

# CONNECTING CITIES WITH LIGHT



ANNUAL REPORT 2020

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# EDITORIAL



**Ms. Meri Lumela**  
President of LUCI  
Chair of the City  
Board, Jyväskylä

## ***In times of crisis, LUCI has proven to be more relevant than ever.***

*With a set of severe health, economic, social and cultural crises, lockdowns and curfews... 2020 has had an unprecedented impact on our lives, and the nightlife in our cities has been fundamentally affected. Cities have been through a number of unparalleled challenges. They have also shown great resilience and a capacity for cooperation, solidarity, and innovation.*

*This context has proven challenging for LUCI — just as it has for similar organisations focused on international cooperation — a network built year after year on face-to-face meetings and networking, and in situ experiences of urban lighting together. I am proud to say, with enormous efforts from all of us, we have managed to thrive as a network and continue growing. **Despite the circumstances, 2020 has been a brilliant year for LUCI!***

- ***Even in this tough year, LUCI managed to continue advocating for urban lighting in all its dimensions across the world.*** Our online events organised in 2020 have shown a massive engagement, gathering over 1 000 lighting professionals and city representatives from over 75 cities.
- ***Support and encouragements came from all corners of the network for our online working groups and the launch of an essential new service for our members, a major innovation for LUCI: the LUCI Hub online knowledge-sharing platform.***

- ***LUCI is now a host association to 120 members, the largest number ever.*** Cities, companies, and partner organisations are rallying from all sides, and this is important because the general message is: let's cooperate more and better if we want to be stronger for the future.

*In the future, LUCI will continue to offer more online events and digital connection capacities: they will not replace in person events but will complement the existing offer and will give new opportunities for members to exchange and cooperate. We will continue to do what we do best: connecting people, exploring new trends in urban lighting, building capacities and inspiring you all with light.*

*In these hard times, the value of our community (many refer to LUCI as a family) is clearer than ever. We cannot meet as we usually do, so we continue to invent new ways of exchanging. Sharing is at the core of LUCI, and **it is our strong belief that sharing ideas, information and experiences will be key to pulling through this crisis together.***

*We wish to thank you for the many encouragements that you have sent us in 2020 and throughout this crisis. For the LUCI Team and the Executive Committee of LUCI, I know these messages of support are precious and feed our energy to continue with our mission: **connecting cities with light.***



An aerial night photograph of the London skyline, featuring prominent skyscrapers like The Shard and The Gherkin, illuminated against a dark blue sky with some clouds. The city lights create a vibrant, textured background.

# LUCI NETWORK

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LUCI brings together municipalities across the world, committed to using light as a tool for sustainable development. These cities are joined by associated members, including lighting professionals, companies, and universities.

Through the organisation of international in-person and online 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.



# SUSTAINABLE URBAN LIGHTING FOR BETTER QUALITY OF LIFE IN CITIES

**The LUCI Charter on Urban Lighting marks the network's commitment to sustainable development.**

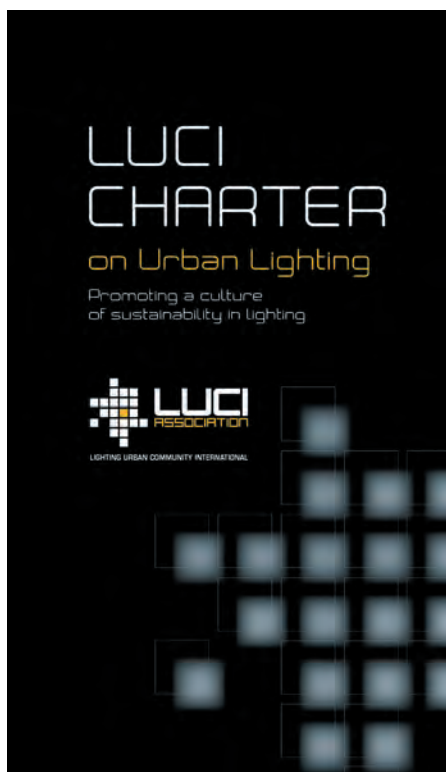
The Charter addresses challenges common to all, including: energy efficiency, improvement of the quality of life, reduction of light pollution, maintenance, recycling, the cultural and social dimensions of light. Above all, it provides a reference framework within which cities can develop their own sustainable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

The Charter is the product of contributions from more than 40 cities around the world. It was launched in September 2010, after over a year of work led within the network by the City of Leipzig (Germany).

By signing the LUCI Charter, cities commit to implementing public lighting policies that respect sustainable urban development.

The Charter has been translated and is available in four languages: FR/EN/DE/SP

See the list of over 60 cities that have signed or committed to sign the charter here [▶](#)



**The Strategic Plan sets out the LUCI mission and vision for years to come.**

It also explains the strategic orientations of the network, while creating a framework of Pillars for thematic programs. It covers the period 2017-2027 and will be reviewed after a mid-point evaluation in 2022.

“Cities of the world recognise that light makes a critical difference to our quality of life: it needs to be integrated as an intelligent main component in various aspects of their public policies.

To achieve this goal, LUCI works as a knowledge-exchange platform and nurtures international city-to-city cooperation on light and urban lighting.”

Mission and Vision from the LUCI Strategic Plan [2017 - 2027]



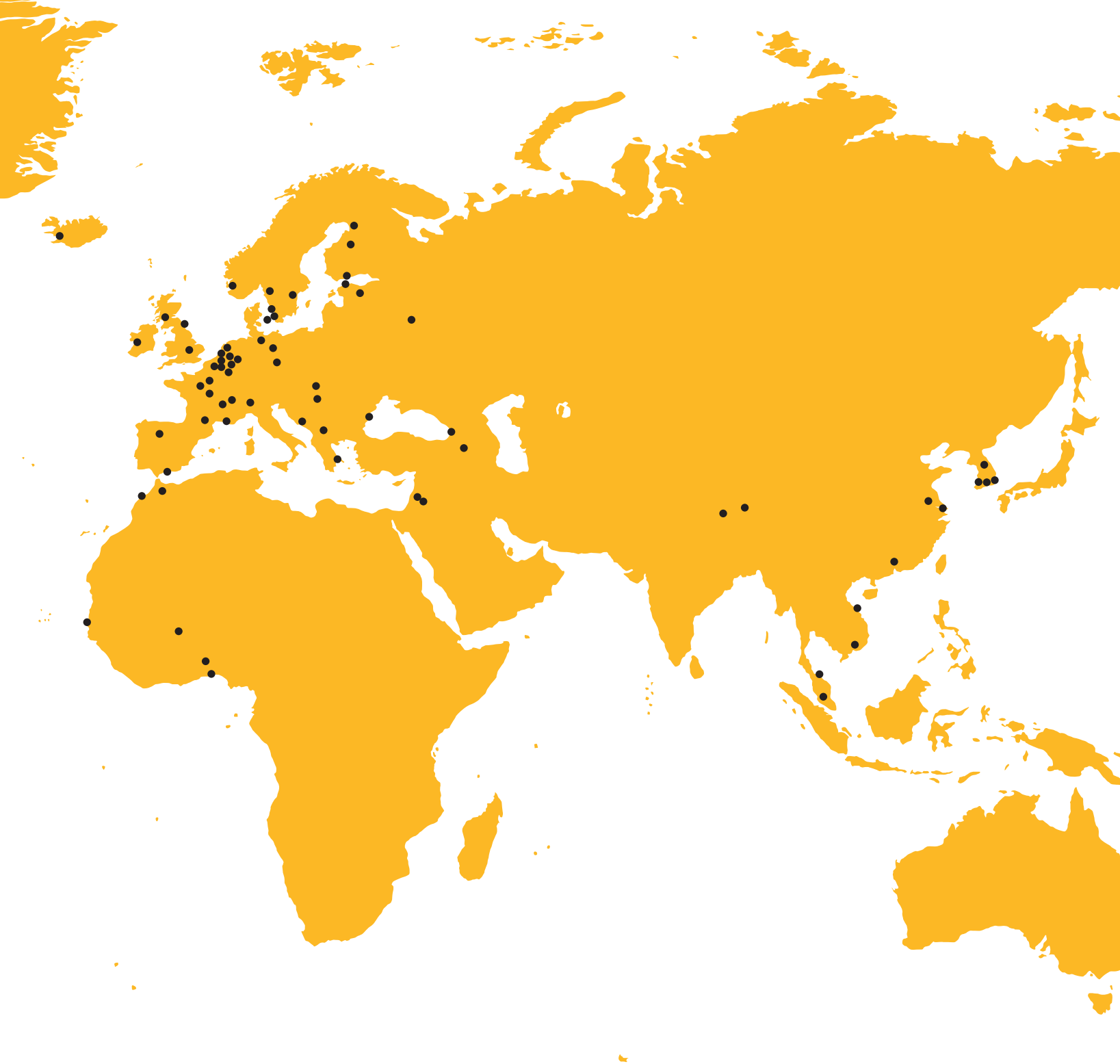
# LUCI MEMBERS

68 MEMBER CITIES

- › Abomey (Benin)
- › Agii Anargiri-Kamatero (Greece)
- › Albertslund (Denmark)
- › Amsterdam (The Netherlands)
- › Antwerp (Belgium)
- › Batumi (Georgia)
- › Bharatpur (Nepal)
- › Bourges (France)
- › Brussels-Capital (Belgium)
- › Budapest (Hungary)
- › Busan (South Korea)
- › Chartres (France)
- › Chefchaouen (Morocco)
- › City of London Corporation (United Kingdom)
- › Copenhagen (Denmark)
- › Dakar (Senegal)
- › Dubrovnik (Croatia)
- › Durham (United Kingdom)
- › Eindhoven (The Netherlands)
- › Galway (Ireland)
- › Geneva (Switzerland)
- › Ghent (Belgium)
- › Glasgow (United Kingdom)
- › Gothenburg (Sweden)
- › Guangzhou (China)
- › Gwangju (South Korea)
- › Hamburg (Germany)
- › Helsingborg (Sweden)
- › Helsinki (Finland)
- › Ho Chi Minh City (Vietnam)
- › Hue (Vietnam)
- › Jericho (Palestinian Territories)
- › Jinju (South Korea)
- › Jyväskylä (Finland)
- › Leipzig (Germany)
- › Liège (Belgium)
- › Linköping (Sweden)
- › Lyon (France)
- › Malaga (Spain)
- › Marseille (France)
- › Medellin (Colombia)
- › Moscow (Russia)
- › Nanjing (China)
- › Novi Sad (Serbia)
- › Ouagadougou (Burkina Faso)
- › Oulu (Finland)
- › Paris (France)
- › **Porto-Novo (Benin)**
- › Putrajaya (Malaysia)
- › Rabat (Morocco)
- › Ramallah (Palestinian Territories)
- › Reykjavik (Iceland)
- › Rotterdam (The Netherlands)
- › Seoul (South Korea)
- › Shanghai (China)
- › Skopje (Macedonia)
- › Stavanger (Norway)
- › Strasbourg (France)
- › Tallinn (Estonia)
- › Tarakeshwor (Nepal)
- › Tartu (Estonia)
- › Taxco de Alarcón (Mexico)
- › Toulouse (France)
- › Turin (Italy)
- › Valladolid (Spain)
- › Varna (Bulgaria)
- › Yala (Thailand)
- › Yerevan (Armenia)

\* New members in bold





## NEW LUCI MEMBER CITY PORTO-NOVO (BENIN)



The Municipality of Porto-Novo, capital of Benin, is located on the edge of Lake Nokoué and is characterised by its young population of 223 000 inhabitants. Porto-Novo, a UNESCO Creative City, is a cultural, touristic, and historical city open to the world, whose relics of the past are still present.

State support allows the city of Porto-Novo to strengthen its initiatives in the field of urban lighting, to provide safety and well-being to its citizens. These actions are consistent with the vision of the new administration, chaired by the mayor, Mr. Charlemagne YANKOTY.

Today, the city is undergoing major public works, with the deployment of new roads equipped with lighting infrastructure. The ultimate objective is the replacement of conventional streetlights with solar LED streetlights. Additionally, public squares and other important public spaces will be equipped with intelligent solar streetlights.

Additional public lighting will be deployed and reinforced in the neighborhoods of the city of Porto-Novo.

Discussions are also underway for the implementation of a festival dedicated to sound and light, inspired by Lyon's Fête des Lumières, a partner city of Porto-Novo.



52

## ASSOCIATED MEMBERS

\*New Members



› France



› Belgium



› France



› The Netherlands



› United Kingdom

## 47 ASSOCIATED MEMBERS



› Italy



› Portugal



› France



› Russia



› The Netherlands



› United Kingdom



› United Kingdom



› Germany



› France



› France



› Finland



› France



› France



› United Kingdom



› Canada



› France



› China



› Canada



› France



› Germany



› Denmark



› The Netherlands



› Finland



› China



› The Netherlands



› United Kingdom



› United Kingdom



› Switzerland



› China



› France



› South Korea



› China



› France



› Germany



› France



› Belgium



› Germany



› United States



› Portugal



› Belgium



› France



› China



› France



› Belgium



› United Kingdom



› Russia



› United Kingdom



# LUCI PILLARS

The LUCI Pillars are the thematic building blocks for the organisation as defined by the LUCI Strategic Plan [2017-2027].

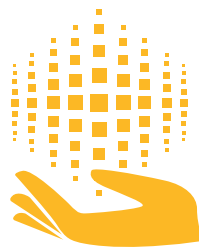
The LUCI Pillars reflect some of the main challenges faced by cities today and the potential solutions that an optimal use of light can bring: Health & Wellbeing, Public Spaces, Social Cohesion, Art & Culture, and Governance.

The Pillars are spaces where each member of the network can be involved: platforms designed to develop collaborative initiatives and projects within LUCI. The LUCI Pillars aim to be catalysts for innovation and creativity.

Members are involved in specific working groups within the pillars to dive deeper into a topic or to work together on a specific project.

The activities within each Pillar are rooted in LUCI's transversal approach to urban lighting based on the guidelines of the LUCI Charter, mainly:

- > Sustainable lighting as a working culture
- > Limitless opportunities with innovative and smart technologies in lighting
- > Citizen-focused lighting



## HEALTH & WELLBEING

**Ensuring health and wellbeing of each citizen is a fundamental priority of every city.**

The non-visual impacts of light at all hours can affect our mood, behaviour and our circadian rhythm. Light pollution can have negative impacts on human wellbeing and biosphere. With innovative lighting solutions, cities can improve the lives of citizens, for example, in schools or nursing homes. The right indoor and outdoor lighting contributes to providing people with healthy, secure and comfortable environments.

### • Objectives and activities

The objective is to gather and share existing practices, initiatives, and experience within cities. We would like to spark international discussion within LUCI members on the importance of these issues and build upon this expertise to develop our common knowledge.

### • Leaders and partners

The City of Albertslund (Denmark) is the co-leader of this pillar.

**At LUCI, we believe that light can act as a major stimulus to help cities address issues related to health & wellbeing and mitigate the negative side-effects of modern daily life.**

### ONLINE EVENT



In this year dominated by health-related challenges for communities across the world, light and health have often been associated to assess the impact of COVID-19 on cities. As part of the LUCI Asia Urban Lighting Workshop, Mr. Eun-Il LEE - professor at the department of preventive medicine from the College of Medicine at the Korea University - presented about “Urban Lighting and Circadian Rhythm with Endocrine Disruption Effects by Light at Night”. This presentation highlights research in the field of circadian rhythms, endocrine disruptive effects, and urban lighting for human health.

[Watch the session here](#) ➡

### COOPERATION PROJECT

Submitted in June 2020, the ENLIGHTENme project has been awarded a grant by the European Union H2020 Research and Innovation Framework Programme. It will start in March 2021.

(see p. 28)







# PUBLIC SPACES

Public spaces are the beating heart of the city. They are the spaces where people, inhabitants and visitors alike, experience the city, its architecture and its infrastructure.

Developing good lighting policies for public spaces has the power to enhance urban structures and areas. It can create distinctive ambiances and nightscapes. Light can help citizens to navigate the spaces they inhabit or visit and can be a powerful tool to support smart and environmentally-friendly mobility. It can contribute to an attractive, functional and secure living environment, and boost identity and experience for residents and tourists.

## • Objectives and activities

LUCI seeks to advance our common knowledge of the role of light in public spaces by creating innovative tools to enhance the exchange of information on this topic.

## • Leaders and partners

This pillar is led by the City of Jyväskylä (Finland) and co-led by the City of Seoul (South Korea) and Glasgow (United Kingdom)

At LUCI, we believe that light can be the enabler of new applications and services in the public space, and it can even help reconstruct the notion of public space itself.

## ONLINE EVENT

In the October and December editions of the LUCI Coffee Bre@ks (LUCI's new online monthly network meetings for LUCI members, [see p.16](#)), public spaces have been the centre of attention, with focus on the new lighting of the Sint Baaf's Cathedral in Ghent and the Winter Holiday Lighting in Liège.



## PILLAR WORKING GROUP



In June, participants from 8 member cities gathered online to discuss the long-term impacts of the COVID-19 situation on public spaces and lighting policies in their cities. The working group has also developed a survey to capture recent lighting projects that have an impact on public spaces; these projects will be turned into case studies to be included on the LUCI Hub and shared more widely via the LUCI website.

## COOPERATION PROJECT

One of the objectives of the EU project Lucia - Lighting the Baltic Sea Region is to provide decision-makers and experts of the Baltic Sea Region with state-of-the-art lighting knowledge, covering aspects of environment, technology, economy, social acceptance, urban planning and green public procurement. In 2020, the project delivered important information in the form of factsheets and a compendium. Pilot sites in 5 cities have made great progress to transform urban spaces in a sustainable and co-creative way. ([see p.26](#))

**LUCIA**



## SOCIAL COHESION

**In order to nurture social interaction, people and places should be connected throughout the city.**

In today's increasingly digitised societies, light can encourage people to identify with each other as users of the same city and interact in the space around them, especially during nighttime. Light contributes to bonding people and bridging gaps regardless of age, ethnicity, gender, religion, level of income, etc. Freely and equally accessible light can also improve quality of life throughout the entire city. Citizen participation and interaction are a major goal in the management of local public policies to enable a user-focused city. Urban lighting can help to foster social cohesion by concretely involving communities.

### • Objectives and activities

The activities in this pillar explore how light can support community engagement, urban regeneration and placemaking processes. We favour innovative learning methods to develop ideas and solutions in a participatory approach.

### • Leaders and partners

This pillar is led by the City of Glasgow (United Kingdom) and co-led by the cities of Gothenburg (Sweden) and Seoul (South Korea).

**At LUCI, we believe that light is an enabler of urban regeneration and social sustainability, and that it is a powerful and creative tool for citizen participation.**



### OPEN CALL

#### SHARE YOUR PROJECTS LINKING LIGHT AND SOCIAL COHESION

Do you use light as a creative tool for citizen participation and community engagement or for supporting urban regeneration and placemaking processes? Share your projects with the working group via the members-only [LUCI Hub](#) ➡

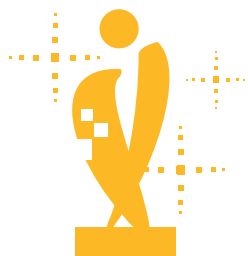


### PILLAR WORKING GROUP

The Social Cohesion working group held an online meeting in June 2020, gathering representatives from 10 cities. Participants discussed the impacts of COVID-19 social distancing in their cities and on their work. The working group continues to collect city case studies and project examples in order to better understand the different processes and impacts linking light and social cohesion.

### SOCIAL COHESION ON THE LUCI HUB

All LUCI members now have a new online space dedicated to their questions or projects on the topics of urban lighting, citizen participation and urban regeneration: the Social Cohesion Space in the Hub was opened in 2020.



# ART & CULTURE

**Art is an essential driving force that inspires urban leaders to develop their city and to deliver diversity to the culture and identity of the city.**

Both permanent urban lighting and light festivals can help cities showcase urban creativity. Light becomes a playful material for all, a tool to explore people's needs and dreams for their own city. Light combined with art reinforces the cultural identity of a city and is a clear asset to any urban lighting strategy.

## • Objectives and activities

The main goal is to open the field of creative lighting to new artistic forms in both permanent and festival lighting.

The activities in this Pillar will explore how a co-creation approach can be implemented among the members of the network for example, through structured exchange and peer-to-peer capacity building sessions.

## • Leaders and partners

The City of Lyon (France) is the leader of this pillar. The City of Gothenburg (Sweden) is the co-leader of the pillar.

**At LUCI, we believe that light can be a tool to promote art and culture in the urban space and transform the way we live and experience our cities.**

## PILLAR WORKING GROUP

Participants from 9 member cities met online in June as part of the Art & Culture Pillar working group to discuss the impacts of the COVID-19 crisis on creative lighting in their cities. Work continues on the Light & Art Map, which now includes 45 projects from 11 cities and continues to expand.



## LIGHT FESTIVAL DISCUSSION

The COVID-19 situation had a major impact on light festivals: most festivals were either cancelled or postponed. 7 member cities came together in July for an online discussion to exchange on how light festivals can best adapt to the evolving situation, from budgeting and contracting issues to scaling down to more local “cosy” festivals for residents.

## COOPERATION PROJECT

LUCI and its project partners (City of Lyon, City of Oulu, City of Turin) have been awarded a Creative Europe grant for the project Light & Art in Public Spaces (LAiPS), starting December 2020. (see p. 27)

Co-funded by the  
Creative Europe Programme  
of the European Union



## ONLINE EVENT

Discussions about the COVID-19 impacts on light festivals led to the expansion of the topic during the [Lyon Light Festival Forum 2020](#), as well as a panel discussion about the “Evolution of creative lighting to reimagine cities”. LLFF2020 also featured 12 Pecha Kucha presentations on creative lighting projects from around the world. (see p. 20)







# GOVERNANCE

**Local governments are in the best position to frame and manage a number of public services that increasingly need to be user-focused.**

Cities are at the heart of innovation, procurement, implementation, maintenance and evaluation of effective lighting strategies. They are in a process to better understand the implications of new lighting technologies, and develop with all their partners inclusive, balanced and effective strategies for their citizens. Governance issues focus on lighting to increase the quality of life and smart lighting strategies as meaningful solutions to transform cities.

## • Objectives and activities

Our objective is to encourage a worldwide discussion about governance of lighting in cities in order to foster an open and transversal dialogue around these topics. We will explore, develop and help cities deploy new strategies based on local experiences and with the engagement of public and private stakeholders.

## • Leaders and partners

The City of Eindhoven (The Netherlands) is the leader of this pillar. The City of Lyon (France) is the co-leader of this pillar.

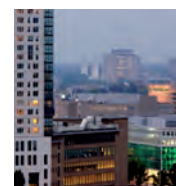
**At LUCI, we believe that light is a major opportunity for cities to develop multiple helix partnerships that aim at creating societal added value.**



## PILLAR WORKING GROUP

Participants from 10 member cities and associated members came together in June 2020 for an online working group meeting to discuss how cities are adapting to the COVID-19 crisis. The group discussed how light can be an important, sustainable, smart city asset and how technological innovation can bring added societal value to cities. The purpose of the meeting was also to work together on the development of a White Paper on smart urban lighting.

## COOPERATION PROJECTS



The White Paper on smart urban lighting is developed with the support and in the framework of the EU “Smart-Space” project, an Interreg North-West Europe project. An expert was recruited in October 2020 to support the process and writing of the White Paper, as an exercise of collaboration rooted in city-to-city discussion. (see p.25)



The LUCI Publication “Exploring City Nightscapes” was produced by LUCI in collaboration with the City of Lyon with the support of the EU ROCK project. Interviews from 12 cities worldwide bring together different approaches and common challenges linked to developing and governing nightscapes. (see p. 34)



# LUCI EVENTS

LUCI offers spaces for cities to exchange experience and know-how by organising events, conferences and meetings around the world. Despite the COVID-19 context in 2020, members were still able to connect and exchange with each other in new and engaging ways thanks to the shift to online events.

## **LUCI Coffee Bre@ks**

The 2020 context was an opportunity to create a new event format for connecting members together despite the challenges of not being able to meet in person. The LUCI Coffee Bre@ks are now the monthly rendezvous for members to connect online around an urban lighting topic.

## **LUCI Annual General Meeting**

The LUCI Annual General Meeting (AGM) is the international forum for cities on urban lighting. It brings together the members of LUCI for its General Assembly

as well as conferences, working group meetings, open conference sessions and the discovery of the host city and its lighting strategy. In 2020, the AGM was transformed into an online General Assembly paired with a webinar about the LUCI publication “Exploring City Nightscapes”.

## **City under Microscope**

A City under Microscope (CM) enables participants to discover the lighting strategy of a member city over a two-day period. It includes field visits and technical conferences

on urban lighting projects. A chance to experience a city in its best light! The CM Stavanger planned for 2020 was postponed to 2021.

## **Lyon Light Festival Forum**

The Lyon Light Festival Forum (LLFF) brings together city representatives, artists and other lighting professionals. The aim is to discuss the issues related to event and creative lighting, with a mix of plenary conferences and short “pecha kucha” style presentations. The 2020 version of LLFF was transformed into an online event, with panel sessions, many more pecha kuchas,

and speed-networking opportunities.

## **LUCI Asia Urban Lighting Workshop**

The LUCI Asia Urban Lighting Workshop (LAULW) is a regional LUCI event organised with the LUCI Regional Office in Asia, based in Seoul. It provides a platform for public lighting decision-makers from the region to exchange information and practices on the benefits and challenges of sustainable urban lighting. The 2020 edition of the LAULW took place entirely online.



# INTRODUCING THE LUCI COFFEE BRE@KS

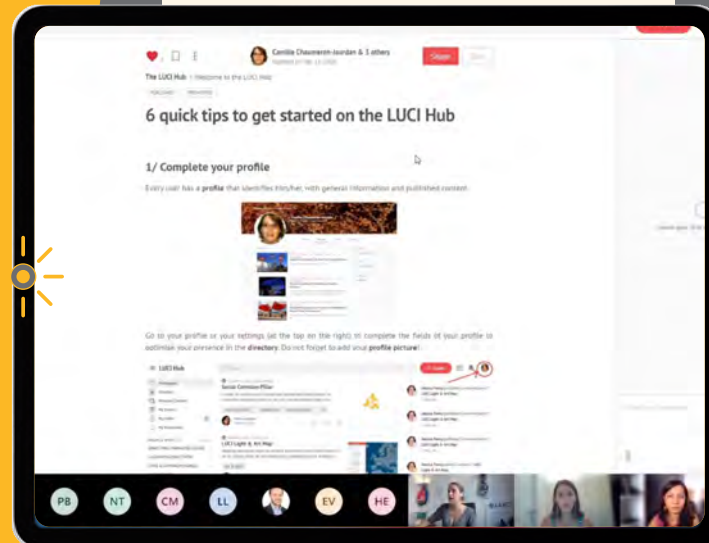
LUCI quickly adapted to the COVID-19 situation and switched to hosting digital events. In order to keep engaging with LUCI members, offering high quality learning experiences and maintaining the atmosphere of the much loved “LUCI Family”, we created the LUCI Coffee Bre@ks.

They are a series of exclusive monthly rendezvous. These short, convivial moments are an opportunity for members to stay in touch and hear from experts on a variety of urban lighting topics.

## SEPTEMBER 2020: LUCI HUB KICK-OFF

The first LUCI Coffee Bre@k was the occasion to help kick off the opening of the **LUCI Hub**, the new members-only online knowledge-sharing platform. The LUCI team gave a quick tour of the LUCI Hub and members were able to connect over a cup of tea or coffee.

*21 participants representing 8 cities  
+ 8 Associated Members*



## OCTOBER 2020: LIGHTING SINT BAAF'S CATHEDRAL IN GHENT

During this Coffee Bre@k, LUCI members learned about the illumination of Sint Baaf's Cathedral in Ghent. Bart Peeters from the **City of Ghent** and Sarah Halin from **Radiance 35** shared details about this project, starting from the city's specifications and expectations, through to the lighting design conception, and its execution and maintenance.

*20 participants representing 9 cities + 4 Associated Members*





## NOVEMBER 2020: MEET THE NEW LUCI PRESIDENT

This Coffee Bre@k was the opportunity to meet the new President of LUCI, the **City of Jyväskylä**, elected by member cities during the Network's General Assembly.

The new President's vision and plans for LUCI for the next two years was revealed.

*24 participants representing 9 cities + 4 Associated Members*



## DECEMBER 2020: WINTER HOLIDAY LIGHTING

This Coffee Bre@k session explored winter holiday lighting initiatives with the **City of Liège**, European Capital of Christmas 2018, and lighting manufacturer **Blachere Illumination**. LUCI members shared photos of their own city's holiday lighting for a convivial end-of-year exchange.

*20 participants representing 10 cities + 5 Associated Members*



## LUCI MUG SELFIE CHALLENGE

In October 2020, the LUCI team launched a fun and convivial selfie challenge for LUCI members: they were asked to submit a photo of themselves with their own coffee cups to get a chance to win a LUCI-branded mug.

*Send us your selfie to receive your own LUCI mug!*



LUCI Members can watch or re-watch the LUCI Coffee Bre@k sessions and have access to the presentations on the LUCI Hub. ➤

# LUCI GENERAL ASSEMBLY

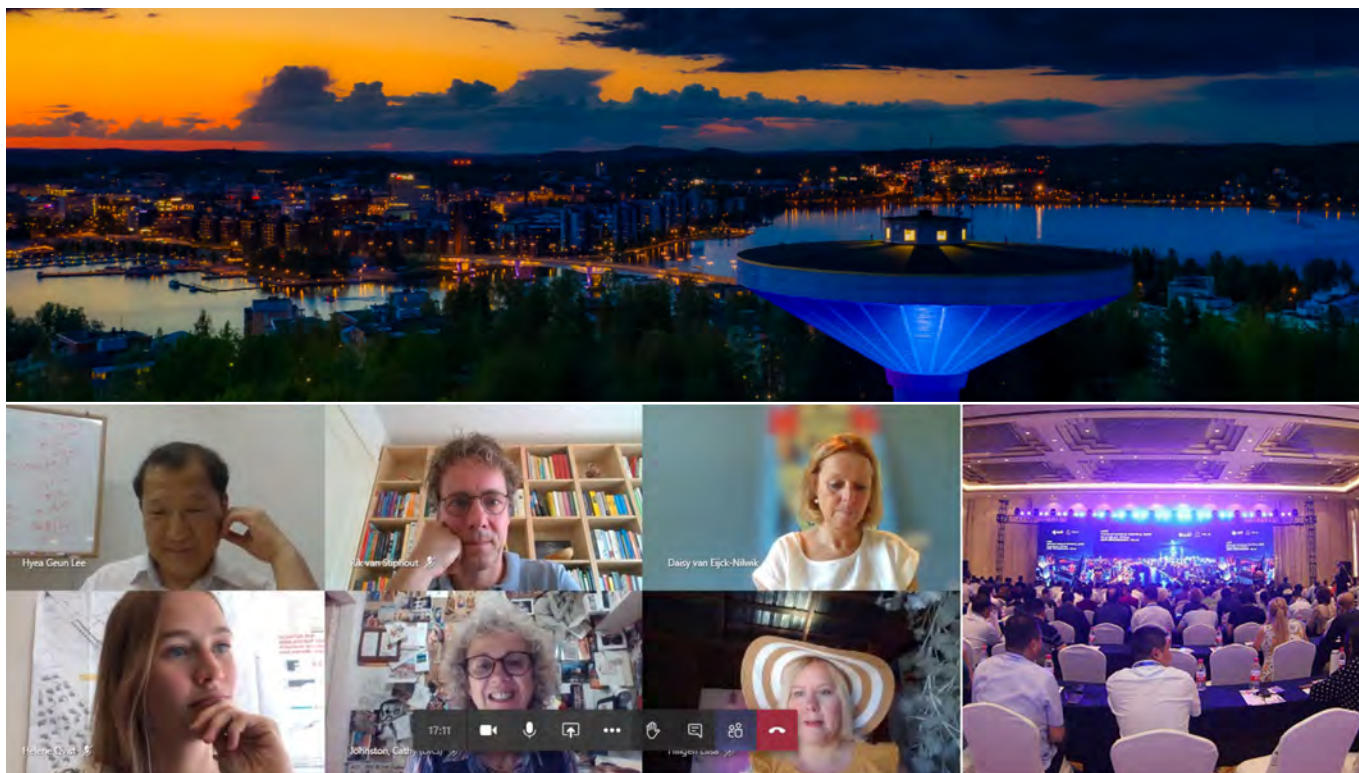
9 NOVEMBER

An essential moment of the network's life, the LUCI General Assembly was held online for the first time.

Over 75 participants representing 29 member cities and 20 associated members from around the world were present to reflect on the past and upcoming activities of LUCI.

This year's General Assembly was also the occasion for members to vote for the renewal of the LUCI Executive Committee. They elected a new LUCI President, Vice-Presidents and Treasurer. (see p.35-36)

The day also featured a webinar introducing LUCI's new publication, **Exploring City Nightscapes**. Over 90 participants from the LUCI network and beyond joined this online session featuring a discussion with the cities of Amsterdam, Antwerp, City of London, Lyon and Jyväskylä with some insights on developing their luminous landscapes or "nightscapes". (see p.34)





# LUCI ASIA URBAN LIGHTING WORKSHOP

2 - 3 NOVEMBER

Organised by Seoul Metropolitan Government (SMG) and LUCI, this workshop, held online for the first time, was the opportunity to continue the joint development of urban lighting in Asia.

In a year during which the world underwent various challenges due to COVID-19, the 2020 LUCI Asia Urban Lighting Workshop sought to reflect on new directions for urban lighting in future years. It aimed at helping cities accelerate sustainable development while improving quality of life.

Focusing on the theme “The role of urban lighting in the ‘new normal’ era and smart lighting in Asia”, the event gathered over 300 participants from cities from around the world to participate in a new hybrid online format to exchange experiences with colleagues from Asia.

Expert speakers from cities in Asia and beyond, such as Agra, Busan, Budapest, Helsinki, Incheon, Kyoto, Singapore, Seoul and more, shared their visions on urban lighting in the new normal, light and health, and smart lighting for the future.

## EVENT AT A GLANCE

- 300 participants
- 53 cities officially represented
- 5 keynotes and 12 presentations
- 4 thematic sessions

A special highlight of this year included several scientists and researchers from Korean universities sharing their studies on urban lighting and health, paving the way for a discussion on the needs for urban lighting in the new normal.

Missed the event?  
Watch or rewatch the  
presentations here [▶](#)





# LYON LIGHT FESTIVAL FORUM

7 - 9 DECEMBER



In December 2020, LUCI and the City of Lyon organised a fully online edition of the Lyon Light Festival Forum (LLFF). As lockdowns and social distancing have kept us away from public spaces and from each other, the event presented powerful visions for light in the city.

## EVENT AT A GLANCE

- 400 participants
- 46 cities officially represented
- 24 speakers
- 2 Conference Sessions
- 12 Pecha Kucha presentations
- Speed networking opportunities



## The evolution of creative lighting to reimagine cities

This panel featured elected representatives from the City of Lyon and the City of Sydney, as well as the Illuminated River Foundation, an associated member of LUCI. A key message was the need to embrace the creative potential of darkness to reimagine the urban nighttime. Speakers called on other cities to harness not only the power of light, but also of shadows, to create unique nocturnal identities. They showed several examples of how creative light can be used to elevate public spaces, and the crucial role it plays in sustaining a nighttime economy and reclaiming the city as a people-focused place.

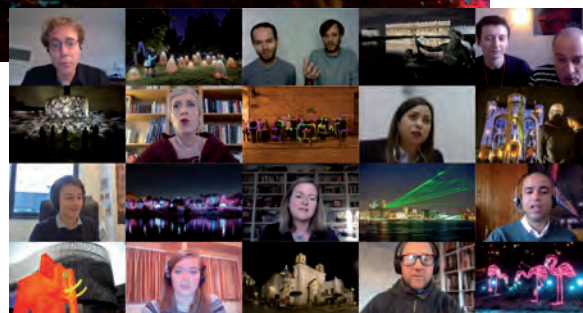






## The transformation of light festivals to adapt to the new normal

Participants heard from the organisers of four renowned light festivals: City of Light (Jyväskylä), Fête des Lumières (Lyon), GLOW (Eindhoven), and Lichtfestival (Ghent). In a particularly complex year, they all displayed a great breadth of creativity. The organisers shared about the process behind remaking their festivals into solidarity-focused community events, or unique city-wide artworks. There is no doubt that the creativity born out of these challenges will endure. The discussions between the speakers and the audience made clear that the “new normal” of COVID-19 is a chance to rethink the sustainability of festivals in the face of climate change and of shifting political perspectives.



## 12 Pecha Kucha presentations on creative lighting projects

For the third year in a row, and despite the transition to an online event, sessions of Pecha Kucha-style presentations highlighted some of the latest projects in the field of creative lighting. Speakers came from Belgium, Colombia, Canada, France, the Netherlands, North Macedonia, Mexico, and the UK. 5 LUCI member cities and 6 associated members presented innovative artworks, new festivals, and community-based experiences. Lively Q&As, held through chat messages, made for interesting exchanges with the audience.



## Creating opportunities to meet, learn, and exchange

Several moments of the 3 days of the LLFF 2020 were dedicated to interactions between participants:

- 
 • A “speed-networking” feature of the event platform allowed for close to 200 one-on-one meetings;
- 
 • In the Expo zone, 7 booths provided information and material on creative lighting curated by LUCI and the event partners.
- 
 • Many joined in for a socially distanced group photo... on Zoom!
- 
 • Attendees also had the opportunity to participate in the Together Through Light initiative by sending photos of their own “lumignons”: small candles set on the windowsills, reminiscent of the important tradition during the Fête des Lumières in Lyon.

## Missed the online event?

You can view recordings of the sessions here: [www.luciassociation.org](http://www.luciassociation.org)  
LUCI members can view all presentations from LLFF2020 on the [LUCI Hub](#).

# THE VOICE OF LUCI ON URBAN LIGHTING

Through partnerships and invitations to take part in various events throughout the world, LUCI shares knowledge and experiences from the network, and helps to raise awareness on urban lighting issues.

## CICAT “Llum i Emocions” Congress BARCELONA, SPAIN

14 FEBRUARY 2020



Organised by CICAT, the Spanish Lighting Cluster, in conjunction with the Llum BCN light festival, the “Llum i emocions” congress featured presentations and panel discussions regarding how light influences human emotions. LUCI Programme Manager Jessica Ferey presented the various ways LUCI cities around the world are using creative lighting – both permanent and temporary – to enhance public spaces in addition to how light can impact people’s emotions and perceptions of a space.

## IES – Light for Life ONLINE

27 JULY 2020



Organized by the IES (Illuminating Engineering Society) in partnership with LUCI, the webinar “Light for Life” featured lighting designer Leni Schwendinger who presented on the topic “The Collaborative Night: Where Light and Cities Meet.” Leni shared about the benefits of city-to-city cooperation to share research, experience, best practices, and precedents for better illumination after dark.

## Turin — Luci d’Artista Inauguration ONLINE

28 OCTOBER 2020



LUCI provided welcoming remarks for the virtual opening of the annual Luci d’Artista light festival in Turin, Italy.





# LUCI PROJECTS

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

Whether by piloting research on some of the key issues on urban lighting or creating opportunities for city-to-city cooperation projects, LUCI offers tools for cities and lighting professionals to progress together towards a better and more sustainable use of light.

# ROCK

EUROPEAN PROGRAMME  
H2020

PROJECT BUDGET

10.6 Million €  
including 9.87 Million € EU  
contribution

LUCI budget 48 125€

32 PARTNERS

Including: 10 cities,  
7 universities, 3 networks  
of enterprises, 2 networks  
of cities, several companies  
and development agencies,  
a foundation and a charity.

In this project, LUCI is linked  
third party to the City of Lyon.

DURATION

May 2017 - December 2020



*This project has received funding  
from the European Union's Horizon  
2020 research and innovation  
programme under grant agreement  
No 730280*

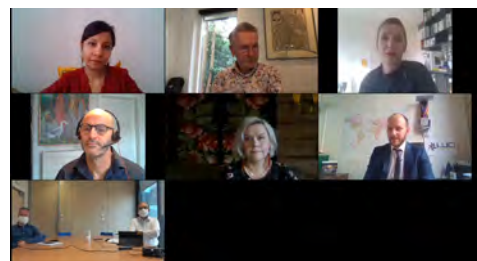
## ROCK PROJECT

The ROCK project developed an innovative, collaborative and systemic approach for regeneration and adaptive reuse of historic city centres.

Finalised in December 2020, the ROCK (Regeneration and Optimisation of Cultural heritage in creative and Knowledge cities) project focused on historic city centres as laboratories to demonstrate how cultural heritage can be an engine of regeneration, sustainable development, and economic growth for cities.

The project involved 7 Role Model Cities (Athens, Cluj-Napoca, Eindhoven, Liverpool, Lyon, Turin, Vilnius) and 3 Replicators Cities (Bologna, Lisbon, Skopje), which are engaged in using cultural heritage as a driver for urban growth, sustainability and social inclusion in their political agenda.

LUCI was involved in ROCK as third linked party to the City of Lyon to explore how cities can create better urban lighting governance structures that ensure quality lighting.

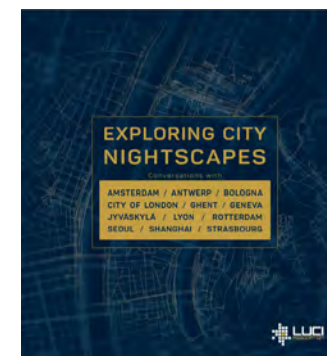


### Publication - "Exploring City Nightscapes"

In 2020, LUCI released the publication "Exploring City Nightscapes", the fruit of some of the work on urban lighting governance conducted by LUCI within the framework of the ROCK project. The book brought together conversations with urban lighting decision-makers from 12 cities – Amsterdam, Antwerp, Bologna, City of London, Ghent, Geneva, Jyväskylä, Lyon, Rotterdam, Seoul, Shanghai and Strasbourg. The interviews in this publication contribute to a better understanding of the different approaches to developing nightscapes worldwide. They also encourage a global conversation on the governance of city nightscapes. ➡

### Exploring City Nightscapes Webinar

On 9 November 2020, LUCI also organised a webinar focusing on this new publication. 90 participants from the LUCI network and beyond joined this online session featuring a discussion with some of the cities featured in the book. Speakers from Antwerp, Amsterdam, the City of London, Jyväskylä and Lyon shared their insights, key challenges and main lessons learned as they build their city nightscapes. The discussion highlighted not only the diversity of these cities' approaches, but also their commonalities.







EUROPEAN PROGRAMME  
INTERREG North-West Europe

PROJECT BUDGET  
5.73 Million €, including  
3.44 Million € EU contribution  
LUCI budget 183 068 €

11 PARTNERS  
4 cities:  
Ostend (BE) - Lead Partner,  
Middleburg (NL),  
Sint Niklaas (BE),  
Tipperary (IE)  
4 universities or research centres,  
2 companies & LUCI

DURATION  
May 2018 - December 2021

## SMART-SPACE PROJECT

### SMART SUSTAINABLE PUBLIC SPACES ACROSS THE NWE REGION

Led by the City of Ostend, the SMART-SPACE project brings together end-users, research and market parties to jointly facilitate the uptake of smart lighting technologies in order to reduce energy consumption and CO<sub>2</sub> emission across the North-West Europe Region (NWE).

#### Developing a smart lighting system

Despite challenges due to COVID-19, in 2020, with 8 partner meetings held online, discussions regarding the co-development of the smart lighting system continued. The system aims to be interoperable and adaptable to the needs of various municipalities and their citizens. The four partner cities have planned and started the execution of their pilot sites.

#### White Paper on Smart Urban Lighting

As part of the project, LUCI started working with Philip Ross, an expert who will help write the White Paper on smart urban lighting. The aim of this policy white paper is to provide local policy makers with information on smart lighting developments in the general smart



city context, to help them understand the various angles of this complex issue and ask themselves the right questions in order to take “enlightened” decisions for their cities.

#### The long-term impact of the project

One of the aims of the SMART-SPACE project is to assess the long-term potential for the implementation of smart lighting by evaluating its applicability and performance in other contexts, especially small and mid-sized cities. In 2020, LUCI continued working on further development of the Smart-Space Knowledge Centre with the project partners. Harbored in the

LUCI Hub, it gathers and delivers knowledge on urban lighting especially for North-West Europe cities. It enables partners, follower cities and other experts to find and share resources about common issues, to collaborate on questions and future trends of lighting, including issues like citizen involvement, smart lighting, sustainability strategies and challenges of pilot sites. It also enables lighting professionals to network and get to know each other better, which is essential in these times.

[More information on the project website here](#) ➡

# LUCIA PROJECT

## LIGHTING THE BALTIC SEA REGION



**EUROPEAN PROGRAMME**  
INTERREG Baltic Sea Region

**PROJECT BUDGET**  
3.12 Million €, including  
2.17 Million € EU contribution  
LUCI budget 92 000 €

### 11 PARTNERS

7 municipal and regional public authorities: Hamburg (DE) - Lead Partner, Albertslund (DK), Gothenburg (SE), Jūrmala (LV), Porvoo (FI), Riga Planning Region (LV), Tallinn (EE)  
2 universities, 2 expert partners

Following a successful tender, LUCI has been accepted as a support organisation to Gothenburg

### DURATION

January 2019 - September 2021

**The Lucia - Lighting the Baltic Sea Region project helps municipalities in the region to unlock the potential of energy efficient urban lighting solutions.**

The Lucia project provides decision makers and experts with state-of-the-art lighting knowledge, covering aspects of environment, technology, economy, social acceptance, urban planning and green public procurement.

### New lighting solutions for cities

Urban lighting plays an important role in the city design in the Baltic Sea region. In fact, 60% of the overall energy consumed in urban areas is attributed to street lighting and other urban lighting. Modern LED lighting has energy savings potential of 50% compared to conventional systems. Other functionalities, such as an automatic adjustment of luminosity, additionally raise that potential. The Lucia project introduces such lighting solutions into urban planning, and thereby helps municipalities reduce energy consumption.

### Sharing within the “BSR Peers Forum”

In 2020, LUCI continued working on further development of the Lucia Knowledge Centre with the project partners. A “Peers’ Forum” was launched as the place to start discussions and to share knowledge on urban lighting among Lucia partners and experts from the Baltic Sea region. Issues raised include citizen acceptance, economic models, technologies and solutions, and broader lighting strategies.

### Innovate through piloting

Lucia project partners install modern LED lighting in 6 Baltic Sea region cities to provide a tangible experience of its potential. The six Lucia pilot sites are located in Albertslund (Denmark), Hamburg (Germany), Jūrmala (Latvia), Porvoo (Finland), St. Petersburg (Russia) and Tallinn (Estonia).

More information on the project website: <https://www.lucia-project.eu/>



### Webinar – “The future of urban lighting is now!”

In 2020, LUCI developed and moderated one of the 6 webinars of the Lucia project. Organized on 4 November 2020, the webinar “Future of Urban Lighting” offered perspectives from research, lighting design and policy level on the challenges that transcend urban lighting today and help us build solutions for tomorrow.

### WATCH OR REWATCH THE LUCIA WEBINAR SERIES VIDEOS:

- > **30 September 2020:** People first – Cooperation for a smarter city
- > **7 October 2020:** Urban design – Creating liveable urban spaces and fostering sustainable tourism
- > **14 October 2020:** Target groups – Managing needs and demands towards urban lighting
- > **21 October 2020:** Economic aspects – Scaling up green procurement and investments in intelligent urban lighting
- > **28 October 2020:** Technical solutions and circular economy aspects of smart urban lighting and smart city projects
- > **4 November 2020:** The future of urban lighting...is now!

# LAIPS PROJECT

## LIGHT & ART IN PUBLIC SPACES

EUROPEAN PROGRAMME  
CREATIVE EUROPE

### PROJECT BUDGET

333 333 €,  
including 199 999 € EU  
contribution  
LUCI budget 134 202 €

### 4 PARTNERS

LUCI - Lead partner,  
3 cities: Lyon (FR), Oulu (FI),  
Turin (IT)

### DURATION

December 2020 - December  
2023

Co-funded by the  
Creative Europe Programme  
of the European Union



The Light & Art in Public Spaces (LAIps) project aims to strengthen city capacities on permanent light art installations in public spaces by exchanging best practices, fostering international cooperation among cities and making use of innovative digital tools.

The project started in December 2020. Partners of the project (cities of Lyon, Turin, Oulu and LUCI) will deliver 3 main activities in the coming years:

1. The **Light & Art Lab**, a platform to visit each other's installations and exchange about light and art practices and strengthen operational capacities of local creative operators, including city officials, technical staff and artists.
2. The **Light & Art (M)app**, a new tool will be developed to digitise this unique kind of cultural content, raise awareness about its existence and make it more accessible to a wider audience.
3. A **Final Conference** will take place in 2023. The project will wrap up with a major final conference on the topic of Light & Art, featuring international experts, panels, and workshops, as a ground-breaking moment to raise the profile of permanent light art in cities.





# ENLIGHTENME PROJECT



EUROPEAN PROGRAMME  
H2020

PROJECT BUDGET  
4 999 909 €  
(100% funding from EU)  
LUCI Budget 149 000€

## 22 PARTNERS

Chrono@Work Bv, Gemeente Amsterdam, Stichting Vu (NL); EURICE, ICLEI (DE); Fundació Tecnalia Research & Innovation (ES); Gate 21 (DK); Icahn School of Medicine at Mount Sinai (USA); LSE, Lumie, University of Surrey (UK); Tartu City, Tartu; Ulikool (EE); Università Di Bologna, Azienda Unita' Sanitaria Locale Di Bologna, Comune Di Bologna, Fondazione per L'innovazione Urbana, Health City Institute, Neri Spa, Oengineering Srl (IT); Uppsala Universitet (SE).

## DURATION

March 2021 - March 2025

Submitted in June 2020, the ENLIGHTENme project has been awarded a grant by the European Union H2020 Research and Innovation Framework Programme and will start in March 2021.

LUCI is involved to explore how innovative policies can help improve health of citizens and wellbeing with urban lighting.

LUCI's main mission, with the help of the project consortium, will be to set up a working group of cities to advise the project on key requirements, challenges, and give some feedback on the project's findings. A fantastic opportunity for cities to be on the frontline of innovation, gain insights in key research and shape the future of urban lighting together.



*This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 945238*



# LUCI RESOURCES

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LUCI is a resource centre on urban lighting, as well as an observatory for new and future applications of light in the city, capitalising on the wide range of knowledge and experiences from cities and lighting professionals worldwide existing within the network.

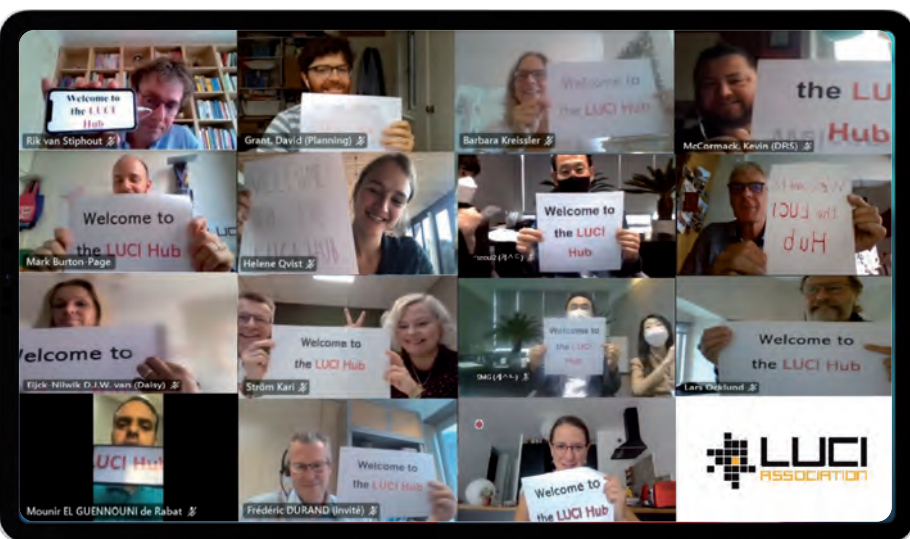
Through its editorial content, publications and online knowledge-sharing tools addressing key issues in urban lighting, LUCI aims to promote a culture of sustainable lighting.



# THE LUCI HUB

In 2020, an extra digital layer was added to our network with the launch of a new online knowledge-sharing platform for LUCI members: the LUCI Hub.

A lot of knowledge already exists in LUCI, with the experience and know-how of the urban lighting, smart city, and lighting design professionals in the network. The LUCI Hub aims to capitalise on this, by providing an online platform to build upon what already exists with new ideas: it aims to harness the collective intelligence of our members.



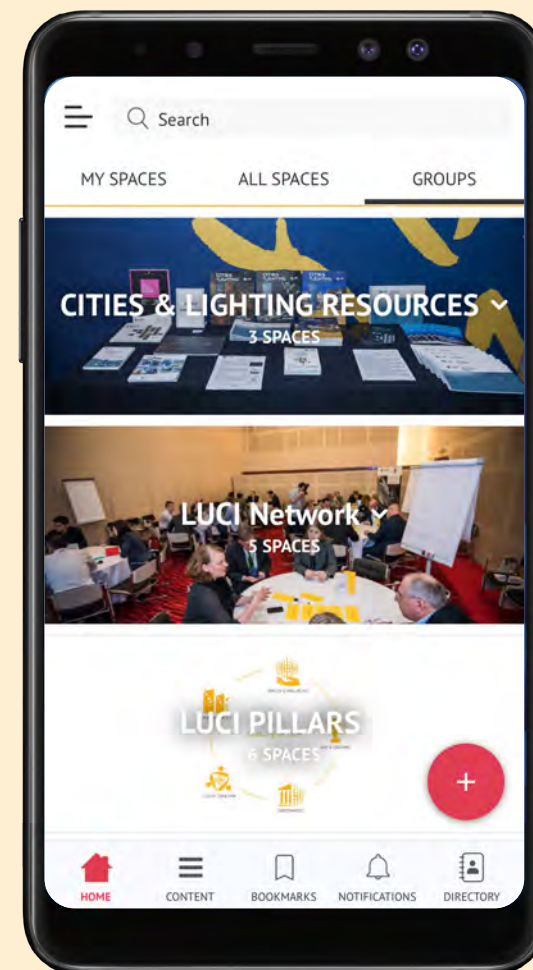
## The LUCI Hub is:

- ✓ **A social space to connect with the urban lighting community online**, create new conversations, exchange lighting projects, experiences, feedback, advice, and inspiration.
- ✓ **A resource centre on urban lighting** with lighting news monitoring, case studies, event presentations, good practices, reports and more on city lighting strategies and projects.
- ✓ **A collaborative tool to build collective knowledge** with dedicated thematic spaces to continue your discussions and help you collectively build upon existing information with new ideas.

## The LUCI Hub is where members can:

- ✓ **Stay tuned to the latest urban lighting trends**, news, and projects.
- ✓ **Inspire others** by sharing projects, ideas, articles, research papers or reports.
- ✓ **Exchange in LUCI pillar working groups** on key technological and strategic questions in urban lighting.
- ✓ **Get exclusive insights** on ongoing EU projects on urban lighting and contribute by sharing expert advice.

In times of COVID, the way we work has changed drastically. As we are all working remotely, the LUCI Hub has become a real extra benefit for all members.



**Download  
the LUCI Hub app**  
and access these  
LUCI resources  
at your fingertips!



## TODAY, THE LUCI HUB ALREADY HAS:

- 50 case studies and lighting projects
- 140 lighting news articles and research reports
- 200 presentations on lighting strategies or projects
- 140 connected users have shared over 1118 social interactions (comments and reactions over the last 12 months)

Members can get > detailed information on projects carried out by their peers and interact with other LUCI members about what their city has been up to

> Members can search for specific contents in the Library based on tags, type of activity, featured city

### LLFF2020: Medellín: "This Christmas, stay in Colombia, your home" (María Isabel Zuluaga Gomez – EPM)

Year: 2020  
City featured in the ppt: Medellín

Topical tags: Christmas lighting, light festival, social cohesion, tourism  
Content type: presentation

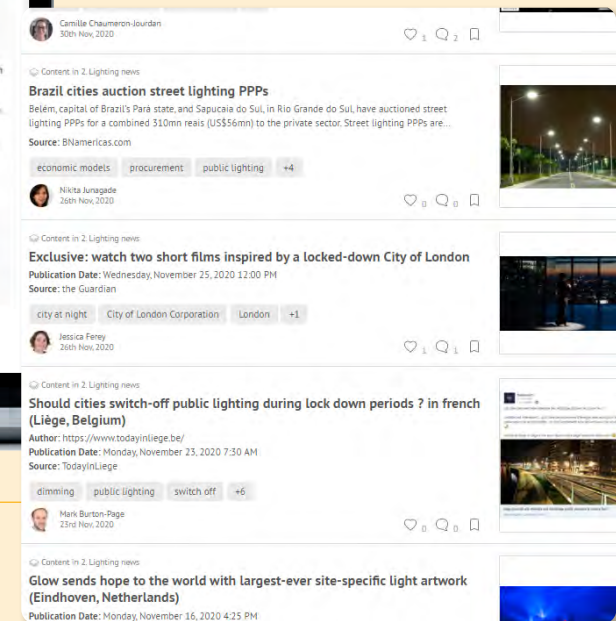
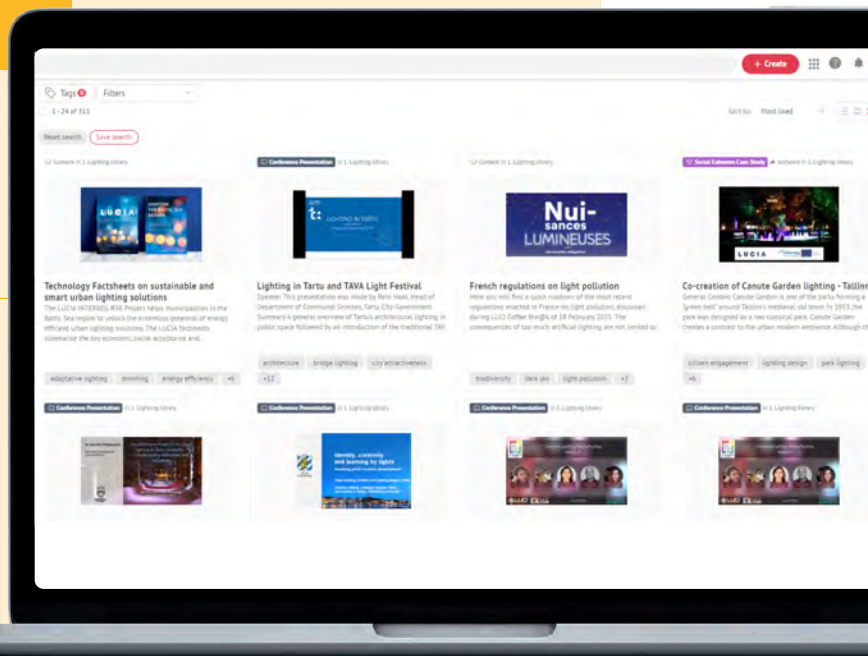
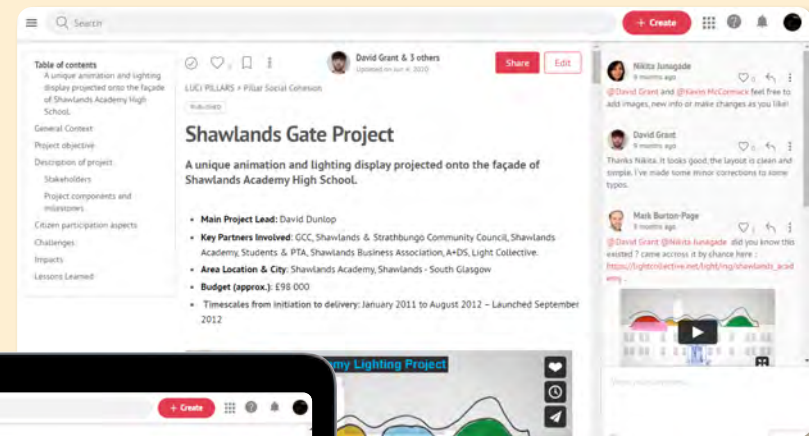
**Conference**  
This presentation is from the **Lyon Light Festival Forum 2020**. The first series of Creative Lighting Pecha Kuchas was held on 7 December 2020.

**Speaker**  
This presentation was made by **María Isabel Zuluaga Gomez, Architect & Lighting Designer, EPM (Colombia)**



< Members can access more than 200 presentations made during LUCI events & get to know the speaker!

Members can stay up to date with > the latest news in the lighting world with a curated newsfeed.



LUCI members can request their access to the LUCI Hub here

# COMMUNICATION & WEB TOOLS

## YouTube LUCI VIDEOS

Videos on LUCI,  
its activities and its members  
• Over 3 000 views



## LUCI WEBSITE

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

- Average 2 000 users per month
- 45 articles in 2020



## LUCI NEWSFLASH

Monthly e-newsletters  
tailor-made for LUCI  
members.



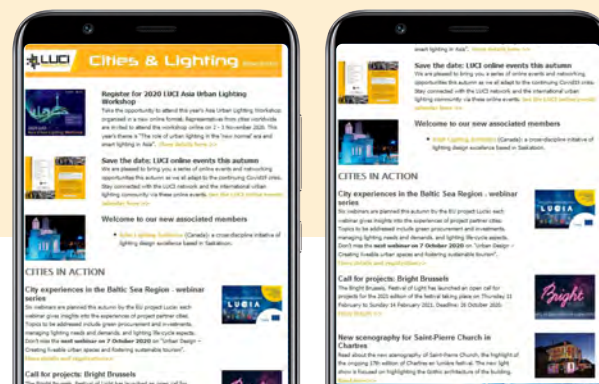
## LIGHT FESTIVAL CALENDAR

Over 50 light festivals listed by continent  
including information on dates, organisers,  
artists involved, budget, etc.



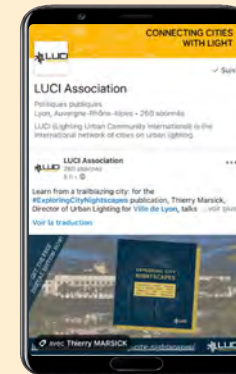
## CITIES & LIGHTING NEWSLETTER

Monthly e-newsletters sharing news from LUCI and our  
member cities' projects with the international lighting  
community beyond the network. Over 1300 subscribers!



## in LUCI ON LINKEDIN

Connect with LUCI  
on LinkedIn: 260 followers



## Twitter LUCI ON TWITTER

@LUCIassociation

- Over 669 followers
- 148 tweets on #LUCInetwork  
official hashtag in 2020

Follow LUCI on Twitter!

## f LUCI FACEBOOK PAGE

- 1 393 page likes
- Over 1 584 page followers

Join us on Facebook!

[www.facebook.com/  
LUCIAssociation](https://www.facebook.com/LUCIAssociation)





# LUCI IN THE PRESS



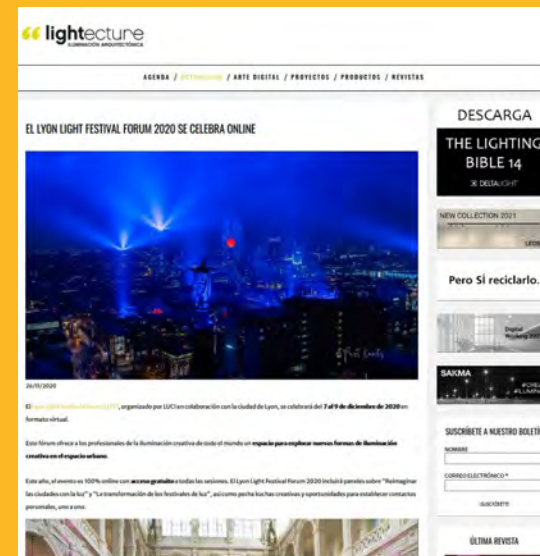
ARC (UK)



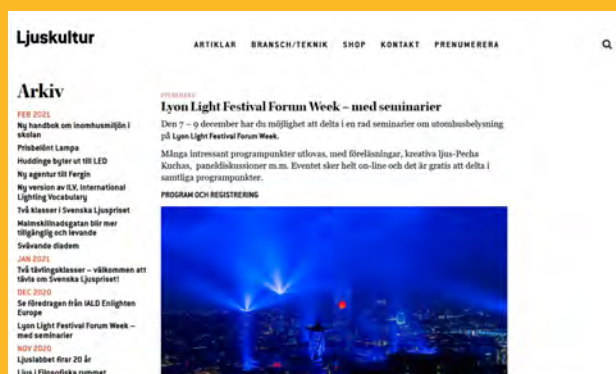
ARTLIGHT (GERMANY)



LE TEMPS (SWITZERLAND)



LIGHTECTURE (SPAIN)



LJUSKULTUR (SWEDEN)



I-CANDELA (SPAIN)



LIGHTZOOMLUMIERE (FRANCE)



# NEW LUCI PUBLICATION

## EXPLORING CITY NIGHTSCAPES

*Cities can use light in a variety of ways, leading to very different luminous landscapes, or “nightscape”.*

The nightscape impacts how we move through urban spaces at night and what we see as we do so; it affects our experience of the city as a whole.

How have different cities across the world created their nightscapes? What are some of the challenges they face?

This new publication by LUCI shares the stories of 12 cities from around the world. Discover different approaches and common challenges linked to developing city nightscapes through conversations with urban lighting decision-makers from:

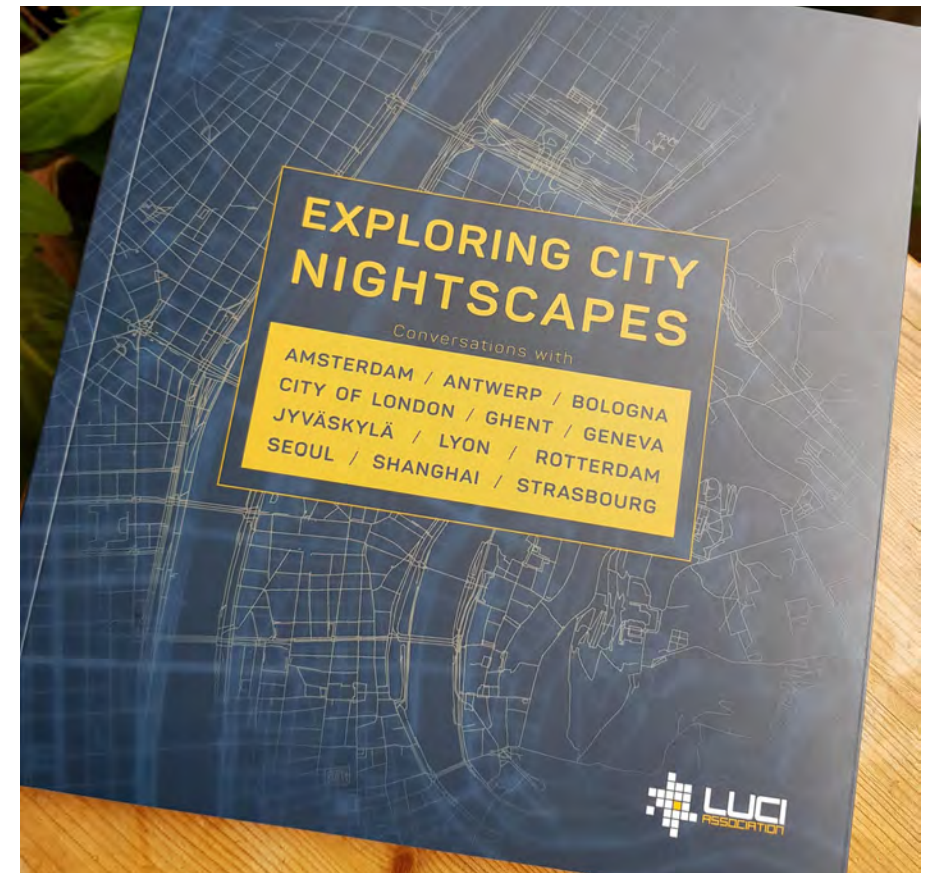
- **Amsterdam** (The Netherlands)
- **Antwerp** (Belgium)
- **Bologna** (Italy)
- **City of London** (UK)
- **Ghent** (Belgium)
- **Geneva** (Switzerland)
- **Jyväskylä** (Finland)
- **Lyon** (France)
- **Rotterdam** (The Netherlands)
- **Seoul** (S. Korea)
- **Shanghai** (China)
- **Strasbourg** (France)



**DOWNLOAD THE FREE DIGITAL EDITION HERE** 

Print copies of the book, complementary for LUCI members, can also be ordered online.

*Exploring City Nightscapes was produced by LUCI in collaboration with the City of Lyon with the support of the EU ROCK project.*





# LUCI ORGANISATION

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# LUCI EXECUTIVE COMMITTEE

LUCI is governed by an Executive Committee (EC) which is elected by the General Assembly of members. It defines the association's policy orientations, discusses development, management and general activities. The EC draws up the draft budget and the Association's accounts, sets the annual subscription fees, and validates memberships.

The EC is composed of nine city members (voting members):

- > Jyväskylä (Finland)
- > Lyon (France)
- > Seoul (South Korea)
- > Rabat (Morocco)
- > Albertslund (Denmark)
- > Eindhoven (The Netherlands)
- > Glasgow (United Kingdom)
- > Gothenburg (Sweden)
- > Rotterdam (The Netherlands)

The EC also includes three representatives from amongst supporting associated members (non-voting members):

- > Fluvius
- > Omexom
- > Signify





## BOARD OF THE LUCI EXECUTIVE COMMITTEE

In 2020, due to the COVID-19 context, the EC held meetings online:

- > 22 April
- > 15 September
- > 9 November

Amongst the EC, a board is elected to ensure LUCI's governance. In 2020, during the General Assembly, the City of Jyväskylä was elected as President.



**Meri Lumela**  
Chair of the City Board  
**JYVÄSKYLÄ**  
LUCI President



**Sylvain Godinot**  
Deputy Mayor, Ecological  
Transition and Heritage  
**LYON**  
1<sup>st</sup> LUCI Vice President



**Hak-Jin Kim**  
2<sup>nd</sup> Vice Mayor for  
Administrative Affairs  
**SEOUL**  
Vice President for Asia



**Mounir El Guennouni**  
Member of the Rabat City  
Council  
**RABAT**  
LUCI Treasurer

**LUCI TEAM** The LUCI Head Office is based in Lyon with a team of permanent staff working day to day to ensure the success of the network's activities.



**Mark Burton-Page**  
General Director



**Camille  
Chaumeron-Jourdan**  
Programme Manager  
(until December 2020)



**Jessica Ferey**  
Programme Manager



**Nikita Junagade**  
Communication Manager



**Noë Hautbois**  
Digital Communications &  
Knowledge Management  
Officer

## LUCI REGIONAL OFFICE FOR ASIA

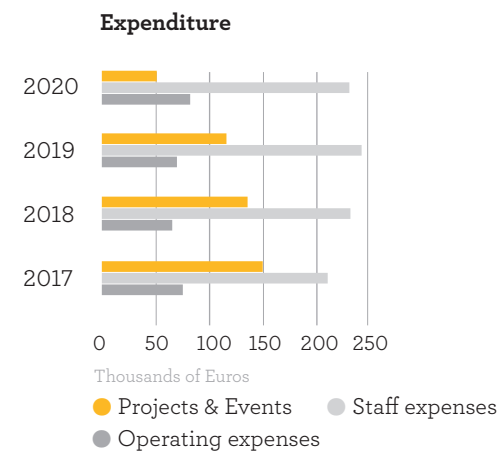
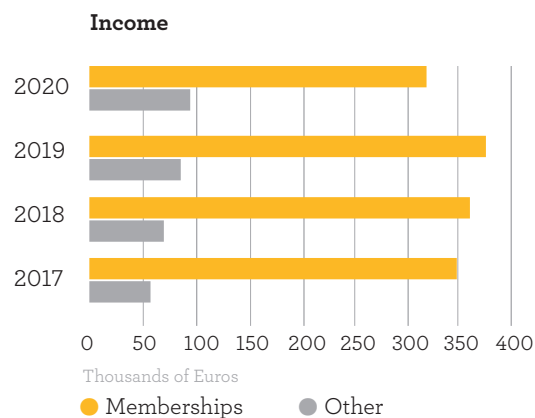
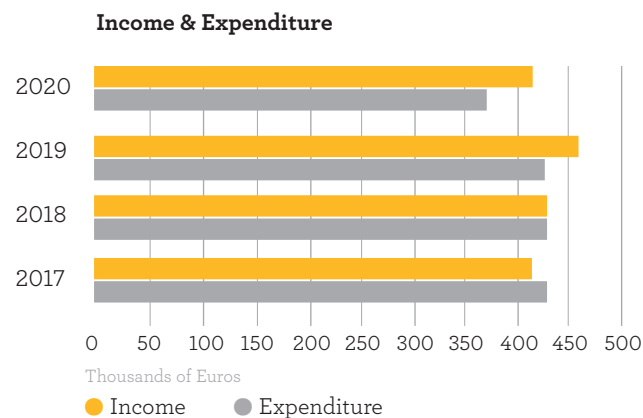
The LUCI Regional Office for Asia (LROA) supports the regional development of the network and reflects the lighting culture and identity of Asian cities in the global conversation on urban lighting. It is a representative office of LUCI Association in Asia which promotes and delivers activities on behalf of LUCI. LROA is managed by a Technical Coordinator, employed by the Seoul Metropolitan Government:

**Da-Eun Lee,**  
LROA Technical  
Coordinator



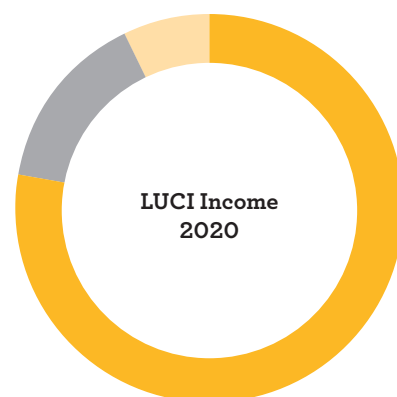
# FAST FINANCIAL FACTS

## FINANCIAL OVERVIEW 2017 - 2020

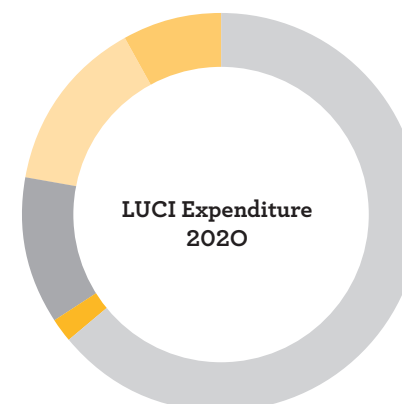


## ANNUAL ACCOUNTS 2020

- Memberships
- Cooperation Projects
- Other



- Staff expenses
- Events
- Cooperation Projects
- Operating expenses
- Network & Communication



# SAVE THE DATE IN 2021!

## Main LUCI events in 2021

### LUCI CITY UNDER MICROSCOPE

Stavanger (Norway) - Online

18 - 19 March



### LUCI ANNUAL GENERAL MEETING

Tartu (Estonia) - Hybrid

27 - 30 October



### LUCI ASIA URBAN LIGHTING WORKSHOP

Seoul (South Korea)

November



### LYON LIGHT FESTIVAL FORUM

Lyon (France)

December



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This activity report is published by

**LUCI Association**

13 rue du Griffon - 69001 Lyon (France)

T: +33 (0)4 27 11 85 37

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

**Director of Publication:** Ms. Meri Lumela

**Texts:** LUCI Team

**Graphic design:** NH DESIGN Lyon

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## LUCI Association

13 rue du Griffon  
69001 Lyon, France

+33 4 27 11 85 37  
luci@luciassociation.org

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