

The SMART-SPACE project: beyond connected LED lighting!

Kristof Verhoest, Project Leader SMART-SPACE, City of Ostend

WHY SMART-SPACE?



NWE : great **challenge** to shift towards **low carbon economy by 2050**



Optimising public lighting: big potential to contribute to energy efficiency and carbon reduction in significant way

Step 1

ledification ongoing save >50% on actual energy consumption

(depending on lamp types used)



smart public lighting already available but lack of large-scale roll-out!

About SMART-SPACE



facilitate the uptake of smart lighting

enhance energyefficiency

reduce CO2 emission

FOR WHOM

small & mid-sized municipalities

HOW

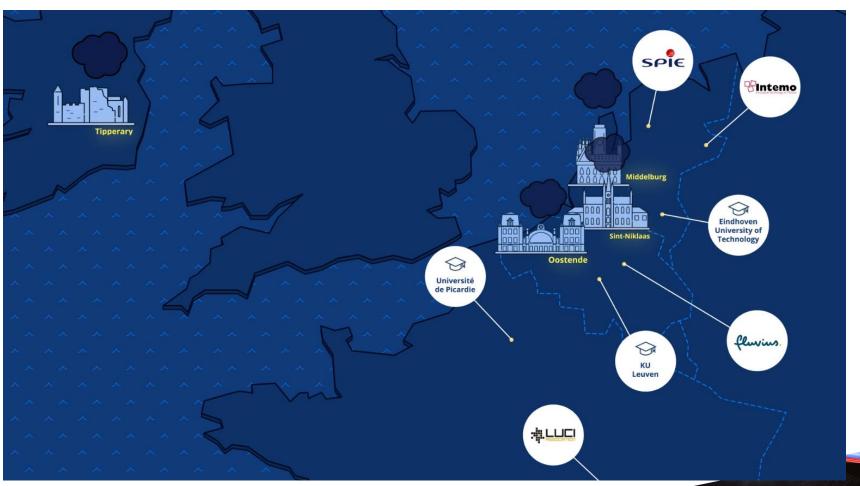
implementing smart lighting infrastructure in 4 pilot cities

starting from the needs and wishes of the users of the public space

improving energy use and liveability in the public space

Project partners









4 pilot cities: a variety of different public spaces















Historical centre

Central squares

Shopping streets and commercial areas

Entertainment areas

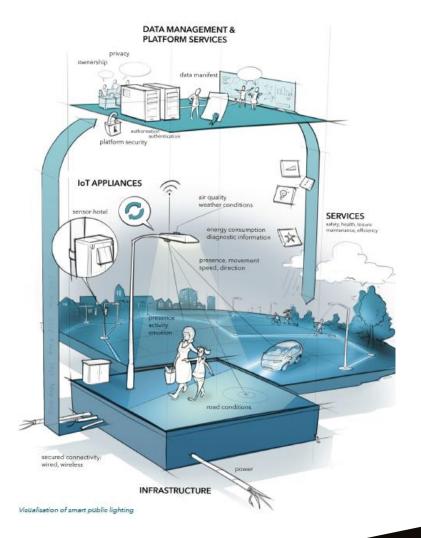
Collector roads

Rural villages

Station square

New urban development

What is "smart" lighting?



Data management

Controls (sensors & software)

Lighting (public lighting including special elements)

Infrastructure (energy & connectivity)





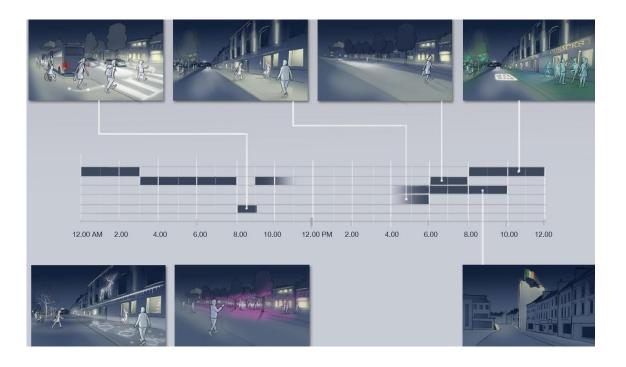
Deep dive	Investigating citizens needsCool wall session
Use case	
Common needs	
V	
Smart light	
Analysis	





• Investigating citizens needs Cool wall session Deep dive • Workshops locals/municipality/expert • Scenario's & storyboard Use case Common needs

Smart light **Analysis**



More information: Webinar 2 The value of smart public lighting for improving the life of citizens 29th April 2021



Deep dive

• Investigating citizens needs

Cool wall session

Use case

• Workshops locals/municipality/expert

Scenario's & storyboard

Common needs

• Replicability (10 follower cities)

Relevance of the smart interaction

Smart light

Analysis





Investigating citizens needs

Cool wall session

Use case

• Workshops locals/municipality/expert

• Scenario's & storyboard

Common needs

• Replicability (10 follower cities)

• Relevance of the smart interaction

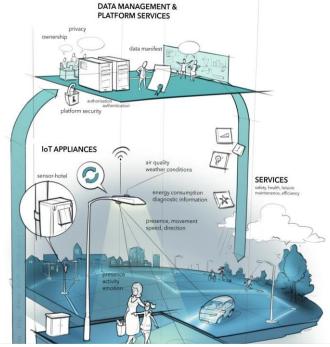
Smart light

• System design

• Implementation

Analysis





More information:

Webinar 3

Creating a smart light system: Some lessons learned from the SMART-SPACE project 3rd June 2021



Deep dive

• Investigating citizens needs

Cool wall session

Use case

• Workshops locals/municipality/expert

• Scenario's & storyboard

Common needs

• Replicability (10 follower cities)

• Relevance (smart interaction)

Smart light

System design

Implementation

Analysis

• Energy use & light quality

• Citizens perspective



SMART-SPACE facilitates the outroll of smart public lighting!



Demonstration

of adjustable smart light system in **4 pilot cities**

Determination of the real potential of smart public lighting on the reduction of energy consumption and CO2 emission

Transition
roadmap and
toolbox to help
other
municipalities/
grid operators to
implement smart
public lighting

The redaction of a white paper on smart public lighting as an inspiration for decision making on smart public lighting

Stimulating
knowledge
exchange and
networking by
the creation of a
sustainable
SMART-SPACE
knowledge center



Thank you!

Kristof Verhoest

Project Leader SMART-SPACE City of Ostend

<u>Kristof.verhoest@oostende.be</u> +32497/051889

https://www.nweurope.eu/smart-space