



HOLISTIC ADVICE

GAINING PERFECT LIGHT WAS NEVER MORE SIMPLE

The lighting market has changed enormously due to the LED transformation, increasing digitalisation and social mega-trends such as connectivity and big data. On the one hand this provides diverse opportunities. On the other, lighting solutions are becoming increasingly complex and their selection, configuration and operation more complicated.

TRILUX makes this complexity manageable thanks to intelligent solutions that set new standards in terms of energy efficiency and quality of light, and also by offering a wide range of customer-oriented services.



+ SAFETY



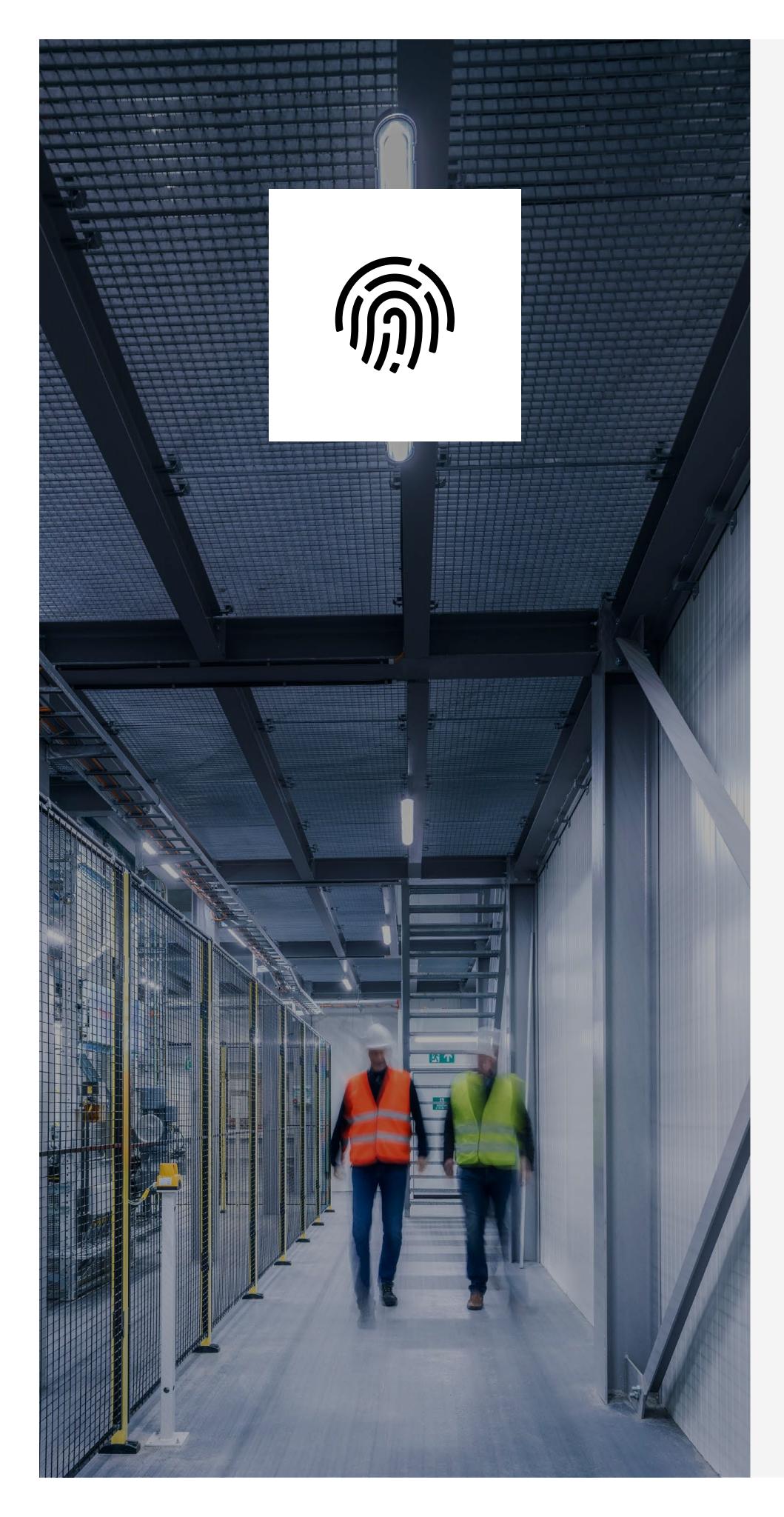


SAVINGS









ORIENTATION & SAFETY

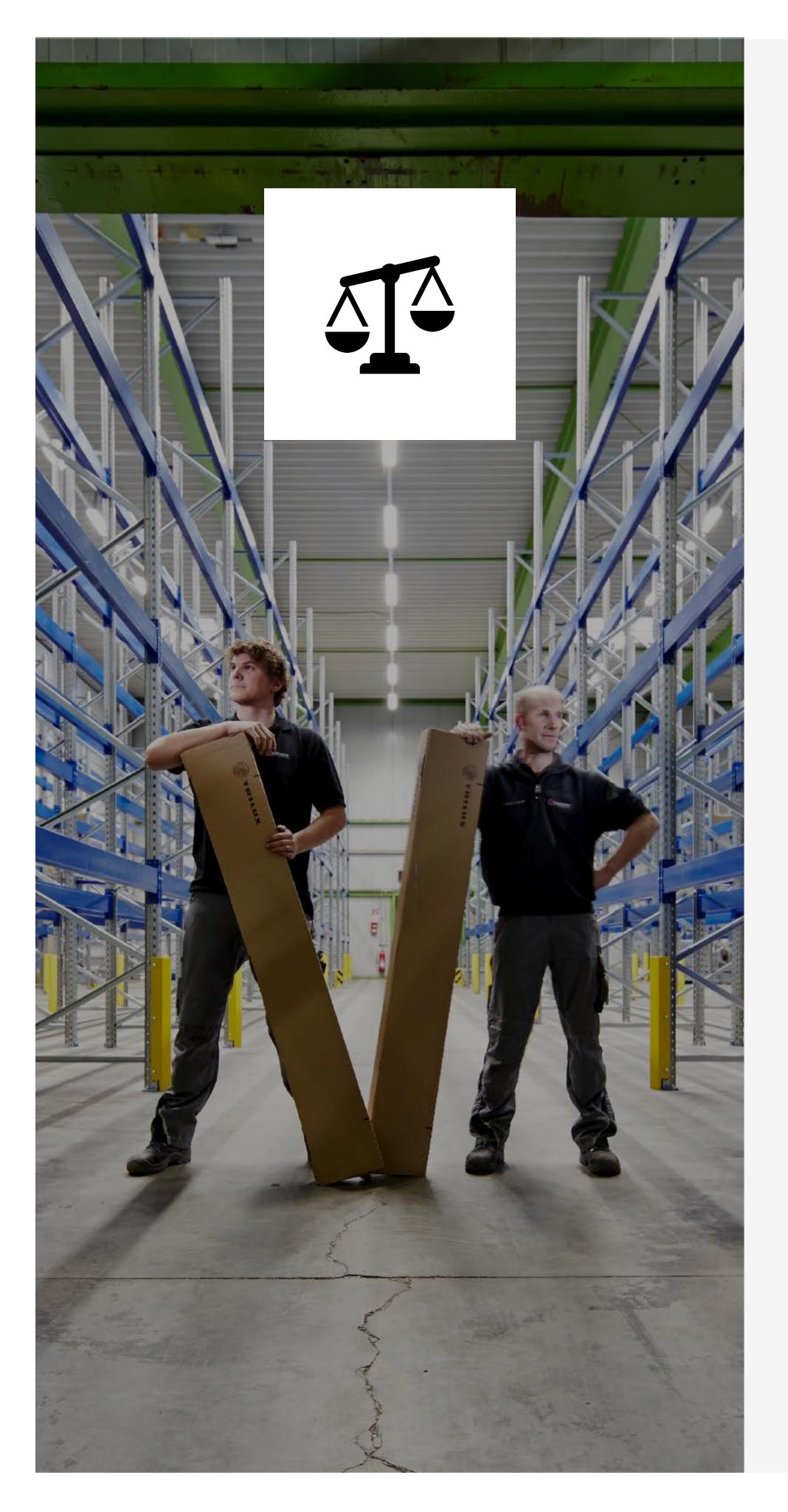
In increasingly complex surroundings, we'll work together with you to identify the right technologies and products, especially with regard to:

- efficiency
- quality
- performance and
- service life.

We also provide consultation about networked, intelligent and sensor -controlled solutions:

- Reducing energy consumption and therefore also operating costs
- Increasing the sustainability of the complete system.

In this way you gain a customised lighting solution for your project – with dependability and reliability.



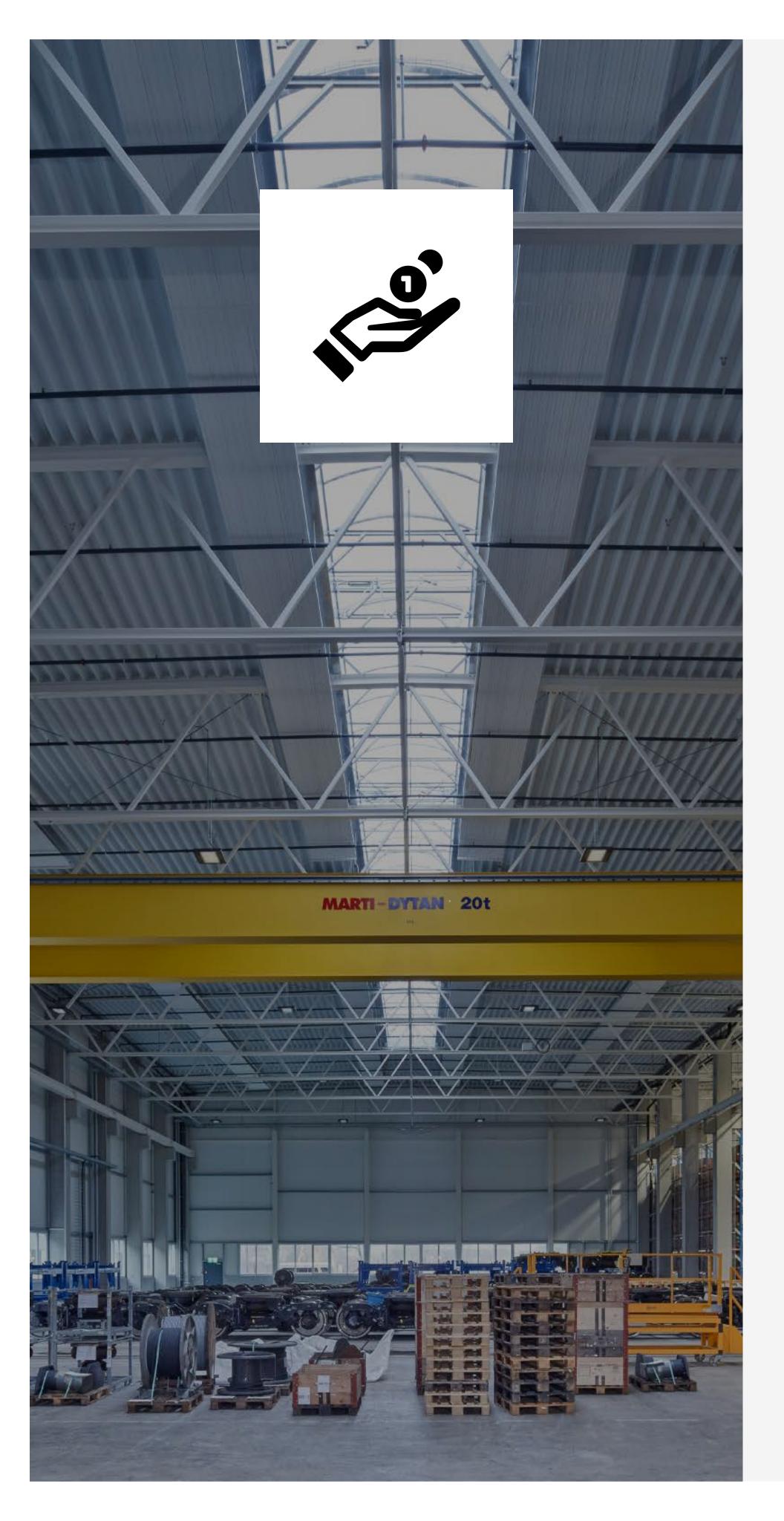
LIGHTENING THE LOAD

Upon request, we can take responsibility for complete range of tasks concerning lighting:

- Technological consultation
- Customised financing concepts
- Complete project management for all systems

In this way you not only gain a lighting solution from a single source, but also the required flexibility to concentrate on you own business.





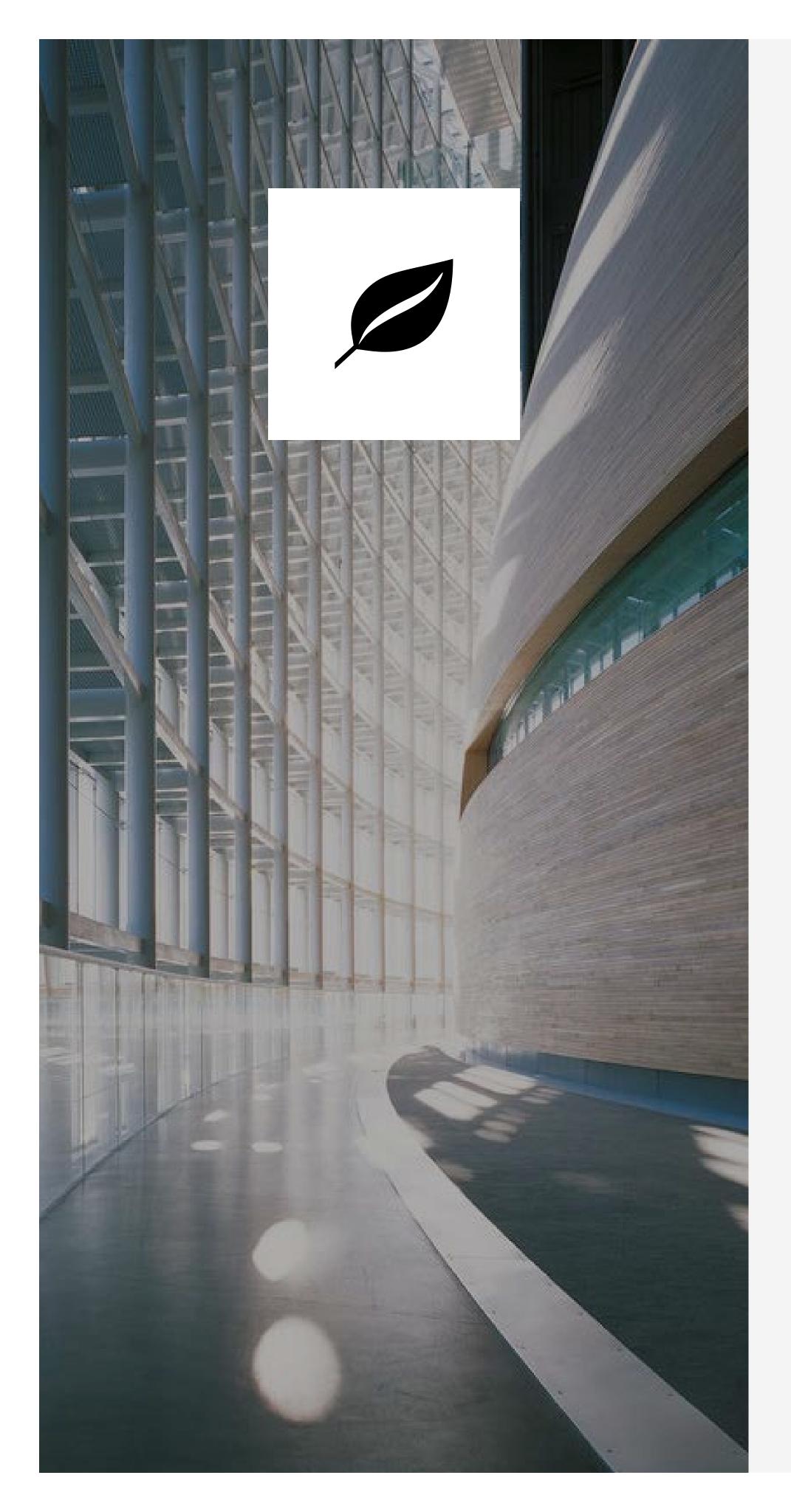
SAVINGS

TRILUX lighting solutions are extensively planned to provide you as a cost-conscious client with many advantages:

- Reduction of operating overheads of up to 75%
- Elimination or minimisation of project-related work and complexity thanks to TRILUX Services
- Possible balance-neutral implementation without own investments due to high operating cost savings

Equity capital is protected via a wide selection of financing models enabling you to maintain your handling flexibility.





SUSTAINABILITY

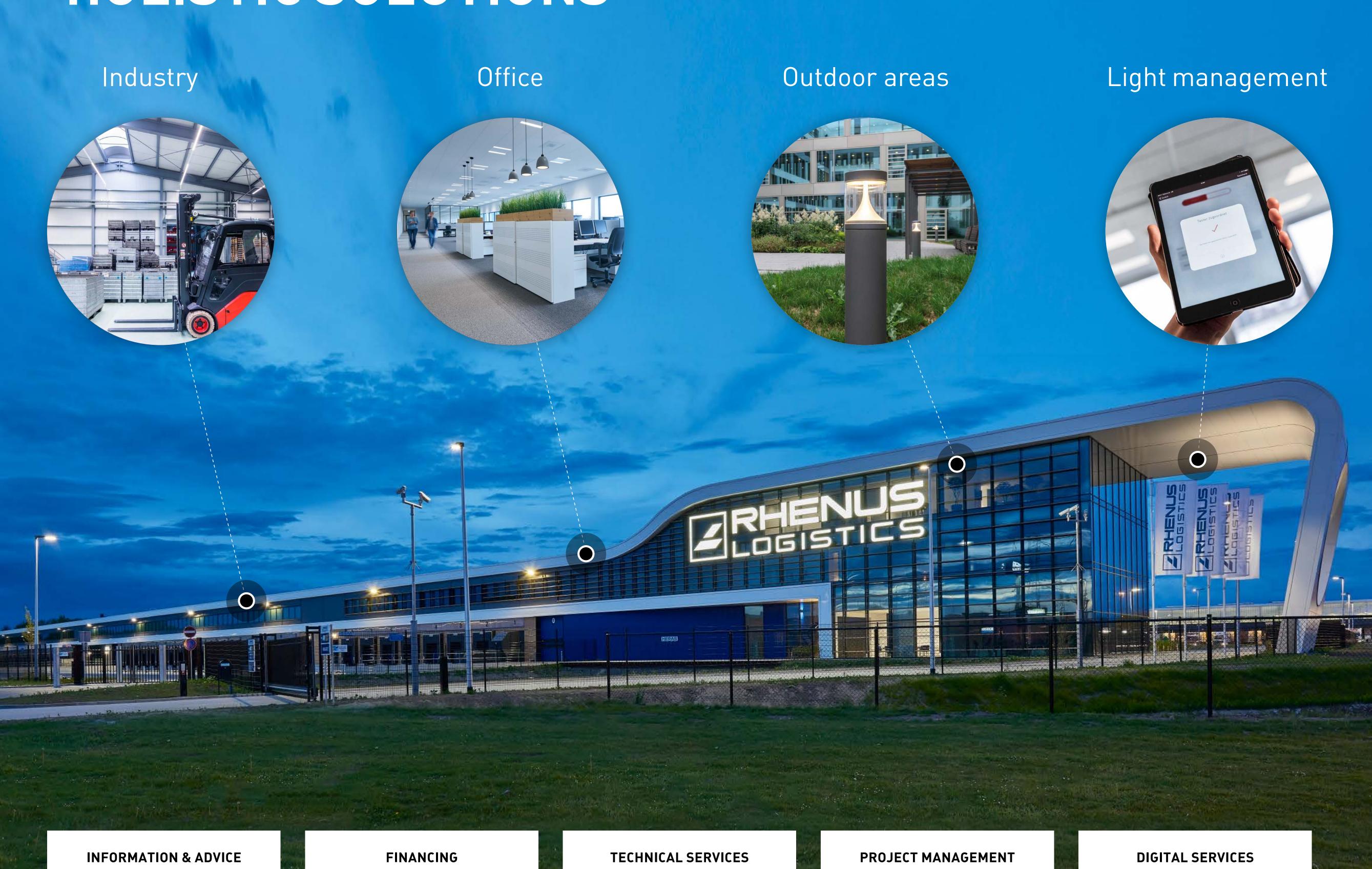
The lighting solution is a central component of sustainable building management:

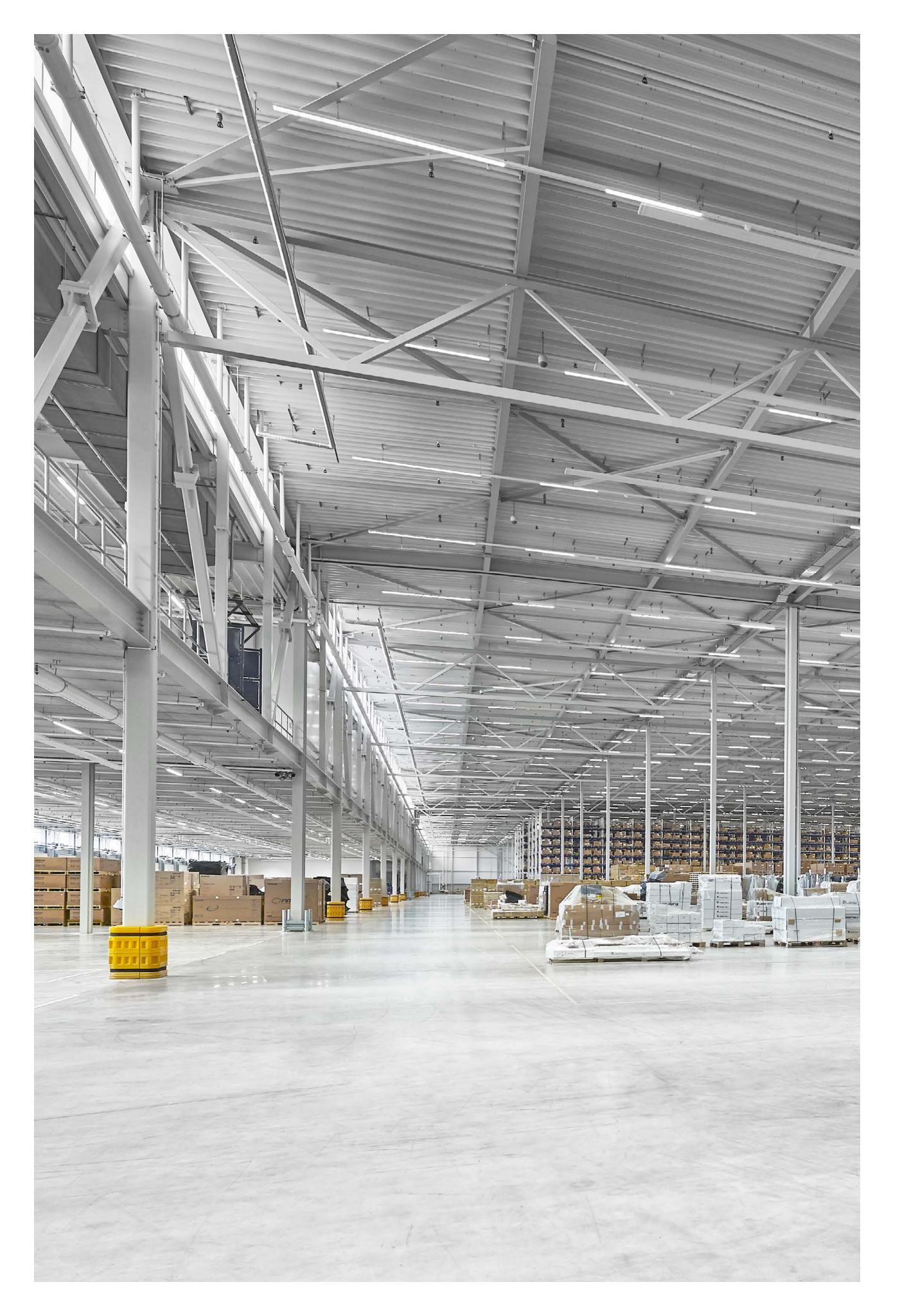
- High influence on appropriate certifications such as Green Building or BREEAM
- Sustainable reduction of energy consumption and green house gas emissions via environmentally-caring lighting systems based on cutting-edge LED technology and intelligent control solutions.

TRILUX lighting solutions therefore make a valuable contribution to protecting the environment and are an increasingly important part of any credible CSR strategy.



HOLISTIC SOLUTIONS



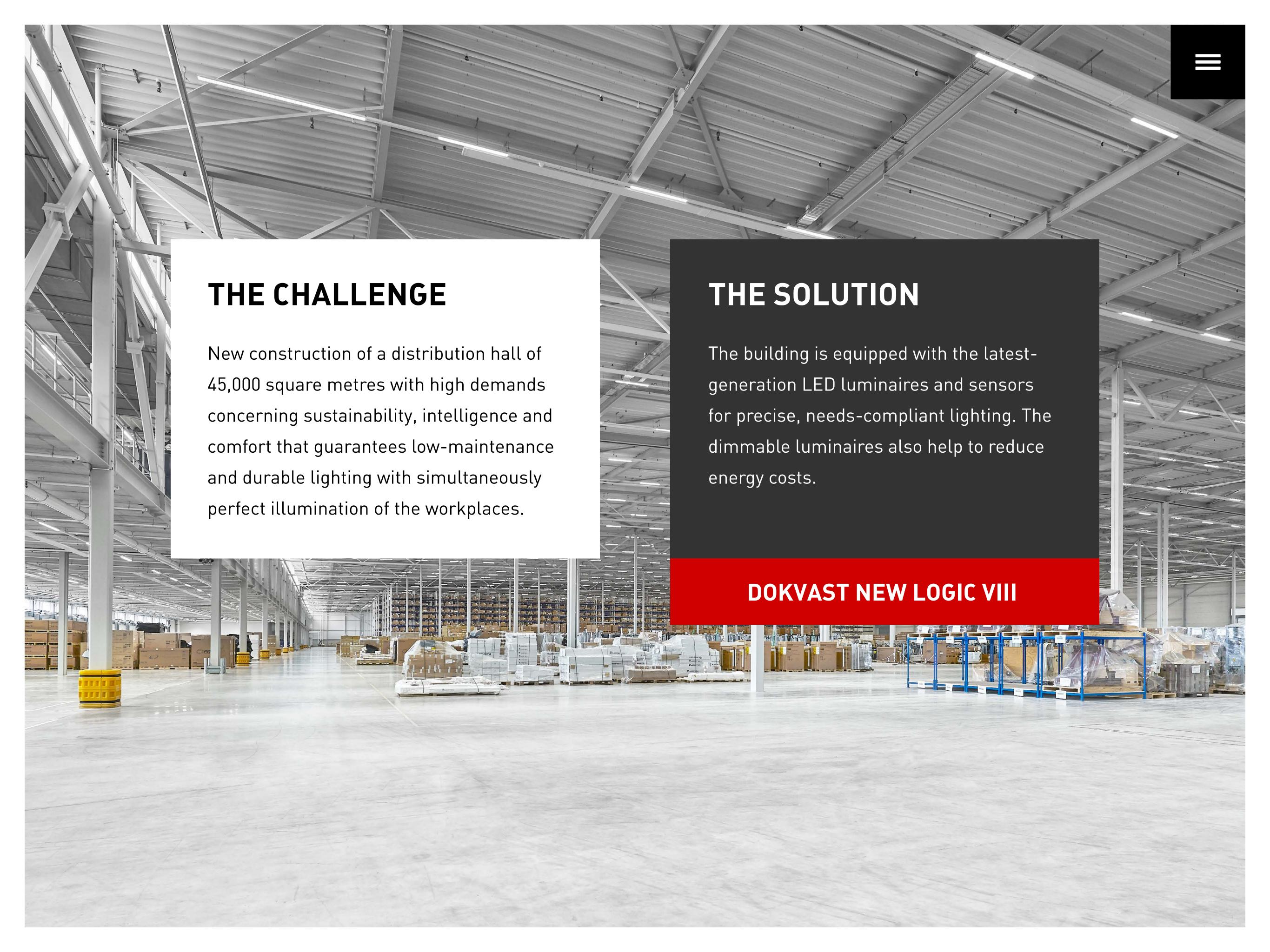


INDUSTRY

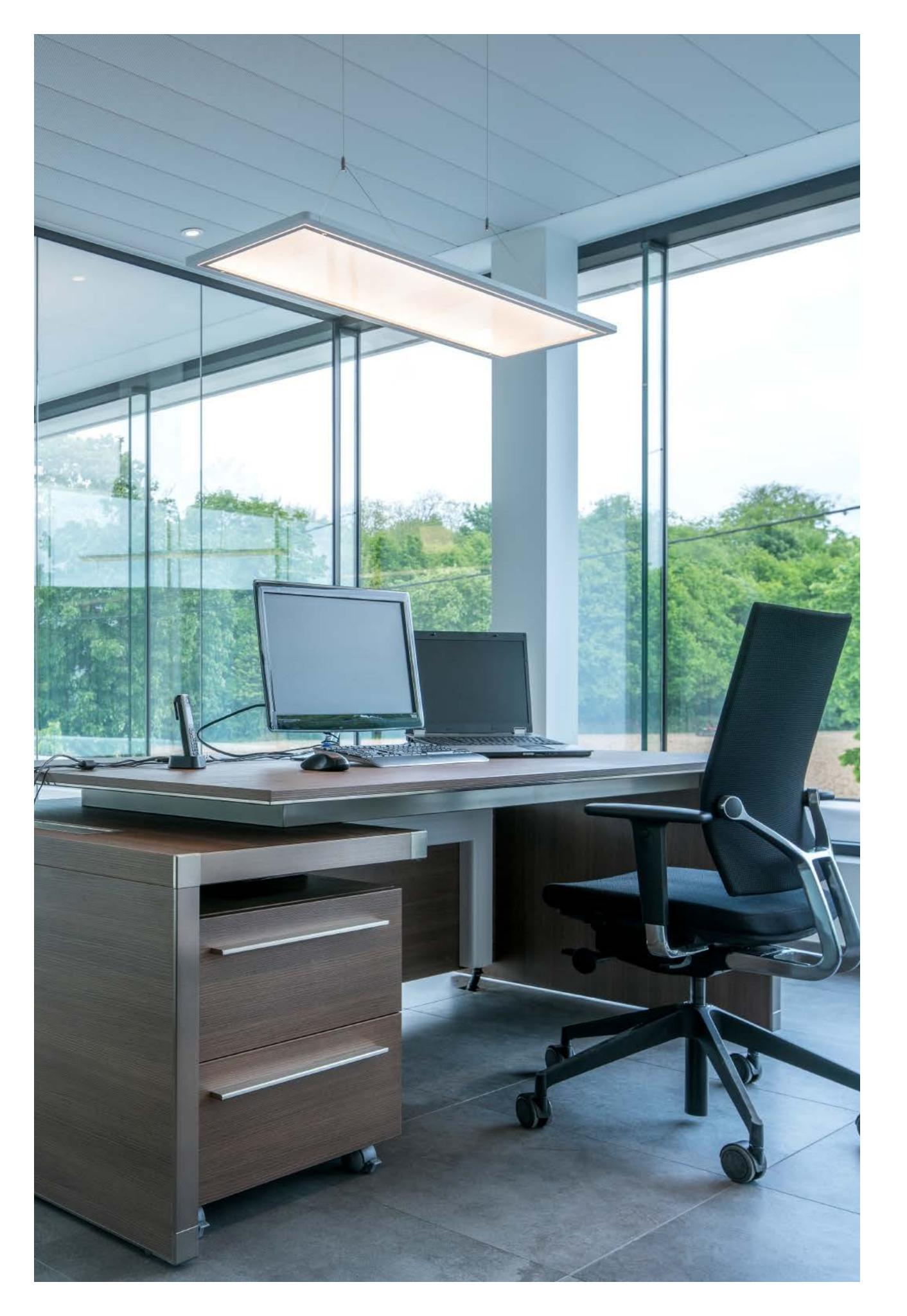
High warehouses, especially sensitive or tough production environments, heat, low temperatures, humidity or vibrations – TRILUX has precisely the right solution for all applications. One common factor: exceptionally high material quality and workmanship for optimum light, maximum energy efficiency and a long service life.

A further plus point: all TRILUX luminaires fulfil their specific tasks in compliance with relevant standards.

After all, it's better to be safe than sorry.





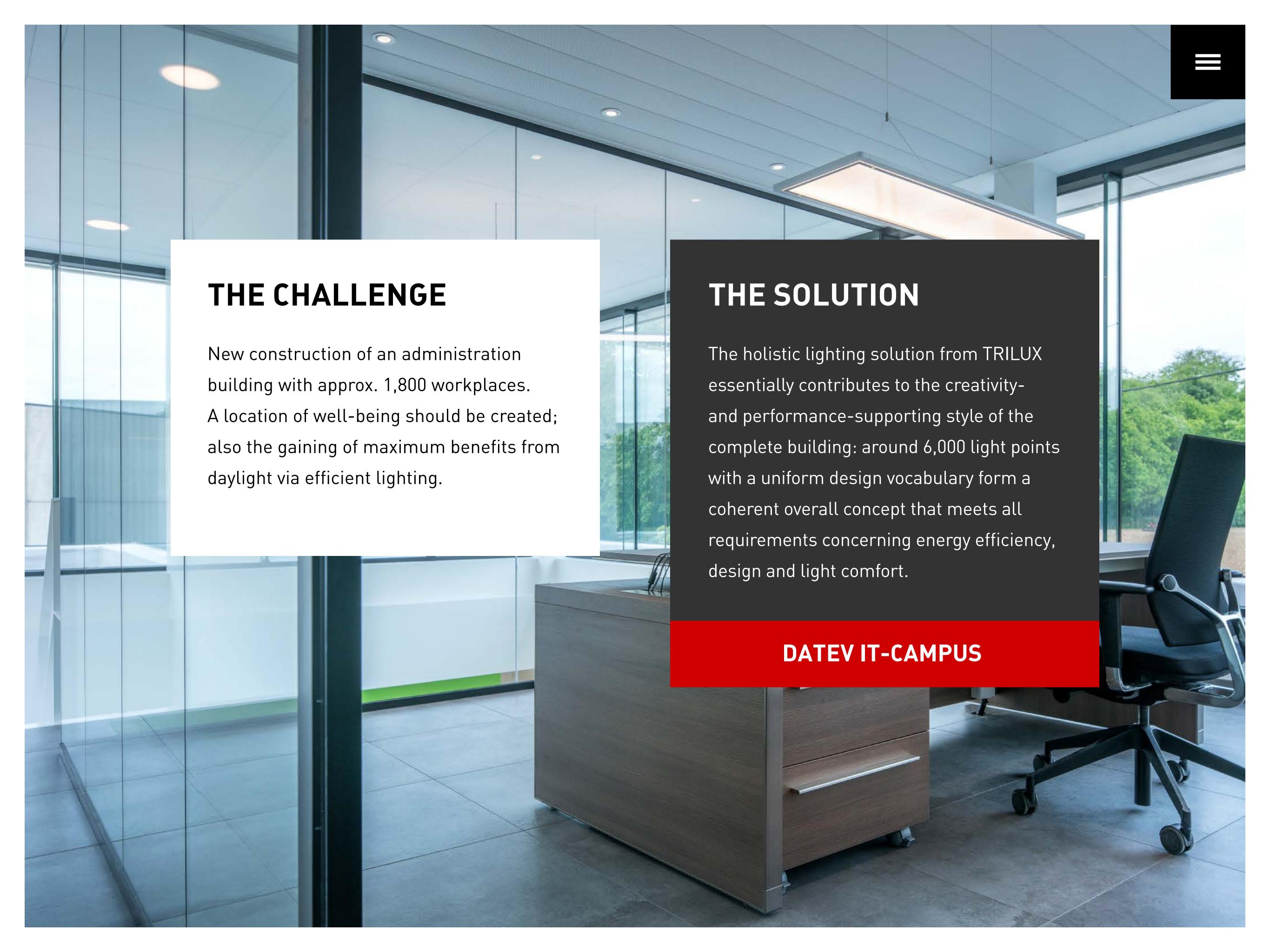


OFFICE

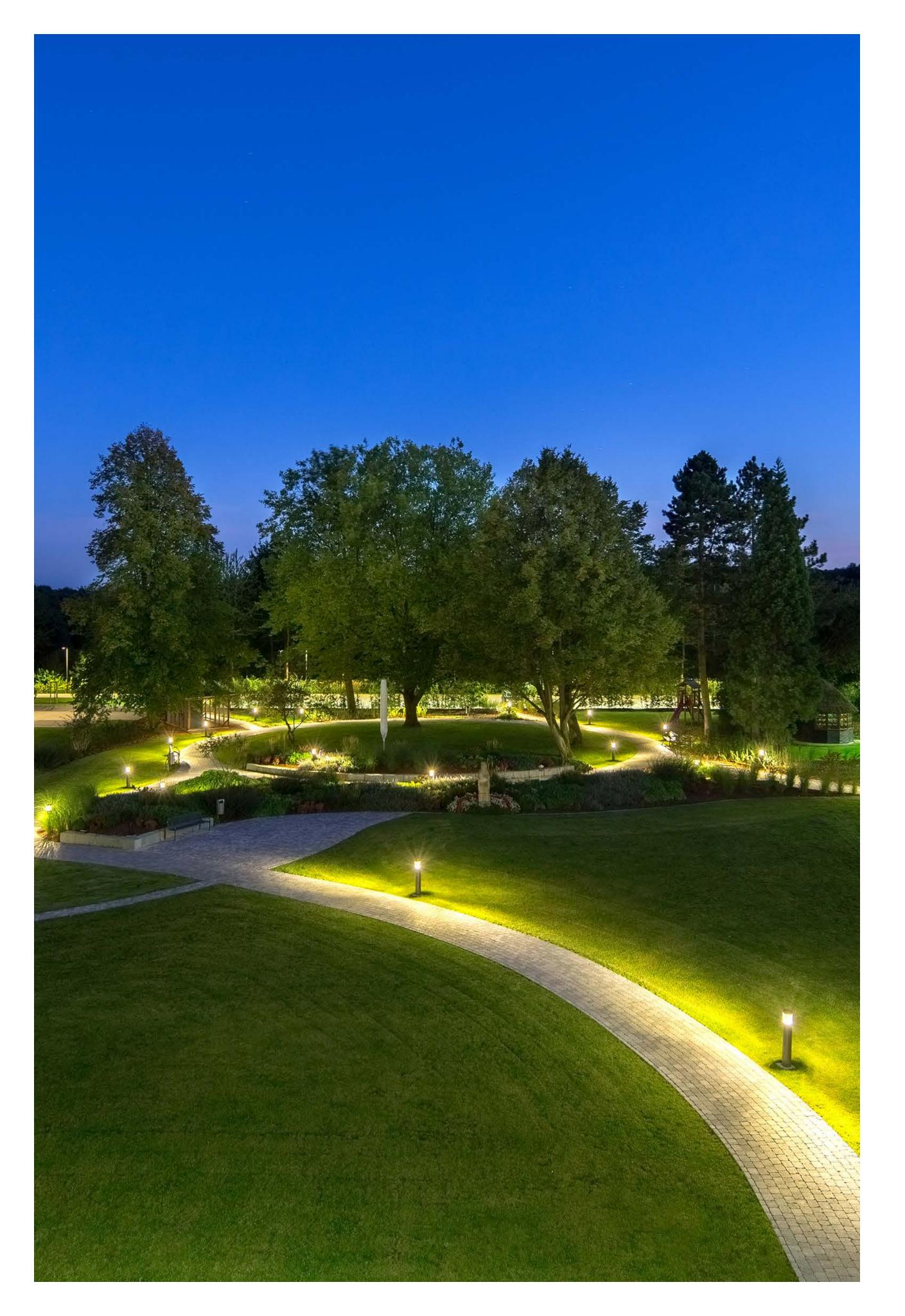
New worlds of work and New Work concepts place new demands on lighting solutions, e.g. regarding flexibility and quality of light.

The standard-compliant, glare-free illumination of rooms and individual task areas also influence concentrated, fatigue-free work.

Technologies such as Human Centric Lighting help to stabilise the biorhythm and therefore promote the ability to perform and support the well-being of employees.



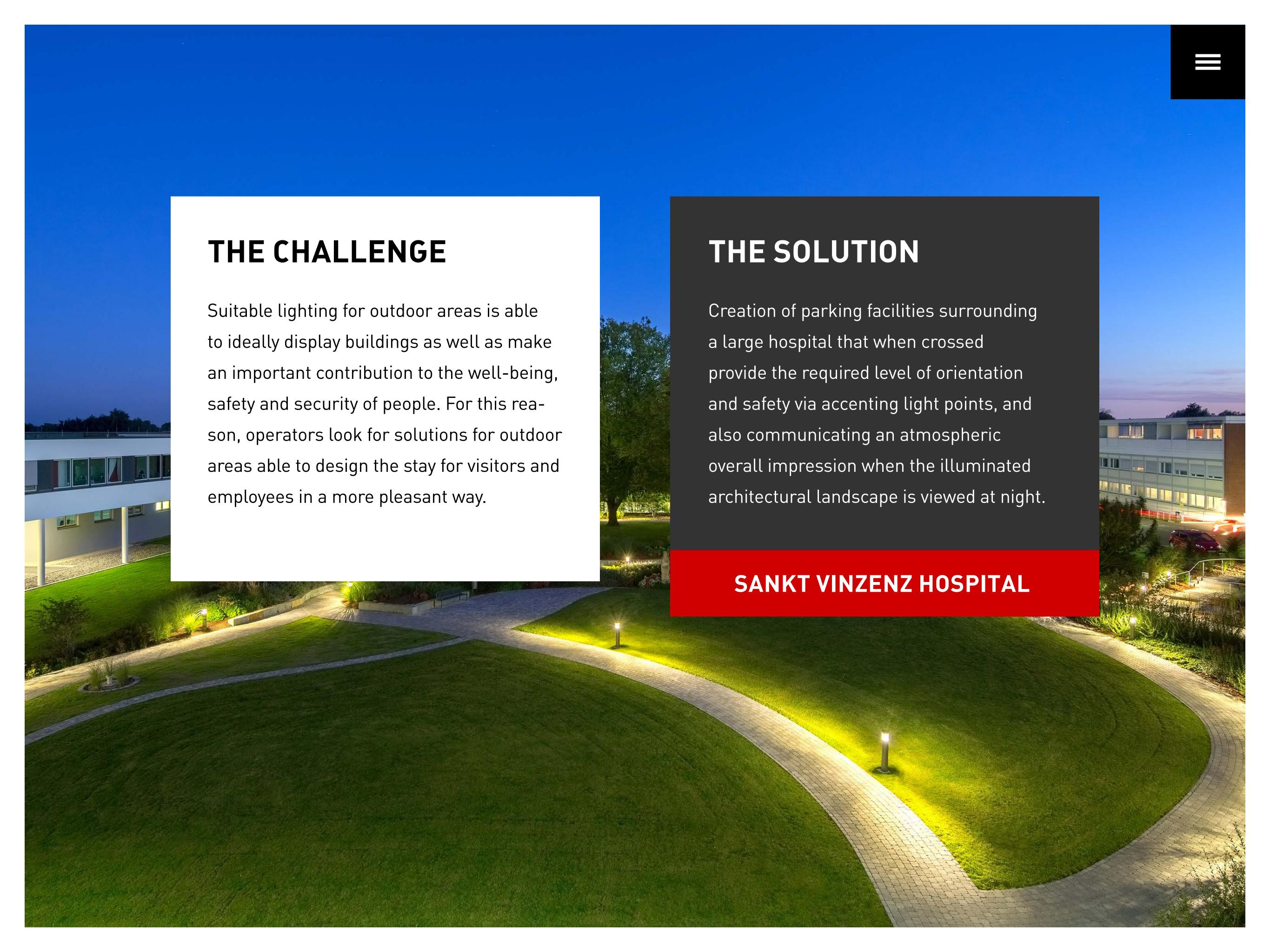


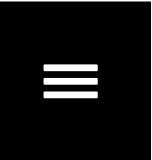


OUTDOOR AREAS

Almost all buildings have outdoor areas around the building, e.g. car parks, access ways and facade or entrance areas. Many companies use their outdoor lighting as an extended form of business card if aesthetic or emotional aspects are focused on.

The TRILUX product portfolio enables the lighting solutions, above and beyond the borders of the building, to be implemented with a uniform design and from a single source.



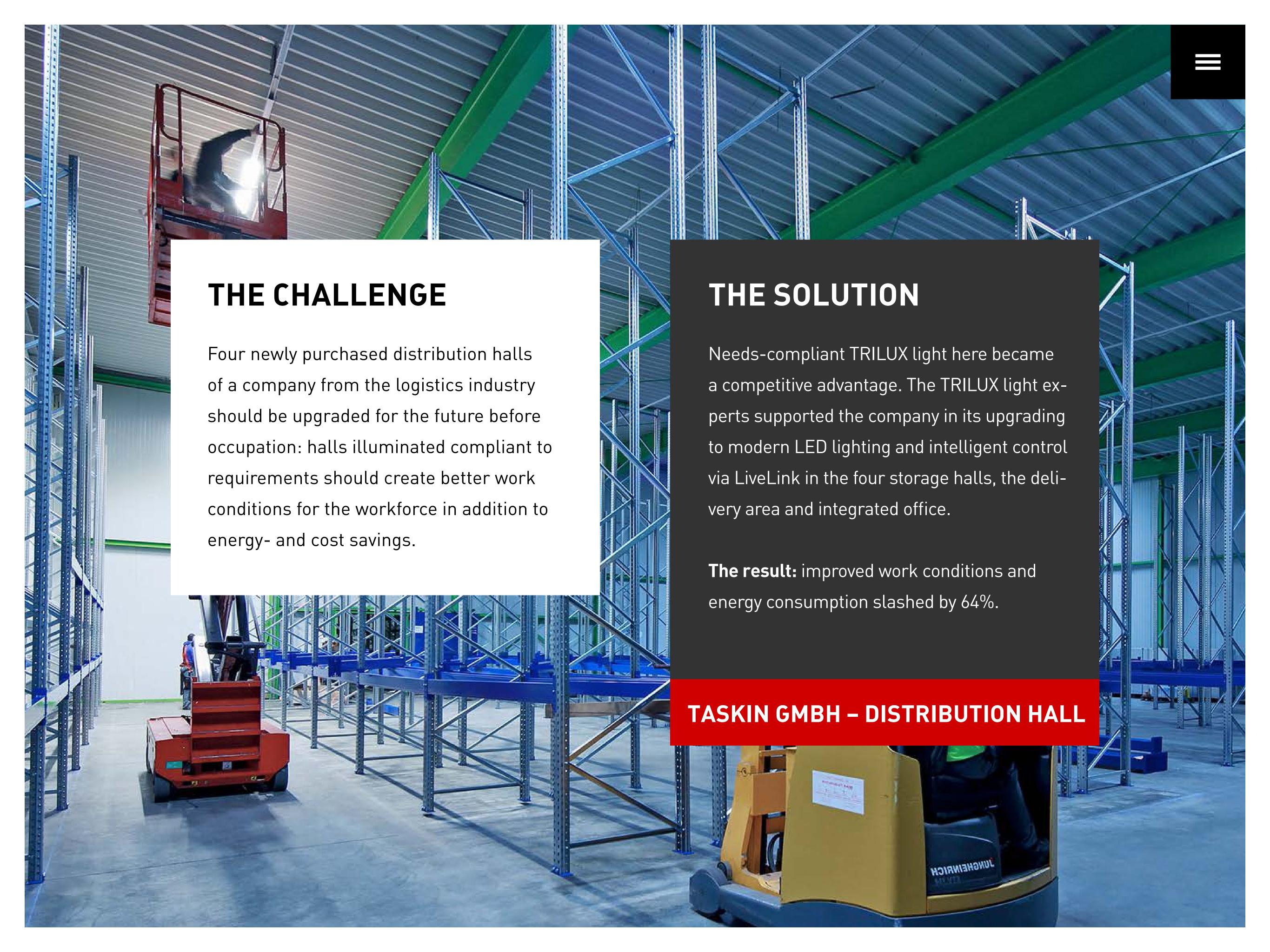




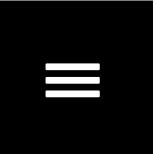
LIGHT MANAGEMENT

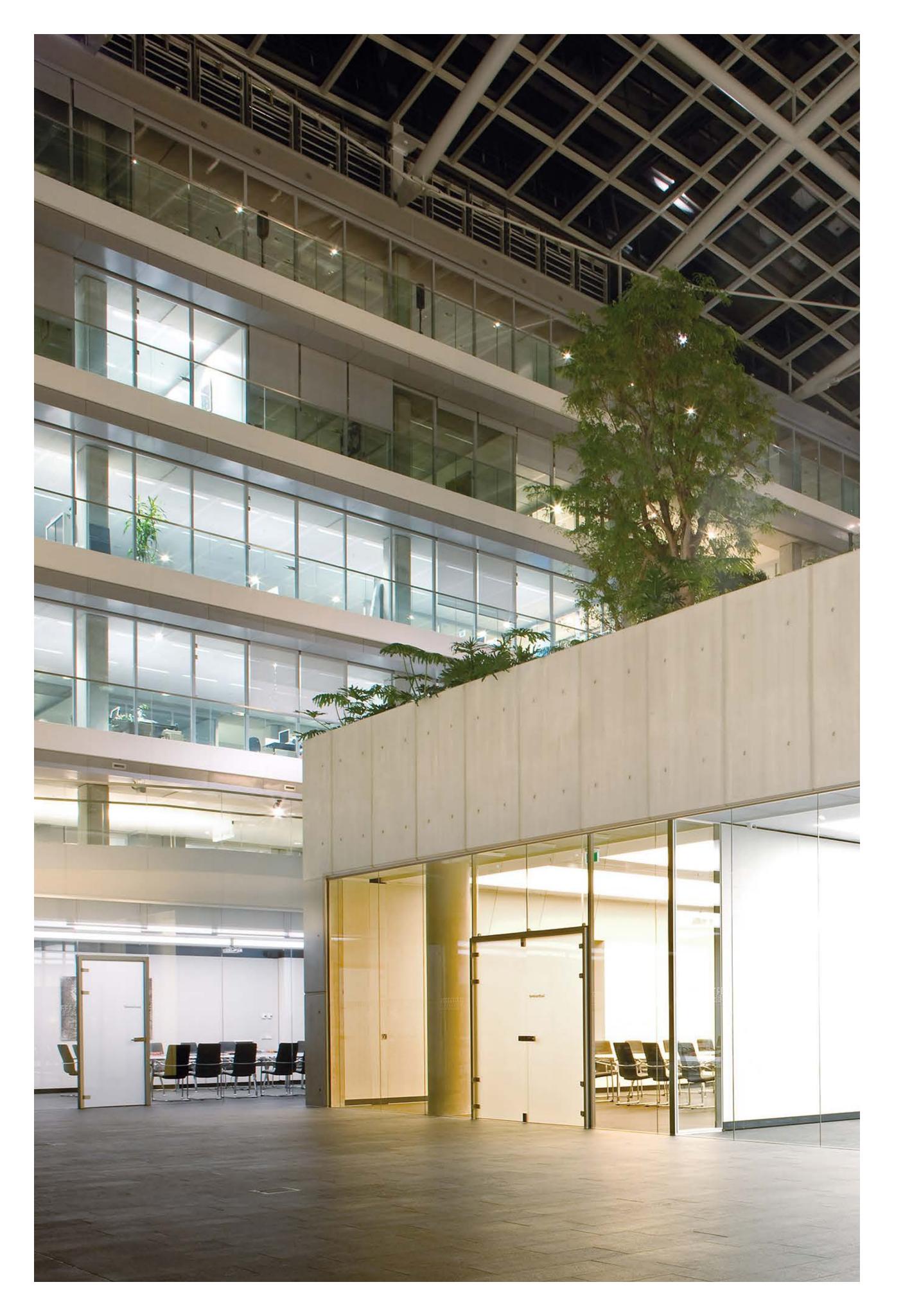
Welcome to the digital world. The next few years will witness the complete penetration of LED technology, enabling the transformation in the lighting market to enter a new phase. Light management, the intelligent control of light, will then be the dominant topic.

The LiveLink light management system enables the effortless setting up, control, regulation and monitoring of the lighting network.





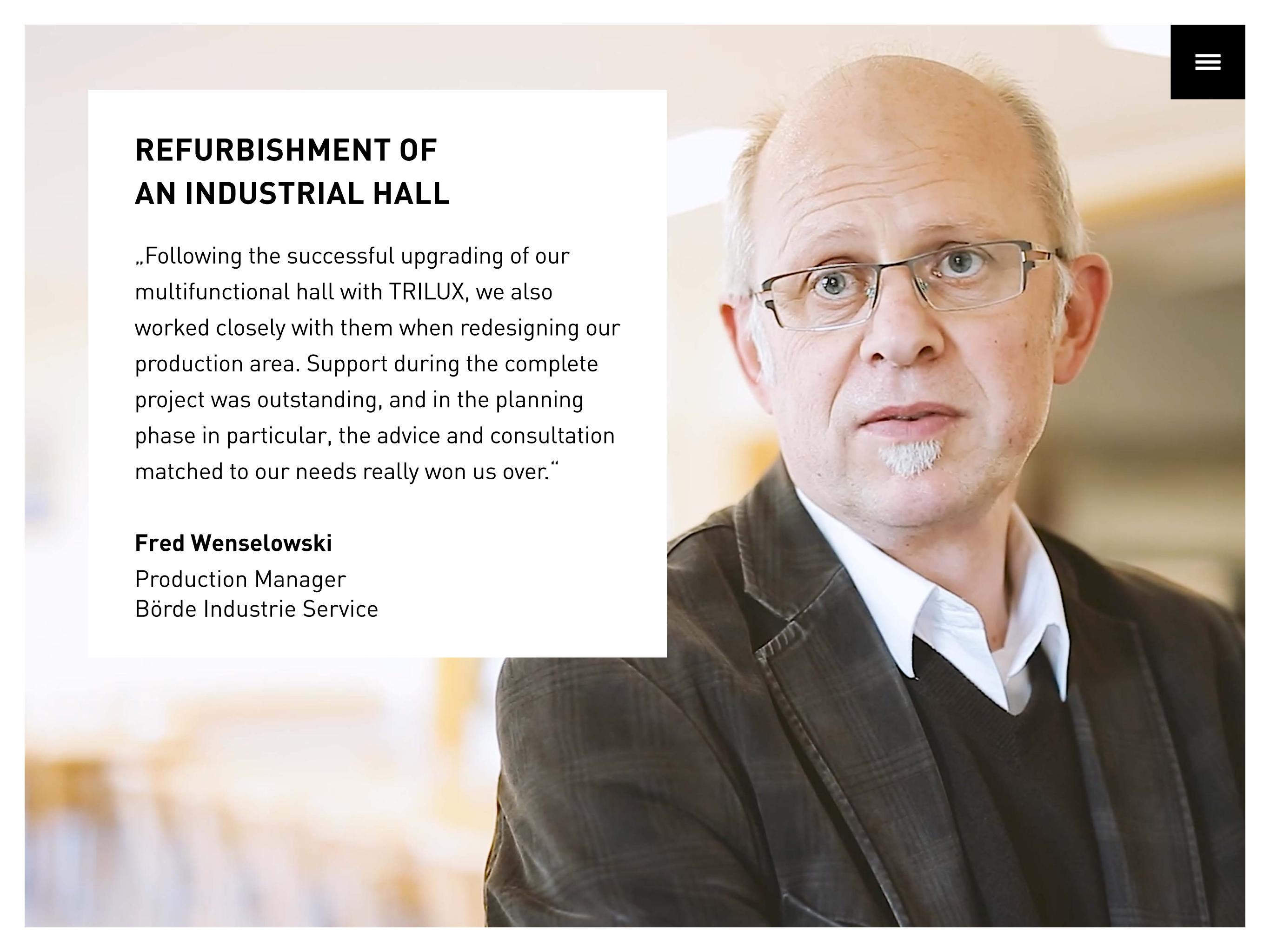




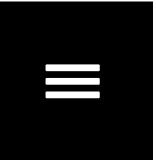
INFORMATION & ADVICE

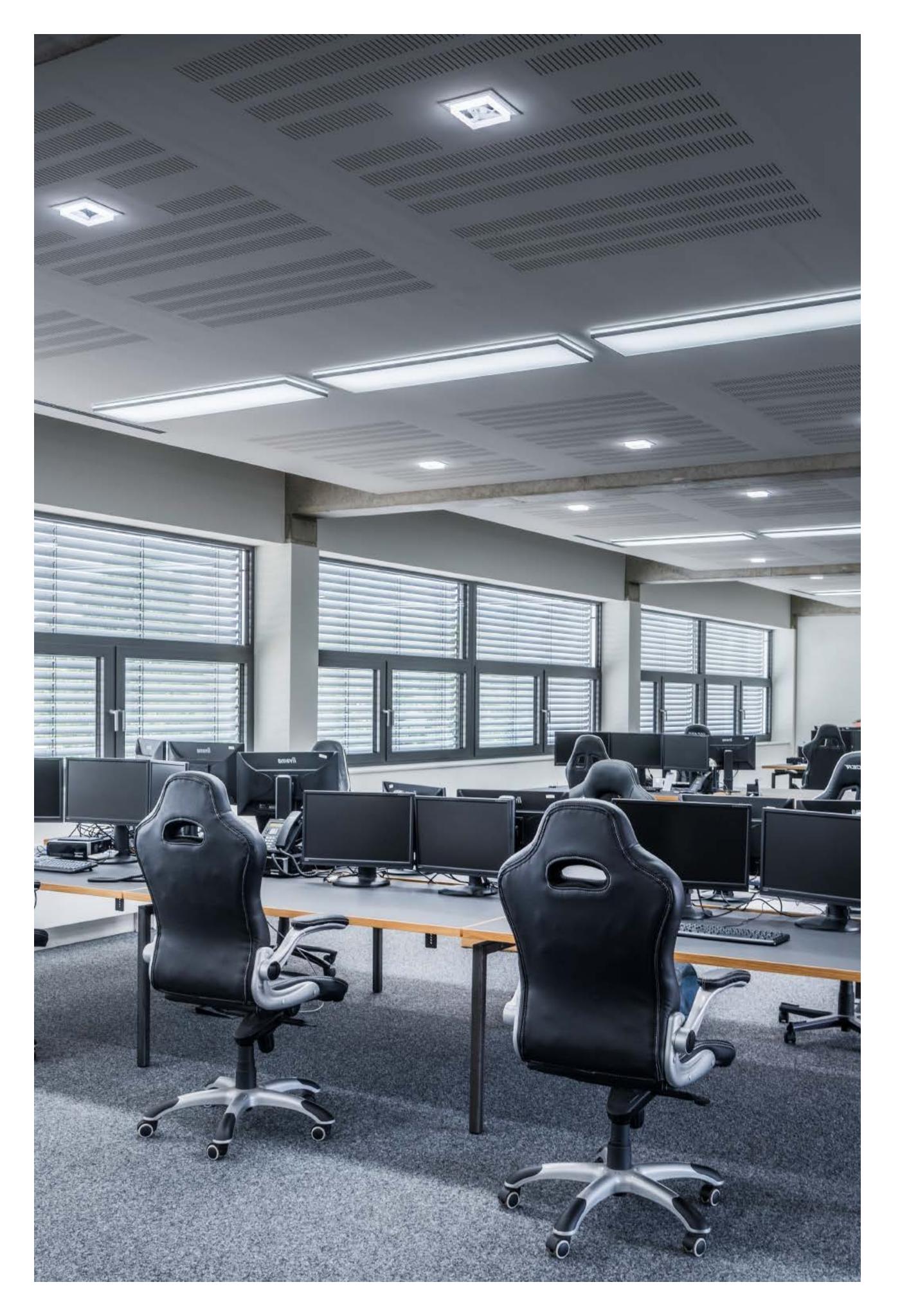
WE'LL HELP YOU FIND THE PERFECT SOLUTION

- **Expert advice** according to needs for the system, technology, financing and services
- Calculation of energy and cost efficiency (existing system vs. new system)
- Complete information concerning lighting:
 energy efficiency, the benefits and disadvantages
 of various solutions and online configuration of
 the lighting installation









FINANCING

VARIOUS POSSIBILITIES AND EXTENSIVE ADVICE

Together with you we draw up your ideal financing solution.

- Balance-neutral realisation of lighting projects without own investments: greater scope for action by protecting your equity capital
- **Cost-covering** for a new lighting solution often from day one via savings in operating overheads
- **Renting** only the light actually needed on a monthly basis.

LED UPGRADE OF AN OFFICE BUILDING

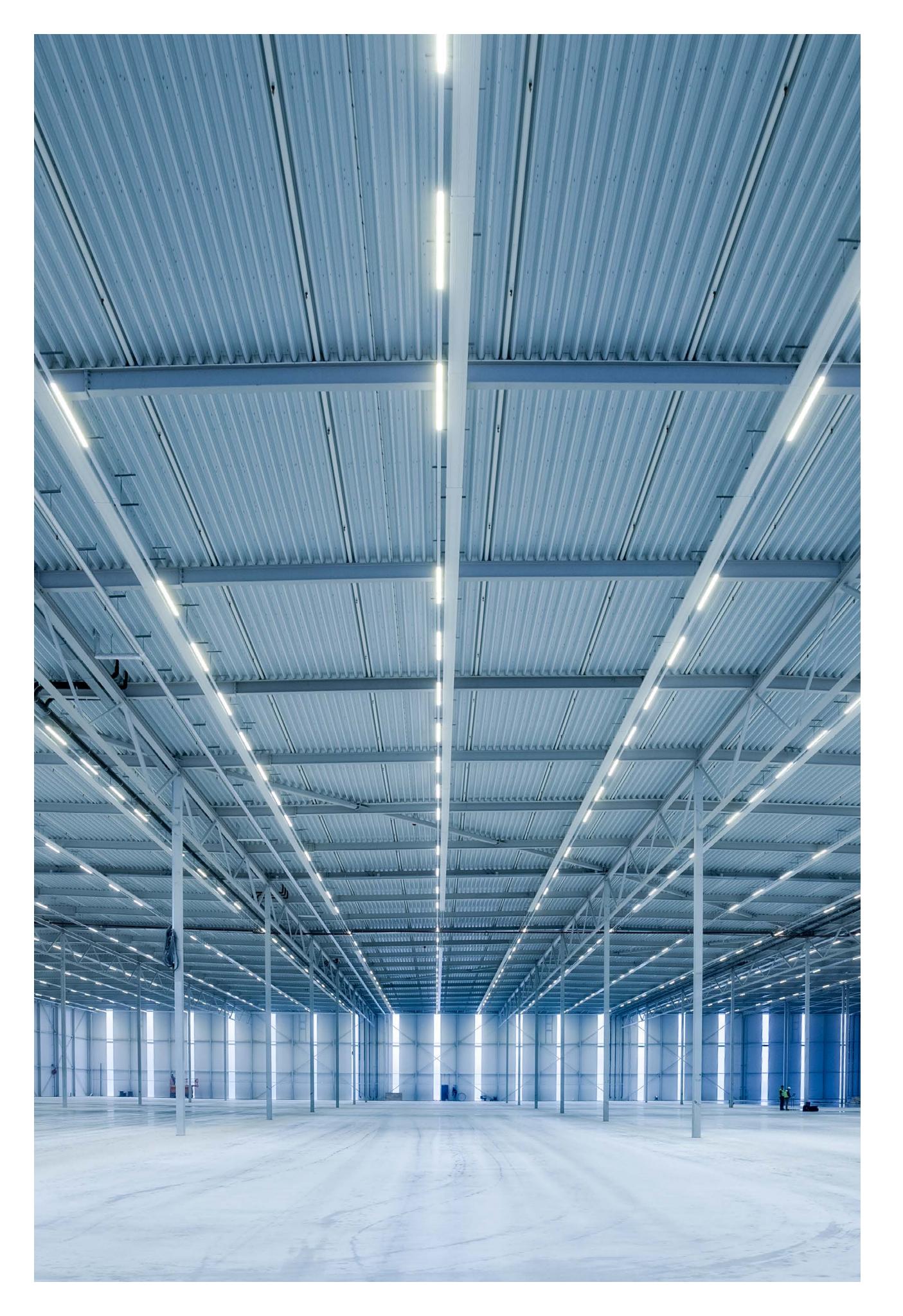
"The project was a logistical challenge for everyone involved but in the end everything worked well. We upgraded the lighting during running operation and managed to keep within schedule."

Holger Rost

Managing Director
Bochum Netz GmbH public utility





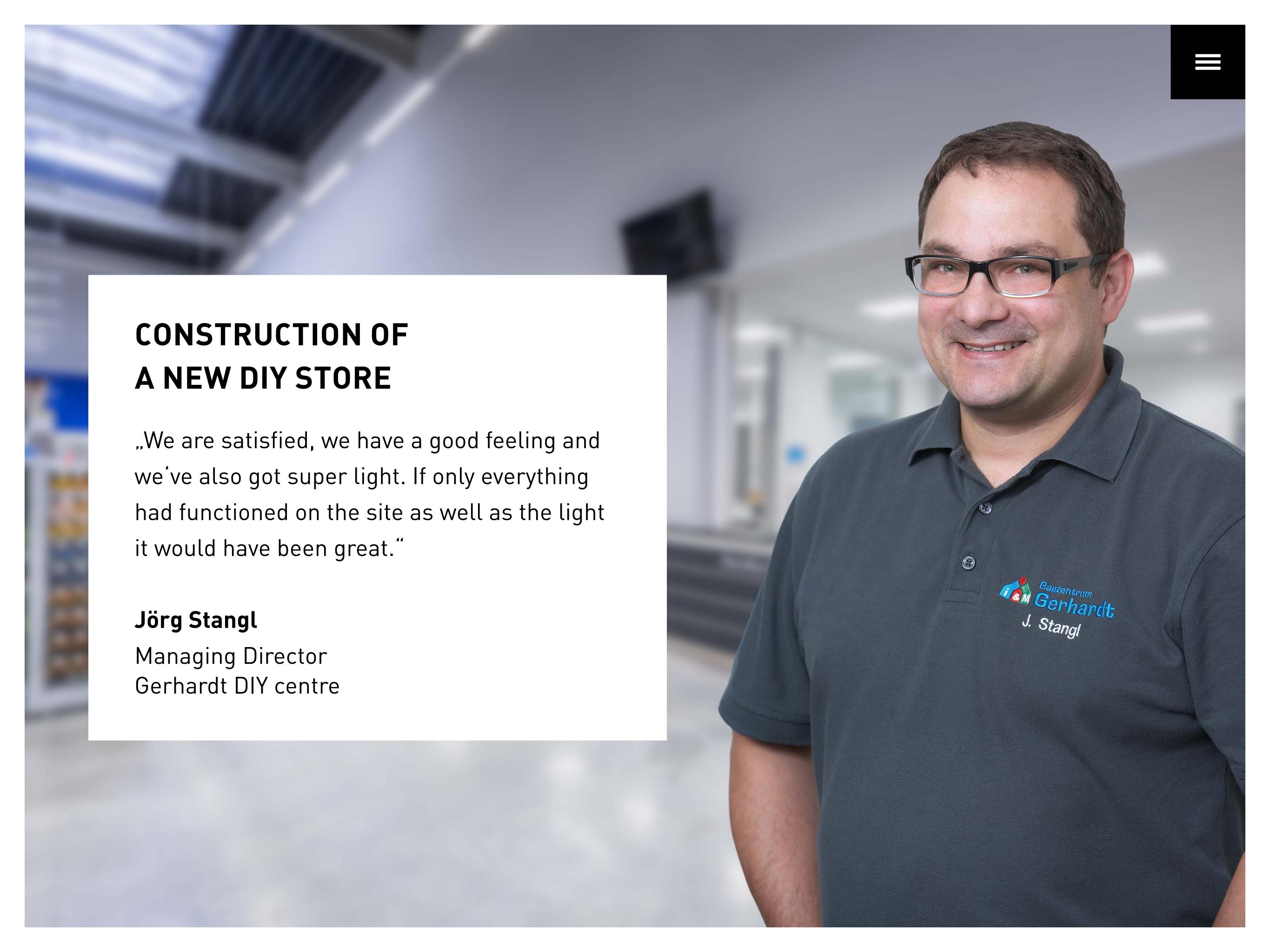




TECHNICAL SERVICES

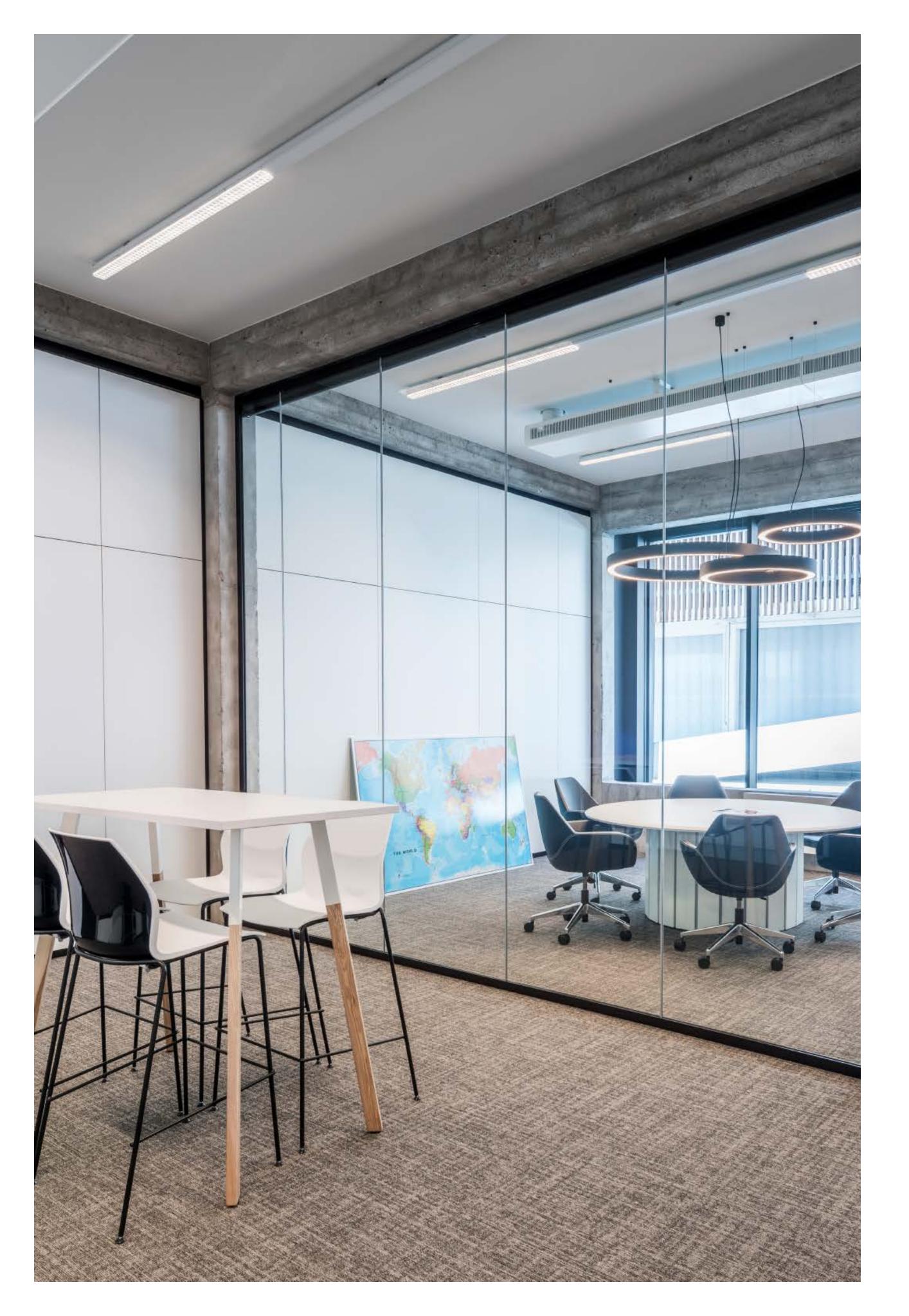
FROM DISMANTLING TO COMMISSIONING – WE'LL TAKE CARE OF IT!

- **Dismantling of the obsolete system** the existing lighting installation must be correctly disassem bled and disposed of before the new system can be installed. We would be happy to work together with a local electrical contractor.
- Installation and commissioning TRILUX Services takes responsibility for the complete installation and commissioning of your new lighting system including programming as well as the commissioning of a light management system such as LiveLink.





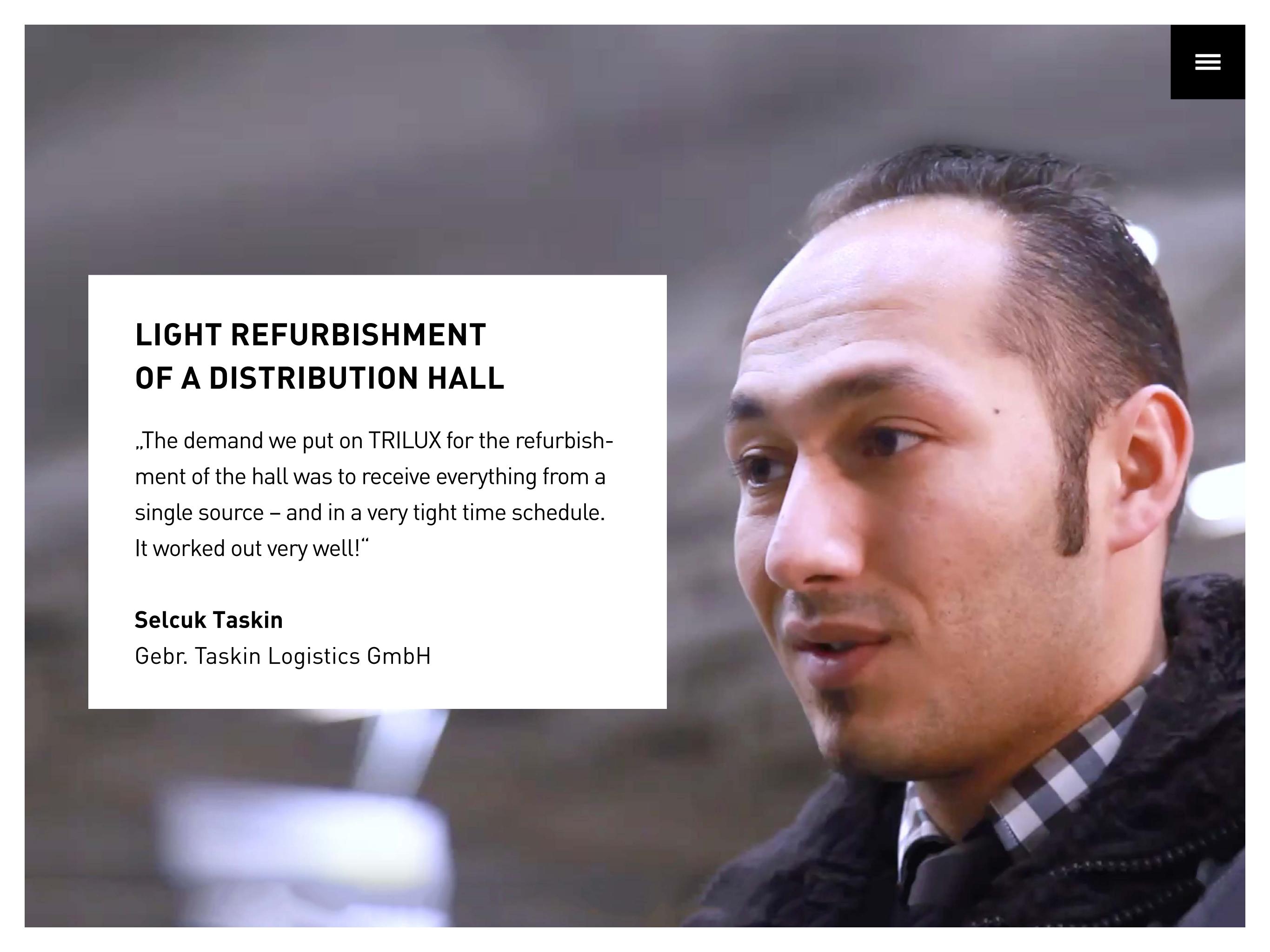


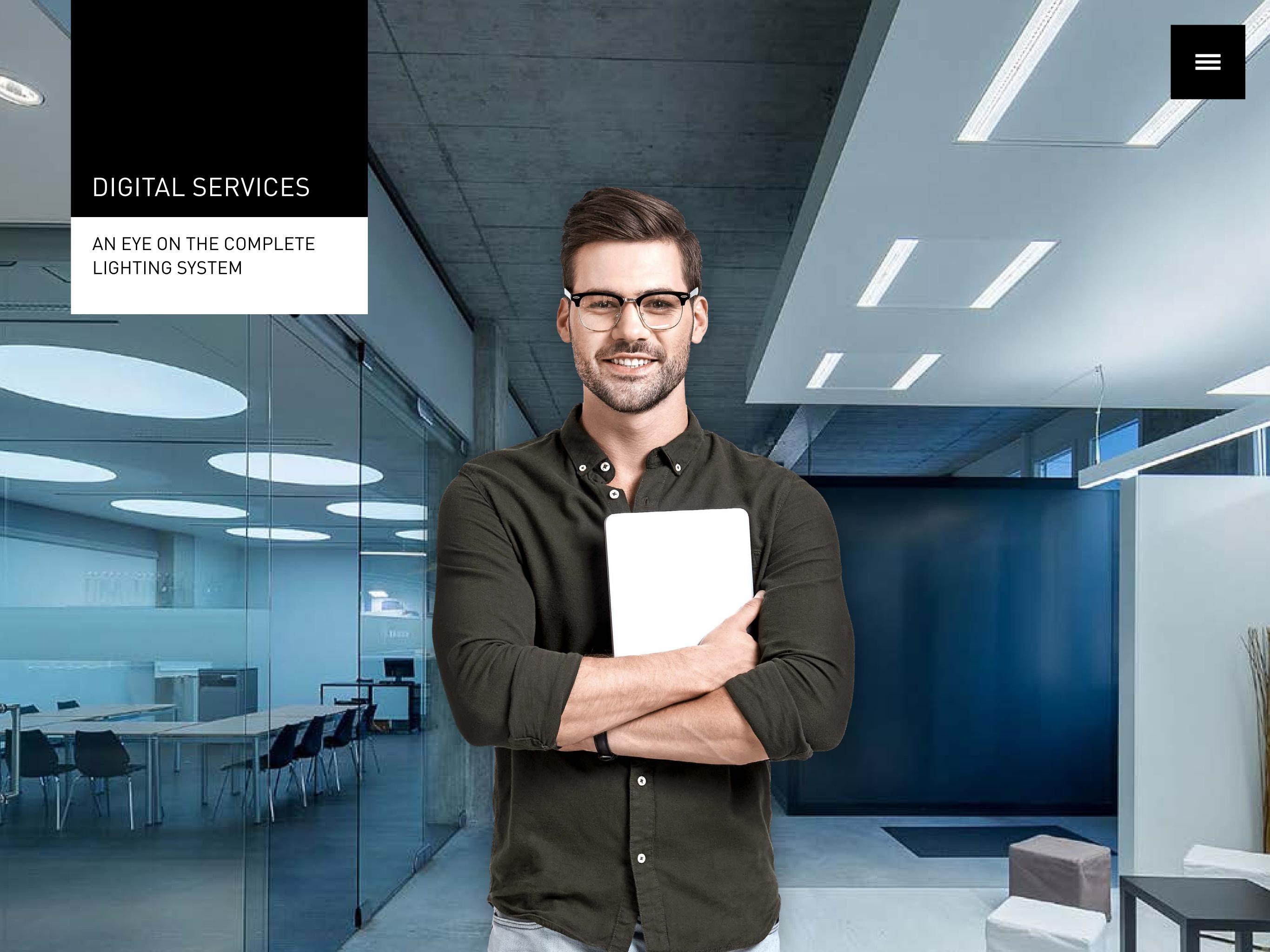


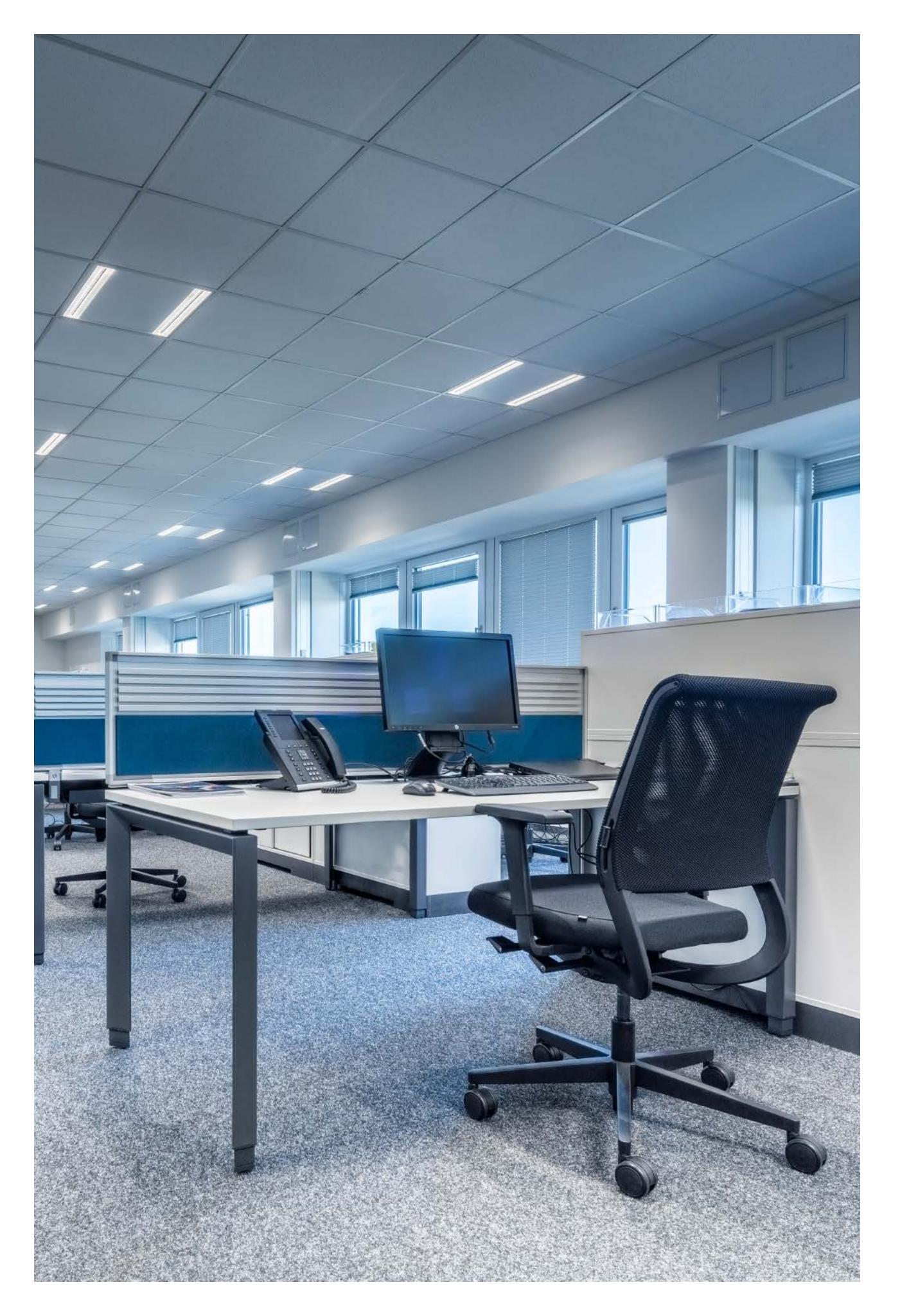
PROJECT MANAGEMENT

COORDINATION OF LARGE PROJECTS

- Full Service Package for the customer: TRILUX acts as the general contractor in all lighting related aspects of the project.
- Implementation of all coordination tasks by TRILUX Project Management.
- These range from lighting design consultations to the integration of various lighting-related systems such as indoor, outdoor and emergency lighting, light management including sensor tech nology, distribution, supply, mounting, installation and maintenance.









DIGITAL SERVICES

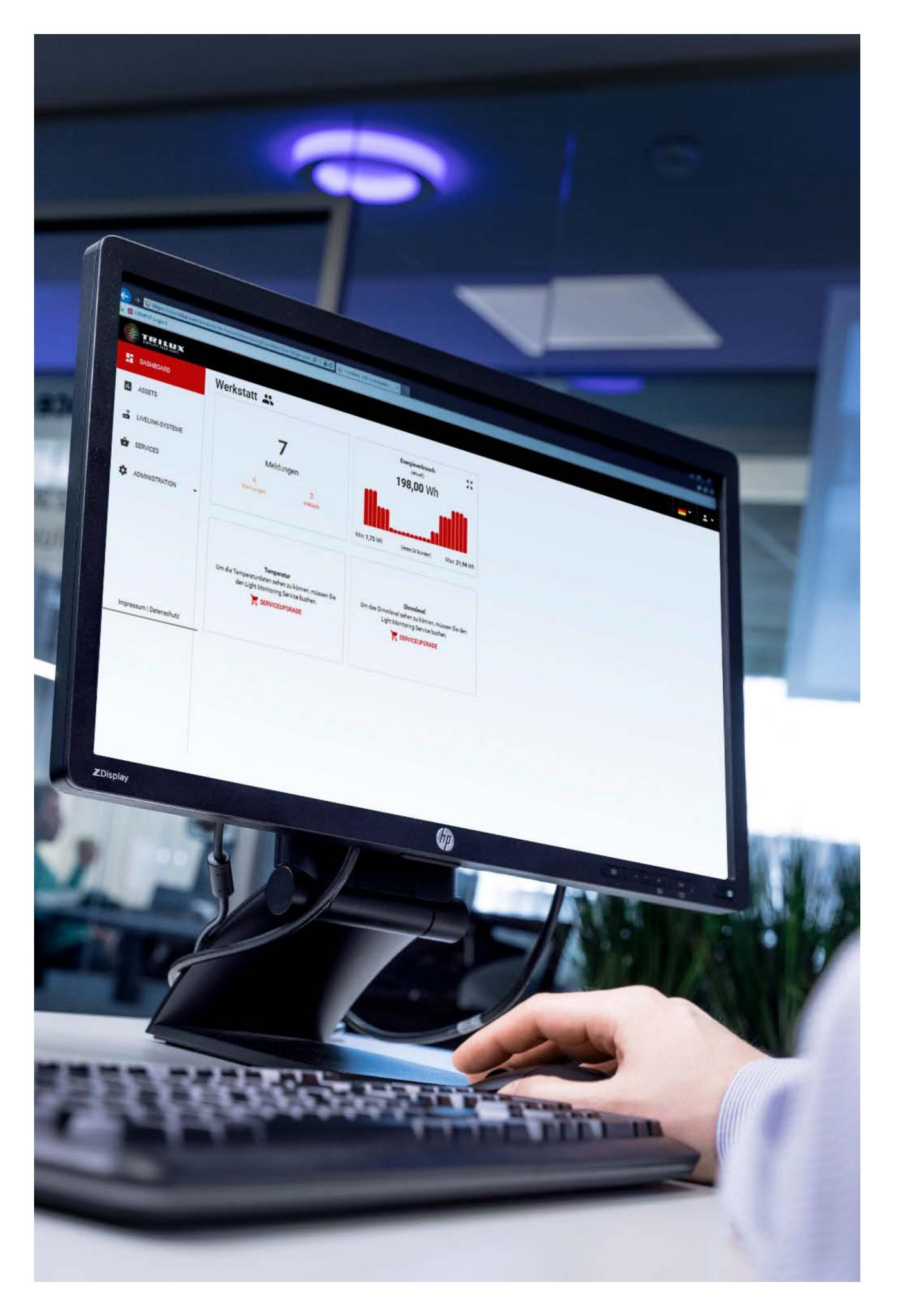
AN EYE ON THE COMPLETE LIGHTING SYSTEM

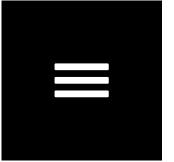
TRILUX Digital Services enable customers to realise the full potential of digital lighting solutions.

Users can select between

- Energy Monitoring
 Energy consumption analysis and optimisation
- Light Monitoring
 Monitoring the lighting and detecting maintenance needs

The result is increased comfort, greater transparency and reduced costs.





ENERGY MONITORING

ANALYSING AND OPTIMISING ENERGY CONSUMPTION

Energy consumption operating data can be read out via the LiveLink light management system

Benefits for the customer are obvious:

- higher cost transparency
- Optimisation of energy consumption

Energy monitoring supplies data for:

- Operating status (on or off)
- Energy consumption
- Operating duration





LIGHT MONITORING (1/2)

FULL CONTROL OF THE COMPLETE LIGHTING SYSTEM

Access to all relevant operating data of the lighting system, in particular active information on necessary maintenance (predictive maintenance).

Clear customer benefits:

- Energy consumption levels are optimised
- Maintenance cycles are adapted to real needs: reduced complexity and cost savings via predictive maintenance instead of fixed maintenance intervals
- New service offer: Generation of added value by installers and facility managers.





LIGHT MONITORING (2/2)

FULL CONTROL OF THE COMPLETE LIGHTING SYSTEM

Light monitoring supplies data on:

- Operating and dimming status
- Energy consumption and operating duration
- Required (predictive) maintenance
- Error notifications and ECG temperature





MANY THANKS FOR YOUR ATTENTION.

