# CONNECTING CITIES WITH LIGHT



**ANNUAL REPORT 2022** 



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# EDITORIAL

2022 was a very special year for LUCI!

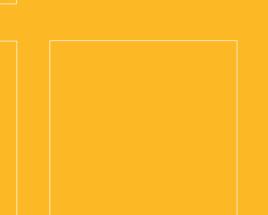
- Because 20 years is really something to be proud of, all along the year, we took every opportunity to be together, in person and online. After the COVID years, we especially need to meet, experience and build strong collaborations.
- 2022 was not only about celebrating achievements: we also wanted this year to be focused on sparking and exploring "the Future of Urban Lighting", to think and move ahead.
- In this context, the exchanges and contributions gave us the opportunity to build a collective vision: the LUCI "Declaration on the Future of Urban Lighting", a key document that highlights our values, our concerns, opens up avenues for the future, and will be a guide for cities in the coming years.
- The launch of the LUCI Cities & Lighting Awards, a major new endeavor for our network, was another important highlight of this year.

Today, urban lighting is recognized as a key urban policy by many, in many parts of the world, probably more than the first founding cities would have dared to imagine. There is still a lot of work to do, and in the next 10, 20 and even 50 years we will keep building LUCI! Many thanks to all that have contributed to our great network over the years and to this special anniversary in particular!

This year has also unfortunately seen a number of crises affect world peace and energy supplies that deeply impact our lives and urban lighting. In order to nurture an optimistic vision of where cities are going, we need to work together and imagine, collaborate and co-create. The LUCI network is needed more than ever!



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



# LUC NETWORK

Since 2002, LUCI brings together local authorities from across the world committed to using light as a tool for sustainable development.

Cities are joined by associated members, including lighting professionals, companies, and universities.

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# LUCI MEMBERS



> Abomey (Benin) > Albertslund (Denmark)

- > Amsterdam (The Netherlands)
- > Antwerp (Belgium)
- › Batumi (Georgia)
- > Bharatpur (Nepal)
- > Brussels-Capital (Belgium)
- Budapest (Hungary)
- > Busan (South Korea)
- Chartres (France)
- City of London Corporation (United Kingdom)
- Copenhagen (Denmark)
- > Dakar (Senegal)
- Dubrovnik (Croatia)
- > Durham (United Kingdom)
- > Eindhoven (The Netherlands)
- Geneva (Switzerland)
- Ghent (Belgium)
- Glasgow (United Kingdom)
- › Gothenburg (Sweden)
- › Guangzhou (China)
- › Gwangju (South Korea)

→ Helsingborg (Sweden) → Helsinki (Finland)

- Ho Chi Minh City (Vietnam)
- Ho Chi Minh City (Vietn
- > Hue (Vietnam)
- > Istanbul (Turkey)
- Jinju (South Korea)
- Jyväskylä (Finland)
- > Kazan (Russia)
- > Leipzig (Germany)
- Liège (Belgium)
- Linköping (Sweden)
- › Lyon (France)

#### Madiun Regency (Indonesia)

- > Madrid (Spain) > Malaga (Spain)
- > Malaga (Spain
- > Marseille (France)
- › Medellin (Colombia)
- Montpellier (France)
- Moscow (Russia)
- › Nanjing (China)
- Novi Sad (Serbia)
- Ouagadougou (Burkina Faso)
- Oulu (Finland)

Paris (France) Pessac (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) Toulouse (France) Turin (Italy) > Varna (Bulgaria) > Vilnius (Lithuania) > Yala (Thailand)

> Yerevan (Armenia)

\* New members in bold



#### **NEW LUCI MEMBER CITIES**



#### **ISTANBUL (TURKEY)**

The city of Istanbul (population 16 000 000) is the most populous city of Turkey, located between the continents of Asia and Europe. The city is the financial capital of Turkey and has significant impact on the country's overall economic performance.

As a new LUCI member, Istanbul has ambitions to develop energy saving systems, to create an inventory and follow-up application for maintenance and operation, and to develop municipal regulations and guides for the city's overall lighting.



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#### MADIUN REGENCY (INDONESIA)

Madiun Regency (662 278 inhabitants) is an area under development with great potential supported by its geographical location, access to national transportation, tourism, an industrial area and abundant natural ressources. The main economic generators in Madiun Regency are currently in the agricultural and industrial sectors.

In the future, Madiun Regency plans to enhance the beauty of the night with various lighting nightscapes such as the Caruban town square and green open spaces. In addition, Madiun Regency is currently running a street lighting project that uses energy-efficient LED lamps (as many as 7 459 points). Some of these lighting points are equipped with a smart system to replace previous street lighting that uses non-standard and non-energy-efficient lamps.

"When Madiun Regency gets better with the implementation of lighting technology and smart systems, then other areas in Indonesia and even the world will flock to Madiun Regency purposely to learn from the experiences and collaborations made with LUCI and the investors."- Dawami Saputro, Madiun Regent



#### MONTPELLIER MÉDITERRANÉE MÉTROPOLE (FRANCE)

Montpellier Méditerranée Métropole has more than 470 000 inhabitants in 31 municipalities in the south of France, in the Occitanie region. More than 75 000 light points are managed and benefit from a major renovation programme that should result in 90% of the assets being fitted with LED lights by the end of 2026.

Aware of the challenges of energy sobriety and light pollution, the local authority is carrying out numerous experiments and is committed to drafting an ambitious Lighting Plan that will commit the local authority in the long term to a differentiated management of public lighting, respectful of its social and environmental needs.

Bruno Paternot, elected representative for lighting aesthetics, likes to quote this extract from the collection "Pillows of Grass" by Natsume Soseki:

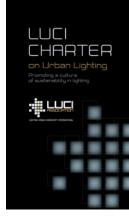
"Lights out From the clear sky a star stands out And enters through the window". LUCI NETWORK

		6 SUPPORTING ASSOCIATED MEMBERS						
	SOCIATED EMBERS New Members	engie	fluvius.	OMEXOM	Schréder Experts in lightability™	Signify		
	New Members	> France	> Belgium	› France	> Belgium	› The Netherlands	> United Kingdom	
			44 ASSOCIAT	TED MEMBERS				
aza Illuminazione pubblica		GN	AMIRA since 1991	(anterdam) (ight festival	ARTICH 🏘 KE	BERLIN		
› Italy	> Portugal	› France	> Russia	> The Netherlands	> United Kingdom	→ Germany	› France	
> France	• Finland	France	CRAIG MORRISON Creative Director, Artist & Curator > United Kingdom	CONCEPTO • France	crossellab set scattering	France	Enefit Connect > Estonia	
滋 enetec smart solutions <b>&gt; Italy</b>	FLASHNET     An Groupe company     Romania	GATE 21	CINCLOW EINDHOVEN • The Netherlands	GREENLED • Finland	guangzhou international lighting exhibition 广州国际照明展览会 > China	TUC/e Technische Universiteit Eindhoven University of Technology Where innovation starts > The Netherlands	JUILE Vingdom	
plan + design > China	INSTRUT INSTRUM MESSICENTRES APPLICATES LYON > France	사망 <b>한국조명디자이너협회</b> KOREA ASSOCIATION OF LIGHTING DESIGNEESS > South Korea	L'ACTE LUMIERE • France	• France	LEIPZIGER LEUCHTEN • Germany	<b>ləs áclairəurs</b> • France	LIGHT TO LIGHT > Belgium	
<b>louis</b> poulsen • Denmark	LUMAS JUSA	Vorway	> United States	• Saudia Arabia	ОСЦВО.сом > Portugal	- RADIANCE35 > Belgium	Sibelgə Belgium	
Russia	University of Kent	WALK THE PLANK	LLUMINATION • China					

# SUSTAINABLE URBAN LIGHTING FOR BETTER QUALITY OF LIFE

#### 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

the network by the City of Leipzig (Germany). In 2022, Madiun Regency from Indonesia, a new member city, signed the LUCI Charter, expressing its commitment to implement sustainable public lighting policies.



The Charter has been translated and is available in four languages: French, English, German and Spanish. See the list of over 60 cities that have signed or committed to sign the charter. 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.

> LUCI STRATEGIC PLAN 2017-2027 Sustainable urban lighting for better quality of life in citles

> > ערין 🖥

PUBLIC SPACES

COHESION

# SUSTAINABILITY & QUALITY ---- OF LIFE ----

HEALTH & WELLBEING

GOVERNANCE

ART & CULTURE

# LUC PILLARS

The five LUCI Pillars - Health & Wellbeing, Public Spaces, Social Cohesion, Art & Culture, and Governance - are the main thematic building blocks for the organisation.

They reflect some of the most pressing challenges faced by cities today.

Working groups with members of the network are formed within these Pillars for greater involvement and to dive deeper into a topic and/or work together on a specific project.

All activities within LUCI are rooted in a 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.

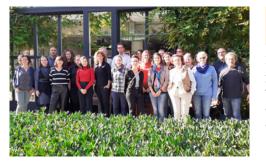
Lighting at all hours can affect biological clock, our mood and behaviour. Exposure to bright light during the daytime can help improve a sleep cycle. Light after dark however can have negative impacts on human wellbeing. With the help of research findings and clear messages, cities have a role to improve the lives of citizens: appropriate indoor and outdoor lighting contributes to providing people with healthy, secure and comfortable environments.

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.

#### WORKING GROUP

Within the ENLIGHTENme project (See p.30), LUCI has brought together 15 cities to constitute the Health and Urban Lighting Advisory Board (HULAB) which acts as a working group to advise on innovative and sustainable principles for connecting lighting policies with citizen health and wellbeing.

Until the end of the project in 2025, the HULAB will share cities' needs and expertise on urban lighting aspects linked to health and wellbeing. They will advise, give feedback and recommendations to project partners' work-in-



progress, therefore contributing to latest research and innovation in urban lighting related to health and wellbeing in cities.

#### HULAB participating cities:

The City of London Corporation is the Chair of HULAB.

Other LUCI member cities involved are: Albertslund, Amsterdam, Glasgow, Leipzig, Oulu, Seoul, Stavanger, Tallin and Tartu. Cities involved from outside the network are: Bologna, Brasov, Cascais, Guimarães, Larissa, Philadelphia, Ravenna and Reggio Emilia.

#### EXAMPLES OF KNOWLEDGE EXCHANGE

In March and May, two HULAB meetings took place to co-create content for a chapter in the **"Declaration on the Future of Urban Lighting"** entitled: "Urban lighting for Happy and healthy cities after dark".

The first session focused on relevant trends, concerns and hopes for the future while examining the key elements of comfortable urban lighting as well as the need to respond to the needs of particular target groups with urban lighting.

The second session was opened by **Stefania Pizzato**, acting chair. "For the City of London, it is important in the post pandemic recovery mode, that the city is a better place for all citizens. It is essential to put people first and their wellbeing". The evaluation of the impact of light on health, together with the protection of biodiversity were the main concerns highlighted during the structured discussion.



# 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.

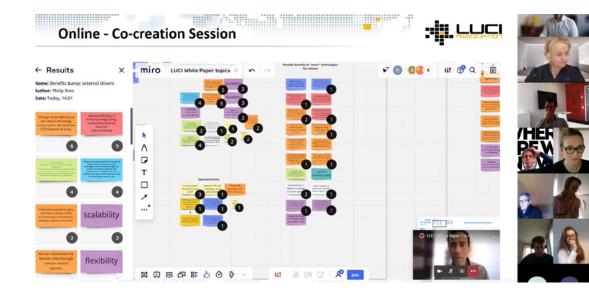
Developing good lighting policies for public spaces has the power to enhance urban structures and areas. It can create distinctive ambiences and nightscapes. Light can help citizens to navigate the spaces they inhabit or visit and can be a powerful tool to support smart and environmentally-friendly mobility.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

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.

#### WORKING GROUP

The Light Pollution Working Group launched in 2021 reflects on how light pollution is regulated, handled and controlled in cities. It aims to help identify main causes of the problem and what actions can be undertaken.

Meetings of this working group aim to better understand the main challenges, collect case studies and share news in this field.



#### LUCI members involved:

This working group is led by the City of Jyväskylä.

Members involved are cities of Albertslund, Eindhoven, Ghent, Gothenburg, Oulu, Leipzig, City of London, Lyon, Reykjavik, Seoul, Strasbourg and Tallinn. Associated members involved are: Engie, Fluvius, Louis Poulsen, Schréder, Thorn, YD illumination and Signify.

#### EXAMPLES OF KNOWLEDGE EXCHANGE

In April and June, two working group meetings took place to co-create content for a chapter of the **"Declaration for the Future of Urban Lighting"** entitled: "Cities approaches to reducing light pollution".

Public Spaces are a transversal topic of many discussions within LUCI: how to deliver smart

lighting and energy efficiency, in the context of the energy crisis in Europe, have been at the heart of exchanges during some of the events of the year: the Smart Space project final conference (January), the Sparking the Future of Urban lighting online event (May) and the LUCI AGM in Busan (October) during keynotes and round tables.

The April and June LUCI Coffee Bre@ks focused on adaptive and smart lighting with respectively, **Paolo di Lecce** (DIADEME project) from Italy and **Youngho Baik** (Ecolant) from South Korea.

The LUCI Hub, our members online knowledge sharing platform (See p.33) takes a growing part of the exchanges each year, with over 50 new contents (practice sheets, news articles, documents sharing, etc) specifically related to public spaces. LUCI PILLARS



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

Citizen participation and interaction are often major goals 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. Equal access to light contributes to bonding people and bridging gaps regardless of age, ethnicity, gender, religion, level of income, etc.

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.

#### WORKING GROUP

The working group entitled "Placemaking with People and Light" aims to reflect on how light can support community engagement, urban regeneration and placemaking processes. In a context of rapid urbanisation, addressing social cohesion in public spaces for creating sustainable and inclusive cities, is fundamental. It involves producing quality public spaces that will ensure safe and enjoyable experiences for inhabitants. Light has a crucial role to play in shaping a good urban environment for all.

The group is working on how to make the dark city attractive and inclusive to support the creation of thriving communities. Convinced



that light can be a potent tool for equitable placemaking, city members aspire to scale up thoughts and projects by sharing inspirational stories and good practices.

#### LUCI members involved

This pillar is led by the City of Glasgow. Members involved are the cities of Albertslund, Antwerp, Gothenburg, Helsinki, Medellín, Oulu, Stavanger, Strasbourg and Tartu.

#### EXAMPLES OF KNOWLEDGE EXCHANGE

In April and June 2022, two working groups meetings took place to co-create content for a chapter of the **"Declaration for the Future of Urban Lighting"** entitled "Transitioning towards a community driven approach". A further publication of findings is foreseen in 2023.

The March LUCI Coffee Bre@k featured

**Prof. Els Enhus** from the Free University of Brussels, who shared a literature review on the effects of reduced public lighting on crime and fear of crime.

In May, the Sparking the Future of Urban Lighting event welcomed renowned lighting professionals **Florence Lam** and **Mark Major** who shared their visions of people-focused cities after dark. The presentations showcased how evidencebased holistic and innovative lighting design approach may contribute to shaping a sense of place for regenerative future cities.

In October, **Heather Claridge** and **Councillor Imran Alam** from the City of Glasgow shared some public spaces regeneration projects during *LUCI Annual General Meeting in Busan.* The panelists reminded participants that designing with lived experience, place partnerships and a climate conscious is essential to improving social cohesion in the city. LUCI PILLARS



# 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.

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.

#### WORKING GROUP

The general goal of the working group in this Pillar is to open the field of urban lighting to new artistic forms. The activities explore how a co-creation approach can be implemented among the members of the network.

In May and December, the Light Festival Working Group held meetings to co-create content for a chapter in the "Declaration on the Future of Urban Lighting" entitled: "The future of light festivals". 17 light festivals and artists shared insights and goals for festivals to work towards in the future. The Working group also discussed cooperation opportunities, following the "Beacon of Hope" co-created installation



(See p. 31) via a new EU Project proposal to be submitted in 2023.

#### LUCI members involved

Members involved are: Artichoke, Bibi, Brussels Bright Festival, CMD – Craig Morrison, Crossed Lab, Ghent, GLOW Eindhoven, Jyväskylä, LUMA8 Chicago, Leipzig, Lyon, Madrid, Noor Riyadh, Oulu, Seoul, Stavanger, Signify and Tartu TAVA light festival.

#### EXAMPLES OF KNOWLEDGE EXCHANGE

During the Sparking the Future of Urban Lighting online event (May), participants were inspired with a keynote entitled "Power to the imagine, or, the future lies with the light painter", by **Leni Schwendinger** designer and artist from the USA. She encouraged participants to involve more joy and poetry in lighting urban spaces. During the LUCI Asia Urban Lighting Workshop 2022, **the City of Yala** presented "Reflecting history, present and future through light art for cities," showcasing examples of light art in Yala and Bangkok.

The November LUCI Coffee Bre@k featured artist **Titia Ex** who shared her light art projects and her research to identify different light ecosystems, characters and qualities of the living environment.

The Lyon Light Festival Forum 2022 included a wealth of exchanges during keynote, roundtable discussions, pecha kucha sessions, and a "light"speed networking moment all focused on creative lighting and the future of light festivals. (See p.23)





# 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.

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

#### WORKING GROUP

A new working group in this Pillar, starting in 2023, will concentrate on small and mid-sized cities (SMSCs). Launched in cooperation with Fluvius and the cities in the Flanders region, the aim of this working group is to:

- Discuss lighting governance issues, common challenges that are specific to SMSCs.
- Share knowledge & best practices on tried and tested or innovative urban lighting solutions for SMSCs.
- Promote lighting projects & accomplishments.



#### LUCI members involved

Cities in the Flanders region and Fluvius. The working group aims to be open to all willing members under 200 000 inhabitants.

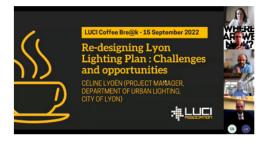
#### EXAMPLES OF KNOWLEDGE EXCHANGE

Knowledge exchange on the governance aspects of urban lighting is a constant thread of discussion within LUCI events, projects and online exchanges.

In January, LUCI published **"A cities Guide** to Smart Lighting", a co-created white paper with key recommendations and insights to help cities form their vision on smart lighting and support concrete actions towards implementation. It was downloaded close to 700 times during the year 2022. During the Sparking the Future of Urban Lighting online event (May), three round tables took place focusing on:

- future of lighting technology,
- how lighting intersects with the nightime policies,
- new strategic approaches to urban lighting, with eg. revised masterplans.

The September LUCI Coffee Bre@k featured **Céline Lyoen** from the City of Lyon who presented the approaches and the roadmap of its 3<sup>rd</sup> Lighting Masterplan to be adopted in 2023.



# LUCI EVENTS

LUCI offers opportunities for cities to exchange about urban lighting by organising events around the world. Within the context of LUCI's 20<sup>th</sup> anniversary, all of the events were focused on imagining together the future of urban lighting.

#### Sparking the Future of Urban Lighting The LUCI community gathered for a special online event to celebrate the network's 20 year anniversary. The event focused on celebration, participation, and inspiration in order to spark a common vision for the Future of Urban Lighting together.

#### LUCI AULW: The Future of Urban Lighting after COVID-19

The LUCI Asia Urban Lighting Workshop (LAULW) provides a platform for public lighting decision-makers from Asia to exchange information and practices on the benefits and challenges of sustainable urban lighting.

### LUCI AGM: Exploring the Future of Urban Lighting

The LUCI Annual General Meeting (AGM) is the international gathering 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.

#### LLFF: The Future of Light Festivals

The Lyon Light Festival Forum (LLFF) brings together city representatives, artists and other lighting professionals. Through a keynote, roundtable discussions, short Pecha Kucha-style presentations and a (Light)Speed Networking moment, participants discussed the future of light festivals.

#### LUCI Coffee Bre@ks

The LUCI Coffee Bre@ks are now the traditional regular rendezvous for LUCI members to connect online around an urban lighting topic. Recordings of Coffee Bre@ks are available to members on the LUCI Hub.

# SPARKING THE FUTURE OF URBAN LIGHTING ONLINE 16-18 MAY

In May 2022, the LUCI community gathered for the special online event "Sparking the Future of Urban Lighting" to celebrate the network's 20-year anniversary. Through keynotes, roundtables and LUCI working group meetings, the 3-day event followed the keywords *celebration, participation,* and *inspiration* in order to build a common vision for the Future of Urban Lighting together.

Besides reflecting on the last two decades, LUCI members participated in the co-creation of a major "LUCI Declaration for the Future of Urban Lighting". During the event, the inaugural Cities & Lighting Awards were launched - the ceremony of which took place during the AGM Busan (See p.21).

#### EVENT AT A GLANCE

- 190 online participants
- 19 speakers
- 41 cities officially represented
- Lighting professionals
- from 38 countries



## Sharing visions for the Future of Urban Lighting

Both days opened with inspiring keynotes and distinguished speakers from various fields of urban lighting. While the two first keynotes by Florence Lam and Mark Major shared visions of people-focused cities and emphasised the importance of balance between light and darkness to conserve the qualities of the night, Amy Lamé and Leni Schwendinger shared their concerns about how to enhance life at night, with public lighting and how to reimagine more welcoming nighttime environments.

Cities were given centre stage in three roundtable discussions, each of which focused on a specific topic or perspective in relation to the future of urban lighting. The first roundtable consisted of lighting professionals including technicians, city lighting designers, operation managers, and advisors from Budapest, Ghent, Gothenburg, Helsinki, Medellín and Tallinn. They discussed what lighting technology looks like for the future and how this can help us go a step further in developing a sustainable city.

Building on the previous contributions, the second roundtable focused on the future of urban lighting for the city at night. Keywords such as harmony, emotions, cooperation, communication, flexibility, accessibility, participation, education and raising awareness were listed by cities of Eindhoven, Jyväskylä, City of London Corporation and Oulu.

The closing roundtable gave the floor to elected officials from Lyon, Jyväskylä and Tartu. These cities shared their challenges and the need for revised or new lighting masterplans, with balanced approaches to light and darkness that can help find solutions to environmental challenges. They agreed that cities need to offer a vision, coordinate various actors, engage in educational and bottom-up approaches to ensure the light strategies are shared by everyone.



# Celebrating 20 Years with the LUCI network

During a celebratory moment, 15 testimonials were shared from members of the network. Glasses and mugs were raised to celebrate 20 years of connecting cities with light. Participation was further encouraged through daily quizzes where light-related prizes from sponsors could be won! LUCI members can access recordings and presentations in the LUCI Hub



# LUCI ANNUAL GENERAL MEETING

The LUCI Annual General Meeting 2022 in Busan, South Korea, jointly organised by LUCI and Busan Metropolitan City, provided the network with the opportunity to connect in person to continue exploring the future of urban lighting through sharing insights and perspectives on the topic.

# BUSAN, SOUTH KOREA

#### EVENT AT A GLANCE

- Over 100 participants in Busan
- 21 cities officially represented
- from 14 countries
- Over 20 speakers

#### **BUSAN AT A GLANCE**

- LUCI member since 2014
- Population over 3.6 million
- 230 000 lighting points
- Host of numerous international events

"It was a great pleasure for Busan Metropolitan City to host the 20<sup>th</sup> anniversary LUCI Annual General Meeting in 2022. We are very grateful for meaningful opportunities to learn, discuss, and share both fundamental and essential urban lighting policies, design guidelines, and strategies. "

– Max Kwang-Hee Kim, Director General, Urban Balanced Development Office, Busan Metropolitan City

# Learning about and experiencing harmonic lights in Busan

The City of Busan introduced their urban lighting projects and strategies in a plenary session. Presentations by city representatives and academic researchers as well as in-person visits of the city's illuminated landmarks during the night tours gave participants an overview of Busan's concept of harmonic lights that aims to complement the landscape of mountains, rivers, and sea.



#### Lighting the night of tomorrow

Three inspiring speakers from various areas of the urban lighting community shared their perspectives on the future of urban lighting on the common topic "Lighting the night of tomorrow." A key theme revealed how lighting in public spaces can not only renew our experience of the city, but also created added social value and potentially solve pressing issues in mobility and sustainability.

#### Balancing light & dark in cities

Cities took the stage during the International Panel Discussion where Busan, Glasgow, Leipzig, Singapore, and Toulouse shared their perspectives and views on how their cities are considering the need for better harmony between light and darkness.

#### Opening the floor to lighting projects

The Open Conference Sessions gave the floor to lighting professionals to present their projects. A variety of urban lighting topics were shared. For example, darkness as a positive tool for social, artistic and environmental inclusivity was a common topic in presentations by Concepto, Walk the Plank and City of Helsinki. Cities of Leipzig and Lyon showcased the connection between local/national culture and light. Smart and sustainable lighting strategies were shared by Madiun Regency, City of Rabat, City of Jinju and also Louis Poulsen through case studies and surveys.



#### Participating in LUCI's governance

During the General Assembly, the network gathered to vote on LUCI's 2022 and 2023 activities as well as elect the new Executive Committee that will lead the network for the next two years. (See p. 38).

#### Experiencing daytime Busan and the Jinju Lantern Festival

As part of the optional programme, participants were invited to experience Busan landmarks during the daytime and then the Namgang Yudeung Festival in Jinju. Both experiences provided the opportunity to be immersed in Korean aesthetic and culture after the contentrich conference programme.







# LUCI CITIES & LIGHTING AWARDS

#### C&L Awards ceremony



As part of the closing ceremony, the winners of the inaugural LUCI Cities & Lighting Awards were announced, celebrating cities that have driven projects with the ultimate aim to improve sustainability and quality of life:

1<sup>st</sup> place: Konak-Kemeralti Lighting Masterplan, City of Izmir

2<sup>nd</sup> place: Tammerkoski rapids, Industrial Heritage Reimagined, City of Tampere

**3**<sup>rd</sup> **place:** *New Gwanghwamun Square Lighting*, Seoul Metropolitan Government

Special mention: *Light+Darkness in the City*, City of London Corporation

LUCI members can access recordings and presentation and more in the LUCI Hub



LUCI EVENTS

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# LUCI ASIA URBAN LIGHTING

# WORKSHOP

#### SEOUL, SOUTH KOREA 16-17 JUNE

The 2022 LUCI Asia Urban Lighting Workshop, held jointly by Seoul Metropolitan Government and LUCI, provided a platform for over 250 participants to share experiences and best practices.

"The LUCI Asia Urban Lighting Workshop has been held in Seoul every year since 2017 and we have been able to achieve such results with LUCI's continued interest and active participation. While two days was not enough for us, it was valuable time for many countries and cities to unite, discuss and learn what we should do for the people."

#### — Je-Hyun Han,

Vice-Mayor II for Administrative Affairs of Seoul Metropolitan Government - LUCI Vice President for Asia • 263 online participants

- Attendees from 34 countries
- Over 23 speakers

The event focused on the theme "The Future of Urban Lighting after COVID-19" with keywords "Well-being, Restoration, Innovation," sparking a vibrant discussion from the audience despite the physical distance.

#### Spotlight on Seoul

The workshop opened with speakers sharing the history of Seoul's lighting regulations as well as vision to balance between minimising light pollution and fostering creative lighting. These presentations and discussions between decision makers and lighting professionals showed the importance of good governance for urban lighting that has the ability to transform public spaces for a shared cultural experience.



## Urban lighting: a functional, aesthetic, social, cultural and health tool

A number of presentations considered the workshop's keywords. Professionals and researchers within the projects of ENLIGHTENme and HULAB presented notions such as "urban darkness", life-centred urban lighting design and evidence-based policy suggestions aimed to improve citizen's quality of life. Cities including Incheon, Yala, Madiun, Chattogram and Muscat considered how light, colour and design can help showcase city identity and heritage as well as increase security through smart lighting and carefully considered technology.

#### Next steps for collaboration in Asia

To close the event, LUCI presented opportunities for greater participation and cooperation between Asian cities following the workshop.

LUCI Members can watch or re-watch the sessions and have access to the presentations on the LUCI Hub.



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# LYON LIGHT FESTIVAL

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Organised by LUCI and the City of Lyon, the 2022 edition of the Lyon Light Festival Forum offered lighting professionals a unique opportunity for international dialogue on creative lighting. Inspiring speakers shared their crossed visions on this edition's main focus: the future of light festivals.



## Using future thinking to design better lighting policies

Climate change, energy crisis, erosion of biodiversity, all these crucial issues are now engaging the responsibility of cities and questioning the future of urban lighting policies. In this period of multiple crises, Mathieu Baudin, Director of the Institut des Futurs Souhaitables, opened the Forum with a keynote inviting participants to seize the opportunity offered by the crisis to collectively invent a better world.



The Future of Light Festivals: towards new models of collaboration

Discussion on the future of light festivals began with a roundtable with Julien Pavillard, Director of the Fête des Lumières at City of Lyon, Tom Weerts, Production Manager at GLOW Eindhoven, Elisa Hillgen, Lighting Coordinator at City of Jyväskylä, and the artist Craig Morrison. They shared their perspectives on the modern challenges of light festivals while showcasing how their three cities' co-created light art installation "Beacon of Hope" may be part of the answer to solve these issues (see p.31). (Light)Speed Networking

# What are your hopes and dreams for the future of light festivals?



#### **EVENT AT A GLANCE**

- 150 participants
- 30 cities and light festivals officially represented
- 11 speakers

#### Peer-to-peer sharing and learning in the field of creative lighting

The future of light festivals remained the main topic of the dynamic Pecha Kucha sessions. In these quick presentations, participants learned from speakers coming from France, Spain, Tunisia, Germany and the Netherlands about their creative projects and perspective on the future of light events.

# Celebrating the international lighting community with light

After many discussions and ideas shared throughout the event, participants were invited to join a special (Light)Speed Networking session where they could meet other lighting professionals and share their own dreams and hopes for the future of light festivals.

Missed the event? You can view recordings of the sessions here: www.luciassociation.org

LUCI members can access recordings, presentations, and more in the LUCI HUI



LUCI EVENTS

# THE LUCI COFFEE BRE@KS

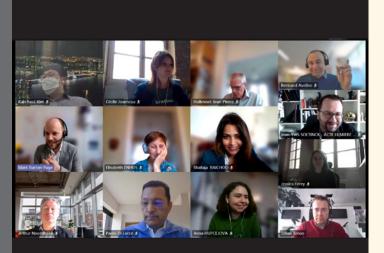
The LUCI Coffee Bre@ks are the regular exclusive rendezvous for the network. These short, convivial moments are an opportunity for members to stay in touch and hear from experts on a variety of urban lighting topics.





#### JANUARY 2022: SMART-SPACE FINAL CONFERENCE

This special LUCI Coffee Bre@k gathered over 90 participants from around the world to attend the final conference of the SMART-SPACE project, with a special focus on smart lighting for energy efficiency. It was the occasion for LUCI to present the new publication *Cities' guide to smart lighting: a white paper from cities for cities.* The conference offered enriching exchanges on 'The value of Smart Lighting' by Technical University of Eindhoven TU/e. Findings and lessons learnt from the SMART-SPACE project's pilot sites were shared by cities of Tipperary, Sint Niklaas and Middleburgh.



#### **MARCH 2022:**

THE EFFECTS OF REDUCED PUBLIC LIGHTING ON CRIME AND FEAR OF CRIME: A LITERATURE REVIEW

Prof. Els Enhus shared her academic experience to raise the right questions regarding the effects of reduced street lighting on crime and fear of crime. She noted the need to find a balance between more and less light in relation to demands of perceived safety/security and finding solutions to climate and economic challenges.

#### LUCI EVENTS

#### 25 LUCI ANNUAL REPORT 2022

#### **APRIL 2022:**

#### ADAPTIVE LIGHTING WITH STRONG ENERGY SAVING POTENTIAL IN ROME

Paolo Di Lecce introduced the DIADEME project, 2021 winner of the "Innovation" category of the EU Sustainable Energy Awards. Funded by the LIFE European program, DIA-DEME developed an experimental approach to adaptive street lighting. In Rome, an IoT structure was created with almost 800 adaptive lighting points, which meets the city's needs of street use when creating nocturnal urban ambiances.



#### JUNE 2022: URBAN LIGHTING IN ASIA PACIFIC REGION

During the LUCI AULW Talk Show on 16 June 2022, Youngho Baik, Chief Consultant at Ecolant, discussed the factors for implementing a smart lighting infrastructure and present-day challenges brought by the energy crisis on urban lighting.



#### SEPTEMBER 2022: RE-DESIGNING LYON LIGHTING PLAN: CHALLENGES AND OPPORTUNITIES

LUCI members learned from Céline Lyoën, Project Manager at the Department of Urban Lighting about the approaches being implemented in the new Lyon Lighting Plan that is foreseen to be adopted by the Municipal Council in March 2023. This redesigned lighting master plan has the aim of integrating current urban lighting challenges as well as societal expectations.

#### LUCI HUB

LUCI Members can (re)watch the LUC Coffee Bre@k sessions, access the PowerPoint presentations and continu the discussion on the LUCI Hub.





#### NOVEMBER 2022:

#### THE ART OF LIGHT, ARTISTIC RESEARCH IN PROGRESS

LUCI members heard from Titia Ex, a leading light artist, about her different light art installations, learning about their materials, purpose and meaning. She also shared her observations about the emotional, social and security roles of light from her time researching about a future installation in Buikslotermeerplein, an up-and- coming former workingclass neighbourhood in the north of Amsterdam.

# 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.

#### XXIV Annual Lighting Seminar IES MÉXICO

#### **ONLINE - 25-29 APRIL**

LUCI was invited to take part in the XXIV Annual Lighting Seminar by IES México entitled "Resilient Light". Lighting, as an essential infrastructure, but also a subjective, emotional layer of the city after dark plays an important role to support resilience and sustainability.

In this context, Mark Burton-Page shared some insights from LUCI, about the role and impact of urban lighting on cities and citizens. LUCI has been "connecting cities with light" for 20 years, recent projects have led us, among other things, to explore city nightscapes around the world and guide cities in the development of smart lighting. The two most recent LUCI publications were presented.

# <text>

#### "Safe Summer" Round Table SLOVENIA

#### **ONLINE - 26 MAY**

LUCI took part in a round table organised by the City of Koper and its coastal neighbour cities in Slovenia, the police department and the Faculty of Tourism Studies. The main topic was about how infrastructure influences the perception of security for tourists and visitors as well as the local population. LUCI presented the current state of thinking about the links between urban lighting and urban security. Social cohesion and sustainability are key determinants of safety and security and events and light festivals can bring added value in terms of identity and attractiveness.



#### FOCALES LYON (FRANCE)

28 JUNE

During the first edition of the "Focales – sustainable lighting forum" taking place in Lyon, at the initiative of a group of French lighting associations including the Cluster Lumière, LUCI took part in a round table

entitled "Public lighting: sobriety AND security?" with elected officials and lighting professionals. It was an interesting moment to reiterate the complex nature of the relationship and that developing better lighting, not more lighting, is the only option to enhance the feeling of safety and security and drive sustainability at the same time.

#### IBE-BIV Seminar BRUSSELS (BELGIUM

**10 NOVEMBER** 

Organised by the Belgian illumination institute (Institut Belge de l'Eclairage – Belgisch Instituut voor Verlichtingskunde), the yearly seminar offered a programme entitled "ReNormAction! - Renovating in times of changing regulations".

The seminar focussed on normalisation and regulations, research and technology driving towards innovative solutions responding to a rapid changing world. Topics such as flicker and glare perception were on the agenda, lighting for the homework environment, light nuisance, night-scaping and last but not least the LUCI network was presented.

Guangzhou International Lighting Exhibition (GILE) 2022 GUANGZHOU (CHINA)

**3-6 AUGUST** 

LUCI took part in the 2022 edition of the Guangzhou International Lighting Exhibition by contributing as a Fair supporter. Organised by Messe Frankfurt in Guangzhou for many years, GILE is one of the largest meetings of lighting professionals in Asia. In 2022, the motto was "New Era, New Opportunity," and LUCI insisted that cities need to find the right balance between light and darkness and raise awareness towards the importance of good lighting. Exploring new dimensions alongswide the lighting industry is very important.



# LUC PROJECTS

As a leading city network on urban lighting, LUCI explores through its activities the new facets and potentials of light in the city.

By creating opportunities for multilateral cooperation, LUCI Projects offer tools for cities and lighting professionals to progress together towards a more sustainable use of light.



EUROPEAN PROGRAMME CREATIVE EUROPE

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

4 PARINERS LUCI (Lead partner), 3 cities: Lyon, Oulu, Turin

DURATION December 2020 – December 2023

More information on the LUCI website: www.luciassociation.org

# LAIPS PROJECT

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.

#### "Light & Art Lab" in Lyon

In October 2022, the Light & Art Lab visit in Lyon brought LAiPS partners to gather detailed information about the city's light art strategies and discuss current challenges and future opportunities of light art. During a series of presentations and workshops, partners explored Lyon's participative governance, maintenance issues, and future ambitions. Through exploratory night visits to various light art installations in Lyon, the partners were also able to test out the Light & Art Map.

# Developing the Light & Art Map to promote light art in cities

Throughout 2022, project partners worked actively to develop a new digital tool whose aim will be to give access by mapping light art in cities. A beta version of the app is being tested in 2022 and the final version will be unveiled in 2023.











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

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); Fundación 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

# ENLIGHTENme PROJECT

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Launched in 2021, the ENLIGHTENme Project brings together experts from different scientific fields such as urban development, social sciences, and health research, to explore the impact of urban lighting on health & wellbeing.

#### Health & Urban Lighting Advisory Board (HULAB)

LUCI's main responsibility is to lead the Health and Urban Lighting Advisory Board (HULAB). Throughout the project, the HULAB will advise on innovative and sustainable principles for connecting lighting policies and implementation with citizen health and wellbeing. Fifteen cities have joined this initiative chaired by the City of London: Albertslund; Brasov; Cascais, Guimarães; Glasgow; Larissa; Leipzig; Oulu; Philadelphia; Ravenna, Reggio Emilia; Seoul; Stavanger; Tallin. Three pilot cities of the project are also involved in the HULAB: Amsterdam, Bologna and Tartu.



After the kick-off meeting in Tartu, Estonia, in October 2021, LUCI organised two HULAB co-creation sessions online with Miro boards; one session in March and one session in May 2022. During these sessions cities analysed relevant trends, concerns and hopes for the future.

#### ENLIGHTENme in Amsterdam

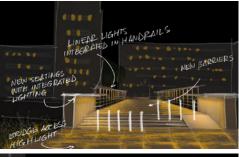


In October 2022, a General Assembly was held in Amsterdam in the low-socioeconomic status neighbourhood Osdorp, one of the selected target districts. The assembly brought together the ENLIGHTENme partners with the aim to present the work done until now.



LUCI contributed as lead of the HULAB, presenting the results of the co-creation sessions as well as the main points of the LUCI Declaration Chapter "Urban lighting for happy and healthy cities after dark."

The current status of the ongoing co-created urban lighting interventions in the three ENLIHTENme districts was presented. Although the Amsterdam pilot is not yet installed, in Bologna at the time of writing, the partners were starting to implement the new lighting scenarios.





#### **PROJECT BUDGET** Self-funded by cities

PARTNERS LUCI Jyväskylä, GLOW, Lyon

DURATION September - December 2022



# BEACON OF HOPE

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## Exploring concretely the future of light festivals

Light festivals continue to multiply around the world but are now facing challenges of remaining unique among such an array of festivals. Exchanges between some of the most advanced light festivals, during LUCI's light festival working group including GLOW in Eindhoven, City of Light in Jyväskylä, and Fête des Lumières in Lyon, led to the idea of co-creating a special light art project. Craig Morrison is the lead artist, working closely with local teams for each part of the installation. LUCI is involved to support the process, share best practices and lessons learnt within the network and beyond.



## Light festivals adapting to new social and environmental contexts

Beacon of Hope explores how cities work together to create a light art installation that considers the local context but also the ability to sustainably travel and flourish in the other partner cities.

#### Inauguration in Jyväskylä, Finland

Beacon of Hope started its journey in Jyväskylä during the City of Light festival, where artist Craig Morrison met with the local team to build the dome frame. Following this, the "ribbon weaving dance" took place with 40 local participants.

#### Beacon of Hope at GLOW

The installation then travelled to GLOW in Eindhoven, where it was transformed to fit its unique local context through social interaction and the efforts of the students of the ROCTerAA school and Kim Haagen studio. Here, Beacon was given an angular exterior where the lines are illuminated by black light.



#### Wrapping up in Lyon during Fête des Lumières

Beacon's last stop was in Lyon during the Fête des Lumières where it evolved once again to adapt to the local context and involved local inhabitants in many workshops.

Inaugurated 29 September - 9 October 2022 City of Light festival, Jyväskylä

12 - 19 November 2022- GLOW, Eindhoven

8 - 11 December 2022- Fête des Lumières, Lyon

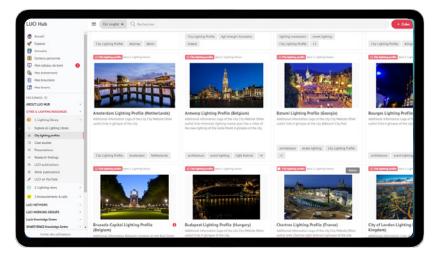
# LUC RESOURCES

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 knowledgesharing tools addressing key issues in urban lighting, LUCI promotes a culture of sustainable lighting.

# The LUCI Hub

The LUCI hub is an online knowledge sharing platform where LUCI members have access to over 1000 publications on latest developments in urban lighting. In 2022, our network of 148 users have shared best practices on urban lighting projects, contributing to harness the collective intelligence of our members.



#### The LUCI Hub is:

#### $\checkmark$ A resource centre on urban lighting

with access to lighting news monitoring, case studies, event presentations, good practices, reports and more on city lighting profiles, strategies and ongoing 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 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 an era of digitalisation of knowledge sharing and remote working, the LUCI Hub has become a strong added value for all members!

#### TODAY, YOU CAN FIND ON THE LUCI HUB:

- 110 case studies, lighting projects and city profiles
- 216 lighting news articles or research reports
- 299 presentations on lighting strategies or projects from past events
- 132 connected users
- 563 new publications in 2022 !



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

Contribute to promote latest news, research and projects in urban lighting from your city, update your city profile, and connect with other members on the LUCI Hub!

>>> Members can request their access on the LUCI website.

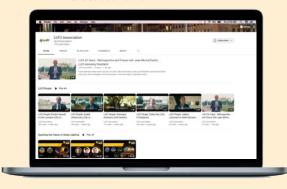
# COMMUNICATION & WEB TOOLS

#### VouTube LUCI VIDEOS

#### Subscribe to @LUCIAssociation

Videos on the LUCI channel showcase its activities and its members.

- Over 2 000 views
- +20% subscribers



#### LUCI NEWSFLASH

Monthly newsletters for LUCI members only.



#### LIGHT FESTIVAL CALENDAR

Over 65 light festivals listed by continent including information on dates, organisers, artists involved, budgets, etc.



#### LUCI WEBSITE

CITIES & LIGHTING NEWSLETTER

Monthly newsletters

projects with the international lighting

subscribers!

community beyond

Non-members can

the network. Over 1 730

subscribe to the Cities & Lighting newsletter here

sharing news from LUCI

and our member cities'

#### www.luciassociation.org

- 35 articles in 2022
- More than 30 000 first-time visitors in 2022



Cities & Lightin

hank you!

UCI Cities & Lighting Aw

laicome to our new City Members







#urbanlighting



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Winners of LUCI Cities & Lighting Awards revealed



ARC (UNITED KINGDOM)



**CITY OF TAMPERE** (FINLAND)



LICHT (GERMANY)

LJUSKULTUR

(SWEDEN)



LUX (FRANCE)



LICHT (GERMANY)



**ELECTIMES** (SOUTH KOREA)



ARC (UNITED KINGDOM)

LUCI Cities & Lighting Awards 2022 :

arès LUCI Cities & Lighting Awards 2022

LIGHT ZOOM LUMIERE

IGHTING AWARDS

LITG (GERMANY)

(FRANCE)

LITE Deutsche Lichtber

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LYON CAPITALE (FRANCE)







LIGHTECTURE (SPAIN)

# (WORLD)



**EURONEWS CULTURE** 

(FRANCE)

#### **INTERVIEWS - COVERAGES**





LYON CAPITALE (FRANCE)



**AFP - FRANCE 24** (FRANCE)

#### **MEDIA PARTNERSHIPS**





LJUSKULTUR (SWEDEN)



# LUC ORGANISATION

# LUCI EXECUTIVE COMMITTEE

LUCI is governed by an Executive Committee (EC), 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

- > Rabat
- > Seoul
- > Glasgow
- > City of London Corporation
- > Eindhoven
- > Gothenburg
- > Rotterdam
- > Lyon

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

- > Fluvius
- > Omexom
- > Signify

In 2022, the EC held online meetings as well as an in-person meeting in Busan, South Korea:

- > 22 June
- >19 October

Amongst the EC, a board is elected to ensure LUCI's governance.

In 2022, during the General Assembly in Busan, South Korea, the City of Jyväskylä was elected as President for a second term.



Meri Lumela Deputy Chair of the City Board JYVÄSKYLÄ LUCI President



Mayor RABAT



Asmaa Rhlalou LUCI Vice President



Je-Hyun Han Vice-Mayor II for Administrative Affairs SEOUI. Vice President for Asia



Imran Alam Councillor GLASGOW LUCI Treasurer

#### LUCI REGIONAL OFFICE FOR ASIA

#### FORMER LROA COORDINATOR



LUCI TEAM The LUCI Head Office consists of a multi-disciplinary team based in Lyon working day to day to ensure the success of the network's activities.



Mark Burton-Page General Director



Jessica Ferey Deputy Director



Anna Hupcejová Events and Communication Coordinator



Cécile Journeau Communication Manager



Jasmine van der Pol Programme Manager

#### FORMER LUCI **TEAM MEMBERS**

Julia Clement Programme Manager (until March 2023)

Shailaja Baichoo Programme Manager (until July 2022)

# FAST FINANCIAL FACTS

#### FINANCIAL OVERVIEW 2019 - 2022



# SAVE THE DATES IN 2023!



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#### LUCI ORGANISATION

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