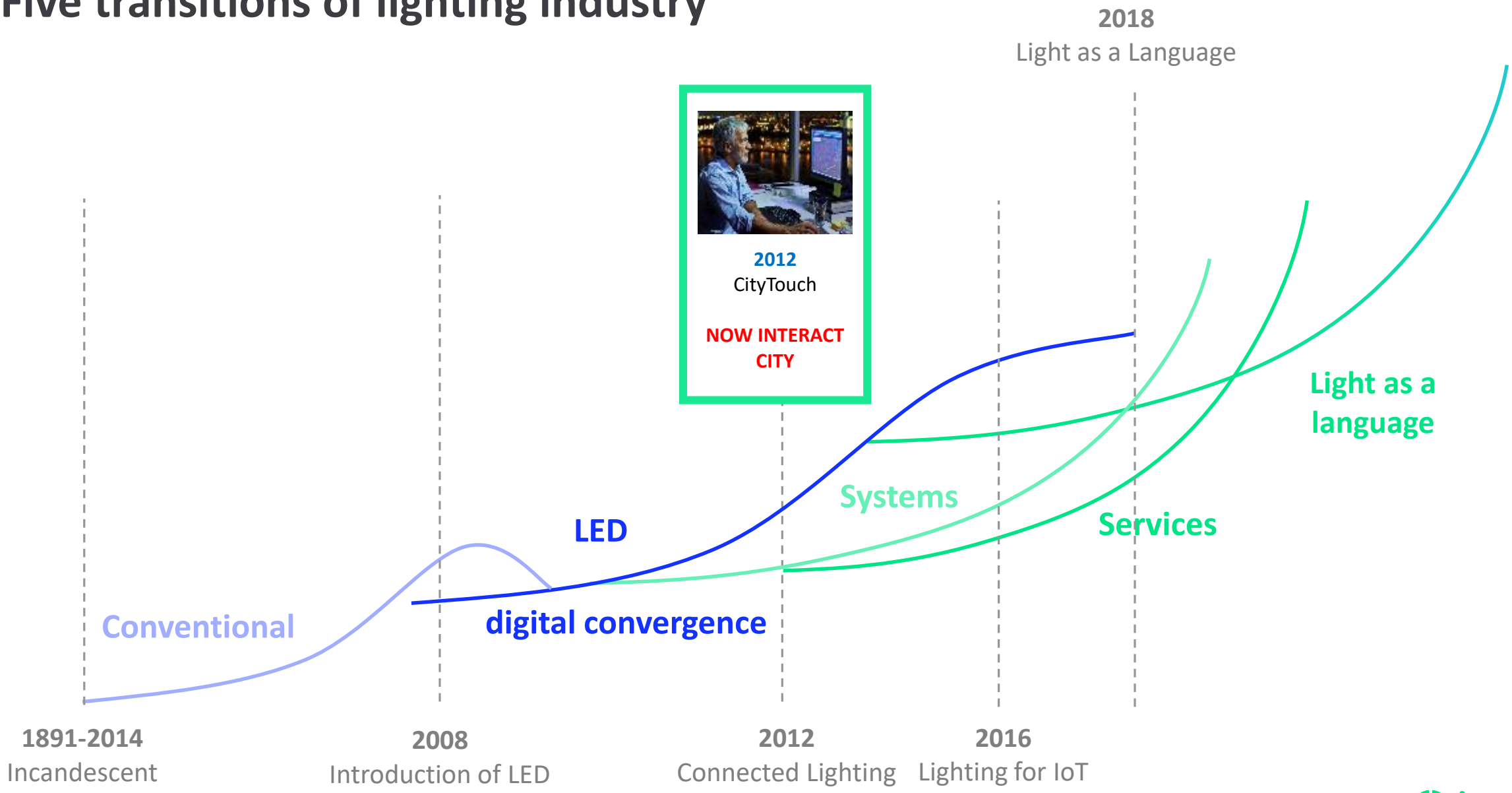
MODULAR
LUCE PLAN
ILTI LUCE

Value brands

ATTRALUX
MAZDA
FLOS

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Five transitions of lighting industry



The right light

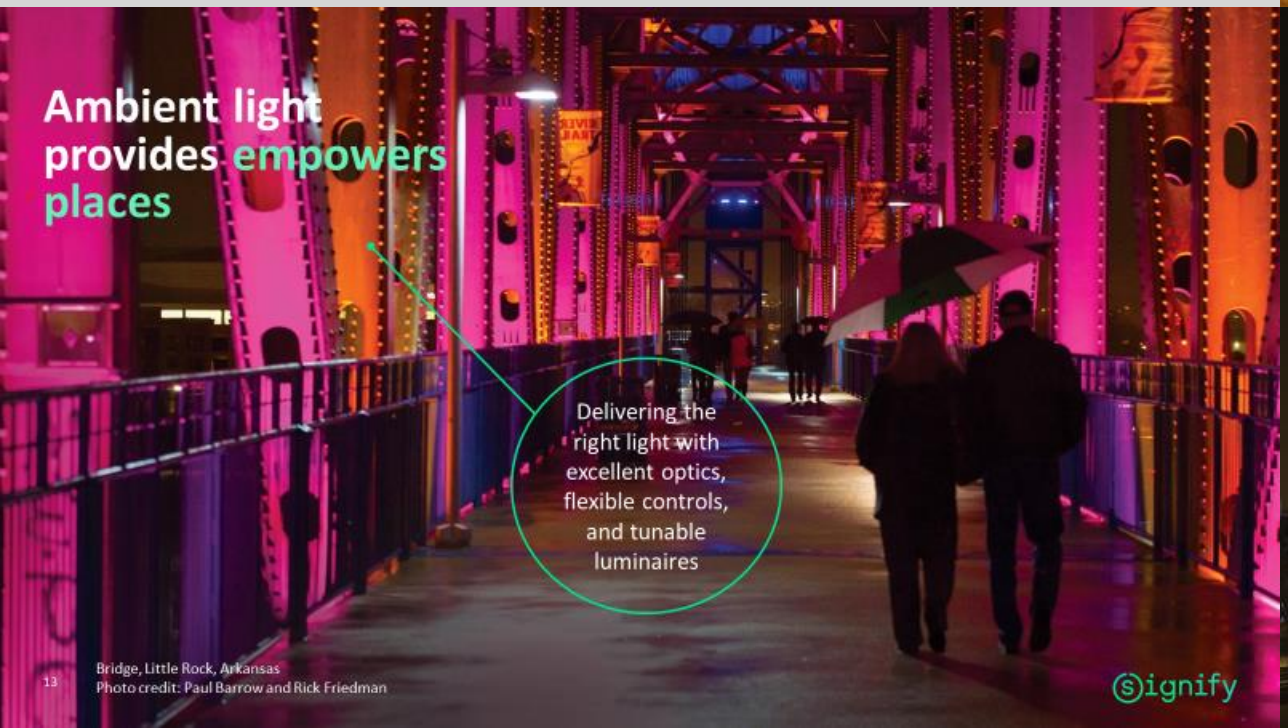
Ambient, dynamic, responsive, and interactive



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Bridge, Little Rock, Arkansas
Photo credit: Paul Barrow and Rick Friedman

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London Eye, London, UK

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Connect to leverage the benefits
of LED energy savings

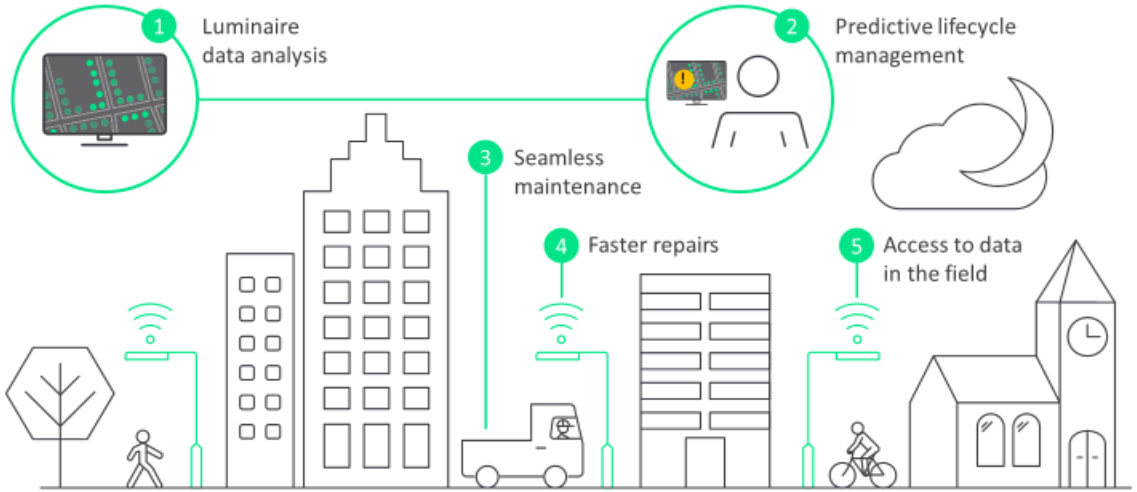
The Climate Group's lightsavers trial investigated pilots with LED and smart lighting in 12 major cities. In 15 trials, with over 500 lights and 27 products, significant energy savings were identified.

Up to 80% energy savings when coupled with smart controls

50-70% energy savings with LED

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Interact city
Connect and workflow app



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Welcome to connected lighting

It goes way beyond illumination:

- Flood streets and public spaces with energy-efficient, high-quality light
- Connect every light point to an intelligent system
- Create a pathway for information and services
- Deliver added value to city administrators and end users



More than just light, the beauty of a city

The City of Buenos Aires is replacing 91,000 street lights, converting a total of 70% of its lighting to Philips LEDs – and they're all connected to CityTouch.

"We have heard many anecdotes about changes in people's habits. They enjoy the parks and squares of the city much more. People are able to enjoy the city more because they feel safer now."

Gladys Gatti
Outdoor Segment Leader, Signify LatAm



Buenos Aires by the numbers

91,000	51,000	23,600tn	75%
street lights	luminaires on all streets	of CO2 reduced ever year	of city lights upgraded

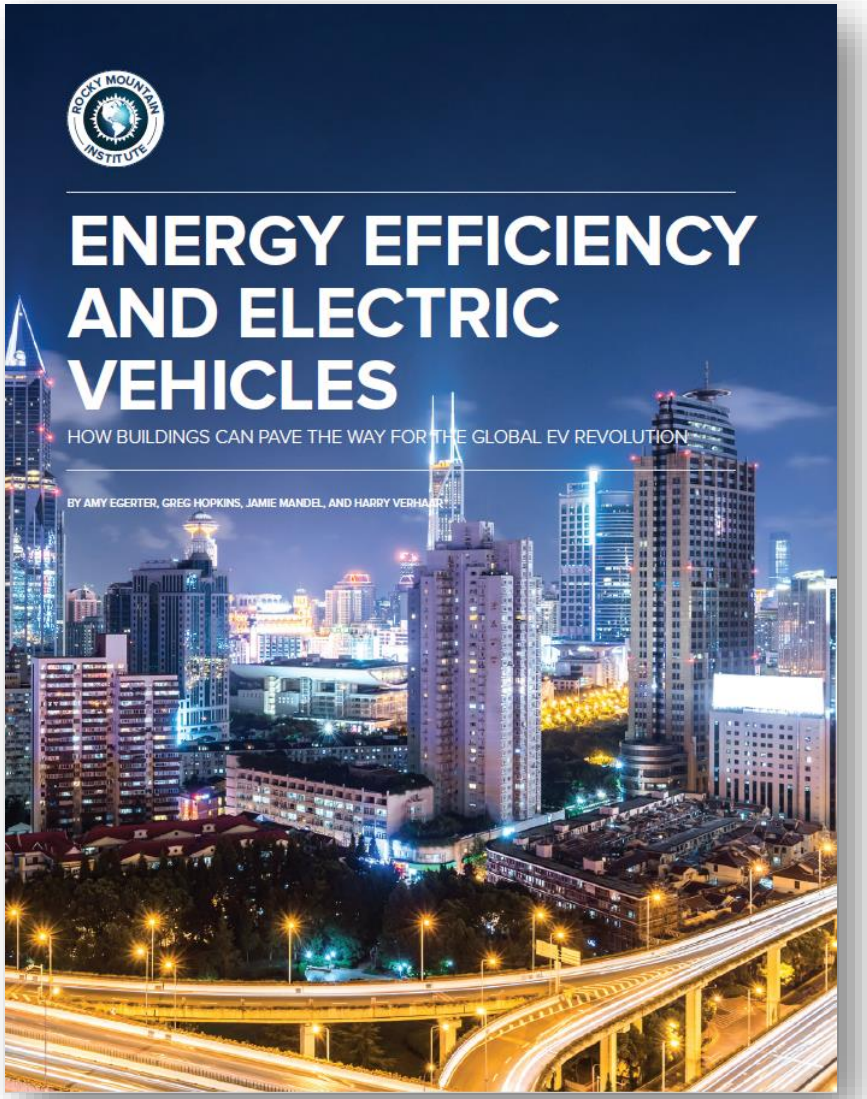


Buildings ‘consume’:

- 40% of global energy
- 60% of global electricity
- 85% of lighting electricity

To achieve climate mitigation goals, **all buildings have to be net zero by 2050.**

How Buildings can pave the way for the Global EV Revolution



- Co-authored with Rocky Mountain Institute
- Energy Efficiency and Electric Vehicles
- CO2 emission reduction commitments around the world is only roughly half what is needed to keep global warming under 2^{C}
- Two big areas that require more ambition are: **buildings and transport**

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Policy Requirements to achieve Scale & Replication

1. Adopt adequate Ambition level
   - 1) EE↑ & Building Renovation 3% p.yr.; 2) Carbon Neutral 2050
2. Develop & implement Integrated policies
   - EE / Buildings; RE; EV; ICT; Performance based Public Procurement
3. Implementation initiatives – Walk the Talk
   - Carbon Neutral Public Buildings; EV Public Transport
4. Put effort in creating and advancing Enablers
   - EPC Accounting rules
   - Deep Building Renovation @ moment of ownersip / tenancy change
   - Education (create the workforce needed: technicians, installers, ..)




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