

EU Brokerage Event

on Industrial KET* in Horizon Europe

*Key Enabling Technologies

10th November 2022 • Strasbourg

Conference &
Bilateral/B2B Meetings

Calls
2023- 2024

Project idea/ Field of expertise:

Visible Light Technologies

Organisation Name:

MATERIALS – Institute for Surface Technologies and Photonics

Smart Connected Lighting

JOANNEUM RESEARCH Forschungsges.mbH

Addressed topic(s):

Smart Connected Lighting:

- Analog / Digital circuit design
- Visible Light Communication – VLC
- Visible Light Positioning – VLP
- Visible Light Sensing – VLS
- Solid-state lighting technology (LED, Human Centered Lighting – HCL)

Joanneum Research

- Joanneum Research is active in the following areas :
 - Information- and production technologies
 - Human Technologies and medicine (<https://www.joanneum.at/en/>)
 - Society and sustainability
- More than 450 employees from over 25 nations, 7 sites, around 50 million euros of research output per year
- Ongoing continuous participation in various EU programs:
 - most recent projects: PHABULO μ S, NextGenMicrofluidics, MedPhab, FlexFunction2Sustain
- MATERIALS – Institute for Surface Technologies and Photonics:
 - Smart Connected Lighting research group

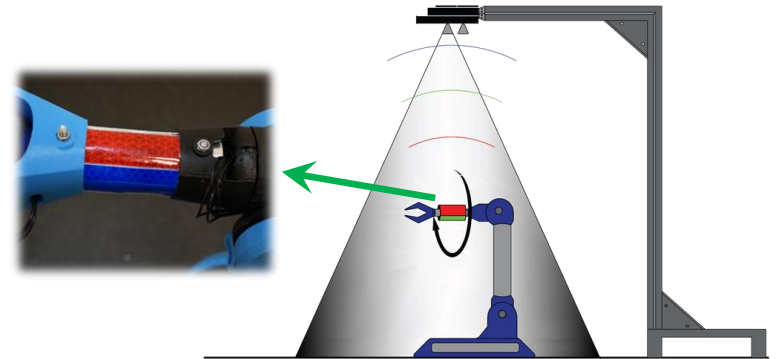


Our expertise

Smart connected Lighting is actively assigning new functionalities to light in networked systems, where luminaires are not only equipped with sensors but light itself is used to fulfill sensor tasks.

Our interdisciplinary team has a strong expertise in realizing novel communication and sensing solutions based on visible light, giving the advantages of:

- low-cost / low-complex solutions for manifold application areas (e.g., Industry 4.0, Automotive, Smart Home)
- independent from and robust against RF interferences
- direct-detect & ad-hoc communication and sensing
- obligatory room lighting remains unhampered
- security & privacy preserving solutions



Additionally, Smart Connected Lighting also is engaged in research of non-visual effects of light to actively support the well-being of humans, animals, or plants.

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