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.
Light Footprint
Tiles in urban pavements, activating and highlighting your personal space as you walk.
A New Wave of Public Lighting Designs

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**
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
From uniform lighting...

... to carefully curated lightscapes

City Hall Square, Sant Cugat, Spain

LittleHaven, South Tyneside
From "brighter is better"...

... to a controlled use of contrast
From “brighter is better”...  

... to a controlled use of contrast  

Rietberg, Jurgen Meyer-Brandis
From overhead lighting...

... to enveloping light

University of the Arts, Light Lab
From one size fits all...

... to a celebration of diversity

Crown Fountain
Jaume Plensa, Krueck & Sexton Architects, Schuler Shook
‘Snow of Light’
Here, urban designers are invited to use rain and snow as the tools to create a new lighting ambience
From the brittle city...

... to the resilient city
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

**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

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

ambient
dynamic
responsive
interactive

Salobre
Rietberg
High Line
Palencia
Superkilen

University of the Arts
Clink Street
Her Secret is Patience
Energy of Nation
34th Street Ferry Terminal
Crown Fountain
Bay Lights

Sondermarken
Parallel
Banco del Credito
Media Lab Prado
Street Seats Beacons
Ambient Light
Supporting Urban Life, Revealing Identity

Sondermarken Park
B+S architecture and lighting
Ambient Light
Supporting Urban Life, Revealing Identity

Richard-Wagner-Platz
Licht Kunst Licht AG
Dynamic Light
Evolving Connections, Designing Narratives

Her Secret is Patience
Janet Echelman

Tour Montparnasse
Régis Clouzet

Photo Credits: Janet Echelman

Photo Credits: David Aubert
Responsive Light
Enhancing Patterns and Cycles

Bay Lights
Leo Villareal

Photo Credits: Lucas Saugen
Responsive Light
Enhancing Patterns and Cycles

East 34th Street Public Ferry Terminal
KVA
Interactive Light
Play and Participation

Banco del Credito de Peru
Claudia Paz

Photo Credit: Paz & Cheung
Interactive Light
Play and Participation

Street Seats Beacons
Design Museum Boston

Photo Credit: Garrick Dixon

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

Public Lighting

Scales of Impact

From Identifying Meaning to Assessing Impact

Smarter Lighting for Smarter Cities

More holistic approaches to public lighting require new ways of constructing meaning and assessing value over time.
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 205,000 inhabitants (in South Korea)
3. Cities that do not belong to the City 600, small cities and towns and rural areas

Social and Cultural
Cumbernauld, UK

Craiglinn Underpass
Bigg Design

Photo Credits: Hamish Bigg
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

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

Real-time updates for physical wayfinding markers
Points Sign
[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://gebrava.wordpress.com/2014/06/10/the-internet-of-things-solution-market-will-reach-7-1-trillion/