



Harry Verhaar, Head of Global Public & Government Affairs, Signify Innovation X-Change, Sydney, 8 April 2018

Signify is the world leader in lighting

We provide high-quality energy efficient lighting products, systems and services

Light sources



Luminaires



Systems and Services



No. 1

Conventional. LED, Connected

€6.4bn

sales in 2018,75% professional

29,000

people in 70 countries

No. 1

Industry leader
Dow Jones
Sustainability Index



Street lights at the crossroads

The technologically number street lighting business is about to get a shot in the arm with new lamps and control gear, in James Hooker reveals



fails EU quality tests

(Parting Architecture which the parting of the part



White light can be green too

26 Europiele cont Egisconillencieses Il sulfic diseases senson langu. Phase principle sulfine Egith - fact at THE NAME OF COURSE OF THE CONTRACTOR MARKET AND AND

Switzerig Stockharops for easier more paraffection by being their set of the second second

particular light many light specifics. and the region with white larger of the real BUTTLE COURSE AND THE PARTY AND

withour games single? manufaction to bright less on.

White light Internet, the Walters of Other St. Millerdow of the others' any risken has a car driver the orange for exemple a

Olivino i sprin acquiero forgenia

etc. only overlanding your waters

single-balance between his section and section coming along one loans - precise COLUMN STREET BENEFITS

Philips lighting the Compressor that continues disencits of the sentencins mangle, and shower again to and washing the Sentings (See paper) economical and second

Colonia Pathy has whole topic and Falls of Equations of Triants, softening

Philips appesta por la mejora de la

de alumbrado público en Europa

ficiencia energética en los sistemas

to company at h

Davos Special Re

more the moved there all the

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eart," anys Paul Waide, art

NAME OF TAXABLE PARTY OF TAXABLE PARTY.



Cool building: 36 54 Mary Ase, in the City of Loodies, also become as The Chicket, soon half the power that a nimilar sized bases would emisselve. It is designed to examining daylight printed before, reducing the free their mitthicist light to recovered. Light toyal part recovered surrans, present assessmentary lightning.

A winning strategy to cut CO₂

BUILDINGS werent for thanks in part to the burtlicard bearing, vir upgrade lighting arricens with the latest state of the ert and energy officignet technology.

"There's a bear percential enginess carried out there. Philips vill marketing ager. Harry Various, ting that a third of 300 oth until inetowwich per lift surenes the forestops is filler Timbre.

fellips to present of its temperatulty friendly dieg products, starting time morelella first ray efficient lightfooth coats, "But reductry's might," earld Worthpart, "wonbeginner for out unp

tneckling fortween and politicinis and be Burrepean Com-

in convently

some products discover Tolerat. Vicellande respected on amintions Almebras for harding performance standards as the office and street lightness section and beyon the example set by the electricity compone com-

point would encourage floo horsiers to more efficient lighting. Com-PRINCIPAL CHEST Van Dentsen and Tibe: nobstance are un buildings set own born traditions now. The described correspond efficient lighting as a 'wirseas wan opposituatly. the confromment game because of less CO. the targative and mer gain because of lower wing up criteria in maker seeing costs and prople of and office lighting gain because at latter as energy efficient, as quality tighting

luge cost and energy savings could be made by updating lighting systems

75% of office lighting

Herald Tribune (Global Top 250 Media) 21-02-2007

Australia wants (incandescent) lights out

fillion compact fluores out bulbs a year by 2008, cupared to 40 million in 200. Philips has an-200. Philips has an-tenced plans to stop mak-in incumbancest bulbs be

Off militaring dis source of allies

come the first country to phase out Is cardescent light balls in laws of not energy-efficient compact fluorescent halls, as part of its drive to reduc-

is conversed to near states than again. Fluorescent belts work by passing an electrical current through a gas, typically argon, which emits ultraviolet light. This, in turn, causes a thin layer of phosphorous control on the inside of the table to glow.

EU pushes for energy-saving light bulbs

Firsted 400 ago | Commercial III | Recommend Q

THE EU PLAN

ie Verringerung des Stromver brauchs zählt nach wie vor zu den einfachsten Möglichkeiten, einen effizienten Beitrug zu Umweltschutz und Sen-

kung des CO₂-Ausstoßes zu-leisten.

Maßnahme, ohne jegliche Eimuße von Lebensquaß-

tüt, erweist sich dahei der

Austausch von Glübbirnen

gegen Energiesparlampen; Denn diese benötigen bis zu

80% (!) weniger Strom,

während normale Birnen nur 5% der verbrauchten

Energie in Licht umsetzen

und die restlichen 95% ein-fach als Wärme verpuffen.

Ab villig unkomplizierte

CU leaders set new begets Finley to cut

Schutzen wit

him der "Knone" und dem Lebenstreinsstertum

News » World «Life in Iraq «1

BRUBSELS (AP) - Th other parts of the world by pushing for an incre European leaders agn

Wer Glühbirne gegen Energiesparlampe tauscht, leistet einen effizienten Beitrag zum Umweltschutz! out general service incandescent lamp

unser Klimal

people on the planet with access to al warmin

fictionary report at the HIA. Efficiency in also a great of Judge slow global scarce. ng. But the best argument off temperature in little condition are

75% del alumbrado de oficinas malgasta energía



CHANGE BULBS

percent of the waste's electric old-Delterand incombance ght fulls - a 19th sounce The power it consumes on



concerns about energy resources and globa warming spur government intervention to phase

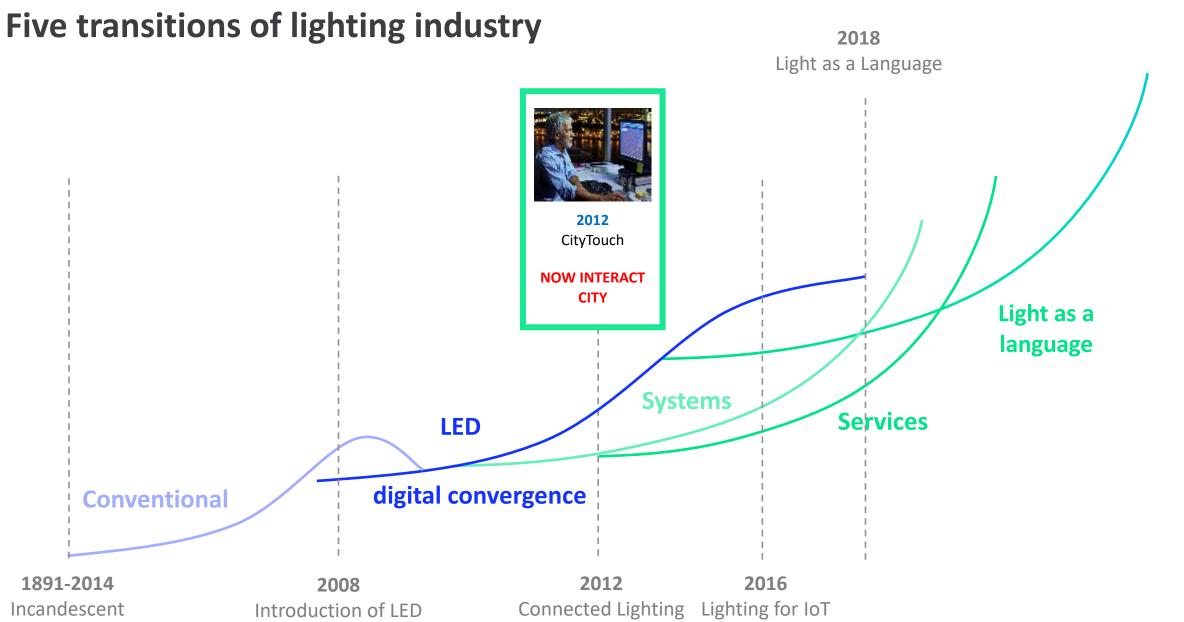
IN LATE JANUARY, a member of the electric lighting, and California legislature proposed a ban out of today's gene on the sale of general service incan- descent lamps. Ott descent lamps. By mid-March, coun-considering a phase tries representing more than 430 effort to reduce million people, or roughly one out of IO emission

Philips proposition

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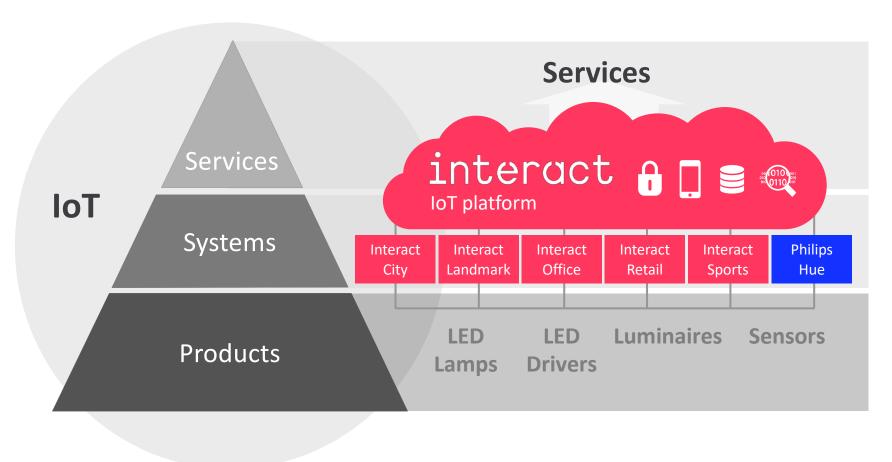
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Open data exchange

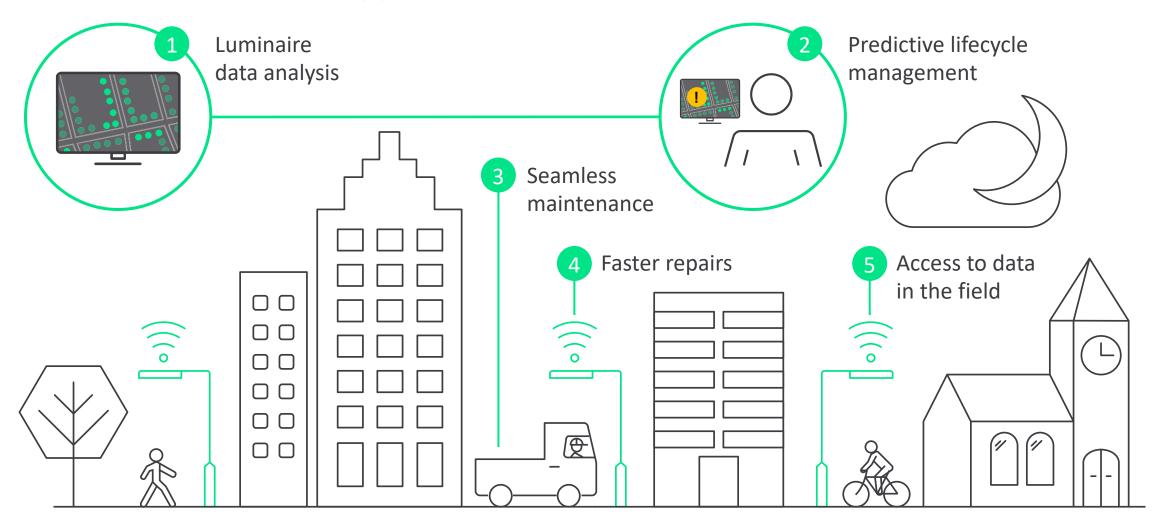
Interact IoT platform





Interact city – operational benefits

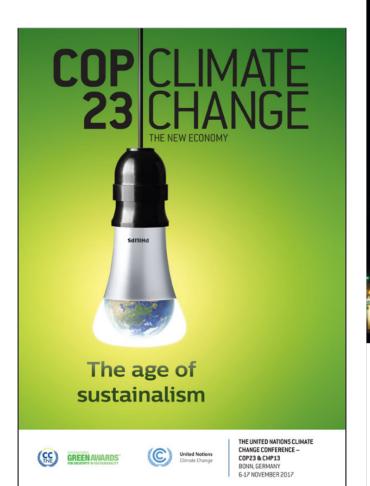
Connect and workflow app

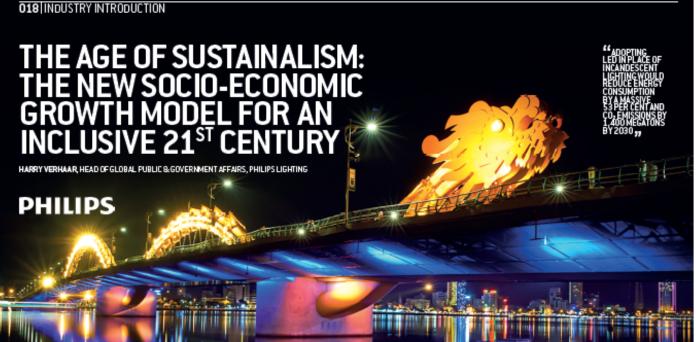




The bigger Paradigm shift

Capitalism, Communism, Socialism => Sustainalism





t is becoming ever more clear that the major global trends which are having the greatest impact on the world around us are not only increasingly intertwined, but are also becoming broader in that impact, affecting a greater number of readers and of bizzers.

Global hunger is on the increase, for the first time in over a decade. According to the annual United Nations report on each food security and natribins, this increase is primarily due to climate-related shocks and the growth in the number of violent conflicts. The report also points to concern at the number of overweight children and obase adults, with changes in dictary liabits and according shockers cited as some of the drivers of these french. The authors of the report state that the world will not find hunger and all forms of mainutrition by 2090 unless we address all the factors that andermise fined security and nutrition. Securing peaceful and industries oddities is a necessary qualifier in that and?

The impact of climate change has thus far been most keenly falt by the citizens in the developing world.

However, this year's intense and destructive humicanes, which tore through the Caribbean and then hit the southern USA, suggest that even the wealthlest country on the planet is not immune to the consequences of a changing dimate.

It should be clear that we cannot continue to look at the challenges facing the world in isolation. It may be comforting to do so, as bousing on a single issue can provide for greater clarity and easier communication. But this approach has the danger of simply storing up trouble for ruture generations.

Our focus on measuring global success through CDP growth has trapped us in a linear view of society – focused on extracting, consuming and emitting resources from energy to water, resterties and food. We need to become much smarter, more resource-efficient and change from a linear approach to a directler society. In which a long-term quality of life becomes the most important matrix. This would ensure that while economic competitiveness remains important, our socially would have at its core the health and well-being of all our diffuses.

THAT DEVELOPING
COUNTRIES DO NOT
FOLLOW THE SAME
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RICHER NATIONS OF
THE WOOLD HAVE

Above: LED-III Dragon

By adding a focus on social equity and inclusiveness, we can enter an age where the social-concentic model becomes about Sestainelism, building on the foundations laid by capitalism and socialism, but taking the broader view which the challenges of today and forecome demand of ex.



INDUSTRY INTRODUCTION 019

No-one is unaware of the need for our products and processes to become more energy efficient and yet, often due to a focus on the short term, there remains a nalectance to make the transitions required.

To arrive at a carton reactal world by 2050, we need to drive overall analy efficiency improvements of at least 3 par cent per year. "We' – Indestry, bareport, public infrastricture, homes – must at least double the rate of energy efficiency improvement, primarily by accelerating infrastructure reaceation to accent 3 per cent per year. In parallel with this we also need to be moving to clean energy sources at a rate that also equals to 3 par cent of our energy incurrency year.

Critically, the current rate of energy efficiency improvement howes at anound 1.5 per cent per year At the same time, demand for energy continues to rise at about 3 per cent per year driven by population growth, increased prospettly and mobility. Simply doubling the rate of energy efficiency improvement would reduce global energy costs by more than US\$2 trillen by 2009, stash the average household energy bill by a third, and create more than six million jobs by the end of this decade.

There are two main elements required to double the rate of energy efficiency improvement. The first is accelerating the necessition of existing inhastructure in developed countries. Secondly, there needs to be a focus on helping developing countries leapting to clear bethinkinglies such as soler-LED and combine these with new bedieness models, it is a sad fact that many of the countries which have suffered the most from climate change have been least responsible for creating it. It is vital that developing countries do not follow the same destructive phases that the richer nations of the world have been through.

When speaking about every, we often talk about individual technologies and their potential in their nespective size. In reality, we must pursue them all. Energy efficiency sensewable energy and carbon originating are all meeded. Only by enacting all of them in unbox will see be able to achieve the ultimate goal of carbon neutrality in the coming 40 to 50 years. The international Energy Agency projects that energy officiency needs to do over half of this job. One could say that by combining energy efficiency and renewable energy we can described so society twice as test and below as cost-affectively.

The fact is that many of the technologies we need already exist. All that is required is to take a longerterm view and use them.

LED lighting is a perfect example. LED street lighting uses at least 40 per cent less energy than conventional lighting and has been around for years, and yet we still cling to outdated and inefficient technology.

Signify