



Gemeente Rotterdam

# CITY UNDER MICROSCOPE ROTTERDAM

| THE NETHERLANDS

27-29 MARCH 2019

#LUCIcmRotterdam

PROGRAMME





*"I have to change to stay the same"* Willem de Kooning

Full of energy and innovation, Rotterdam reinvented itself after the Second World War. It broke with the past and chose modern architecture. The motto light, air and space, was groundbreaking for that time and still is. Rotterdam always embraces experimentation: almost anything is possible.

You will experience this during our special programme of the LUCI City under Microscope 2019. Rotterdam has a growing number of residents in the city centre and a 24/7 mindset; it

is therefore attractive for tourists all over the world. As a port city Rotterdam has unbreakable ties to the water, from the Maas River that flows right through the city to the many historic city harbours like Delfshaven.

Rotterdam has the ambition to become the European centre of the circular economy by 2050. Sustainable public lighting can make an important change towards that goal.

Since we launched the first Lightplan of Rotterdam in 2011, we have put a lot of effort in improving sustainable lighting of the residential areas as well as in our city centre.

For the people and visitors of Rotterdam to feel safe by light, but also to notice the beauty of their surroundings, our streets are covered with light words and we have put our icons in the spotlight.

Rotterdam, city of light and poetry, is ready to give you a warm welcome.

### Bert Wijbenga

Deputy Mayor, City of Rotterdam



We are very honoured and glad to be in Rotterdam for this LUCI City under Microscope. Rotterdam is one of those cities where light creates a new added value and spurs sustainable growth. A city where light is artistically woven into the urban canvas, enlivening its landmark bridges and tunnels to connect citizens and visitors. Truly a fantastic place to hold the first LUCI gathering of 2019!

A rich programme awaits us with many thought-provoking speeches that will enable us to not only learn from Rotterdam

but also to learn from each other, in the hope that they will inspire our own practice back home.

The city's strong experience in developing beautiful, efficient and smart lighting strategies with its partners will be shared in many ways through plenary conferences, parallel sessions in smaller groups and hands-on workshops as well as with two light tours around the city.

I would like to warmly thank the City of Rotterdam for inviting and welcoming us to such a promising event.

I wish you all a great City under Microscope!

### Hee Seon Jin

President of LUCI  
Vice Mayor II of Seoul



## PROGRAMME AT A GLANCE

### WEDNESDAY 27 MARCH

- 19:30 Welcome cocktail and inauguration of the new facade lighting of Schielandhuis
- 21:15 Light tour: using LEDs to light architecture, art and poetry

### THURSDAY 28 MARCH

- 8:30 Registration and coffee
- 9:00 Opening of the City under Microscope
- 9:20 Rotterdam, a historical perspective
- 9:50 The lighting plan of Rotterdam
- 10:10 Transition and sustainability in Rotterdam
- 11:30 Humble Lamppost
- 12:30 Lunch
- 14:30 Parallel sessions
- 18:30 Light Tour: visit of special lighting projects
- 20:00 Dinner at Zalmhuis

### FRIDAY 29 MARCH

- 9:30 Enhancing and beautifying the City of Rotterdam
- 10:15 The Light Code and Lightplan Willem'sbridge
- 11:30 Light, art and poetry
- 12:30 LUCI Announcements
- 13:00 Lunch
- 14:30 Introduction to Rotterdam design by 3D WORKSHOP: Lighting design with augmented reality
- 20:00 Dinner at Wereldmuseum

### SATURDAY 30 MARCH

OPTIONAL PROGRAMME (see page 10)

# WEDNESDAY 27 MARCH



**11:00 LUCI EXECUTIVE COMMITTEE** / for LUCI EC Members only

◊ VNAB, Boompjes 251, 3011 XZ Rotterdam

**13:45 LUCI PILLAR WORKING GROUPS**



GOVERNANCE



ART & CULTURE



SOCIAL COHESION

**19:30**

**WELCOME COCKTAIL AND INAUGURATION OF  
THE NEW FACADE LIGHTING OF SCHIELANDHUIS**

◊ Schielandshuis, Korte Hoogstraat 31, 3011 GK Rotterdam

**21:15 LIGHT TOUR: USING LEDS TO LIGHT ARCHITECTURE, ART AND POETRY**

Rotterdam sheds its light on meeting places, on notable architecture and on art. The introduction of street lighting made a world of difference to life in the city. This tour by tram will show how technically and creatively inspired individuals have risen to the challenge of using LEDs to light architecture, art and poetry.

# THURSDAY 28 MARCH

Conference Moderator: *Marjolijn van Eijnsden*

**8:30** Registration and coffee

📍 Room Mate Bruno Hotel, ground floor meeting room,  
Wilhelminakade 52, 3072 AR Rotterdam

**9:00 OPENING OF THE LUCI CITY UNDER MICROSCOPE ROTTERDAM**

*Bert Wijbenga, Deputy Mayor, City of Rotterdam*

*Kiewook Kwon, General Director, Urban Planning Bureau, Seoul Metropolitan Government*

**9:20 ROTTERDAM, A HISTORICAL PERSPECTIVE**

*Paul van de Laar, General Director, Museum Rotterdam*

Almost completely destroyed during World War II, the centre of Rotterdam is known for its ground-breaking architecture. Paul van de Laar will share how Rotterdam was rebuilt after the war and explain the choices that were made that contributed to making Rotterdam what it is now. The modern history of a modern city.

**9:50 THE LIGHTING PLAN OF ROTTERDAM**

*Annemieke Fontein, Head of Landscape Architecture Department, City of Rotterdam*

The Lighting Plan is a guideline for all the lighting projects in Rotterdam. While most lighting plans focus primarily on beautification of the historical city centre, Rotterdam, in contrast, has developed a lighting scheme which integrates functional lighting with ambient lighting on a city-wide scale.

**10:10 KEYNOTE: TRANSITION AND SUSTAINABILITY IN ROTTERDAM**

*Jan Rotmans, Professor in Sustainability Transitions, Erasmus University Rotterdam*

The climate is changing, and Rotterdam must adapt. What does it take to make Rotterdam resilient? What are the opportunities?

**11:10 Coffee break**

**11:30 HUMBLE LAMPPOST**

*Graham Colclough, Chair for integrated infrastructure and data, European Innovation Partnership on Smart Cities and Communities (EIP-SCC)*

The EIP-SCC "Humble Lamppost" initiative, launched in 2014, seeks to upgrade 10 million lampposts across European cities. Graham Colclough will discuss the initiative which brings six EU city-clusters together to collaborate and demonstrate the value of a new approach to scale smart city solutions.

**12:30 Bus to VNAB for lunch and rest of afternoon sessions**

**12:45 Lunch**

📍 VNAB, Boompjes 251, 3011 XZ Rotterdam

## 14:30 PARALLEL SESSIONS

These 30-minute sessions take place simultaneously and then are repeated throughout the afternoon, giving participants the opportunity to attend all four sessions.

### › New lightplan for the city of The Hague

*René Oomkes, Public Lighting Consultant for the City of The Hague*

*Ritsert Huijsman, Design Manager at Studio DL*

Ritsert Huijsman from Studio DL and René Oomkes, consultant for the City of The Hague, will share insights about the Digital Masterplan developed for the municipality of The Hague. Ritsert will give an overview of the masterplan-making process, focusing on how it should be adaptive, so it can grow with the city and anticipate changing circumstances and technological innovations. René will share The Hague's perspective of using this tool, detailing the context, the method and the user experience so far.

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### › Dynamic dimming, a pilot project in the Bredenoord residential area

*Peter Wijnands, Asset Manager, Public Lighting, City of Rotterdam*

*Ruben van Bochove, Location and IT Manager, Nobralux*

Citizens increasingly demand more and better lighting while the municipality is obliged to save energy. The City of Rotterdam undertook some resident research: how can dynamic lighting contribute to the feeling of social safety while still saving energy? In this session, speakers will share the results of the research and the learning points of Rotterdam's dynamic lighting and light management systems.

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### › The Maastunnel, a special monument of Rotterdam in a new light

*Edwin van't Oor, Technical Engineer, City of Rotterdam*

*Rutger Mullemeyer, Electronics Engineer, Arcadis*

Speakers will present about the renovation of the tunnel lighting in the Maastunnel, a registered historical monument. The "look and feel" of the original low-pressure sodium lamps is a key aspect of the monument. Reproducing the same colour experience and appearance with LED proved to be a challenge within the boundaries of the tunnel safety regulations. Edwin and Rutger will explain the process for finding the right solution and share the final result.

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### › A new landmark for the harbour of Harlingen

*Presentation by the winning team of the Light Challenge competition*

*Nick Renkema, Student, Human Technology, Alfa-college Groningen*

The Light Challenge is an innovation/design competition for public lighting in the Netherlands. Nick Renkema and his team designed a landmark for the harbour of Harlingen. Nick will present their winning design, explaining more about the team's process, design and success.

THURSDAY 28 MARCH



**17:00** Free time

**18:30 LIGHT TOUR: VISIT OF SPECIAL LIGHTING PROJECTS**

Rotterdam is constantly working on the design of the public space including the look and feel after dark. This bus tour will show special projects along the route, like the Maastunnel, the Willem'sbridge, and many other lit icons of the city.

**20:00 DINNER AT ZALMHUIS**

⌚ Schaardijk 396, 2909 LA Capelle aan den IJssel, Rotterdam

**22:30** Return to hotel by bus

# FRIDAY 29 MARCH

**9:15** Registration and coffee

Room Mate Bruno Hotel, ground floor meeting room,  
Wilhelminakade 52, 3072, Rotterdam

## 9:30 POETRY PERFORMANCE

*Derek Otte, Dutch poet and spoken-word artist, Rotterdam City Poet 2018*

## 9:35 KEYNOTE: ENHANCING AND BEAUTIFYING THE CITY OF ROTTERDAM

*Wim Pijbes, Director of Droom en Daad (Dream and Do),  
former General Director of the Rijksmuseum*

Stichting Droom en Daad transforms dreams into deeds that enhance and beautify the city of Rotterdam. The foundation invests, initiates, stimulates and realises. This is how it contributes to an attractive city for its inhabitants and visitors.

## 10:15 THE LIGHT CODE AND LIGHTPLAN WILLEMSBRIDGE

*Norbert Wasserfurth, Owner, Studio DL and author of "The Light Code"*

"Light encodes reality". This is the main intention that inspires Norbert Wasserfurth and his team in their work as lighting designers. They claim that a specific light code is already fixed in the structure of the city. The task of the lighting design is to determine this code and underline it gently with light. This philosophy will be exemplified with the case of the Willemsbridge.

**11:00** Coffee break

## 11:30 LIGHT, ART AND POETRY

*Craig Morrison, Creative and Artistic Director, CMD*

*Marjolijn van der Meijden, Project leader, Art & Public Space,  
Centre for Visual Art, Rotterdam*

*Kila van der Starre, Literary Scholar and Poetry Critic, Utrecht University*

As partners, the City of Rotterdam and the CBK Rotterdam (Centre for the Arts) produced a route map: "Rotterdam City of Light and Poetry" to shine light on the results of partnerships. This session will introduce Rotterdam's art in public places and the role of light in relation to art. Speakers will describe the reason behind the many poetry lines in the city as well as explain how the idea of a light route map came to be.





## 12:30 LUCI ANNOUNCEMENTS

Upcoming LUCI activities and events will be presented.

**13:00** Bus to VNAB for lunch and rest of afternoon sessions

**13:15** Lunch

📍 VNAB, Boompjes 251, 3011 XZ Rotterdam

## 14:30 INTRODUCTION TO ROTTERDAM DESIGN BY 3D

*Joop Polfliet, Manager, Civil Registry, City of Rotterdam*

The City of Rotterdam created a digital 3D model of the city. This model includes buildings, lamp posts, cables, pipes and trees. It is one of the most detailed and accurate 3D city models in the world. The model can be used to visualise, analyse and simulate plans and to communicate with citizens. Compared to a 2D map or plan, it adds a lot of value for public lighting. This presentation will give insights about the model and explain how the City of Rotterdam has used it in various ways.

### WORKSHOP: LIGHTING DESIGN WITH AUGMENTED REALITY

*Patrick Morren, Senior Advisor on innovations, Tauw Group*

What if you could change the regular lamp posts of your street into glow in the dark markings with one button? In this interactive presentation and workshop, Patrick Morren will take you on a journey to experience virtual and augmented reality and their implications for lighting in the public space. Since lighting cannot simply be understood through text and needs to be experienced, virtual reality and augmented reality design provide a way to experience and interact with virtual design. In this workshop, you'll experience this yourself!

**17:00** Free time

## 20:00 DINNER AT WERELDMUSEUM

📍 Willemsekade 25, 3016 DM Rotterdam

**22:30** Return to hotel by bus



## 9:30 SPLASHTOUR: VISIT ROTTERDAM BY A UNIQUE AMPHIBIAN BUS

(Limited space available, registration required)

📍 Meet in lobby of Room Mate Bruno Hotel

Splashtours offer a city tour in Rotterdam unlike any other. A tour in the unique amphibian bus is an unforgettable experience for young and old. Admire the highlights and splash into the Maas! A day of Rotterdam is not complete without a visit to the Euromast. With Splashtours you can see the city from land and water.

## 12:00 Lunch at Foodhallen

📍 Wilhelminakade 58, 3072 AR Rotterdam

## THURSDAY 28 MARCH

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### **Marjolijn van Eijnsden** | Conference Moderator

Marjolijn is a city of Rotterdam enthusiast. "Together we can make the city more future-proof, attractive and more fun for its users!" is one of her main slogans. As a community builder, she brings together enthusiastic professionals, entrepreneurs and citizens of Rotterdam to work on that ambition. By lecturing in climate adaptation, urban planning and water management she helps students in becoming young professionals and co-creators in a future-proof and attractive city.



## OPENING OF THE CITY UNDER MICROSCOPE

### **Bert Wijbenga** | Deputy Mayor, City of Rotterdam

Prior to becoming Deputy Mayor, Bert Wijbenga was Chairman of the Board of Woonbron Rotterdam, a major housing corporation. Prior to that, he was Chief Commissioner, Chief of Police of Flevoland.



### **Kiewook Kwon** | General Director, Urban Planning Bureau, Seoul Metropolitan Government

Kiewook Kwon is the General Director of the Urban Planning Bureau in Seoul Metropolitan Government. He studied civil engineering at Seoul National University and urban Planning at the University of Pennsylvania. He worked in the Water Circulation Safety Bureau, laying the foundations for natural restoration and regional development. Last year, he also established a new urban lighting master plan and recently has been leading the 2040 urban planning in Seoul. The Urban Light Policy Division, which establishes and manages the dynamic night scenery of Seoul, is under his leadership.

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## MORNING PLENARY SESSIONS



### **Paul van de Laar** | General Director, Museum Rotterdam

Prof. Dr. Paul Th. van de Laar studied economic and social history and received his PhD from the Tinbergen Institute, graduate school of Economics of Erasmus University. He is general director of the Museum Rotterdam and endowed professor in urban history in the Erasmus University School of History, Culture and Communication. His research topics include urban visual culture, transnational cities and cultural heritage. As a museum director, his ambition is to set up a city museum for the next generation, that uses contemporary urban heritage as a resource for creating the future.



### **Annemieke Fontein** | Head of Landscape Architecture Department, City of Rotterdam

Annemieke Fontein has studied landscape architecture in Amsterdam and Ghent, and urban design in Copenhagen. She has worked for the City of Rotterdam for approximately 20 years. As the Head of Rotterdam's Landscape Architecture Department, she played a key role in the "Rotterdam Style" guidelines which aim to improve the quality and sustainability of public space through better maintenance, design, urban furniture and light.



### **Jan Rotmans** | Professor in Sustainability Transitions, Erasmus University Rotterdam

Professor Jan Rotmans is an Independent Researcher and founder of DRIFT (Dutch Research Institute for Transitions) and full professor affiliated to the Faculty of General Sciences and the Faculty of Business Administration at the Erasmus University Rotterdam.



### **Graham Colclough** | Chair for integrated infrastructure and data, European Innovation Partnership on Smart Cities and Communities (EIP-SCC)

Graham is committed to transforming the cities market globally. Global is the red thread that runs through Graham's career, having enjoyed living in multiple cultures and working in all continents. Now, as founding partner of UrbanDNA, a specialist advisory partnership, Graham seeks to cause transformation of, and resolve the critical gap in, the cities market.

### AFTERNOON PARALLEL SESSIONS



#### Ritsert Huijsman | Design Manager at Studio DL

Ritsert is trained as an industrial designer (TU Delft) with an affinity for public space. Before joining Studio DL, he worked at Ziut (market leader in public lighting in the Netherlands) as senior lighting designer and manager of the consultancy department. Since 2012, Ritsert is responsible for the Dutch projects and clients of Studio DL. His focus is on managing the design process. Recent projects include the Nieuwe Markt with the Forum building in Groningen, Jaarbeursplein Utrecht, Willemsbrug Rotterdam and the Digital Masterplan for The Hague.



#### René Oomkes | Public Lighting Consultant for the City of The Hague

René has a bachelor's degree in Civil Engineering and obtained a pre-master's in urban planning at the University of Groningen. After his studies, he quickly ended up in the public lighting industry, where he completed various projects from design to execution. René is currently working for the Municipality of The Hague as a public lighting consultant with the asset management department.



#### Peter Wijnands | Asset Manager, Public Lighting, City of Rotterdam

Peter has 18 years of experience in the discipline of public lighting and is specialised in light management and sustainability. He is also responsible for the electrical safety of the public lighting of the city of Rotterdam. Peter has a bachelor's degree in Industrial Management and Business Management. In parallel, he has studied electrical engineering and gas technology.



#### Ruben van Bochave | Location and IT Manager, Nobralux

Ruben van Bochave has a bachelor's degree in Electrical Engineering and a bachelor's degree in Engineering and Management. He works at Nobralux, market leader in managing public lighting and giving independent advice to municipalities. As manager of southern Holland, he is responsible for all activities in that area, the development of Liteweb (managing software) and the overall strategy. With 20 years of experience, Ruben is an expert on all fields of public lighting. For the last 5 years he has a focus on Smart City and Smart Lighting.



#### Edwin van't Oor | Technical Engineer, City of Rotterdam

Edwin van't Oor is a technical engineer at the City of Rotterdam since 2005. He has worked on several projects in Rotterdam where he did the engineering of the electrical installations, such as Randstad Rail (2006), which is a light rail transit between Rotterdam and The Hague, Metro Central Station (2009) and a large underground bicycle parking facility (2013). He also did the engineering of the lighting installation of the monumental Wereldmuseum in Rotterdam (2014). Since 2012, he has been involved in the renovation/restoration of the Maastunnel which also includes the tunnel lighting.



#### Rutger Mullemeyer | Electronics Engineer, Arcadis

Rutger Mullemeyer is an electronics engineer with Arcadis, specialized in installations for tunnels, bridges and locks. His career began in the field of data communications and cyber security in the nineties and developed into consultancy and project management for complex infrastructure installations. He was and is consultant and principal designer for several tunnels in the Netherlands and Belgium as well as project manager on projects concerning operation and maintenance for infrastructure assets.



#### Nick Renkema | Student, Human Technology, Alfa-college Groningen

Nick designs, innovates and tests products to ensure they conform with consumer requirements. Together with three other students, he won the Light Challenge 2018.

FRIDAY 29 MARCH

## MORNING PLENARY SESSIONS



**Wim Pijbes** | Director of Droom en Daad (Dream and Do), former General Director of the Rijksmuseum  
Wim Pijbes is director of the Rotterdam based philanthropic foundation Droom en Daad (Dream and Do). He is a Dutch art historian and emeritus General Director of the Rijksmuseum. His initiatives there include the museum's transformation and grand reopening in April 2013.



**Norbert Wasserfurth** | Owner, Studio DL and author of « The Light Code »

Norbert Wasserfurth studied electrical engineering at TU Gliwice and lighting technology at the Technical University of Warsaw followed by an additional study in lighting technology at the Technical University Karlsruhe. Norbert has since then worked as a lighting designer, product designer and manager in the lighting industry. In 1997, he founded his own design practice Dynamisches Licht/ Studio DL in Hildesheim. He is also the author of the book "The Light Code".



**Craig Morrison** | Creative and Artistic Director, CMD

Craig Morrison works as a Creative and Artistic Director for outdoor arts events and lighting festivals. He works to create projects that engage with people in large-scale outdoor spaces using the urban landscape as a gallery or stage. He was made an honorary member of the Alan Turing Society following his BBC Space commission. Craig Morrison uses the written word and poetry as a stimulus and also works with both emerging and world-class artists to create site-specific events with art and poetry as its core.



**Marjolijn van der Meijden** | Project leader Art & Public Space, Centre for Visual Art (in Rotterdam)

After completing her studies at Willem de Kooning Academy and specialising in art and management at Erasmus University, Marjolijn participated in the city's development over the years through managing and facilitating various art projects in public space. She works for the CBK (Centre for the Arts) in Rotterdam and develops art projects as a partner with the city dealing with public initiatives such as contemporary monuments.



**Kila van der Starre** | Literary Scholar and Poetry Critic, Utrecht University

Kila van der Starre is a literary scholar and poetry critic at Utrecht University. She specialises in "poetry off the page", such as Instagram poetry, performance poetry and street poetry. In 2017, she launched Straatpoesie.nl, a crowd-sourcing website which collects all examples of poems that can be read in the public areas of the Netherlands and Flanders.

## AFTERNOON WORKSHOPS



**Joop Polfliet** | Manager, Civil Registry, City of Rotterdam

Joop Polfliet is Manager Civil Registry at the City of Rotterdam. He has worked for the City of Rotterdam for 18 years after getting his Bachelor degree in Business Engineering. He has had several management positions in the Public Works department.



**Patrick Morren** | Senior Advisor on innovations, Tauw Group

Patrick Morren is an enthusiastic and driven senior advisor at environmental engineering agency Tauw. He focuses on innovations and data driven developments, such as virtual and augmented reality. For many years, Patrick has facilitated countless creative and sustainability workshops. He works on new applications of innovative technologies aiming to connect specialist knowledge and designs (e.g. of lighting) to the stakeholders who will use the public space in their daily lives.

## Legend



Venue



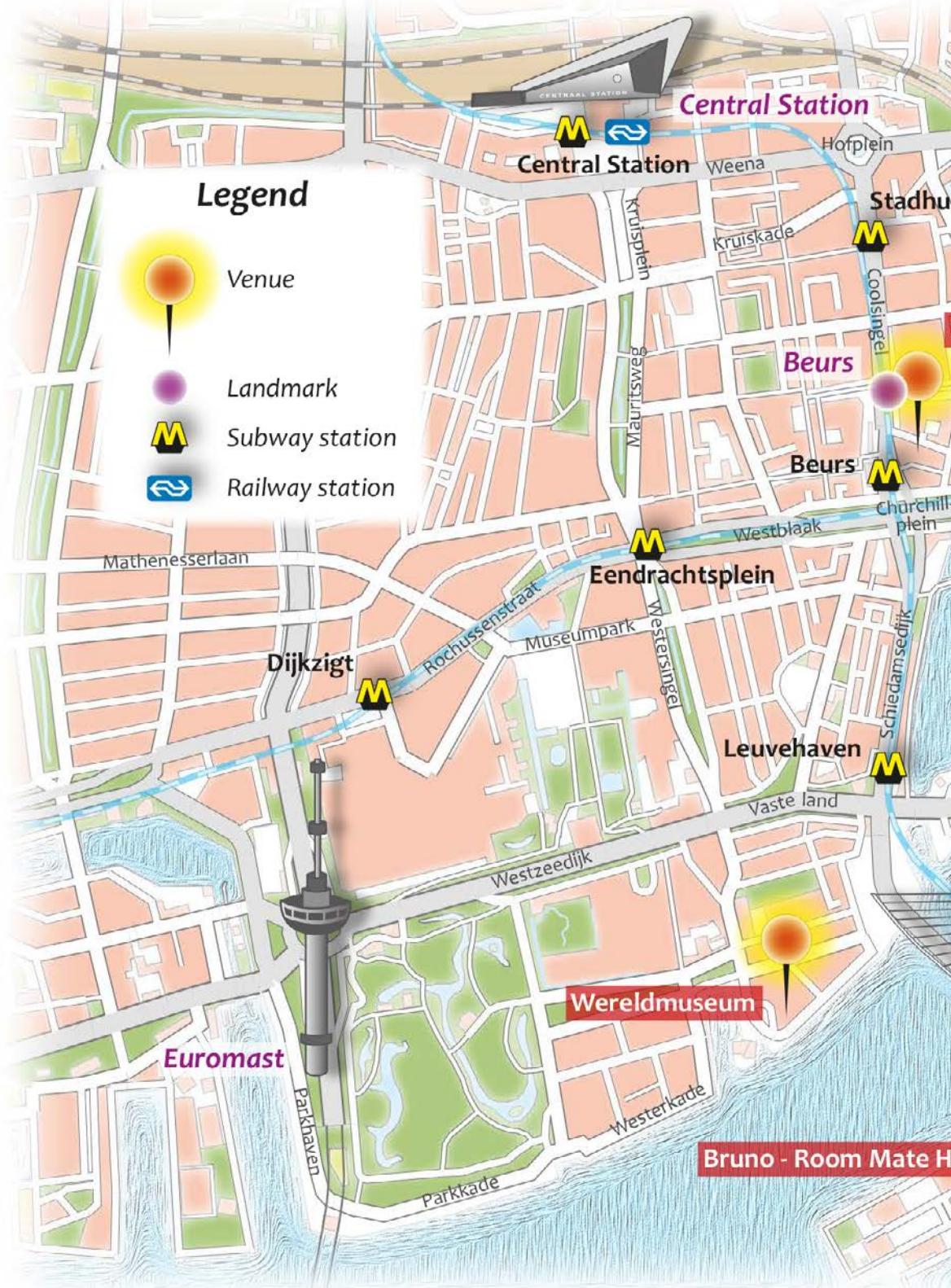
Landmark



Subway station



Railway station



# Rotterdam – City Centre

## Venues and landmarks

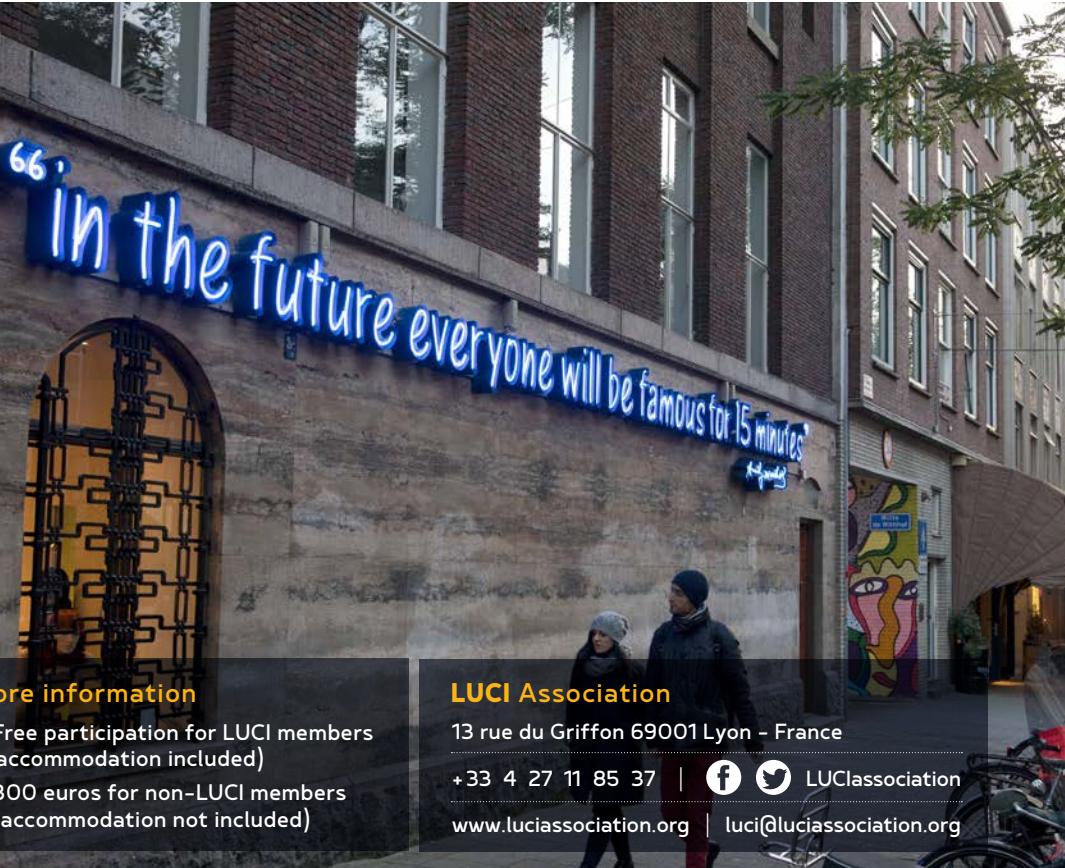


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LUCI (Lighting Urban Community International) is the international network of cities on urban lighting bringing together around 70 municipalities across the world. It creates spaces for exchange of knowledge and good practices, and helps cities develop an appropriate and sustainable use of urban lighting.

A LUCI City under Microscope event enables participants to discover the lighting strategy of a member city over a two day period.

A chance to see a city in its best light!



#### More information

- Free participation for LUCI members (accommodation included)
- 300 euros for non-LUCI members (accommodation not included)

#### LUCI Association

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