



Montreal

Atlanta

New York

Barcelona

Oslo

Naples

Shanghai

Sydney

Andrea Branzi
Philip Cox
Donald van Dansik
Norman Foster
Philip Gumuchdjian
Itsuko Hasegawa

Hans Hollein
Arata Isozaki
Toyo Ito
Steven Izenour
Rem Koolhaas
Richard Meier
Alessandro Mendini

Richard Rogers
Italo Rota
Denise Scott Brown
Harry Seidler
Huw Thomas
Bernard Tschumi
Robert Venturi

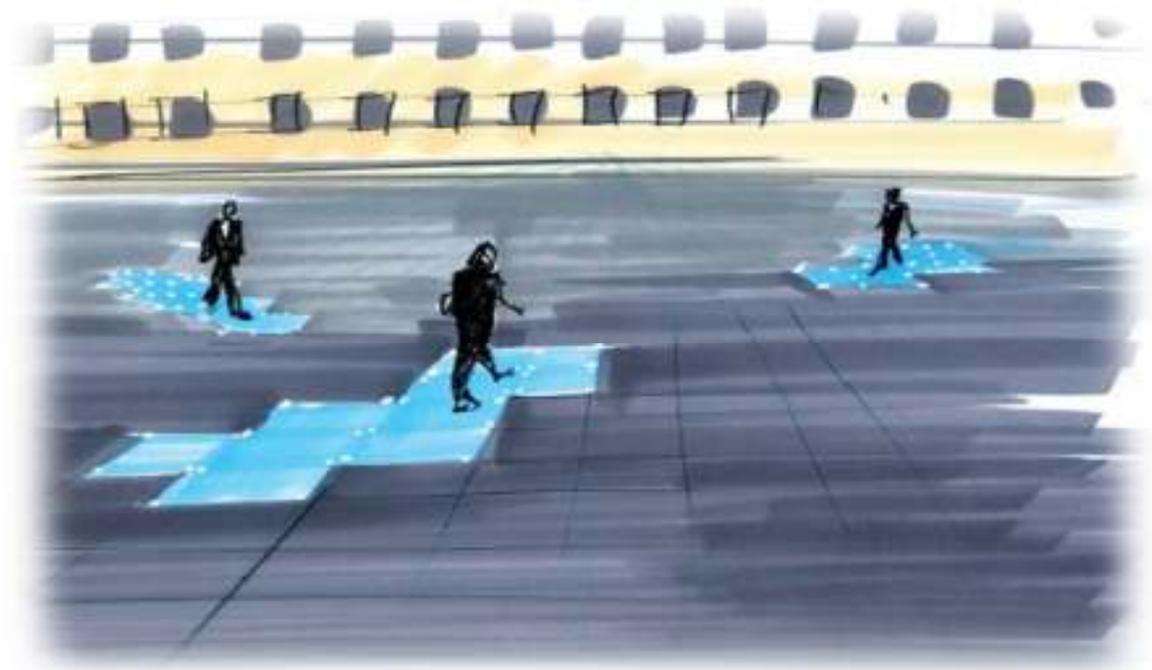
**Here we see our future selves
possibly carrying our own personal
lighting sources in the form of
clouds of artificial fireflies that
follow us through the streets.**



PHILIPS

Light Footprint

Tiles in urban pavements,
activating and highlighting your
your personal space as you walk
walk



A New Wave of **Public Lighting Designs**

1

Six major areas of change illustrate a new approach to public lighting.

18

From Roadway-Centric Lighting to **Light for People**

From Uniform Lighting to **Carefully Curated Lightscapes**

From Brighter is Better to a **Controlled Use of Contrast**

From Overhead Lighting to **Enveloping Light**

From One-Size-Fits-All to a **Celebration of Diversity**

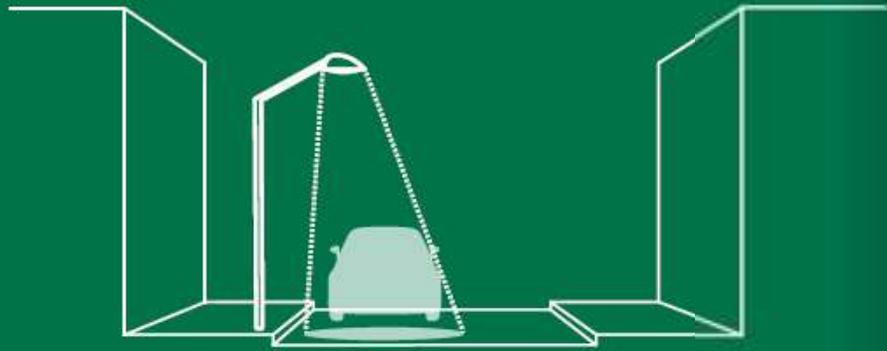
From the Brittle to **the Resilient City**

PHILIPS

Too often we still think of public lighting's role as allowing motorists to detect pedestrians.

Walking pedestrians are more vulnerable; where they look, what they need in a lighted environment is completely different from motorists.

- Nancy E. Clanton



From roadway lighting ...



... to light for people



St. Leon-Rot near Heidelberg .



Media Lab, Madrid

PHILIPS



From uniform lighting...



... to carefully curated lightscapes

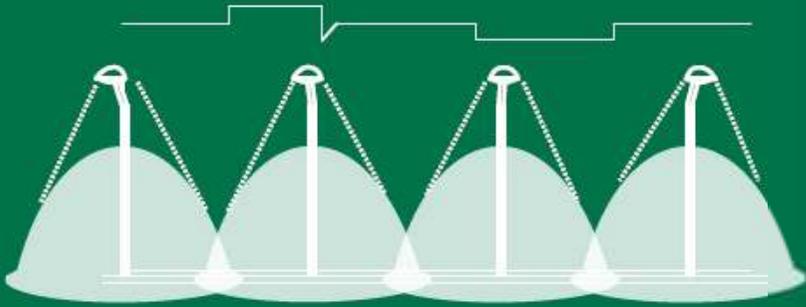


City Hall Square, Sant Cugat, Spain



LittleHaven, South Tyneside

PHILIPS



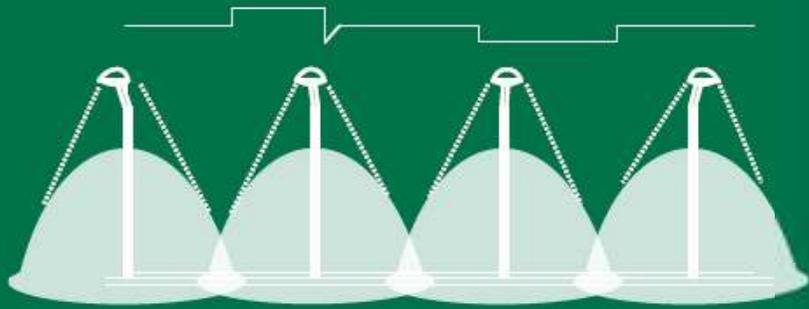
From "brighter is better"...



... to a controlled use of contrast



PHILIPS



From "brighter is better"...



... to a controlled use of contrast



Rietberg, Jurgen Meyer-Brandis

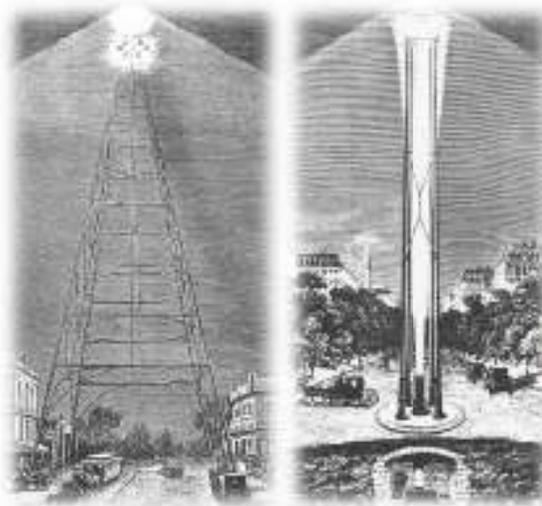
PHILIPS



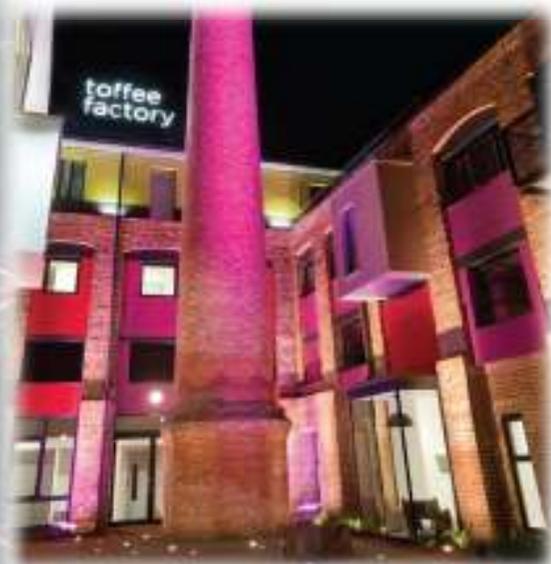
From overhead lighting...



... to enveloping light



University of the Arts, Light Lab



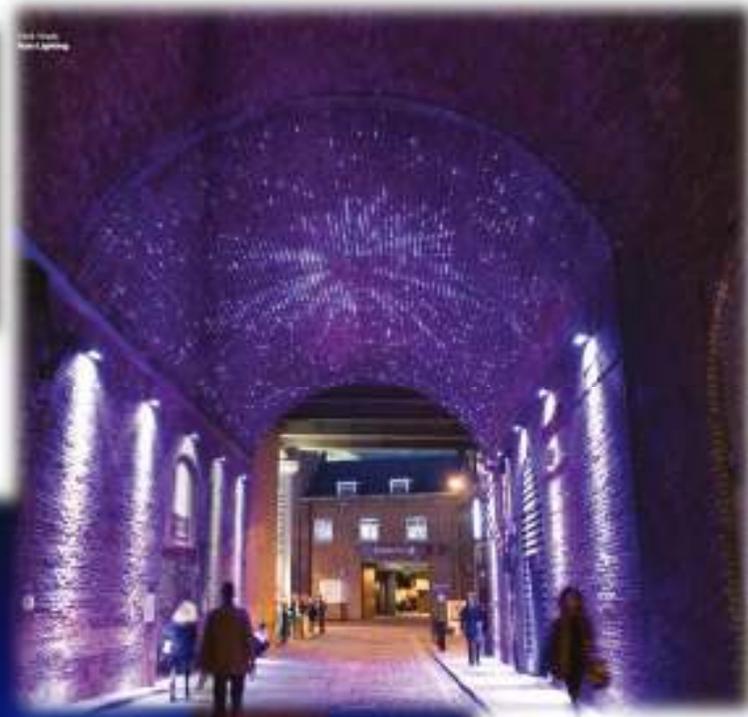
PHILIPS



From one size fits all...



... to a celebration of diversity



Crown Fountain
Jaume Plensa, Krueck & Sexton Architects, Schuler Shook

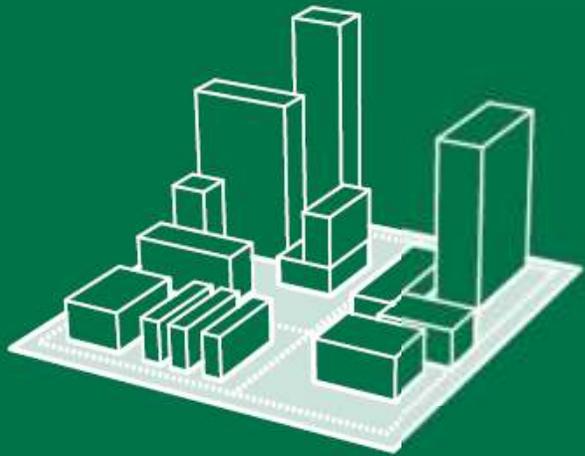
PHILIPS

'Snow of Light'

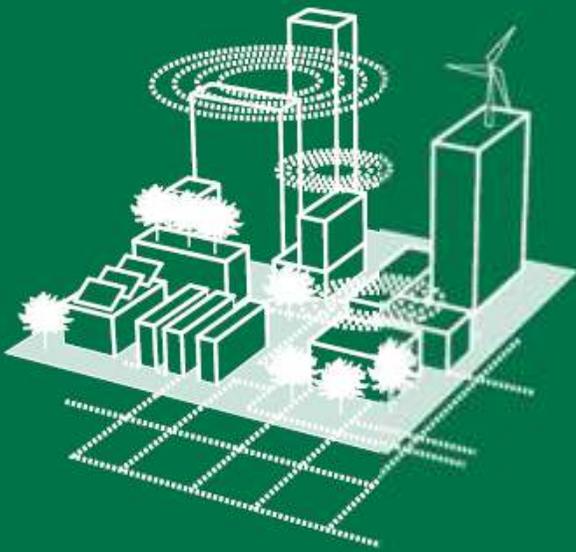
Here, urban designers are invited to use rain and snow as the tools to create a new lighting ambience



PHILIPS



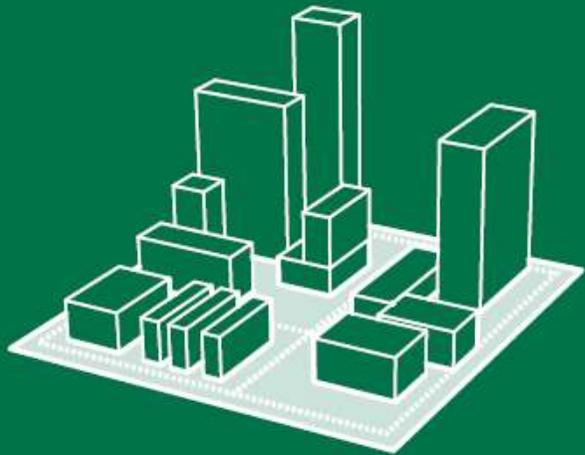
From the brittle city...



... to the resilient city



PHILIPS



From the brittle city...



... to the resilient city



**The role of public lighting moves beyond the perceptual
towards the relational: light mediates between people
and the built environment.**

A Framework for People's **Engagement with Light**

2

Lighting reveals the attributes of our surroundings to us; it allows us to perceive texture, color, and form.

Ambient Light: Supporting Urban Life, Revealing Identity

Dynamic Light: Evolving Connections, Designing Narratives

Responsive Light: Enhancing Patterns and Cycles

Interactive Light: Play and Participation

From Engagement
to Resilience

PHILIPS

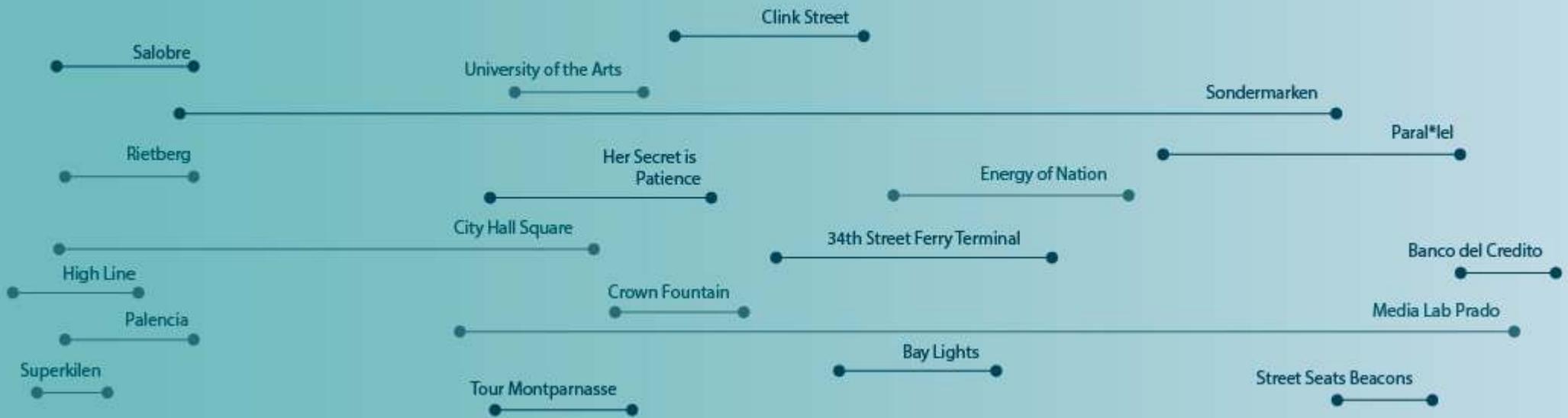
Digital Lighting Spectrum of Engagement

ambient

dynamic

responsive

interactive



Ambient Light

Supporting Urban Life, Revealing Identity



Sondermarken Park
B+S architecture and lighting

PHILIPS

Ambient Light

Supporting Urban Life, Revealing Identity



**Richard-Wagner-Platz
Licht Kunst Licht AG**

PHILIPS

Dynamic Light

Evolving Connections, Designing Narratives



Her Secret is Patience Janet Echelman



Photo Credits: Janet Echelman

Tour Montparnasse Réais Clouzet

Photo Credits: David Aubert **PHILIPS**

Responsive Light
Enhancing Patterns and Cycles

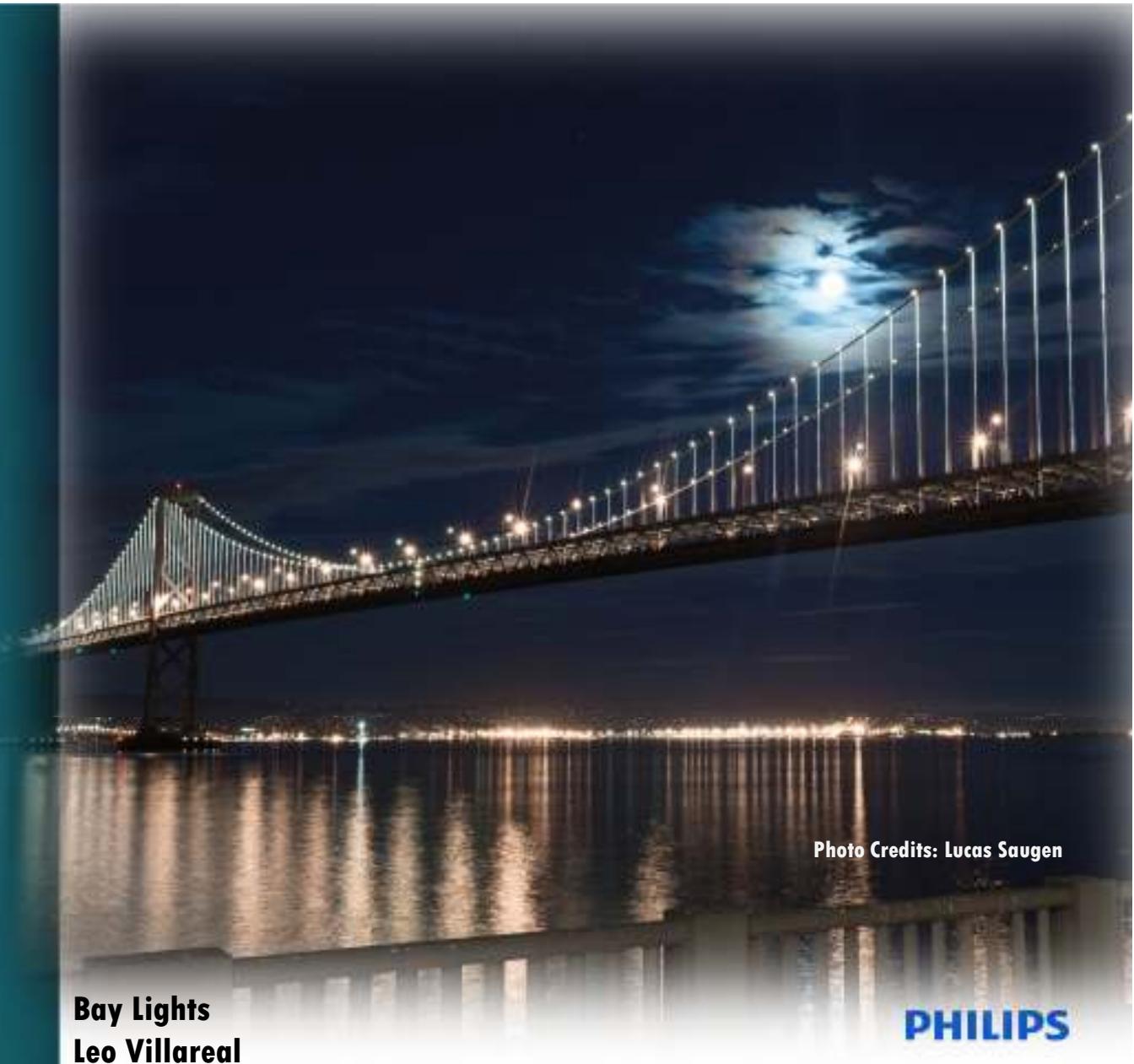


Photo Credits: Lucas Saugen

Bay Lights
Leo Villareal

PHILIPS

Responsive Light
Enhancing Patterns and Cycles



East 34th Street Public Ferry Terminal
KVA

PHILIPS

Interactive Light
Play and Participation



Banco del Credito de Peru
Claudia Paz

Photo Credit: Paz & Cheung

PHILIPS



Interactive Light
Play and Participation



Photo Credit: Garrick Dixon

Street Seats Beacons
Design Museum Boston

PHILIPS

personalized guidance through
the city will be made possible by
highlighting paths and patterns



In complementing the unpredictable and surprising nature of urban life, networked lighting can enhance those aspects of cities that make them such great places to live.

Light as a Resource for Cities and Citizens

3

More holistic approaches to public lighting require new ways of constructing meaning and assessing value over time.

Public Lighting **Scales of Impact**

From Identifying Meaning to **Assessing Impact**

Smarter Lighting for Smarter Cities

PHILIPS

Growing Challenge to Meet the Needs of Cities

25% of the global population in cities generates 61% of global GDP

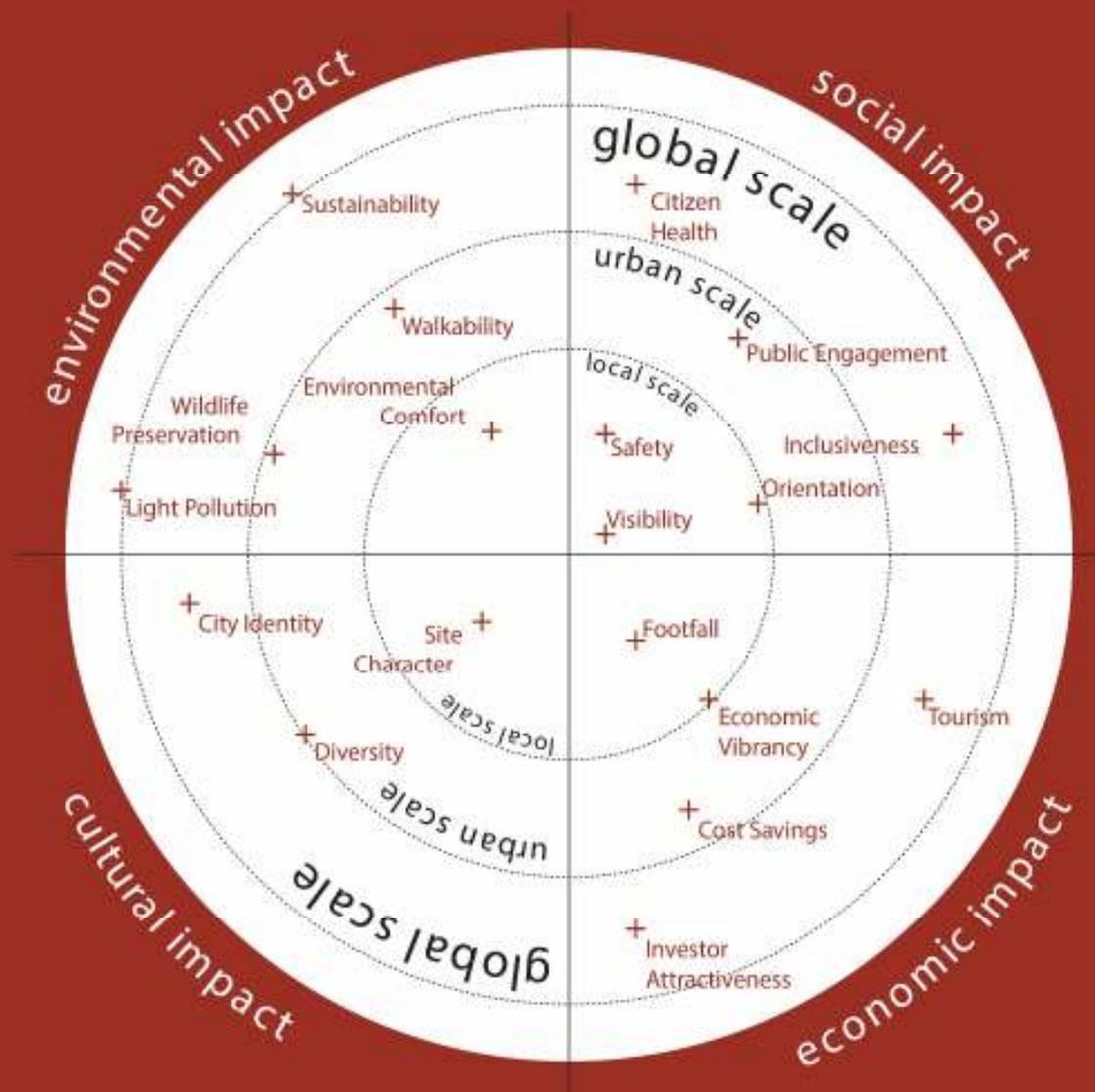
By 2030 60% of the global population will live in cities



1 Predicted real exchange rate
 2 Smallest city in terms of 2007 population has 208,000 inhabitants (in South Korea)
 3 Cities that do not belong to the City 600; small cities and towns and rural areas
 NOTE: Numbers may not sum due to rounding

Source: McKinsey Global Institute Cityscope 1.1.





Environmental Boston, MA



Photo Credit: Peter Schmitt

Social and Cultural Cumbernauld, UK

Craiglinn Underpass
Bigg Design



Photo Credits: Hamish Bigg

Social, Cultural, Economic

San Francisco, CA

Bay Lights
Leo Villareal



Photo Credits: Lucas Saugen

Social, Cultural Da Nang, Vietnam

Dragon Bridge





Creative, Interdisciplinary Design Approaches



Höweler + Yoon Architecture
Swing Time

Photo Credits: John Horner Photography

Enabling Infrastructures

Real-time updates for physical wayfinding markers
Points Sign

- Digital
- Networked
- Scalable (and resilient)
- Optimized for shared values (safety, sustainability, other values)
- Multiple levels of engagement for various stakeholders



Photo credit: Points Sign (pointssign.com)

[The smart city rhetoric] is almost exclusively a discourse about the instrumentation of the urban fabric and the quantification of municipal processes, specifically for ease of management. --

Adam Greenfield



<https://geobrava.wordpress.com/2014/06/10/the-internet-of-things-solution-market-will-reach-7-1-trillion/>



© Vincent Laforet,
photographer, AIR project

