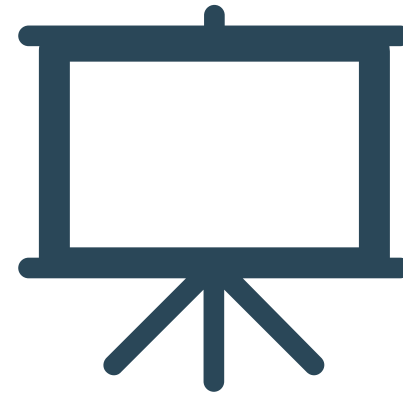


# Modern Street Lighting as part of Traffic Management

- About Lixtec GmbH/MEDS GmbH
- History of street lighting
- State of the art in street lighting
- Today's demands
- Combination of network and sensors
- Traffic data that can be retrieved



# Agenda



Founded

- In 2012
- by DI Günther Spath



Headquarter

- Graz/Austria



In-House

- Sales and Project Management
- Research and Development

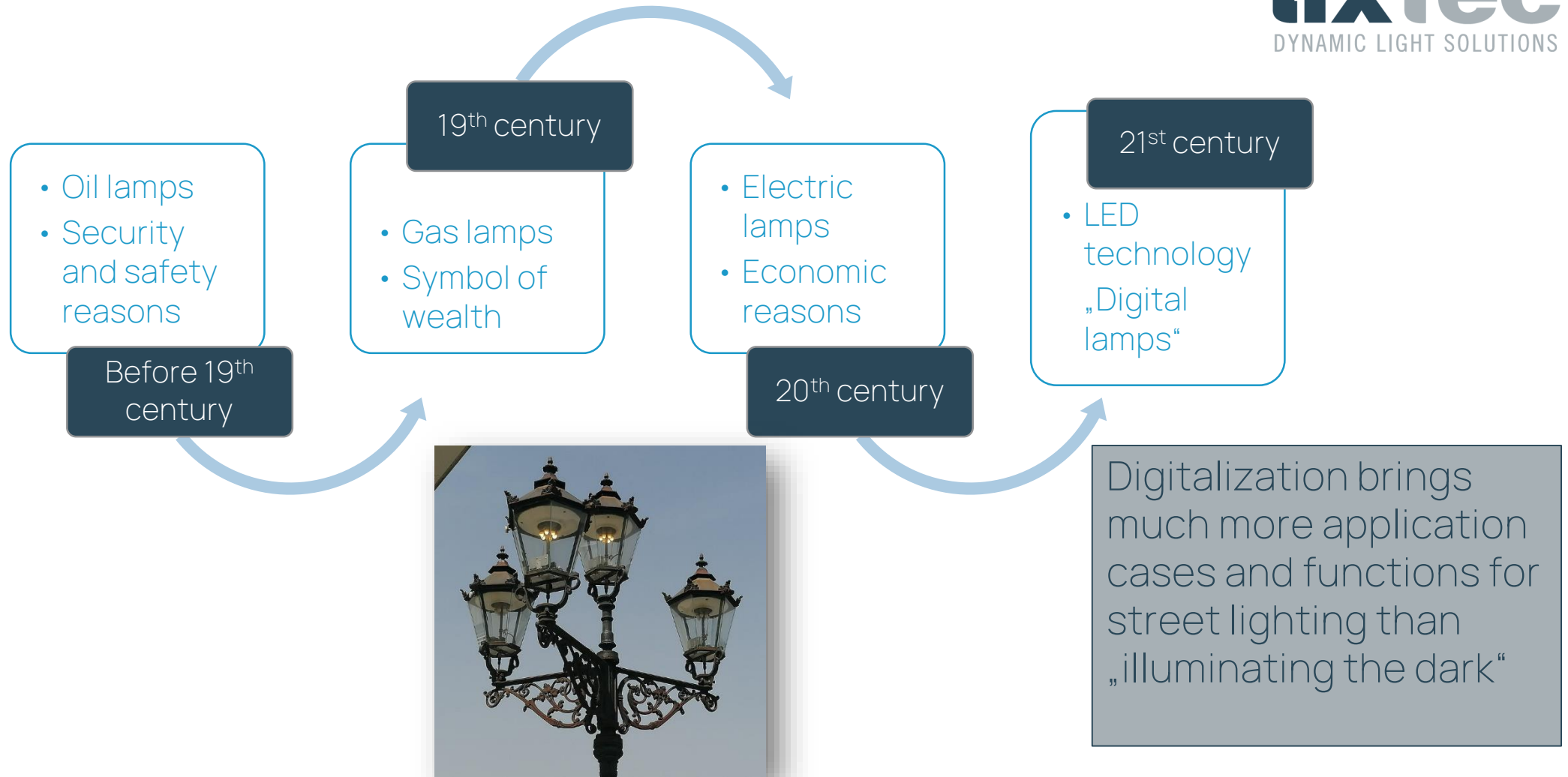


# About lixtec



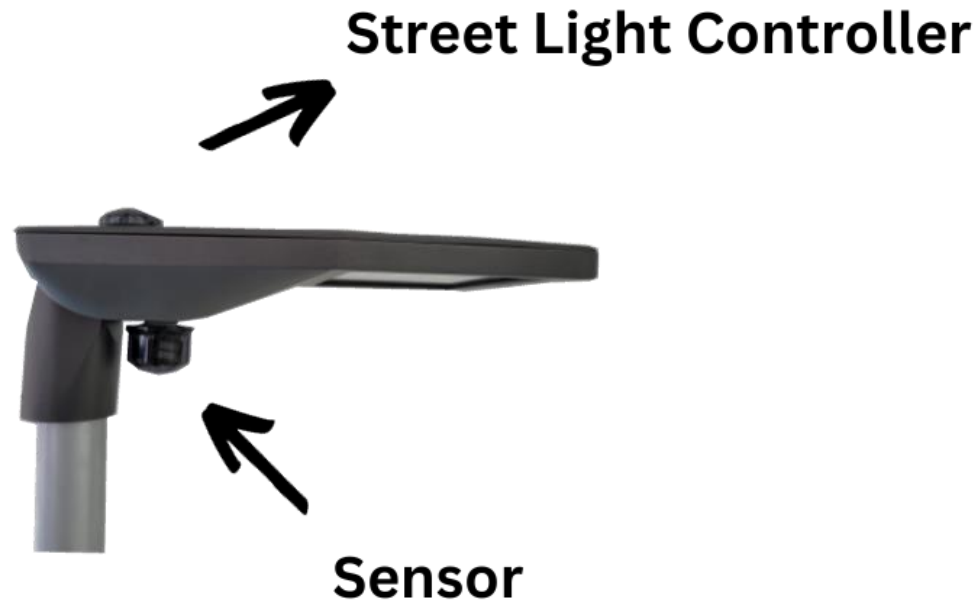
Foto: NASA

# Light Pollution



# History of street lighting





- ❖ LED street lights
- ❖ Standard-compliant light output
- ❖ No upside light emissions
  - insect protection
- ❖ Adequate light colour
- ❖ Dimmable driver (DALI-2)
- ❖ „Zhaga“-Interfaces for connecting with controllers and/or sensors

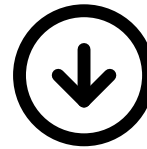
„State of the art“



ENERGY SAVINGS



UNCHANGED  
SENSE OF SECURITY



COST REDUCTION



LESS LIGHT POLLUTION



EXTENSION OF LED'S LIFETIME

Today's demands on street lighting





## Motion Sensors

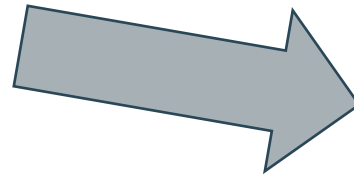
- Radar or „Passive Infrared“
- Counting of objects
- Differentiation of objects

## Optical Sensors

- e.g. Cameras
- Detailed information about traffic
- Detailed information about parking situations

# Examples for different sensors

- ❖ Number of road users
- ❖ Category of road users
- ❖ Direction of traffic
- ❖ Speed of road users



How to use this data?

- ❖ Heatmaps of public spaces
- ❖ Statistics of traffic volume
- ❖ Overall speed of vehicles

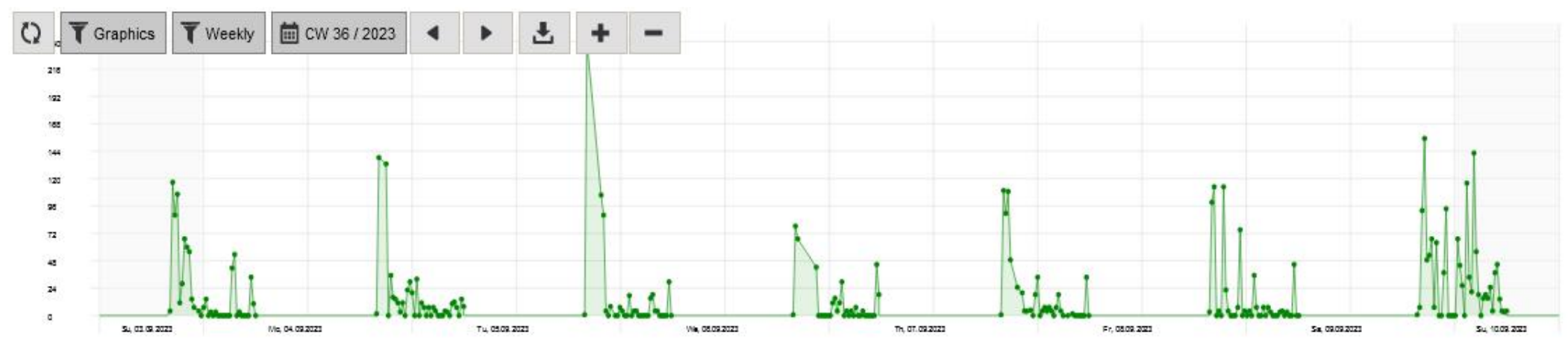
Traffic data that can be retrieved



Eisbergpark St. Pölten

Eisbergpark Ost LP12S

- Master data
- State
- Configuration
- Disturbances
- System tasks
- Energy statistics
- Motion counter
- LED brightness



Example



- ❖ Transformation from „lanterns“ to communication points
- ❖ Usage of existing infrastructure
- ❖ New technology enhances a trivial system to become part of a new industry
- ❖ Simple implementation for small entities
- ❖ Generating traffic data

## Conlusion

## Contact Details

Martin Niggas  
M: +43 660 927 33 38  
E: [m.niggas@lixtec.com](mailto:m.niggas@lixtec.com)

Thank you for your interest!

