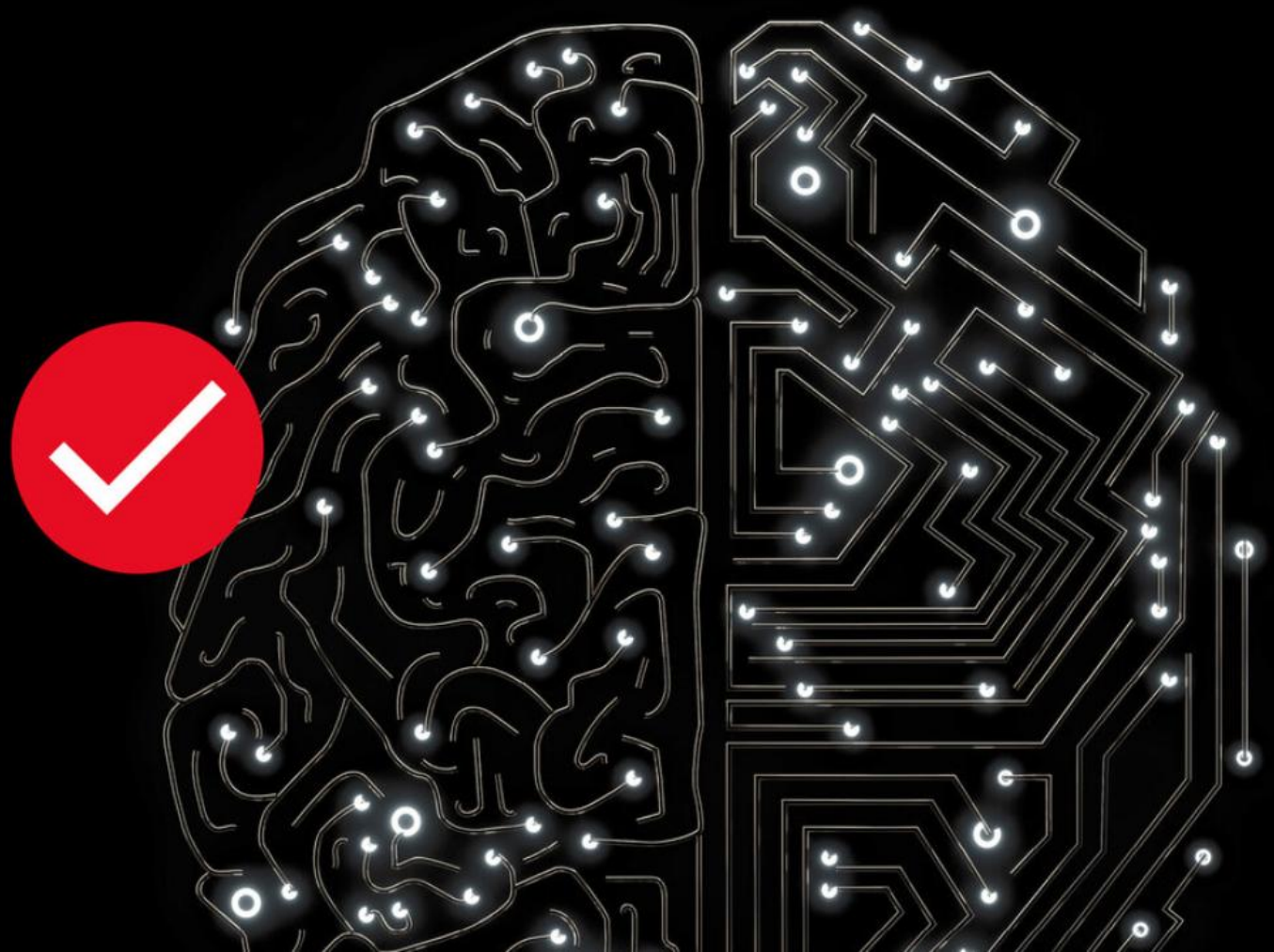
siteco



SITECO iQ

Street Lighting with intelligence².

Intelligent
outdoor lighting
with an **exceptional iQ**.



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SITECO iQ as an integral part of almost all SITECO outdoor luminaires.

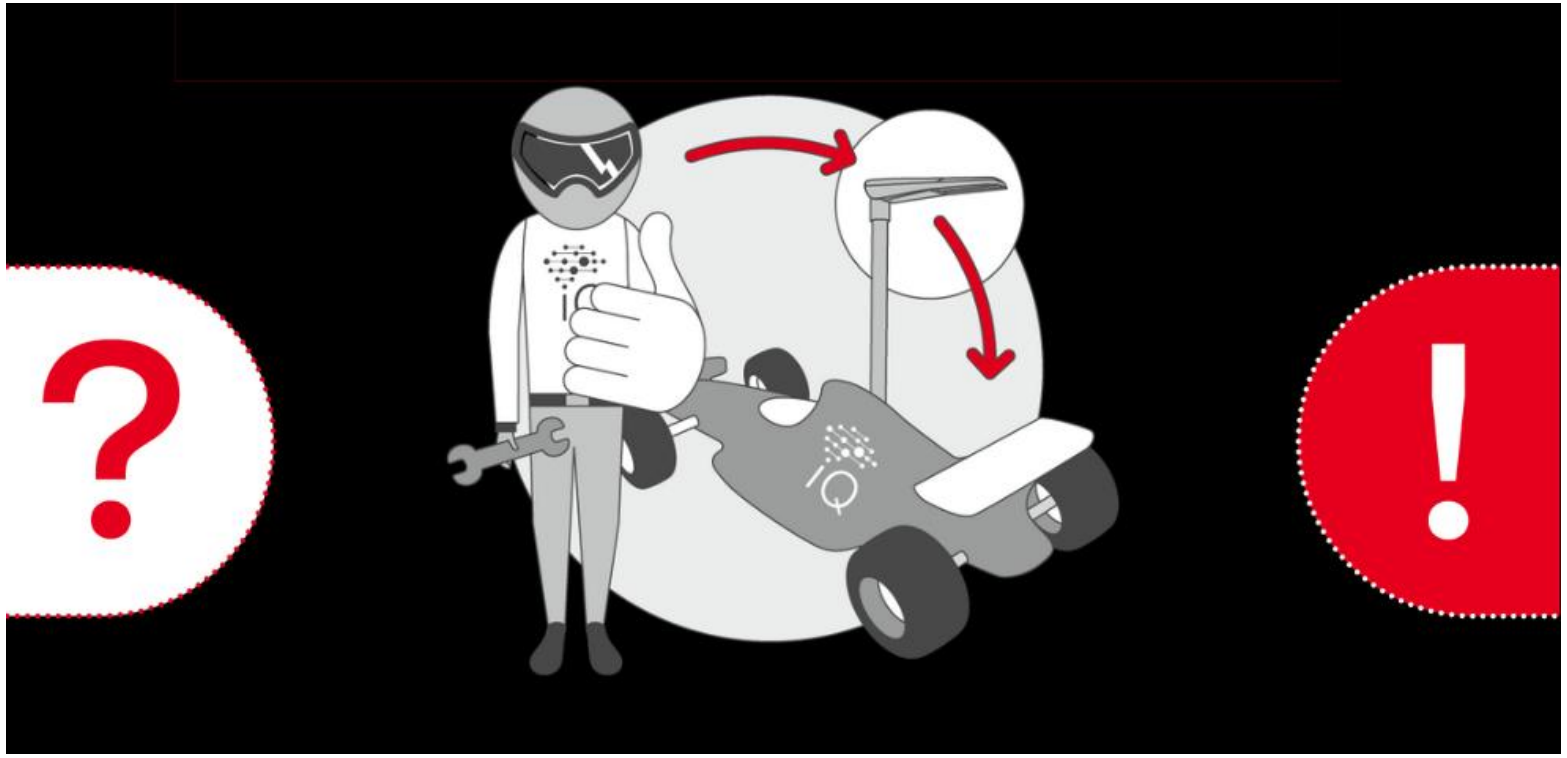
To support operator-friendly lighting solutions.







SITECO iQ: Minutes instead of hours!



Replacing sparts parts is an unpleasant issue. This means: Check settings and transfer them manually. This has the potential for errors. Is there an easier way?

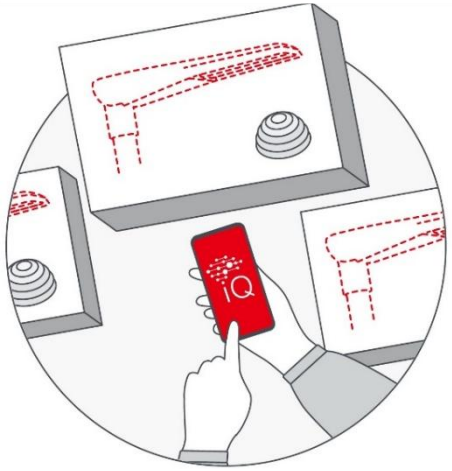
Yes, there is! With **SITECO iQ Auto-Match**. Simply change components and the data will be transferred automatically. Within minutes. Effortless and uncomplicated!
This is intelligence²

SITECO iQ: Bye bye, cherry picker!



Changing the settings of luminaires – this requires good weather, a cherry picker and two people.
Is there an easier way?

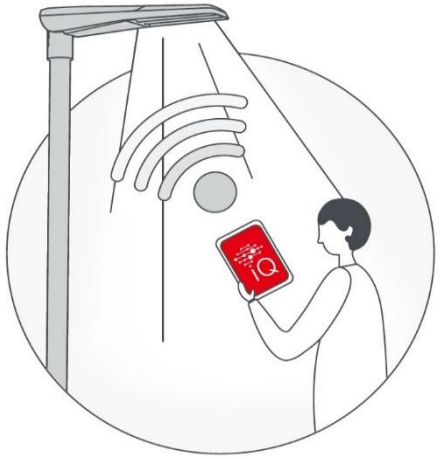
Yes, there is! With **SITECO iQ Street-Remote** or **Desk-Remote**. With Street-Remote you can easily adjust the luminaires from the sidewalk using an app. With Desk-Remote, you can do it in the workshop without unpacking. Without connecting Dali or control lines. Without a cherry picker or a lot of effort. And in any weather.
This is intelligence²



Desk-Remote

Adjusting the luminaire in the workshop

- You'll make faster progress if you adjust luminaires in the workshop before installing them:
- Thanks to the convenient SITECO Desk-Remote function, you don't have to remove the luminaire from its packaging – let alone open it. Even with the shipping box closed, you can transfer all parameters securely and hassle free.
- Desk-Remote with improved Near-Field Communication (NFC -> RFID) makes it possible



Street-Remote

Adjusting the luminaire from the sidewalk

- Spending huge amounts of time adjusting or checking streetlights is a thing of the past:
- Thanks to SITECO Street-Remote, no tools and cable connection are needed as all parameters are easily and quickly transmitted over a stable Bluetooth connection from the sidewalk.
- No more road closures, need to use cherry pickers or risk of having to remove parked vehicles.
- It's convenient for making adjustments and that much easier - for events or if residents have got an issue.

SITECO iQ Desk-Remote

- Often it is necessary to set stored (replacement) luminaires in the office before installation, e.g. to set the desired lighting level.
- This function saves you the following:
  - **No** opening of the packaging
  - **No** opening of the lid
  - **No** connection of a Dali line
  - **No** connection of a power cable

→ **This saves a lot of time!**





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SITECO iQ Street-Remote



- SITECO has got a long tradition in the area of setting and diagnosing luminaires from the sidewalk. So far, lines have been routed towards the pole door.
- From now on, it's wireless. ECG reading and setting may be done from the sidewalk or even from a vehicle.
- No lifting platform required. You may save time, cost and in many cases a second worker. Also road closures are avoided.

Change settings while standing on the sidewalk

Settings such as dimming level can be made **wirelessly from the sidewalk or even while sitting in a vehicle.**

SITECO iQ: Welcome energy savings!



In order to save energy, complex lighting control systems are required.
This is too complicated for our application today. Maybe we'll use that later.
Is there an easier way today?

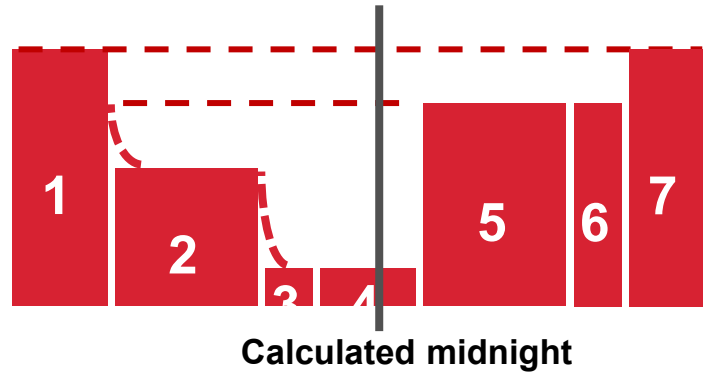
Yes, there is! With **SITECO iQ Night-Set**.
Various light settings already allow only as much light as necessary and as much energy saving as possible to be achieved.
This is intelligence²

Night-Set

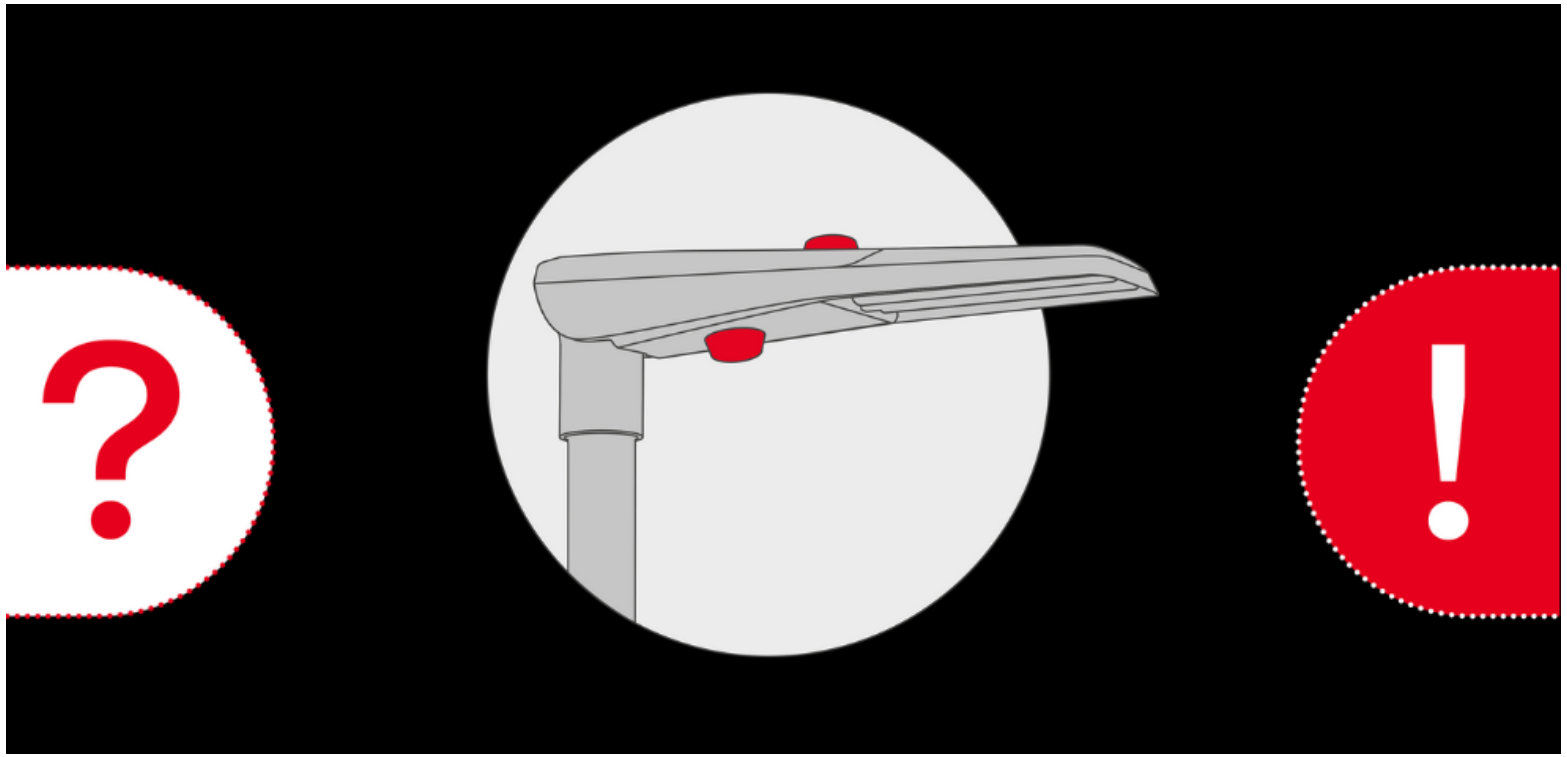
Night reduction used in a variety of ways

- SITECO Night-Set controls the nighttime reduction while also offering a whole host of other control options.
- Additional dimming and lighting functions are available that allow a more customized approach to implementing night reductions.
- This means you may switch between reduction profiles, for example to vary weekdays and weekends.
- Also, time-dependent adjustments for light color and light distribution can be made.
- This helps nighttime light use to be deployed in a way that it protects the nature and animals.





SITECO iQ: Future? For sure!

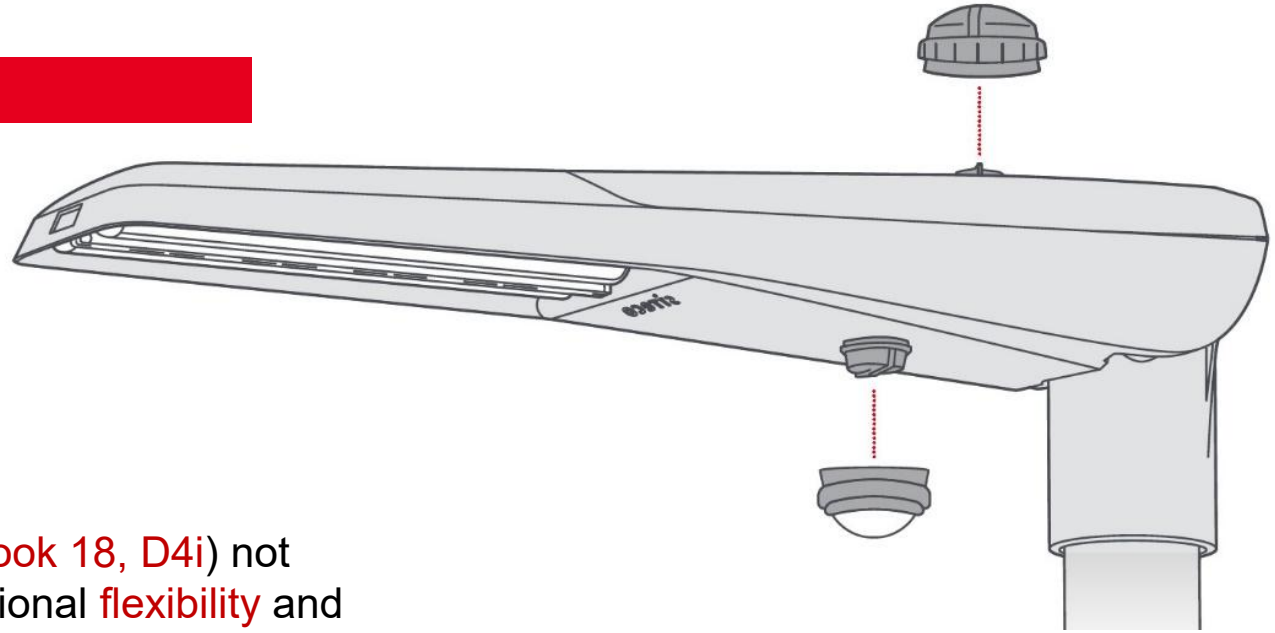


Investing in new street lighting today.
But only integrate sensors and radio control later.
Is that possible?

Yes, it is! With **SITECO iQ Smart-Interface** you can set the course for tomorrow today. Enjoy the comfort of today iQ functions. You can flexibly integrate sensors and radio control at any time.
This is intelligence²

SITECO iQ Smart-Interface

Smart Interface + SITECO iQ functions



Smart Interface

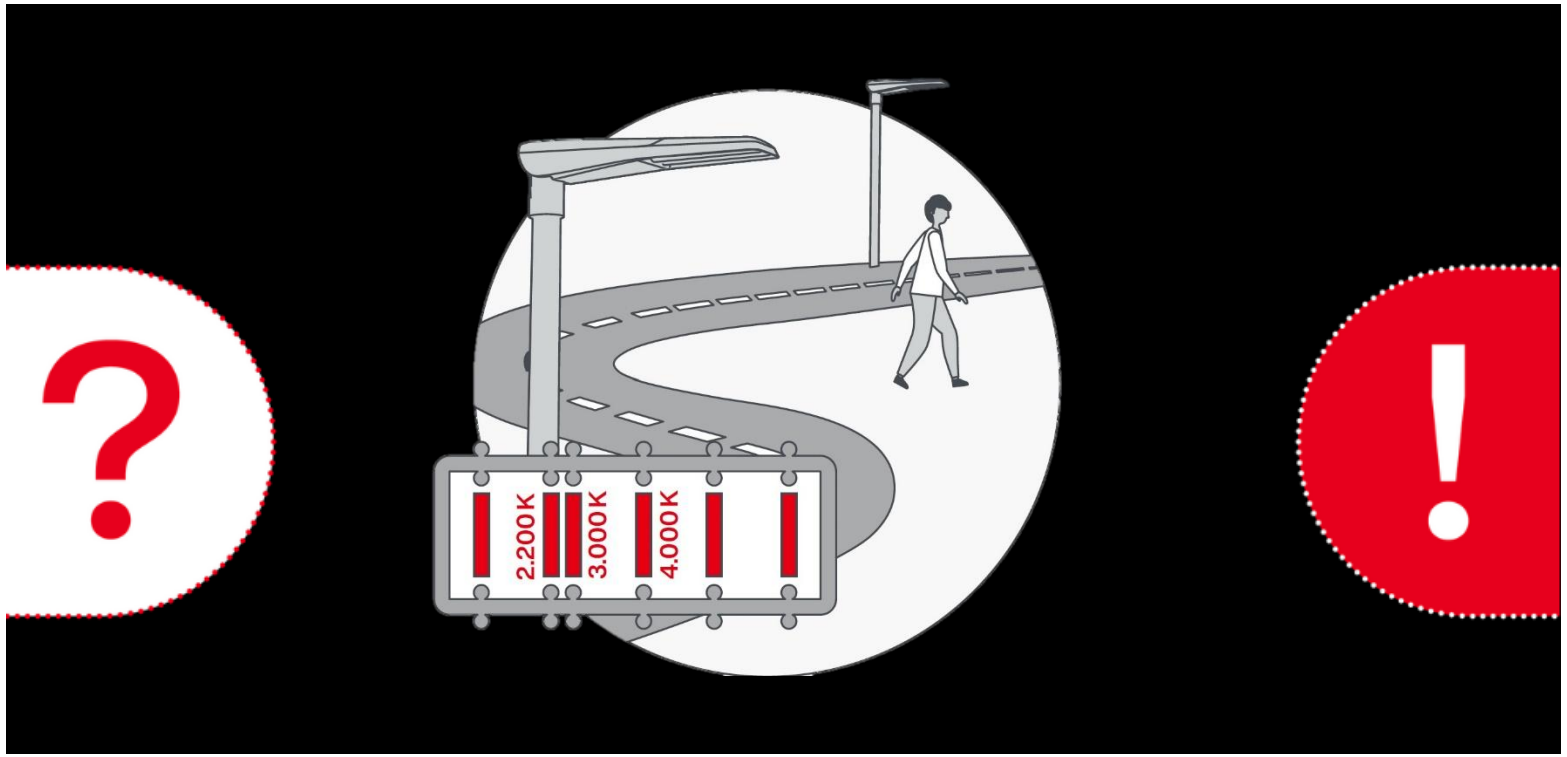
From simple control to a connected system:

The Smart Interface (in accordance with Zhaga Book 18, D4i) not only ensures a secure future, it also enables additional flexibility and greater independence.

Cities and municipalities can gradually adopt the lighting control technology – selecting when to launch or retrofit as required. All

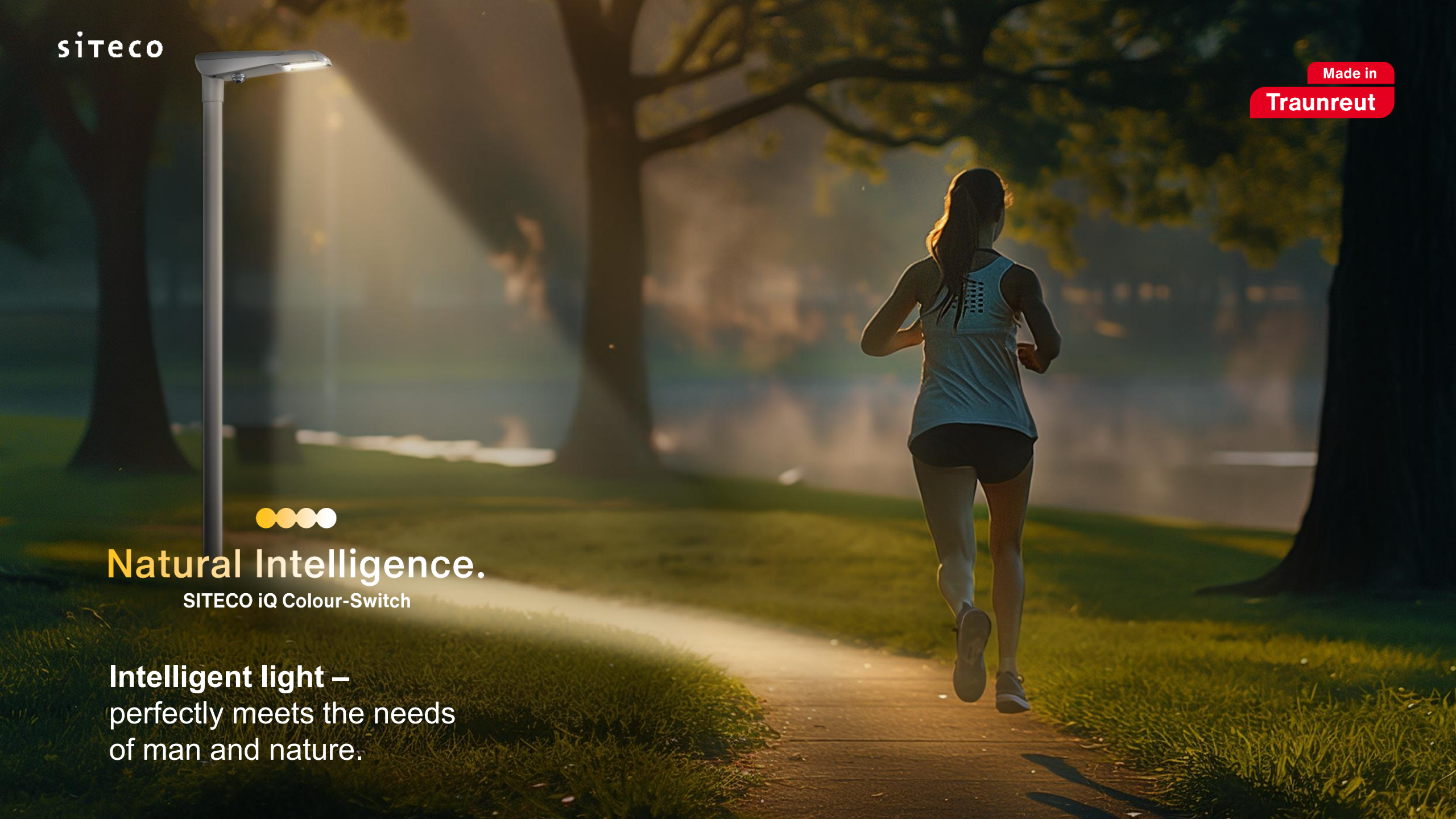
All intelligent functions will also be available with a Smart Interface in the future.

SITECO iQ: Which light colour? Here is your solution!



3000K for more road safety? Or
2200K for more species protection?
Is both possible?

Yes! With **SITECO iQ Colour-Switch** you do not have to decide for 1 light colour. You always have the right light-colour for your application available. This is the future of outdoor lighting:
Natural Intelligence


siteco
Made in
Traunreut
Natural Intelligence.
SITECO iQ Colour-Switch
Intelligent light –
perfectly meets the needs
of man and nature.

siteco


D 921
ESQUIÈZE
-SÈRE
De 00h00 à 05h30
PRUDENCE
EXTINCTION DE
L'ÉCLAIRAGE PUBLIC
COMMUNE D'ESQUIEZE-SERE

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Natural Intelligence.

Safety in danger zones. Visual comfort in pedestrian zones. Limiting harmful influences in protection zones:

For me, high-quality lighting takes into account issues such as comfort, visibility and environmental protection and differentiates between the various areas of application.

Jörg Haller, Elektrizitätswerke of the canton of Zürich (EKZ), Vice Chairman of Division 51 of the Swiss Lighting Society (SLG)

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The balance between safety, environmental protection, human and animal welfare and energy efficiency is crucial.

SITECO iQ Colour-Switch takes into account all aspects of a **sustainable, environmentally friendly and efficient lighting solution.**

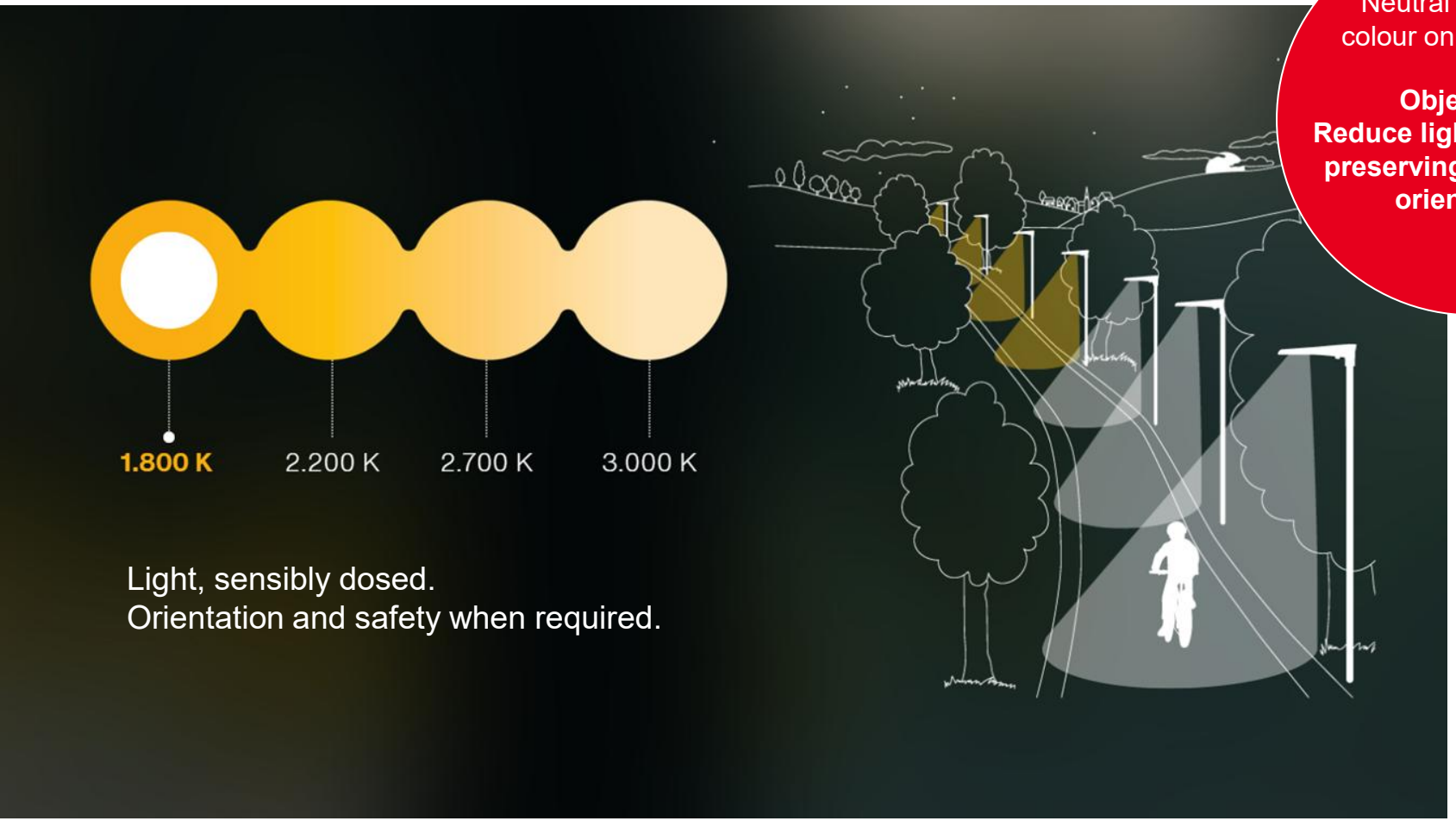
Energy and CO_2 savings

Safety and well-being

Environmental and species protection

Made in Traunreut

Parks / natural areas



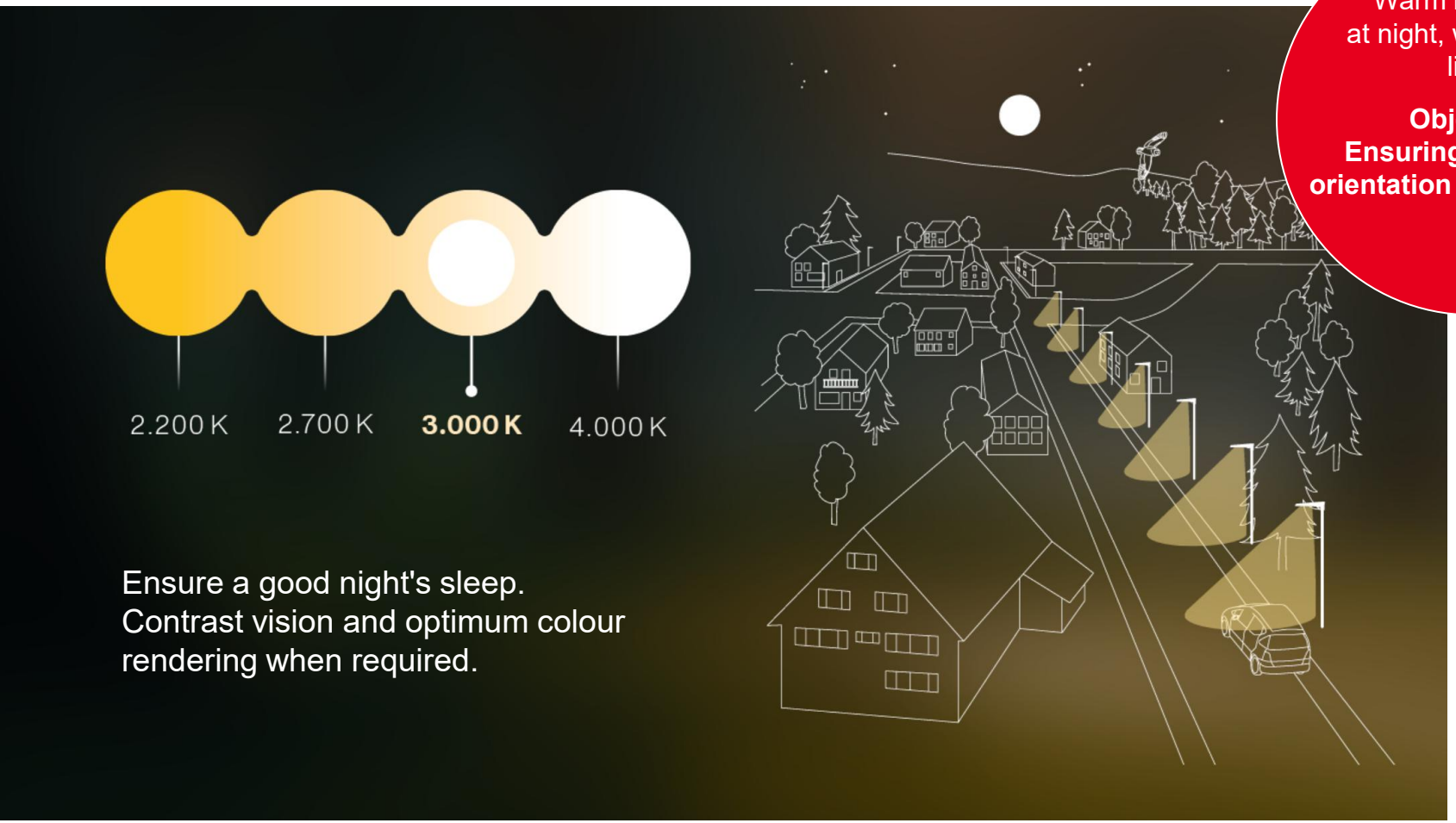
Light, sensibly dosed.
Orientation and safety when required.

Neutral white light colour on movement.

Objective:
Reduce light spill while preserving safety and orientation

Lighting system:	Luminaires including Smart-Interface and motion detector
Starting position:	Basic lighting setting at 2,200K
On movement:	Switch the light to 3,000K

Residential areas / residential streets



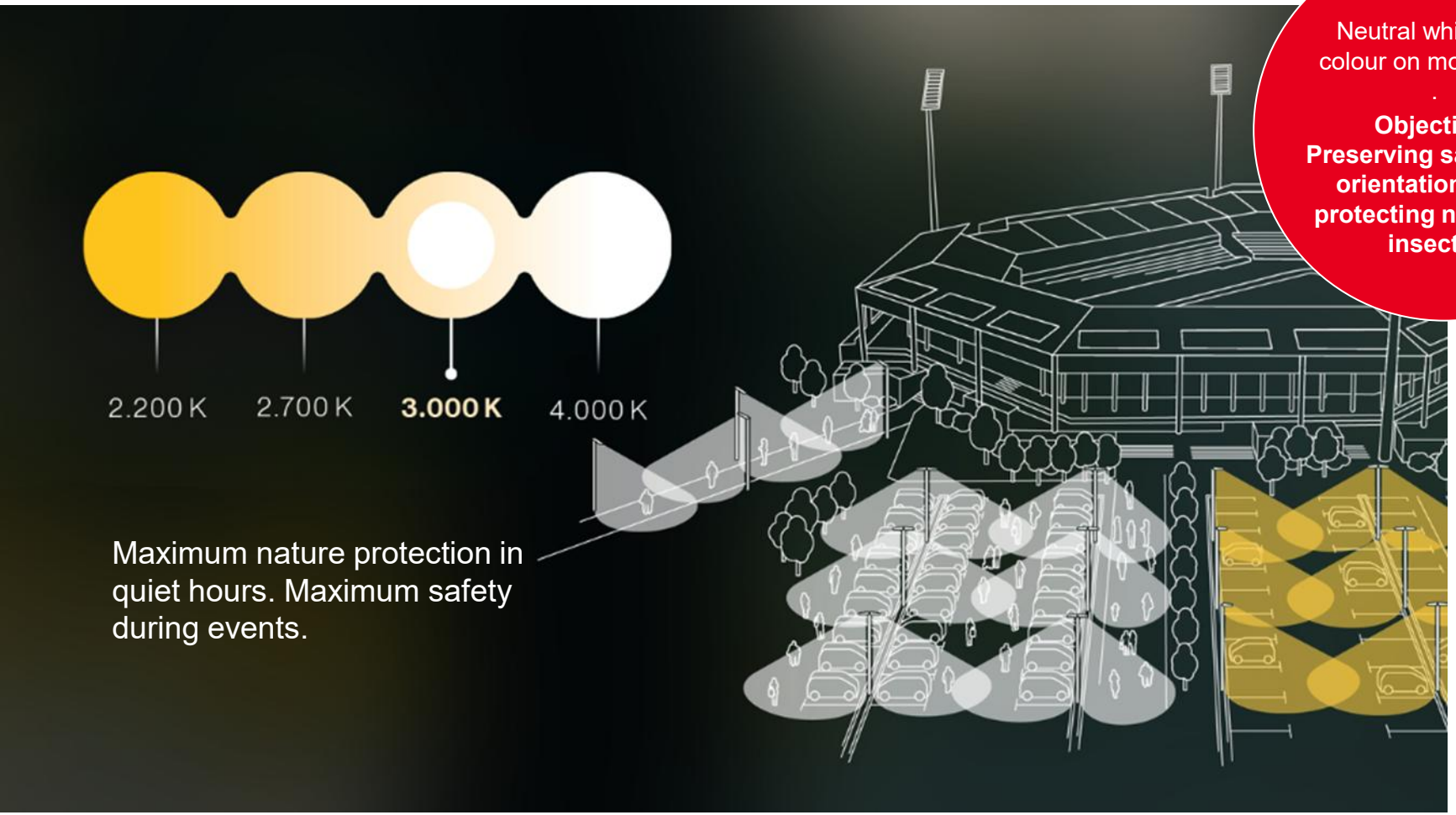
Ensure a good night's sleep.
Contrast vision and optimum colour rendering when required.

Warm light color at night, with moving light

Objective: Ensuring safety and orientation when needed.

From 08:00 p.m:	Lighting with CCT 3,000K
From 10:00 p.m.:	Dimming to 70% light; change light color to 2,700K
From 00:00:	Dimming to 20% light, light color 2,200 K
From 04:00 a.m.:	Dimming to 70% light, light color 2,700 K
From 06.00 a.m.:	Dimming to 100%, change to 3,000K

Sports & leisure facilities / venues



Neutral white light colour on movement.

.

Objective: Preserving safety and orientation while protecting nocturnal insects.

Lighting system:	Luminaires with Smart-Interface and motion sensors
Start position :	Basic lighting setting at 2,200K
On movement: **(Event operations)**	Swicth the lighting to 4,000K

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Natural Intelligence.

> Some would like more light for a greater sense of security, others would prefer none at all because of the nocturnal creatures (...).
>
> We have to weigh up the different requirements (...). And there are also requirements that have to be met.

Jörg Haller, Elektrizitätswerke of the canton of Zürich (EKZ), Vice Chairman of Division 51 of the Swiss Lighting Society (SLG)

Lighting solutions with a holistic approach.

More nature conservation. Less light emissions. More efficiency.



Luminaire design

Depending on their design, luminaires attract more or fewer insects.

Shielding upwards, small distances between poles and mounting heights - all of these reduce the attraction effect on insects considerably



Inclination

Luminaires without upward inclination reduce the attraction effect on insects.

It is advisable to avoid tilting the luminaire heads upwards.

→ Our light-directing systems make upward tilting of the luminaires unnecessary.



Light distribution

Light only where it is needed. No problem with the right light distribution.

→ By selecting the right light distribution and light intensity, in combination with motion sensors, the desired light intensity is generated, which is defined at a certain time or when movement is detected.



Light intensity / lighting control

Light exactly as required. With motion sensors and intelligent functions for dimming and control.



Light color

- Neutral white light: for safety and visibility.
- Warm white light: for greater comfort and less stray light.

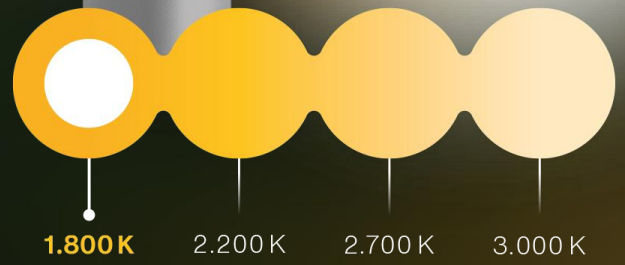
Together we will find the ideal lighting solution - depending on the application and the time of day and year.

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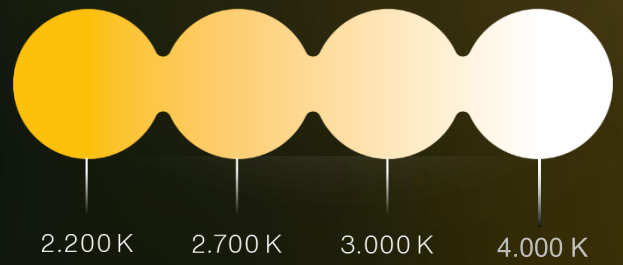


Made in
Traunreut

Version 1:



Version 2:



Natural Intelligence.

Streetlight SL 11 mit SITECO iQ Colour-Switch.

The epitome of the most sustainable lighting solution.

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Streetlight SL 11 with **SITECO iQ Colour-Switch**

- **SITECO iQ Color-Switch –** for naturally intelligent light – switchable light colors - 2,200K / 2,700K / 3,000K / 4,000K.
  NEW:1.800K / 2.200 K / 2.700 K / 3.000 K
- **With further SITECO iQ functions such as Street-Remote, Auto-Match, Night-Set and Smart- Wire –** for clever light, simple and uncomplicated adjustment.
- All light distributions available**. Particularly suitable:**
  ST1.0 with BLC – for more targeted light with the best rear glare control on the market.
- With interfaces in accordance with the **Zhaga D4i standard –** for the integration of sensors/radio control and therefore light on demand.
- **Dark Sky luminaire –** certified by the “Paten der Nacht”.

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Streetlight SL 11 with **SITECO iQ Colour-Switch**



- High-definition facetted reflectors **direct the light evenly and precisely onto roads and paths**
- With excellent glare control

- Reflector technology enables **maximum harmonious colour mixing**
- Without visible colour differences on the luminaire

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Natural Intelligence.

Urban Lighting with SITECO iQ Colour-Switch.

The epitome of the most sustainable lighting solution.

SITECO iQ Colour-Switch – Conveniently adjustable and controllable

Control of the luminaires

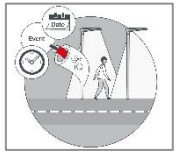
… via the existing infrastructure:

- via **SITECO iQ Night-Set:** control depending on artificial midnight

- via **reduction wire** and **SITECO iQ Smart-Wire:** reduction to e.g. 50% light + other light colour

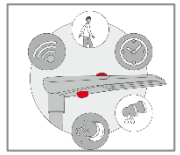
- via **reduction wire** and **SITECO iQ Smart-Wire:** reduction by means of up to 10 levels to e.g. 50% / 80% / 30% light + other light colour in each case





… future-proof with Smart-Interface

- Light colour change via iQ Smart-Interface (D4i / Zhaga interface) + E-Save control components + Control systems with DT8 Tc functionality
  + Smart Plug Casambi
  + E-Save control components



Setting the luminaires

… using the customer configurator

- Luminaires can be ordered pre-programmed via the customer configurator.



… via SITECO iQ app

- The luminaires can be parameterised via the SITECO iQ app. Transmission is wireless via Street-Remote.



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Colour control with Connect Outdoor

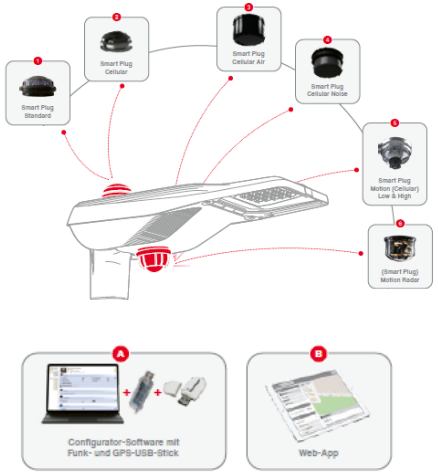
These devices are DT8/Tc capable and enable the control of the Colour-Switch luminaires.

Casambi



Smart Plug Casambi
5EA3TDC01

eSave



Connect Wireless
(eSave & IixTec)

Others



Motion Easy
5EA40TE01



Motion Low & High
5EA40LL01 & 5EA40LH01

Stand-alone sensors
(D4i type A)

Excursus: Red light

What needs to be considered.

Current studies* show that warmer light is significantly better for insects. Luminaires that produce narrow-band red light also barely reduce the approach behaviour of insects. However, their detrimental effects on the environment must be taken into account.

The biggest factor influencing the attraction is the visibility of the light from all angles.

This is reduced by:

- Precise optics
- No emission into the upper sphere (dark-sky luminaire)
- Screens for shielding
- Presence detectors
- Night-time dimming
- Precise lighting design
- Low / no luminaire height
- Low mast height, small mast spacing



Efficiency
of street lights with red light.

3x
more energy
is required to fulfill the same lighting task as luminaires with warm white light.

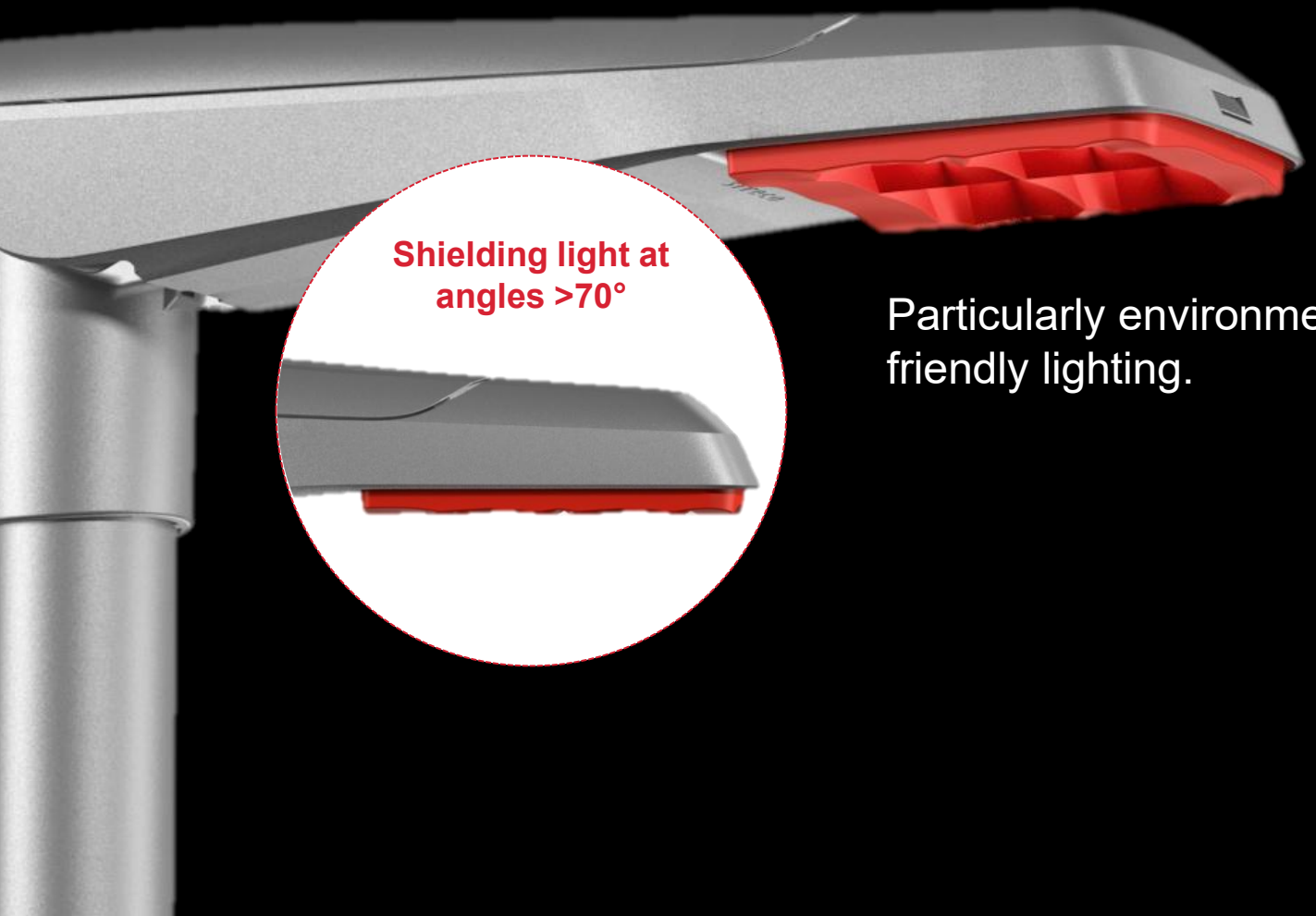
Color rendering ↓ **Contrast vision**

* WSL Swiss Federal Research Institute, Zürcherstrasse 111, 8903 Birmensdorf, Switzerland in Zusammenarbeit mit dem EKZ (Elektrizitätswerke des Kantons Zürich), Dreikönigstrasse 18, 8022 Zürich, Schweiz

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Environmental protection @ SITECO

Efficient. Sustainable. Responsible.



High energy efficiency

Particularly environmentally friendly lighting.

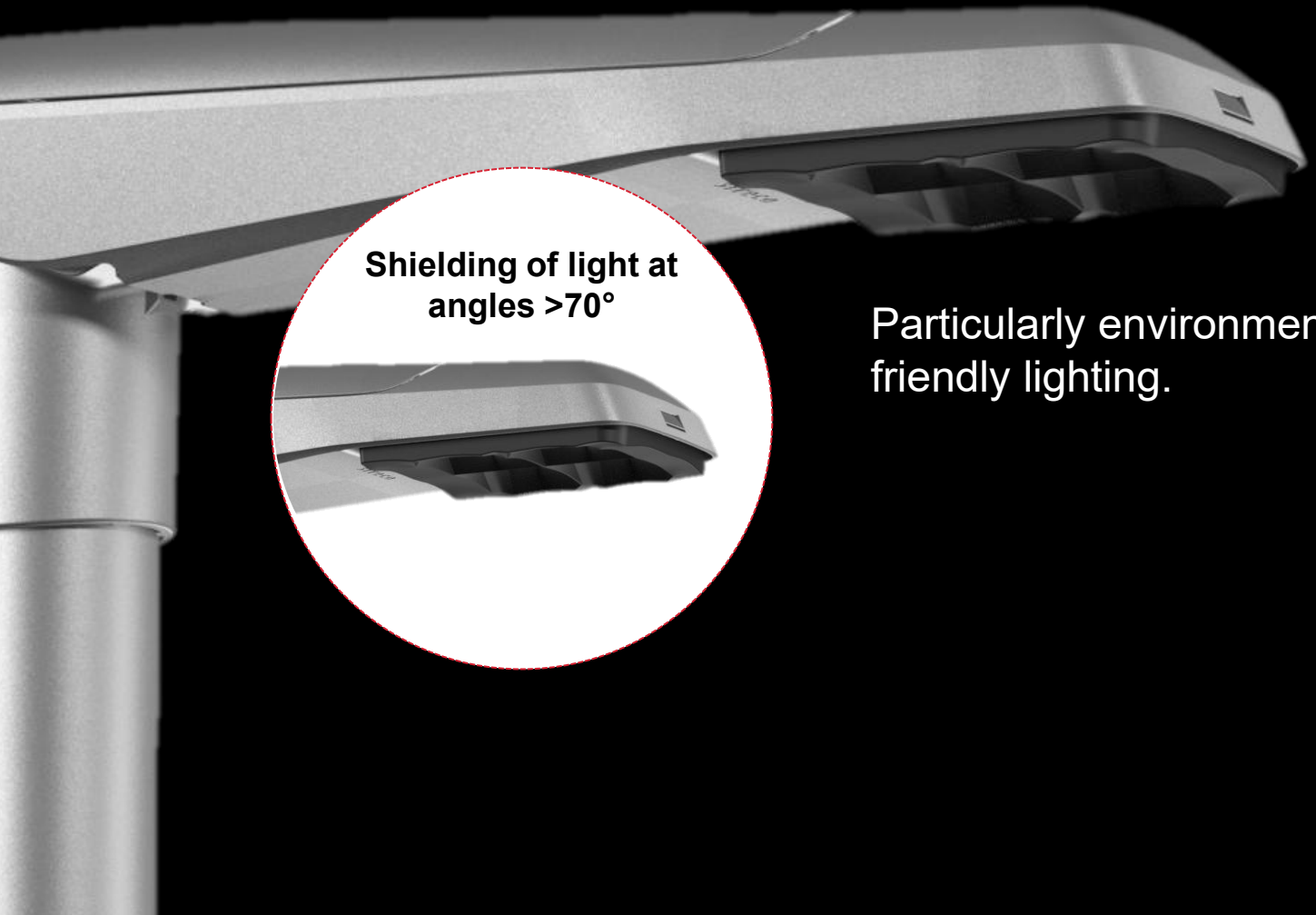
Color rendering

Contrast vision

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Environmental protection @ SITECO

Efficient. Sustainable. Responsible.



High energy efficiency

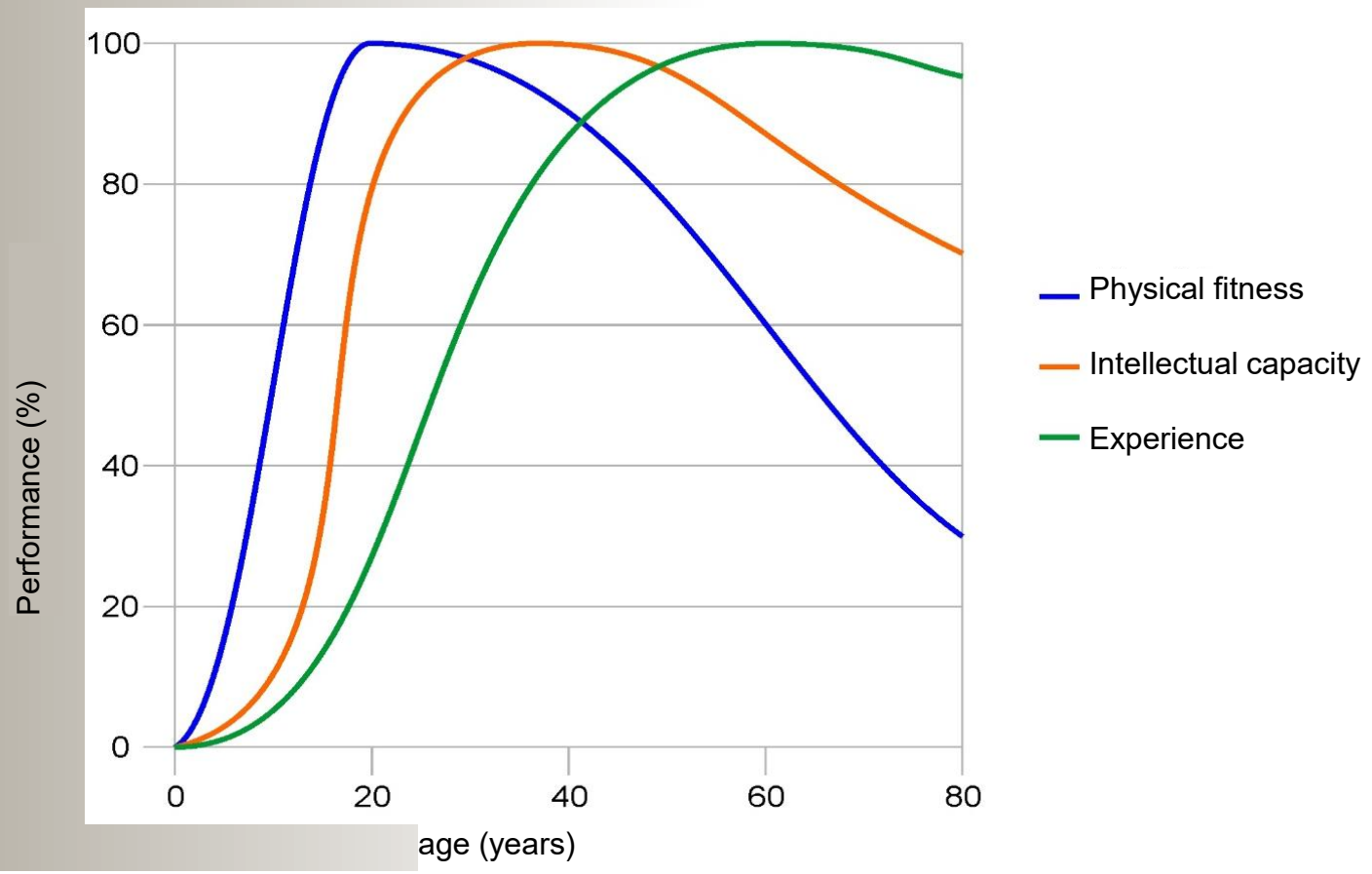
Particularly environmentally
friendly lighting.

Color rendering ↑ **Contrast vision**

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Human performance over a lifetime





picture: AI generated

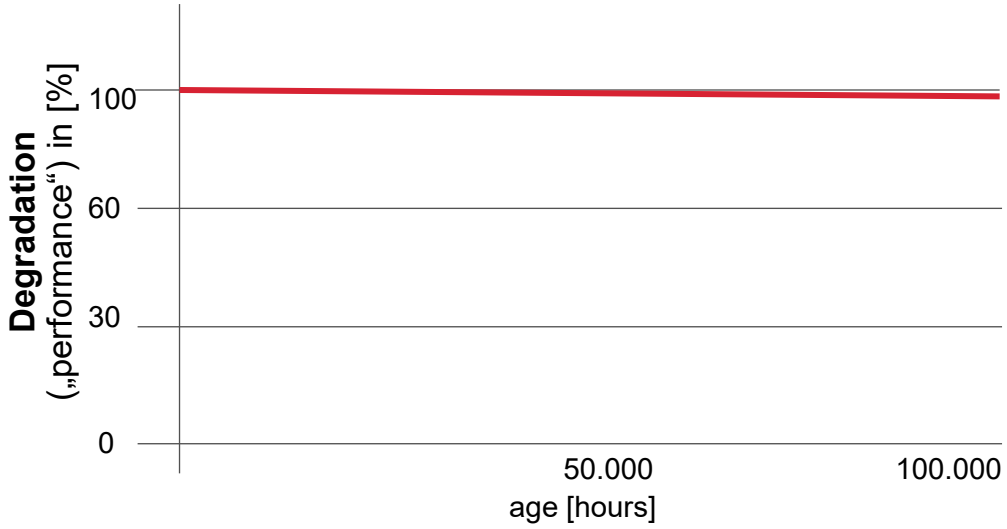
Quelle: https://whoismotivated.wordpress.com/wp-content/uploads/2016/04/leistung_ideal.jpg

Performance of SL 11 over a lifetime – almost constant.

SL11: minimal luminous flux decline from L99 over the entire service life – extremely energy-efficient!

Only 2% degradation over the service life of the luminaire.

Compensation through minimally higher current supply to maintain the same luminous flux level over the entire service life.





173 lm/W (3000K)
Beginning of lifetime 20,6 W

172 lm/W (3000K)
End of lifetime 20,7 W

- Efficient throughout its entire service life
- Maximum energy efficiency – reduces energy costs and energy consumption
- Optimises your TCO assessment


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iQ
A quantum leap for
smart outdoor lighting