



# ANNUAL REPORT 2015





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**“2015 has undoubtedly been an international year of light!”**

*This year has undoubtedly been an international year of light! While various actors of the lighting field have gathered around the world to celebrate this unique occasion championed by UNESCO, the LUCI network has constantly been true to its mission to support cities develop their public lighting policies. Three major events in our calendar - the City under Microscope events in Bucharest and Glasgow and the Annual General Meeting in Helsinki, have successfully brought together our community to exchange practices and expertise in urban lighting, reflect on the role of light in urban development and the challenges of tomorrow.*

*2015 has been a transition year for LUCI, when we have had to say goodbye to Alexandre Colombani thanks to whom, during the 7 years of his dedicated service as General Director, the network grew steadily and has become what we know today. Our network continues to grow with new members joining the community, new cities signing the LUCI charter on sustainable lighting. Our network continues to grow thanks to the vitality of its commissions, events and projects on many varied topics.*

*As a process initiated during our last AGM in Helsinki, the LUCI Strategic Plan will be developed in the year to come in close consultation with members, taking advantage of the wealth of experience and knowledge within our network to plan ahead for the future. It is our hope that it will give us a strong framework for action as we continue to support cities and their partners to build sustainable and quality urban lighting.*

*With my colleagues from the Executive Committee, I am happy to look back on achievements of 2015, and I am looking forward to an exciting year ahead. I hope that we can continue building our network together.*

**Johan Nyhus**  
President of LUCI  
Deputy Mayor  
City of Gothenburg



# ABOUT LUCI

**Created in 2002 at the initiative of the City of Lyon, LUCI (Lighting Urban Community International) is an international network of cities on urban lighting.**

The network brings together 66 municipalities on 5 continents engaged in using light as a tool for sustainable urban development. It also includes 48 lighting professionals and companies as associated members.

Through the organisation of international events and conferences, and its involvement in various lighting projects and research, LUCI creates spaces for exchange of knowledge and good practices in sustainable urban lighting.

[www.luciassociation.org](http://www.luciassociation.org)



## The LUCI team

The LUCI office is based in Lyon (France) with a permanent staff composed of three persons.



Mark  
Burton-Page  
General Director



Albane  
Mériaux  
Project Manager



Nikita  
Junagade  
Communication Manager



The Executive Committee of LUCI was renewed during the LUCI General Assembly held in Dubrovnik (Croatia) in 2014 for 2 years. In accordance with the LUCI statutes, the Executive Committee will be renewed in 2016.



**Johan NYHUS**  
**LUCI President**

Deputy Mayor of Gothenburg



**Mary-Ann SCHREURS**  
**LUCI Vice President**  
Deputy Mayor of Eindhoven



**Andro VLAHUSIC**  
**LUCI Treasurer**  
Mayor of Dubrovnik



**LUCI is governed by an Executive Committee composed of nine city members (voting members):**

- Dubrovnik (Croatia)
- Eindhoven (Netherlands)
- Ghent (Belgium)
- Glasgow (United Kingdom)
- Gothenburg (Sweden)
- Jyväskylä (Finland)
- Leipzig (Germany)
- Lyon (France)
- Seoul (South Korea)

**It also includes three representatives from amongst the supporting associated members (non-voting members):**

Philips | Schröder | Thorn Lighting

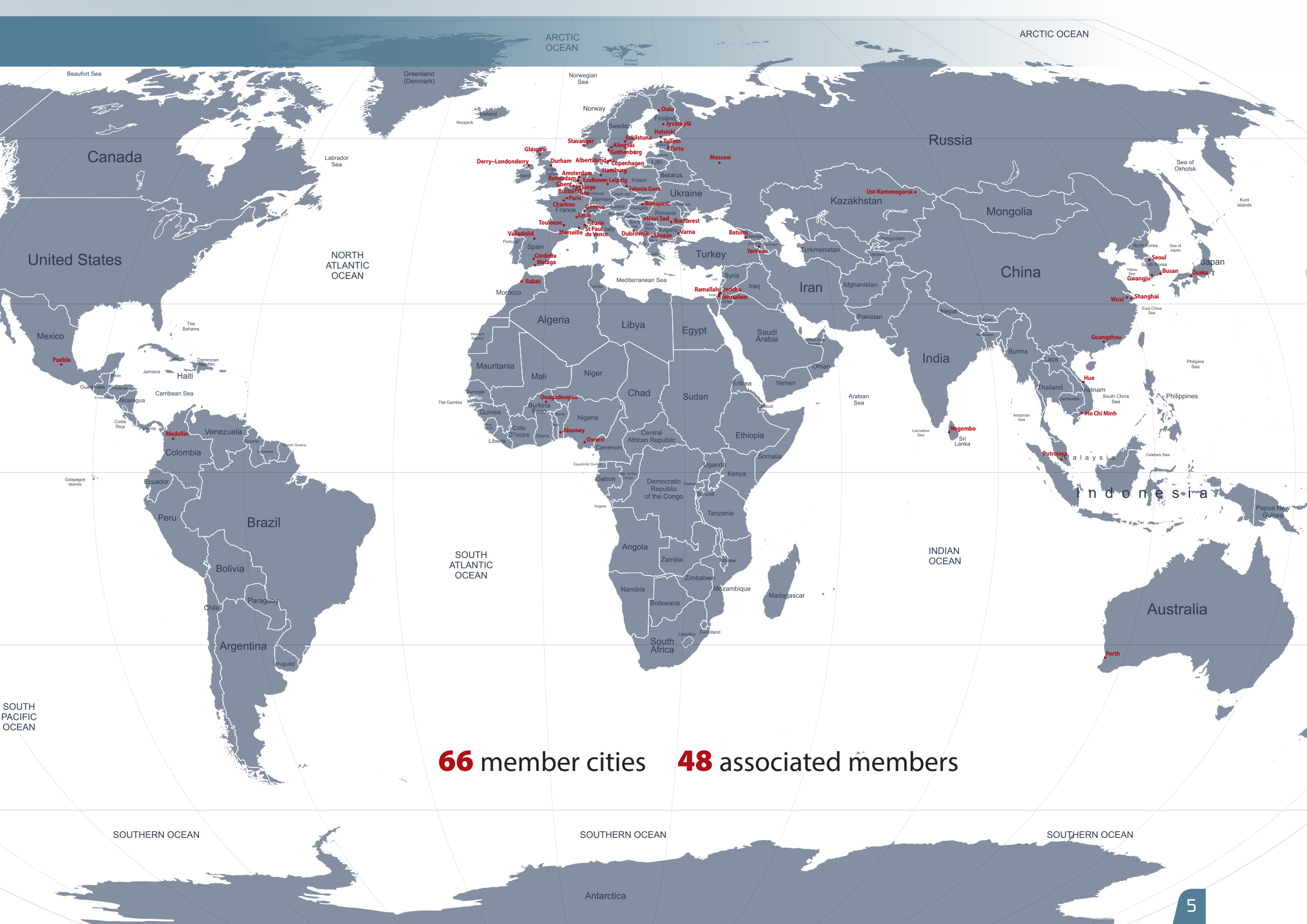
## 66 member cities \*

- |                            |                                     |                                      |                                  |
|----------------------------|-------------------------------------|--------------------------------------|----------------------------------|
| ▪ Abomey (Benin)           | ▪ Eskilstuna (Sweden)               | ▪ Lyon (France)                      | ▪ Rotterdam (Netherlands)        |
| ▪ Albertslund (Denmark)    | ▪ Ghent (Belgium)                   | ▪ Malaga (Spain)                     | ▪ Saint Paul de Vence (France)   |
| ▪ <b>Alingsås (Sweden)</b> | ▪ Geneva (Switzerland)              | ▪ Marseille (France)                 | ▪ Seoul (South Korea)            |
| ▪ Amsterdam (Netherlands)  | ▪ Glasgow (UK)                      | ▪ Medellín (Colombia)                | ▪ Shanghai (China)               |
| ▪ Ans (Belgium)            | ▪ Gothenburg (Sweden)               | ▪ Moscow (Russia)                    | ▪ Skopje (Republic of Macedonia) |
| ▪ Batumi (Georgia)         | ▪ Guangzhou (China)                 | ▪ Negombo (Sri Lanka)                | ▪ Stavanger (Norway)             |
| ▪ Brussels (Belgium)       | ▪ Gwangju (South Korea)             | ▪ Novi Sad (Serbia)                  | ▪ Tallinn (Estonia)              |
| ▪ Bucharest (Romania)      | ▪ Hamburg (Germany)                 | ▪ Osaka (Japan)                      | ▪ Tartu (Estonia)                |
| ▪ Budapest (Hungary)       | ▪ Helsinki (Finland)                | ▪ Ouagadougou (Burkina Faso)         | ▪ Toulouse (France)              |
| ▪ Busan (South Korea)      | ▪ Ho Chi Minh (Vietnam)             | ▪ <b>Oulu (Finland)</b>              | ▪ Turin (Italy)                  |
| ▪ Chartres (France)        | ▪ Hue (Vietnam)                     | ▪ Owerri (Nigeria)                   | ▪ Ust-Kamenogorsk (Kazakhstan)   |
| ▪ Copenhagen (Denmark)     | ▪ Jelenia Góra (Poland)             | ▪ Paris (France)                     | ▪ Valladolid (Spain)             |
| ▪ <b>Córdoba (Spain)</b>   | ▪ Jericho (Palestinian Territories) | ▪ Perth (Australia)                  | ▪ Varna (Bulgaria)               |
| ▪ Derry~Londonderry (UK)   | ▪ Jerusalem (Israël)                | ▪ <b>Puebla (Mexico)</b>             | ▪ Wuxi (China)                   |
| ▪ Dubrovnik (Croatia)      | ▪ Jyväskylä (Finland)               | ▪ Putrajaya (Malaysia)               | ▪ Yerevan (Armenia)              |
| ▪ Durham (UK)              | ▪ Leipzig (Germany)                 | ▪ Rabat (Morocco)                    |                                  |
| ▪ Eindhoven (Netherlands)  | ▪ Liege (Belgium)                   | ▪ Ramallah (Palestinian Territories) |                                  |

## 48 associated members \*

- |  |   |  |   |
|--|---|--|---|
| ▪ Agence ON (France)                     | ▪ Commission of the National Capital of Quebec (Canada) | ▪ Leipziger Leuchten (Germany)                                   | ▪ Sundrax (UK)                                      |
| ▪ Alain Guilhot (France)                 | ▪ <b>Global 2000 (Malaysia)</b>                         | ▪ Les Eclaireurs (France)  | ▪ <b>Telensa (UK)</b>                               |
| ▪ Amsterdam Light Festival (Netherlands) | ▪ Craig Morrison (UK)                                   | ▪ Lumipraxis (Canada)  | ▪ Thorn Lighting (UK)                               |
| ▪ Artichoke (UK)                         | ▪ Eandis (Belgium)                                      | ▪ Montréal en Histoires (Canada)                                 | ▪ TU/e Intelligent Lighting Institute (Netherlands) |
| ▪ <b>Atklaj Rīgu (Latvia)</b>            | ▪ EVESA (France)  | ▪ Ocuco (Portugal)   | ▪ <b>Valopaa (Finland)</b>                          |
| ▪ Blachère Illumination (France)         | ▪ Forum Interart (Germany)                              | ▪ <b>Osram (Germany)</b>   | ▪ VNISI (Russia)                                    |
| ▪ Budotechnika (Poland)                  | ▪ GE Lighting (USA)                                     | ▪ Partnership of the Quartier des spectacles - Montreal (Canada) | ▪ <b>VO Communication (Belgium)</b>                 |
| ▪ <b>C2 Smartlight (Finland)</b>         | ▪ Gridens Technologies (Estonia)                        | ▪ Phanta Vision (Netherlands)                                    | ▪ Werk (UK)   |
| ▪ CDO LumiVille (France)                 | ▪ Guangzhou Guangya Messe Frankfurt (China)             | ▪ Philips Lighting (Netherlands)                                 | ▪ Yang Guang Lighting Service (China)               |
| ▪ Citelum (France)                       | ▪ Inéo (France)   | ▪ Radiance 35 (Belgium)  | ▪ ZHONGTAI Lighting (China)                         |
| ▪ Citeos (France)                        | ▪ INSA Lyon (France)                                    | ▪ Sacred Places (Belgium)  |   |
| ▪ Cluster Lumière (France)               | ▪ L'Acte Lumière (France)                               | ▪ Spectaculaires (France)  |   |
| ▪ Cocoliche Lab (Mexico)                 |   | ▪ Schröder (Belgium)   |   |

\* New members in red



**66** member cities   **48** associated members



# NEW LUCI MEMBERS



## ALINGSÅS | SWEDEN

A town of 24 500 inhabitants located in the south of Sweden, Alingsås is known for the Lights in Alingsås festival and workshop.

Every October since the year 2000, the town's dark evenings and outdoor environments turn into exciting lighting installations for five weeks. The festival welcomes over 85 000 visitors annually.

The municipality also has a new lighting strategy. *"Our lighting strategy's main focuses are function, safety and image,"* says Kjell Hult, Chief Development Officer at Alingsås Municipality. *"We have joined LUCI to be part of a network of cities and to find colleagues with different experiences in lighting."*



## CORDOBA | SPAIN

Located in Andalusia in southern Spain, Cordoba has over 325 000 inhabitants and a UNESCO World Heritage city centre. The city is looking to identify energy efficient methods of illuminating its many heritage buildings. In early 2014, it launched the Cordoba Luze project which aims to reduce energy consumption and CO2 emissions and improve the livability of the city.

The Mayor of Cordoba, formalised the city's membership in LUCI and signed the LUCI Charter on Urban Lighting during a conference in Cordoba in November 2014.



## OULU | FINLAND

A municipality of around 197 000 inhabitants in north Finland, Oulu experiences an arctic dark winter that provides a unique environment for urban light art and light planning. *"Light is one way to improve the safety of the residential areas of the city and offer comfortable and pleasurable urban experiences for inhabitants. For Oulu, the LUCI network is a way to attain our place as part of the expert network of light art,"* says Piia Rantala-Korhonen, Deputy Mayor of Oulu.

The city has been hosting the Valoa Oulu! light festival for the past two years. It aims to develop new kinds of gaming and light combinations and bring out areas and buildings in a new light. Approximately 20 000 visitors participate each year.



## PUEBLA | MEXICO

The City of Puebla is the second most important historical city in México and has been classified as a UNESCO World Heritage city since 1987. Famous in Mexico for its rich artistic and historical tradition, the City of Puebla has developed a lighting master plan that aims to highlight the local cultural and historical heritage in the city centre. It encourages the economic development and the attractiveness of the city and is based on an approach that focusses on energy efficiency and social equality.

# LUCI CHARTER ON URBAN LIGHTING

## Promoting a culture of sustainability in lighting

**The LUCI Charter on Urban Lighting marks the network's commitment to sustainable development. It aims to give a clear view of the issues that should be taken into account by sustainable lighting strategies, while simultaneously gathering LUCI members around a common vision of urban lighting.**

It is the product of contributions from more than 40 cities around the world and over a year of work led within the network by the City of Leipzig (Germany).

The Charter addresses challenges common to all including energy efficiency, improvement of the quality of life, reduction of light pollution, maintenance, recycling, the cultural and social dimensions of light. Above all, it provides a reference framework within which towns and cities can develop their own sustainable lighting strategies.



*"Sustainable lighting, i.e. better lighting with lower energy consumption that creates a safe and comfortable environment for citizens, is a key priority for us in Albertslund. Our involvement in the LUCI network, with its mix of people, cultures and new ways of working has been a great source of inspiration."*

**Flemming Jørgensen,**  
Municipal Councillor of Albertslund (Denmark)



*"One of the most important aspects of the LUCI Charter for us is the emphasis on using light to build the urban and cultural identity of the city. We have been doing this for a while now – the Valoa Oulu light festival, which took place for the third time this year, is a part of our strategy to use light to make the city a better place for citizens and tourists, especially in the winter."*

**Piia Rantala-Korhonen,**  
Deputy Mayor of Oulu (Finland)



### Signatory cities

The cities of Cordoba (Spain), Bucharest (Romania), Oulu (Finland) and Albertslund (Denmark) are new signatories of the Charter. In total today 51 cities have signed the LUCI Charter or committed to sign it.

- **Albertslund (Denmark)**
- Alingsås (Sweden)
- Amsterdam (Netherlands)
- Brussels (Belgium)
- **Bucharest (Romania)**
- Budapest (Hungary)
- Chartres (France)
- Changwon (South Korea)
- Copenhagen (Denmark)
- **Cordoba (Spain)**
- Derry~Londonderry (UK)
- Durham (United Kingdom)
- Eindhoven (Netherlands)

- Eskilstuna (Sweden)
- Ghent (Belgium)
- Glasgow (UK)
- Gothenburg (Sweden)
- Guadalajara (Mexico)
- Gwangju (South Korea)
- Hamburg (Germany)
- Helsinki (Finland)
- Jerusalem (Israel)
- Jyväskylä (Finland)
- Leipzig (Germany)
- Le Havre (France)
- Liège (Belgium)

- Lyon (France)
- Marseille (France)
- Medellín (Colombia)
- Morelia (Mexico)
- Moscow (Russia)
- Novi Sad (Serbia)
- **Oulu (Finland)**
- Osaka (Japan)
- Oslo (Norway)
- Owerri (Nigeria)
- Pau (France)
- Paris (France)
- Perth (Australia)

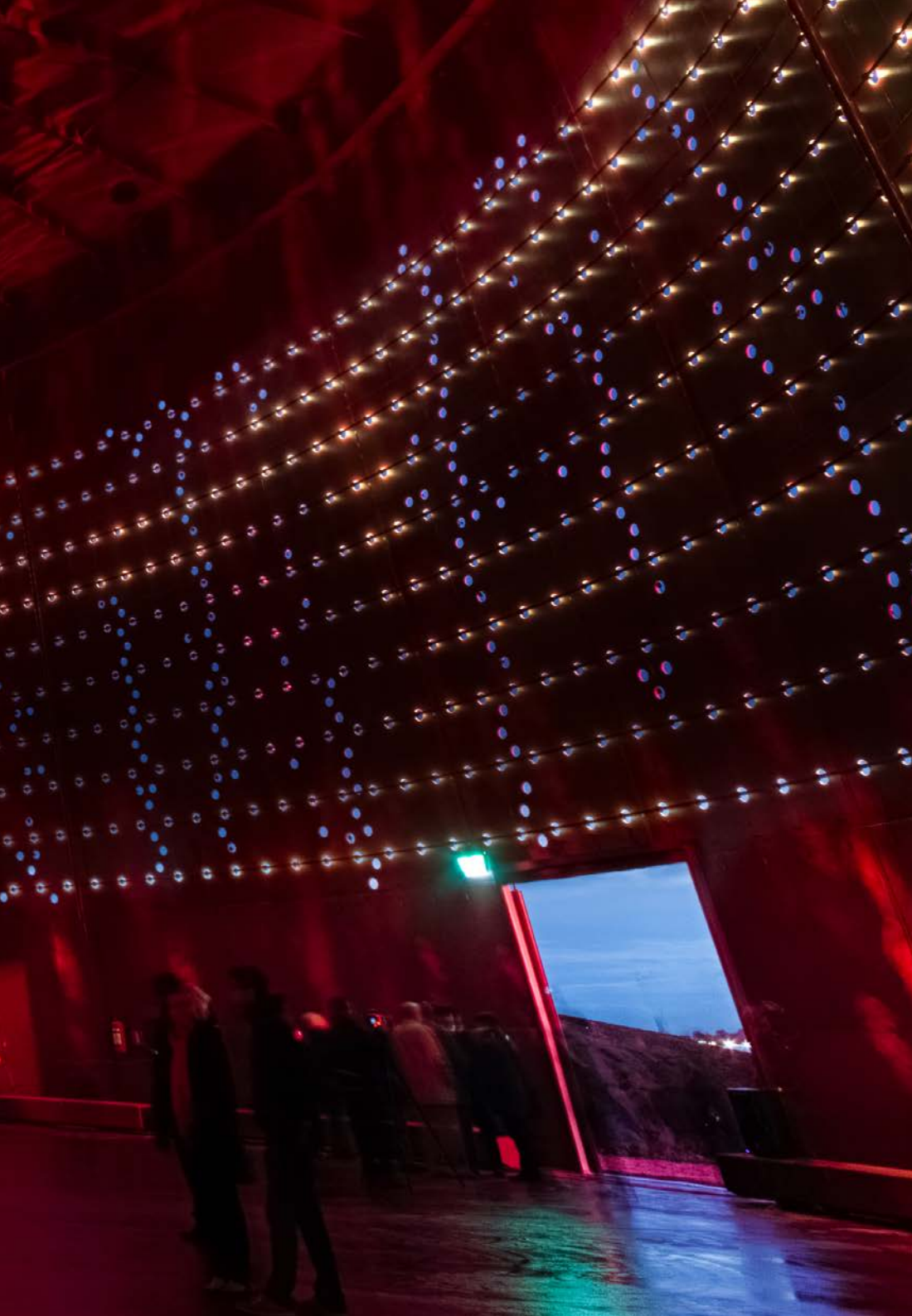
- Puebla de Los Ángeles (México)
- Rabat (Morocco)
- Rome (Italy)
- Rotterdam (Netherlands)
- Seoul (South Korea)
- Saint Etienne Métropole (France)
- Saint Paul de Vence (France)
- Taxco de Alarcón (Mexico)
- Tallinn (Estonia)
- Ust-Kamenogorsk (Kazakhstan)
- Valladolid (Spain)
- Wuxi (China)

Cities that have signed the LUCI Charter in 2015 are in bold









# EXCHANGING EXPERIENCES AND KNOW-HOW

Over the years, lighting has affirmed itself as a major tool that can contribute to the sustainable urban, social and economic development of cities. As new technologies and concepts on lighting continue to develop, there is a growing awareness of this potential within municipalities worldwide.

In order to fully understand and make use of lighting in this changing context, LUCI offers cities spaces to exchange experiences and know-how, by organising events, conferences and meetings throughout the world.

Key issues in urban lighting such as energy efficiency, light pollution, the social dimensions of light or the organisation of light festivals are addressed, bringing together LUCI members as well as cities and lighting professionals beyond the network.

## Inspired by northern lights

Key event of the LUCI calendar, the Annual General Meeting (AGM) is the international forum for cities on urban lighting.

It provides the opportunity for lighting professionals to share experiences, exchange know-how and learn from each other through various conferences, meetings and networking sessions as well as the city.people.light award ceremony. In 2015, it took place in Helsinki from the 23<sup>rd</sup> to the 27<sup>th</sup> of September.

- **190** participants from **22** countries
- **33** cities and **18** associated members represented



*"It was a great pleasure for Helsinki to host the LUCI Annual General Meeting in September. With the arrival of the lyrical and moody autumn evenings, the conditions for a conference on urban lighting were optimal."*

The AGM coincided with a major urban transformation in Helsinki. New districts are being built on former harbour areas on prime locations next to the waterfront. Among these regeneration projects is Kruunuvuorenranta, which is being developed as a neighbourhood of light. Indeed, I believe that one of the memorable highlights of the AGM programme was the visit at Oil Silo 468.

Helsinki joined LUCI in 2009 in order to learn from other cities' experiences of urban lighting and to share ours. The AGM provided an excellent platform to continue this work. Thank you for visiting Helsinki. I hope to welcome you soon again and wish the LUCI network every success in its important work."

**Jussi Pajunen**  
Mayor of Helsinki



## Helsinki's lighting strategy – research, innovation and light art

During the conference, experts from the city presented the public lighting network, the new city-wide smart lighting control system, and the strategy to use only LED for street lighting in the future.



As a city that works hand in hand with research institutes, Helsinki invited the Aalto University Lighting Unit to share its latest research.

This strategy is complemented in Helsinki by a focus on architectural lighting and the world's first neighbourhood of light art – Kruunuvuorenranta.





## GENERAL ASSEMBLY

### The LUCI network activities and perspectives

An essential moment for LUCI members to discuss the network's actions and perspectives, the General Assembly was an opportunity to present LUCI activities in the past year.



### Open Conference sessions: reflecting on current lighting issues worldwide

With the objective of giving the floor to new lighting initiatives from all over the world, the 2015 Open Conference sessions featured lighting projects from 11 cities around the world: Budapest, Busan, Paris, Rotterdam, Seoul, Toulouse, Glasgow, Albertslund, Tallinn, Ghent and Oulu. Some of the major issues that stood out involved discussions on:

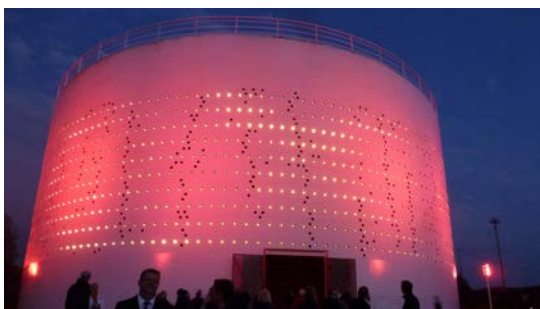
- Lighting masterplans
- Smart lighting protocols and compatibility issues
- Public-private stakeholder cooperation in respecting the city nightscape and light plan
- Light festivals

### Exploring Helsinki by night!

Night walks in the city centre and along the popular bicycle path Baana featuring temporary light art installations, gave participants the opportunity to directly experience the technical lighting choices made by the city and their impact. Participants also visited the award-winning Silo 468, a disused oil silo converted into a light art piece and public space, a new landmark for the city.



Night walk in the city centre



Visit of Silo 468 on Kruunuvuorenranta

### What they think:

*"This AGM was yet another opportunity to exchange know-how that proved to be very useful in our daily work, not just with the host city, but also with other cities, even Belgian ones, with which we will continue working in the future. The visit of the Silo 468 was one of the highpoints of the programme and a true source of inspiration."*

**Martin Lefrancq**, Project Manager, Brussels Mobility

*"This event allowed us to discover the distinctive urban lighting policy of a northern city as well as some concrete examples of smart lighting. In addition, we were very impressed by the variety of ways in which urban lighting can be used to reinforce the identity of a city. The Open Conference sessions were also a good opportunity for exchanging knowledge, information and experiences with other cities..."*

**Tae-ki Kim**, Director of Urban Light Policy Division, Seoul City

*"The AGM in Helsinki was a professionally organised event with a good balance of exchange of views on national lighting projects and international developments. It was an excellent opportunity to gain knowledge on the latest developments and success stories in lighting techniques, design, operation and maintenance."*

**Zoltan Pap**, Managing Director, BDK Budapest Flood and Public Lighting



## Moving towards a sustainable future!

**LUCI City under Microscope events allow participants to discover the lighting strategy of a member city over a two-day period. They include field visits and technical conferences on permanent and temporary lighting projects.**

**In 2015, the first City under Microscope took place in Bucharest from the 22<sup>nd</sup> to the 26<sup>th</sup> of April.**

- **120** participants from **15** countries
- **28** cities and **9** associated members



*"When we decided to host the City under Microscope, our aim was to present Bucharest's lighting strategy to our LUCI friends and share our first experience in developing a smart city. It was a pretty courageous decision to show the good and the bad to an international group of lighting experts, but this is our understanding of friendship."*

*By presenting its urban development strategy, its pioneering position in LED lighting, by highlighting its "Light Way for Architectural Heritage" and launching its first Light Festival during the International Year of Light, Bucharest assumed the role of raising awareness and the interest of other cities in sustainable urban lighting.*

*Very positive outputs came out of the event. Among them, our public lighting system operator was requested to develop a smart city strategy and a pilot project, and another Romanian town urged the implementation of its first smart city project."*

**Cosmin Gheorghiu,**  
Executive Director, Public Utilities Department,  
City of Bucharest



### Bucharest lighting strategy for energy efficiency and architectural lighting

- LED replacement project on main boulevards

The city presented an ambitious project of modernisation of its public lighting system, including the replacement of existing luminaires with LEDs. This has led to huge benefits in terms of energy savings, maintenance and security as well as reinforcing the city's identity.

- The Light Way project

With more than 350 monuments, Bucharest has a very rich heritage to put forward. The city demonstrated how the "Light Way" project enhancing most of its monuments, contributes to developing the tourism sector, increasing the quality of life and promoting its history.



## City LED Forum exchanging on LED lighting

Organised with the support of the EU SSL-erate project, this session aimed to facilitate the exchange of experiences and knowledge between cities on LED outdoor lighting.

It was an opportunity for participants to discuss key issues. Six city experts from Bucharest, Copenhagen, Eindhoven, Jyväskylä, Lyon and Malaga shared their experience with the 20 other cities represented from around the world on:

- Financing solutions for LED lighting projects
- Procurement and the tendering process
- LED lighting and energy grids
- Choosing the right luminaire
- Control systems and presence detection
- LEDs and social acceptance



## The first Spotlight Bucharest International Festival

Participants were invited to discover the festival with its 21 interactive light art installations and performances.

This festival was launched as a contribution of the city to the International Year of Light 2015 with the aim of raising public awareness on the role of light in urban spaces.

## Light as a key component in Glasgow's urban strategy

**The City under Microscope in Glasgow, which took place from the 11<sup>th</sup> to the 15<sup>th</sup> of November 2015, brought together cities for a rich programme demonstrating how urban lighting is an integral part of the social, urban and economic development strategy of Glasgow, and providing participants with many exceptional spaces for discussion, debate and innovation.**

- **110** participants from **17** countries
- **20** cities and **11** associated members



*"The LUCI conference in November 2015 was fantastic, with highlights including the Radiance Reflected exhibition and the illumination of buildings and structures throughout the city. That week prompted tremendously positive feedback from*

*so many people and organisations participating in the programme.*

*As host city, we learned so much from our partners and we like to think that we showcased what Glasgow could do as a smart city, during what was a very successful conference.*

*We hope to have a lighting event again in the near future. The role of lighting in the cities of the future becomes more apparent every year, and as members of the LUCI network, we look forward to greater collaboration in the future to deliver better ways of working."*

**Bailie Allan Stewart**  
Past President of LUCI, Glasgow City Council



## From steam to green the role of light in transforming Glasgow

- Light as a tool for urban regeneration and development

The conference sessions presented how urban lighting is integrated in Glasgow's urban development strategies – and its role in helping the city become a world class sustainable and resilient city with a green economy and a dynamic and comfortable city centre.

- Future City Glasgow intelligent street lighting pilots
- Experts from Glasgow City Council presented the public lighting network and perspectives for the future. Following the results of its Future Cities Demonstrator project, the city is planning an intelligent street lighting roll-out in the centre and is examining the potentials of connected systems to improve urban lighting.





## LUCI make Glasgow hands-on lighting design workshop

A first-ever City under Microscope hands-on lighting design workshop, with material and help from Philips staff, saw participants assigned to several teams to compete with lighting design concepts for three sites on the University of Strathclyde campus.



An afternoon of brainstorming lighting design ideas resulted in three unique winning designs that were implemented on-site and displayed during the course of the evening.



## Radiance Reflected exhibition

The event started off with the inauguration of the Radiance Reflected exhibition in the Lighthouse during the welcome cocktail.

The exhibition outlined the role of light in Glasgow's development in the past 10 years as well as the city's role in LUCI. It remained on display for the public until Christmas and included a film by Glasgow City Council, highlighting the role of the city in LUCI. It was followed by a walk along a lighting trail in the city centre.

As part of the event, the façade of the City of Glasgow College featured large projections, showing over 150 portraits of the people that make Glasgow, including LUCI participants.



# LUCI PARTNERSHIPS

Through partnerships with trade fairs and participation in conferences throughout the world, LUCI shares knowledge and experiences from the network, and raises awareness on urban lighting issues.

## Enlighten Asia / Tokyo (Japan)

LUCI was in Japan for the IALD Enlighten Asia conference in Tokyo in a session on urban lighting with the City of Marseille. This was followed by a conference on light planning and culture organised with the City of Osaka.



## Sur les traces de la lumière / Lyon (France)

The Lumière Lyon 2 University and the Alliance Française in Belo Horizonte (Brazil) invited LUCI to present light as a tool for urban development and attractiveness in a video-conference held in Lyon gathering lighting professionals from both cities.



## Guangzhou International Lighting Exhibition / Guangzhou (China)

LUCI was present at the Guangzhou International Lighting Exhibition 2015, Asia's largest lighting industry forum. Ingemar Johansson from the City of Gothenburg represented LUCI and introduced the network and some smart lighting projects from various municipalities around the world. LUCI associated member, Lucas Goy from Les Eclaireurs was also a speaker at the event.



## Lumiville-CapUrba / Lyon (France)

LUCI participated in the CapUrba and LumiVille trade fairs on city planning, innovative projects and outdoor lighting with a booth in the smart cities pavilion.



## Smart City Lighting Event / Eindhoven (Netherlands)

LUCI was partner of this event that brought together policy makers, designers, companies, start-ups, investors and researchers to develop new initiatives and create future smart lighting solutions. Hosted by Eindhoven, it featured LUCI cities such as Malaga, Glasgow, Ghent, Lyon and Amsterdam, among others, in a series of interactive meetings.





## Forum LED / Lyon (France)

LUCI was involved as chair of the conference on “Urban lighting in the era of connected cities” at ForumLED. This session brought together the cities of Los Angeles and Paris, as well as two companies: Cisco and Egis to discuss smart city lighting.



## Entretiens Jacques Cartier – Lumières urbaines / Lyon (France)

LUCI was partner of this seminar organised by the INSA Lyon and the Centre Jacques Cartier. It brought together the cities of Lyon and Montreal to discuss urban lighting, addressing issues affecting both cities, such as urban lighting education programmes, norms and standards, light pollution, citizen feedback and involvement in experimental urban lighting.

**INSA** INSTITUT NATIONAL  
DES SCIENCES  
APPLIQUÉES  
LYON

LE CENTRE  
JACQUES CARTIER



## Games of Light Conference / Moscow (Russia)

LUCI was in Moscow during the first International Christmas Illumination Festival and presented the impact of light festivals for cities during the conference “Games of light: traditions and new tendencies in decorating cities for the winter holidays”.

## LUCI presented to cities around the world

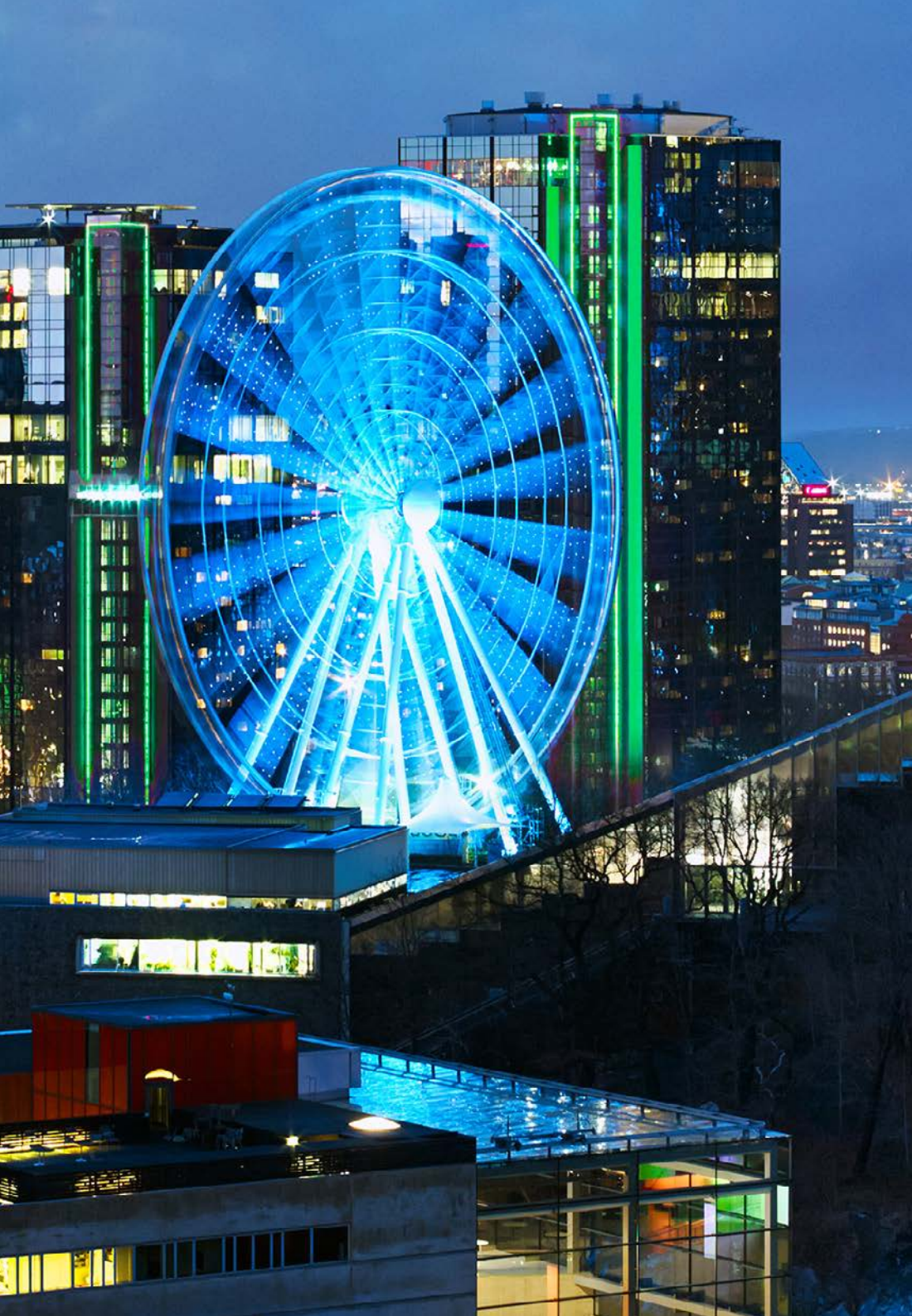
Throughout the year, LUCI welcomes delegates from cities around the world who want to learn about the network and explore how to enhance their lighting strategies and projects.

This year, delegates from the cities of Recife (Brazil), Matsue (Japan), Nanjing (China), Saint Petersburg (Russia), Los Angeles (USA) as well as delegates from Indian cities among which Delhi, Bangalore and Chandigarh were introduced to the network, its activities and the main topics addressed within the lighting community.









# PROGRESSING TOGETHER

The field of urban lighting has been undergoing major changes in the recent past and continues to evolve at a rapid pace.

As a leading network on urban lighting, LUCI explores, through its commission activities and various projects, the new facets and potentials of public lighting in both its permanent and temporary aspects.

Whether by piloting research on some of the burning issues in urban lighting today or by providing concrete technical support, LUCI offers tools for cities to progress towards a better, more sustainable use of light.

# INTERNATIONAL YEAR OF LIGHT 2015

**The International Year of Light (IYL) is a global initiative adopted by the United Nations to raise awareness about how light and light based technologies promote sustainable development and provide solutions to worldwide challenges in energy, education, agriculture, communications and health. It has been a large success with thousands of events reaching over one million people in 120 countries.**

**Through its activities in 2015, LUCI contributed as a silver associate to the initiative.**



United Nations  
Educational, Scientific and  
Cultural Organization



In support of

International  
Year of Light  
2015

## Launch of the International Year of Light

LUCI participated in the two day event which brought together over a thousand participants. Held in Paris on the 19<sup>th</sup> and 20<sup>th</sup> of January, it aimed to introduce the key themes of the year, and to serve as inspiration for events worldwide during 2015.

## LUCI main events marked by the IYL2015

Through the main events of the LUCI calendar, major themes of the IYL were addressed with keynote speakers from the science field, among which Professor Liisa Halonen from Aalto University and Professor Martin Hendry, Chairman of IYL Scotland.

## IYL in Cities&Lighting, the LUCI network magazine

In its April 2015 edition of Cities&Lighting, LUCI published an exclusive interview on urban lighting with John Dudley, Chairman of the IYL2015 Steering Committee.



## IYL Closing Ceremony

The closing ceremony took place in Mérida (Mexico) from the 4<sup>th</sup> to the 6<sup>th</sup> of February 2016. It provided a forum to continue the celebration of light and its many applications in science and society, with speakers such as Nobel laureates John Mather and Shuji Nakamura.

- LUCI was invited to contribute to a workshop on “Light in the built environment, light and architecture” during the closing ceremony and presented how cities use urban lighting to shape and transform society by using light as a tool for sustainable social, economic and cultural development.
- A colloquium, co-moderated by lighting designer Gustavo Avilés and Mark Burton-Page, LUCI General Director, addressed lighting as an element of the relationship between art and science.



## SSL-erate

### Objective

SSL-erate aims to accelerate the uptake of high-quality Solid State Lighting (SSL) technology in Europe by means of open innovation and by bringing validated information to all relevant stakeholders.

### Activities in 2015

The project, co-funded by the European Commission, is moving forward as planned. In the past year, it has released several reports and documents, such as the Report on Lighting for Health and Well-being in Smart Cities, as well as the Open Innovation Toolkit for cities and street lighting solution providers. It has also organised regional workshops and conferences on open innovation with local lighting clusters.



### LUCI in SSL-erate

With a specific focus on the topics related to outdoor lighting within SSL-erate, LUCI disseminates research and outputs of the project. In 2015, LUCI organised the "City LED Forum" workshop which aimed to bring cities together to identify challenges and solutions to LED deployment in street lighting.

The event, which was attended by approximately 50 key municipal experts and decision makers from all over Europe was held on the 24<sup>th</sup> of April within the framework of the City under Microscope in Bucharest.

- Programme: FP7
- Total budget: € 4.6 Million
- LUCI budget: € 63 000
- Partners: TNO (lead partner) and 23 other partners representing the lighting industry, research organisations and public authorities
- Launch date: November 2013
- Duration: 3 years
- Website: [www.ssl-erate.eu](http://www.ssl-erate.eu)

## ENIGMA

ENIGMA (Enlightenment and innovation, ensured through pre-commercial procurement in cities) is a project co-funded by the European Commission that aims to implement a joint pre-commercial procurement (PCP) procedure in the field of public lighting in 5 cities.

Unfortunately, due to complications related to the city partners' lighting requirements and the PCP process, the project was terminated by the European Commission in 2015.

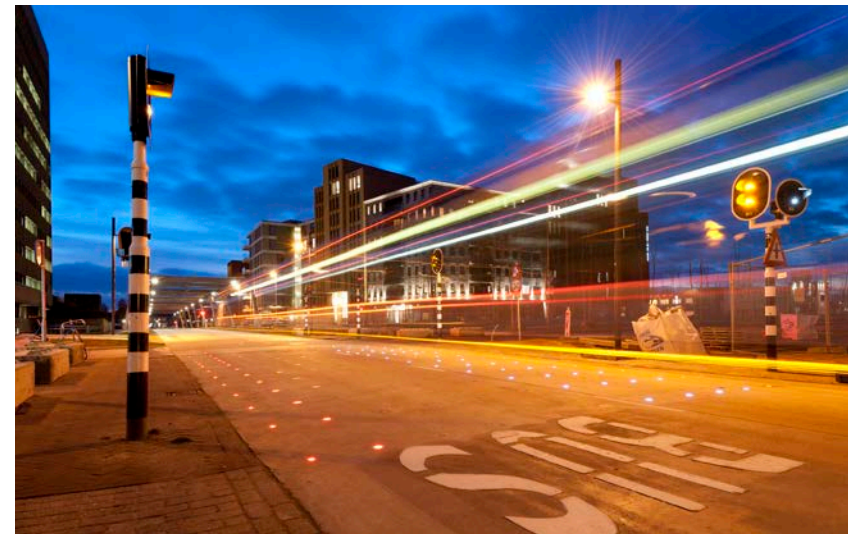


- Programme: FP7
- Total budget: € 5.4 Million
- LUCI budget: € 40 977
- Partners: Eindhoven (lead partner), Malmö, Stavanger, Espoo, Bassano del Grappa and 10 knowledge and networking partners
- Launch date: October 2013
- Duration: 3 years
- Website: [www.enigma-project.eu](http://www.enigma-project.eu)

**LUCI Commissions address major issues in urban lighting. By bringing together the existing knowledge within the LUCI network, they aim to help cities progress towards a better and more sustainable use of light. In 2015, three Commissions have been active within LUCI.**

## What are LUCI Commissions?

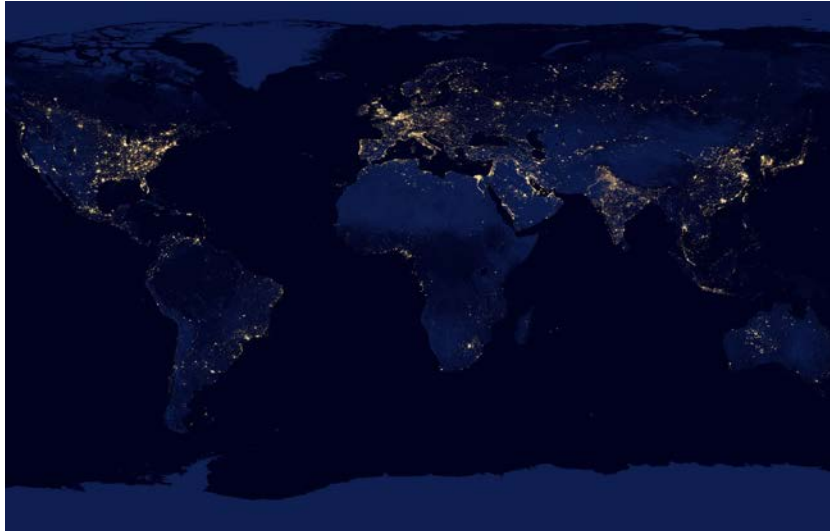
- Their purpose is to bring together members of the network around specific themes and topics in lighting, and collectively create new knowledge for the benefit of the network.
- They are created by the LUCI Executive Committee on the proposal of a member city (or associated member).
- Budgets may be allocated by the Executive Committee to their actions, if they add value to the network as a whole.
- Examples of past LUCI Commissions:
  - **Urban Strategies and Lighting Commission**  
led by the City of Liege
  - **Culture Commission**  
led by the City of Glasgow
  - **Charter on Urban Lighting Commission**  
led by the City of Leipzig
  - **Tourism and Lighting Commission**  
led by the City of Chartres



## **Sustainable Innovation Commission** led by the City of Eindhoven

With this Commission, in continuity of the work done through the PLUS project with the LUCI/PLUS best practice database, Eindhoven seeks to create space for capitalising on best practices in urban lighting.

It is currently exploring ways to support cities that are confronted with the complexity and perpetual evolution of the market of lighting technologies.



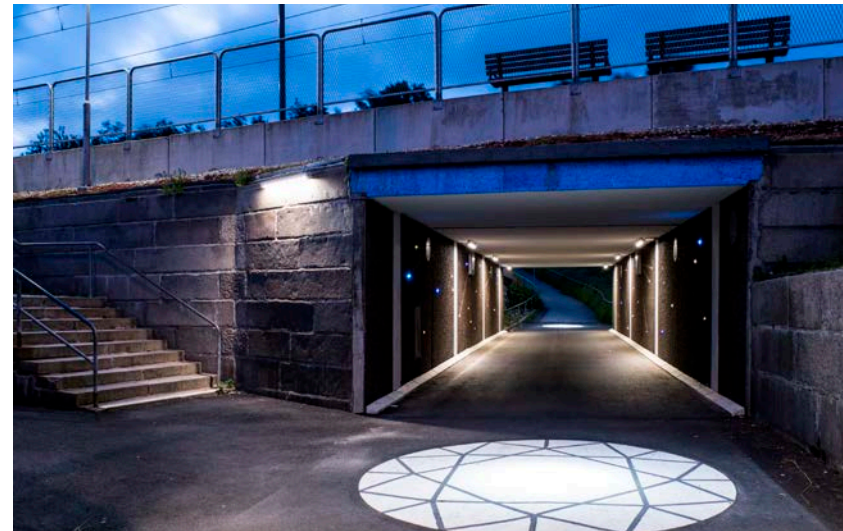
## International Solidarity Commission

led by LUCI Honorary members

The International Solidarity Commission aims to support and develop LUCI's activities and projects towards developing countries. Proposed by the honorary members of LUCI, this Commission is open to cities as well as associated members.

In 2015, the Commission continued to work on its two main lines of action:

- bringing support and advice to inter-city cooperation on urban lighting and strengthen the LUCI City Support service.
- organise a LUCI regional event in Africa on "Lighting, cooperation and development". This event could showcase:
  - international cooperation on lighting success stories;
  - technological solutions adapted to local context (off grid lighting, solar lighting...);
  - best practice case studies from cities in Africa.



## Light & Art Commission

led by the City of Gothenburg

Bringing together 6 cities (Amsterdam, Gothenburg, Helsinki, Lyon, Rotterdam, Turin) and LUCI associated member Sacred Places, the Light & Art Commission organised 3 meetings in 2015.

Its main objective is to help cities learn from each other on the theme of light and art in the urban space through the exchange of experiences.

In 2015, the Commission worked on the production of a publication. The City under Microscope in Gothenburg in April 2016 will dedicate a session to the topic and the new LUCI publication on Light & Art will be launched.

The Commission members would like to continue working together in the future and are developing a framework for international cooperation projects on light and art.









## PROMOTING BEST PRACTICES

Bringing together a very wide range of knowledge and experiences from cities worldwide, LUCI aims to promote a culture of lighting which respects a sustainable and rational use of light at the right place, at the right time.

Using the LUCI Charter on urban lighting as a reference, it showcases – through its international awards, publications and communication tools – exemplary urban lighting strategies and projects world-wide. In this way, LUCI aims to help cities capitalise on existing knowledge and experiences, and to support them in the development of their urban lighting strategies.



# CITY.PEOPLE.LIGHT AWARD

The city.people.light award was created in 2003 by Philips and LUCI. This award represents a significant step towards promoting the use of light as an essential component in urban development.

Each year, it recognises urban lighting projects that aim to bring a human aspect to the urban environment through light.

28 entries in 2015



## The award ceremony

The winners of the 13<sup>th</sup> edition of the city.people.light award were announced on the 25<sup>th</sup> of September 2015 in a ceremony during the LUCI Annual General Meeting in Helsinki, Finland.

## A look at the winning projects



### 1) First Prize: Avila (Spain)

The new lighting plan reinforces the city's outstanding cultural heritage and is based on a new lighting philosophy that considers four aspects: functional, architectural, commercial and festive lighting.

### 2) Second prize: Valenciennes (France)

A new lighting master plan, "Artistic escapes at twilight" that renovated 41 existing architectural lighting schemes and created 9 new spaces, bringing poetry and humour to the city's public space.

### 3) Third prize: Baia Mare (Romania)

A project that rehabilitates the city's Fortress Square to restore the memory of one of its most important monuments, the St. Stephen Church.



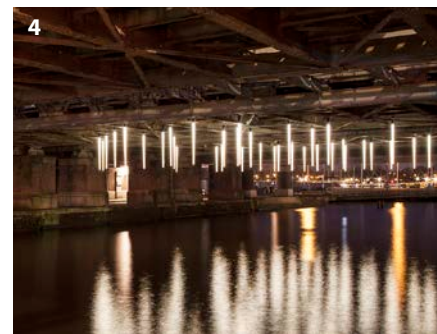
### 4) Special mention: Amsterdam (Netherlands)

A dodgy underpass beneath a railway bridge is illuminated with light art. "Hang in there" is based on a composition of 36 light beams hung above the water.

### 5) Special mention: Taipei (Taiwan)

The lighting concept of Treasure Hill highlights the practice of urban farming as a model that redefines the borders between nature and urban life.

**JURY MEMBERS:** Véronique Koulouris, Architecture and Lighting Design Advisor, Project Manager for the Lighting Plan, Commission de la Capitale Nationale du Québec / Ligia Subtirica, Chief Architect, City of Napoca / Hanneke Kijne, Co-owner and Landscape Architect, Hosper / Albert Dubler, Architect, President of the International Union of Architects / Michał Kaczmarzyk, Lighting Designer & Architect



Organised with: **PHILIPS**

## CITIES & LIGHTING

In 2015, two issues of **Cities & Lighting**, the international magazine published by LUCI, addressed key issues in the domain and presented urban lighting projects worldwide.



### Cities & Lighting n°2 focus on heritage lighting

- Issues dealing with lighting heritage sites around the world and different lighting cultures, from China to Japan to Mexico to France.
- Urban lighting in the International Year of Light 2015 according to the Chairman of the IYL 2015 Steering Committee
- A look at research on light for health and well-being in smart cities
- Lighting in developing countries with the United Nations Environment Programme



### Cities & Lighting n°3 focus on lighting master plans

- Drafting, implementing and renewing master plans – Budapest, Ghent, Jyväskylä, Lyon, Medellín, and Singapore.
- A look at LEDs in urban lighting from the perspective of Toulouse
- Light, art, safety and citizen participation in Gothenburg
- Back on site: Tallinn – 5 years after its City under Microscope

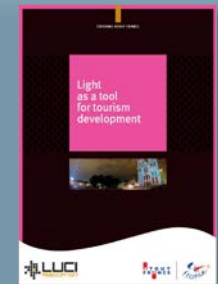
OTHER PUBLICATIONS

### LUCI, Cities in a New Light



105 pages – English – 2012

### Light as a Tool for Tourism Development



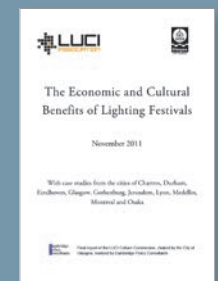
136 pages – English and French – 2012

### PLUS Review



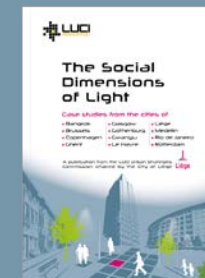
30 pages – English – 2012

### The Economic and Cultural Benefits of Light Festivals



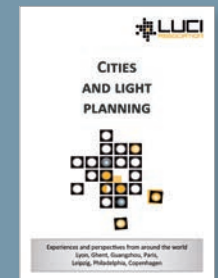
103 pages – English – 2011

### The Social Dimensions of Light



230 pages – English and French – 2011

### Cities and Light Planning



114 pages – English and French – 2010



## LUCI Website



- Average of over 2000 unique visitors per month
- Over 50 articles in the past year

## LUCI Newsflash

12 e-newsletters sharing internal news within the network



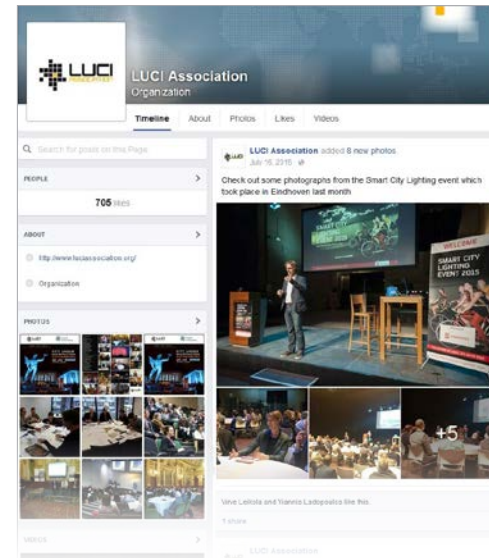
## Light Festival Calendar



The Light Festival Calendar is an online database listing light festivals by continent and providing key information (dates, organisers, artists involved, budget, etc.) on each.

- Over 40 light festivals
- 125 visitors per month

## LUCI Facebook page



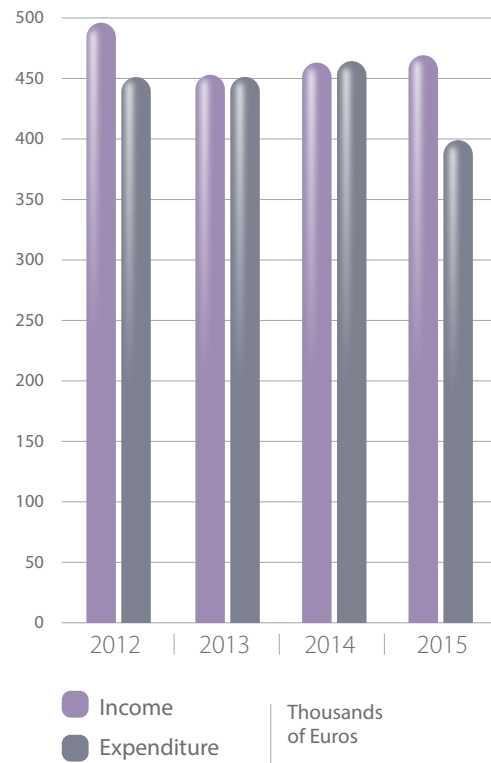
700 likes

LUCI members and activities promoted in the international print and online media such as Cities Today, Mondo Arc, LICHT, Architectural Lighting, Lighting Journal, lighttecture, illumini, lightzoomlumiere, Lyon Capitale, Juris arts, etc.

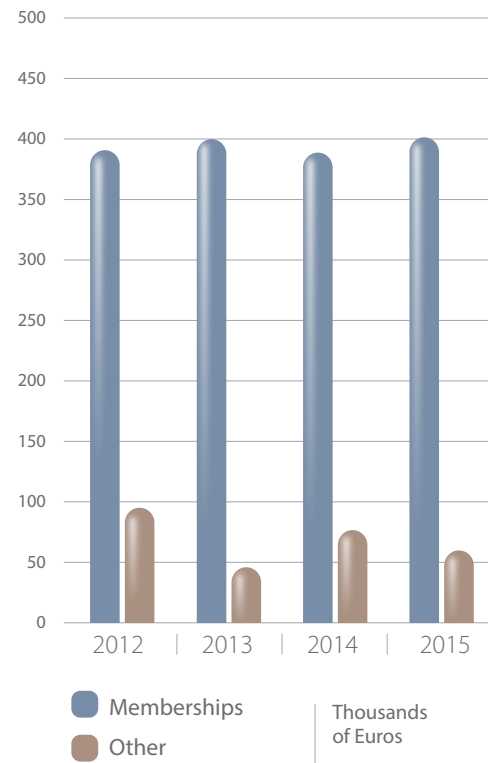




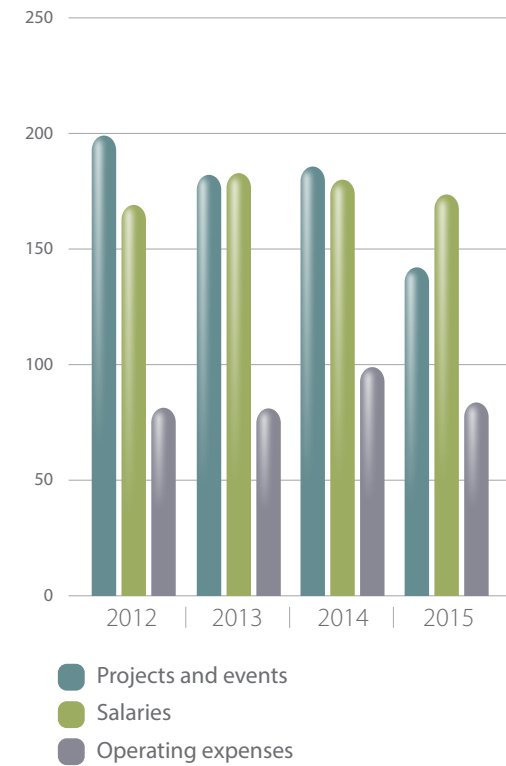
## Income and Expenditure



## Income



## Expenditure



# SAVE THE DATE!

## Main LUCI events in 2016



20 - 23  
April

**LUCI CITY UNDER  
MICROSCOPE  
GOTHENBURG**  
(SWEDEN)



2 - 6  
November

**LUCI ANNUAL  
GENERAL MEETING  
SEOUL** (SOUTH KOREA)



8 - 11  
December

**LUCI AT THE LYON  
LIGHT FESTIVAL**  
(FRANCE)



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- © city.people.light award  
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2) Valenciennes – CONCEPTO;  
3) Baia Mare – Mitru Ildiko;  
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[www.luciassociation.org](http://www.luciassociation.org)



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