

# Advancement of intelligent urban lighting

13 October 2016 – Brussels  
SSL-erate final event





# LUCI – The international network of cities on urban lighting







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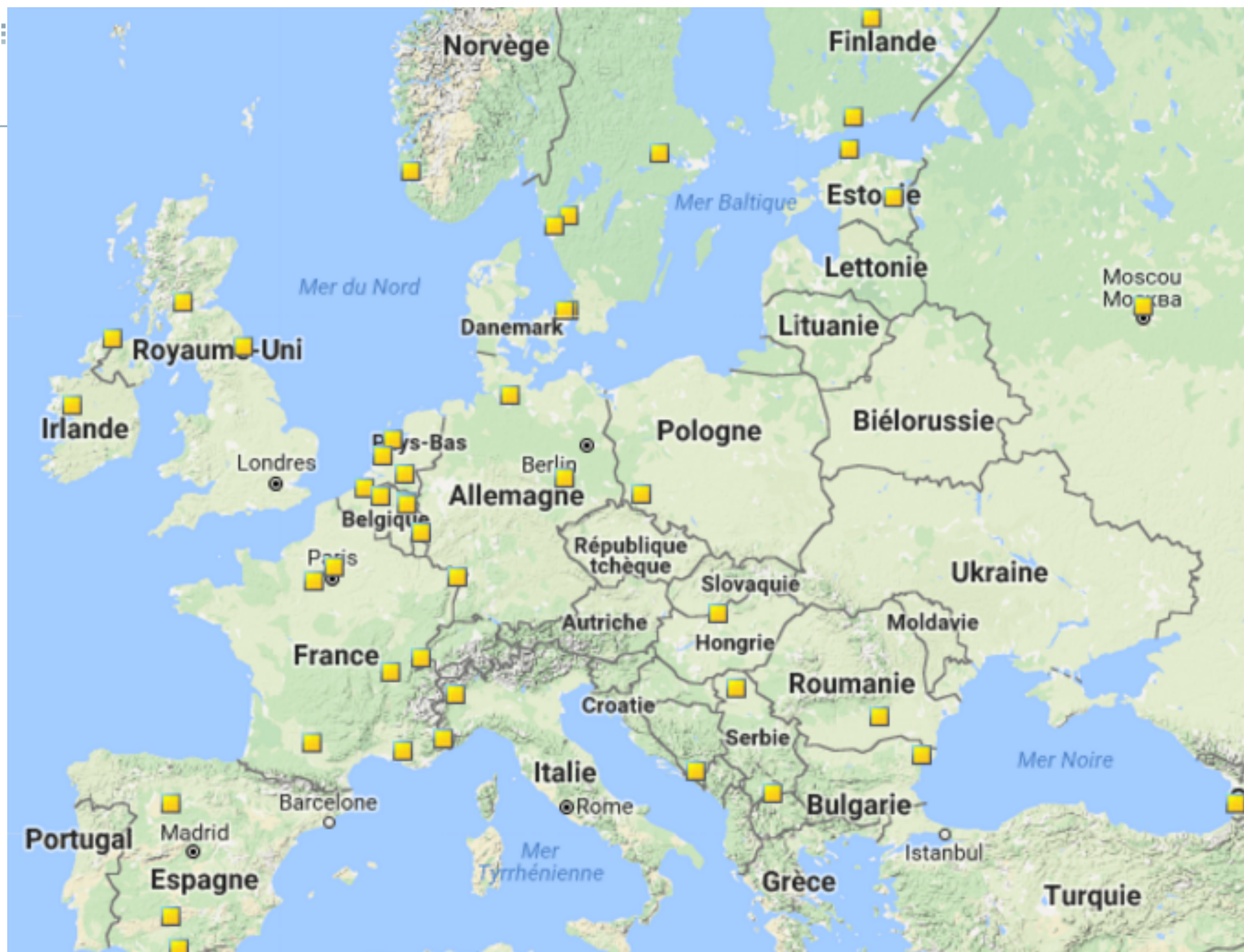
**Founded in Lyon in 2002**

**71 city members on 5 continents**

**40 cities in EU from 18 Member states**

**50 associated members**









# **LUCI – The international network of cities on urban lighting**

## **Knowledge Exchange Platform**

**LUCI vision: “cities engaged in using light in the functioning of the city to enhance quality of life”**





# New lighting technologies and their impact on urban lighting







# New lighting technologies and their impact on urban lighting

Increased energy efficiency

Lower costs over maintenance and life expectancy

Promoting a culture of sustainability in lighting

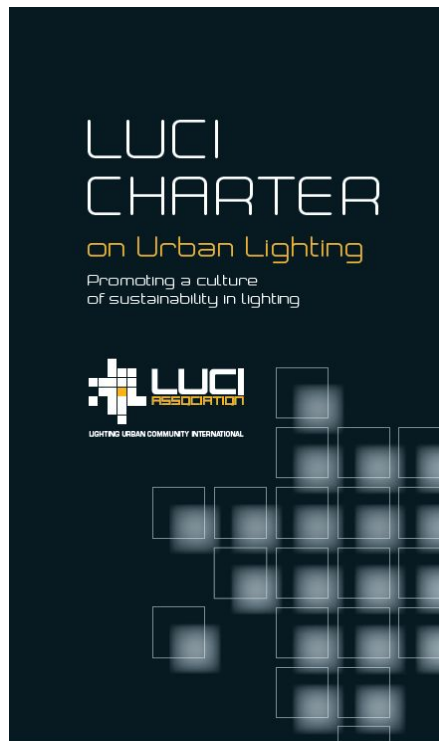


# Sustainable Urban Lighting



## LUCI CHARTER ON URBAN LIGHTING

- Gives a clear framework of sustainable public lighting strategies
- Signed by over 50 cities worldwide since 2010







# **New lighting technologies and their impact on urban lighting**

**New lighting technologies combined with ICT**

**Powerful catalyst and tool to enhance quality of Life**

**Benefits of intelligent outdoor lighting**

- ✓ **Better controls**
- ✓ **New possibilities for cities**

**Innovators / Early adopters / latecomers**



# Glasgow (UK)



- Pilot project with 160 controllable LED lights
- Fitted with sensors that monitor air pollution, noise and footfall
- Lights increase in brightness as a cyclist or pedestrian approaches
- Lights increase in brightness if the noise levels rise and alert security services





# Lyon (France)



- Temporality - lighting that adapts to various requirements and uses of public areas and the people in them
- Certain sites and monuments in the city highlighted according to the time of night - inhabitants of Lyon experience the city differently
- 4 different lighting scenarios for the Lyon Courthouse, according to time of night







## Needs and Challenges







## **Needs and Challenges**

**Cross border and international dialogue**

**Collaboration between different city departments**

**High level drivers needed**

**Attractiveness and comparative advantage for cities**



## **Needs and Challenges**

**Open dialogue on what is really needed**

**Careful planning of LED projects**

**Maintenance aspects taken into account from start**

**New competencies and skills required**

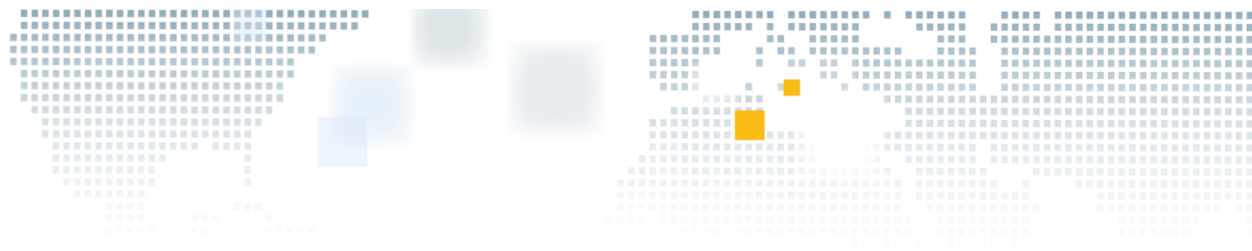
**Open solutions and interoperable protocols**

**Issue of data ownership and data security**



# Conclusion





# Thank you for your attention !

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