



The Gateway into German Mittelstand Technology Champions



We know Germany.



We know Mittelstand.



We know Technology.



We acquire Champions.



Delivering "made in Germany" technologies to the global marketplace

IHSE Israel Shoham IHSE Israel Shoham IHSE South Korea Segul IHSE USA Cranbury

Established as technology group

2017

Subsidiaries



Revenue^{1,2}

€52m

Headquarters

Frankfurt

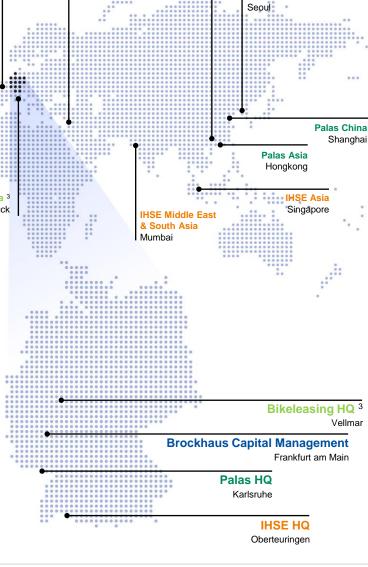
Germany

Employees¹

~230

Adj. EBITDA margin^{1,2}

24%





LEADING AEROSOL MEASUREMENT TECHNOLOGY FOR BETTER AIR QUALITY

DR.-ING. MAXIMILIAN WEIß
CEO - PALAS





PALAS Company overview

KPIs

€18m

FY20 Revenue

25%

17-20 Revenue CAGR

35% FY20 EBITDA margin

Employees

Company overview

- Developer and manufacturer of high precision devices for generating, measuring and characterizing particles in the air, with proprietary software/algorithms
- Full in-house value chain, from highly skilled R&D team to complete production staff
- Over 20 active patents and certifications
- Strong collaborations with universities and R&D institutions

Global presence directly and through partners



Unique selling proposition

Precision

- Highest accuracy
- Individual particle assessment
- Certified and compliant
- Optical technology

Low Maintenance

- Low operating cost
- Long lifetime
- Ample measurement range in single device

Large Scope

- Wide range of applications
- Indoor / Outdoor use
- Compatibility
- Modular

Diversified customer base

Healthcare





Manufacturing





Chemicals





Automotive







PALAS

Technology – Overview

Light source

White polychromatic light provides stable, homogeneous illumination

of the optically precisely focused measuring volume

Detector determined

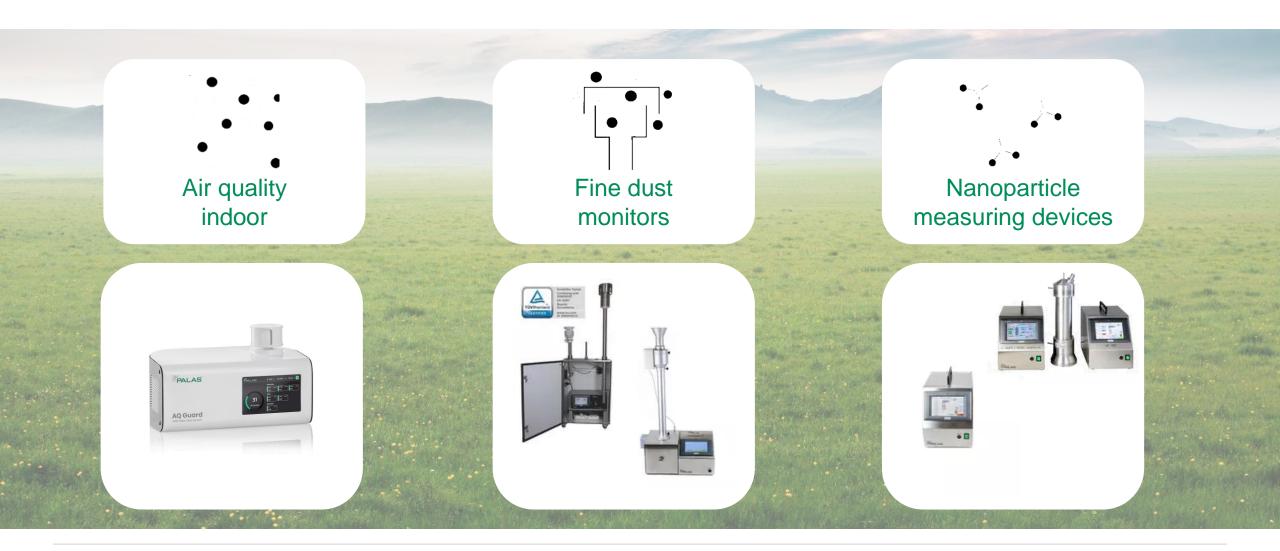
Particle

Every single particle scatters light, thus creating a clear light pulse signal

The high-resolution photomultiplier records every signal in real time – thus every particle is counted, and its size is determined



PALAS Technology – Air Quality







PALAS Technology – Industry & Science







PALAS AQ Guard

Measurement of indoor air quality

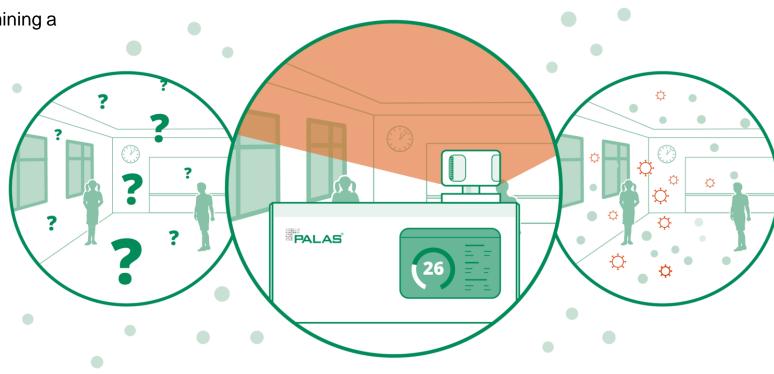
Measurement of aerosols down to the size of a virus (175 nm)

Measurement of CO₂ as an indicator of "used air"

Automated evaluation of infection risk by determining a

reproduction number





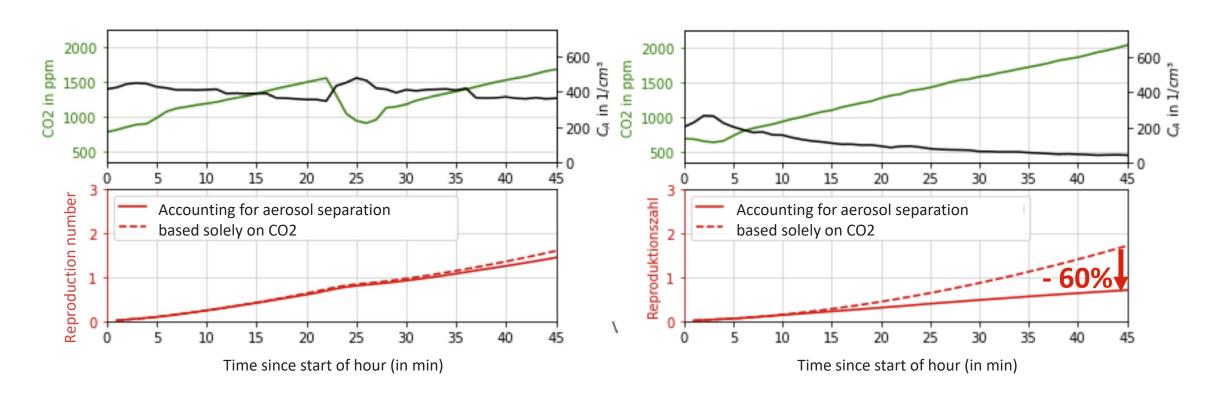




Air quality measurement during two school hours

Without room air purifier with ventilation

With room air purifier without ventilation







PALAS PMFT System

Testing masks for protection against viruses

- Exact analysis of mask filter efficiency e.g. for the corona virus
- Measurement of respiratory masks according to standards (e.g. FFP2, KN95)

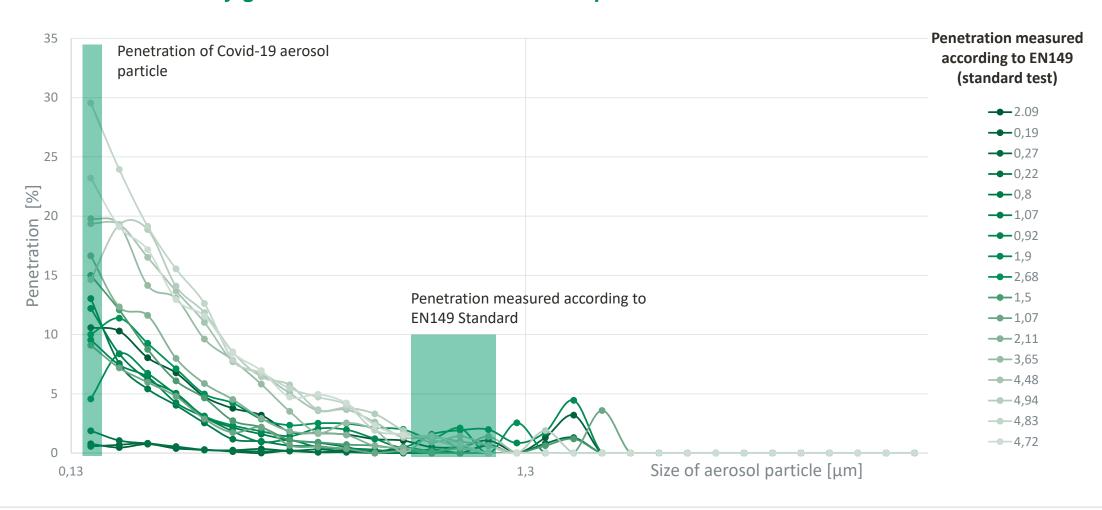






PALAS PMFT System

Penetration of various very good FFP2 masks as a function of particle size

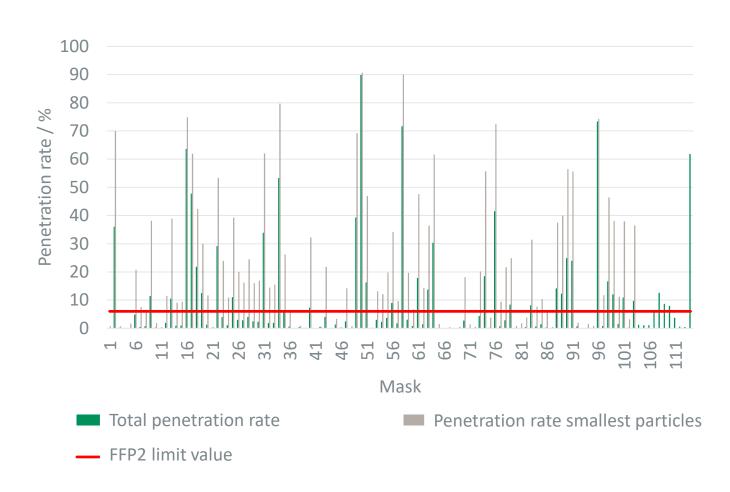




PALAS PMFT System

Permeability of 114 tested masks in hospitals

- 34.21% of the masks do not meet the test according to the EN149 standard (total permeability > 6%)
- 64.91% of masks do not provide sufficient protection against viruses (permeability in the range of viruses > 6%)



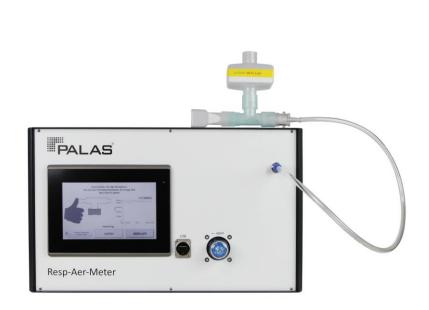


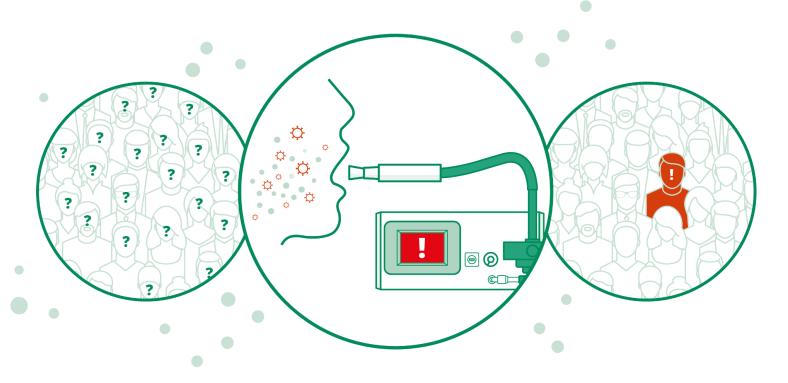


PALAS Resp-Aer-Meter

Determining the number and size of exhaled aerosols

- Detection of super spreaders / infection drivers
- Diagnosis of disease progression



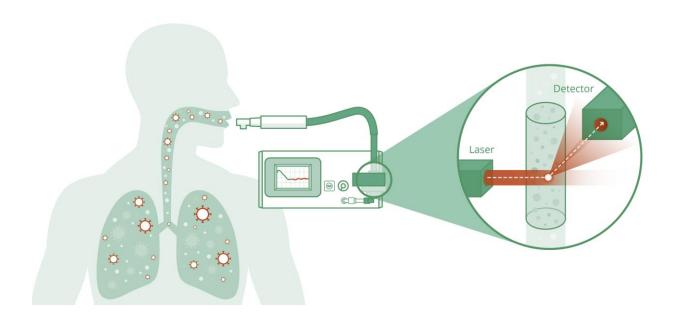


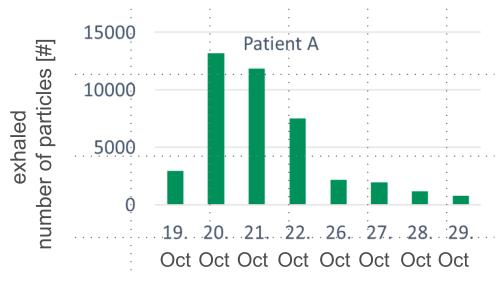




Example of the disease progression for a SARS-CoV-2 infected person in October 2020

- Only about 10% of infected people spread the virus further and breathe out more aerosols / viruses
- These "super-emitters" can be detected / measured
- "Super-emitters" exhale up to a factor of 100 more aerosols than healthy persons







PALAS Resp-Aer-Meter

The lung as source of aerosols and information

- A completely new measuring device for infection control
- The measured information offers potential for medical diagnosis
- A study is currently conducted at the Frankfurt University Hospital where 80 SARS-CoV-2 infected persons were measured
- The data is comparable to the first X-ray image, the available information offers many possibilities for analysis



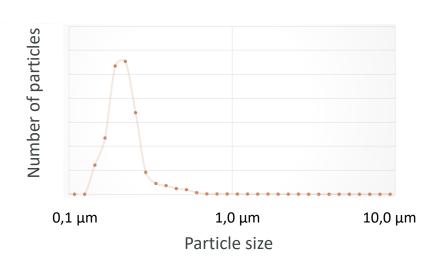
Bertha Röntgen has to sit still for more than half an hour on 22 December 1895. That is how long her husband Wilhelm Conrad Röntgen irradiates her hand. Bertha's patience is rewarded: today, the image is considered the most spectacular X-ray image



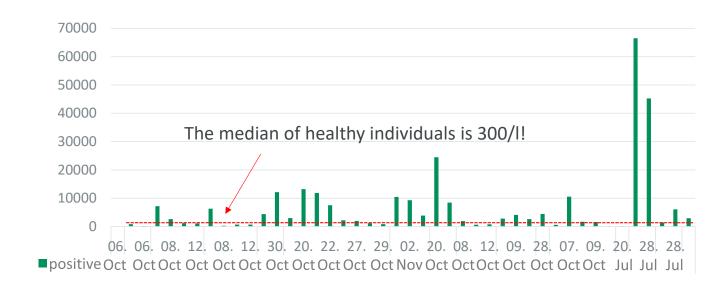


The lung as source of aerosols and information

Measured particle size distribution of an infected person



Measured particle counts of several infected persons













Business overview

KPIs

€34m

FY20 Revenue

10%

15-20 Revenue CAGR

35% FY20 EBITDA margin

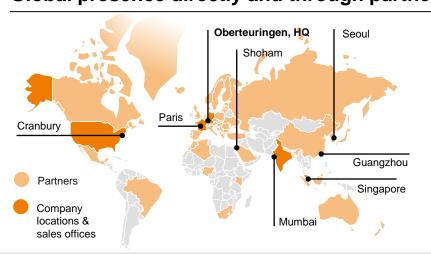
~125

Employees

Company overview

- A leading provider of high-performance KVM network technology with over 30 years of experience
- In-house hardware and software development with brand new production facility
- Established go-to technology for highly secure missioncritical applications
- Low latency, fast switching and fully redundant system architecture

Global presence directly and through partners



Unique selling proposition

Flexibility

- Modular
- Customizable
- Easy to integrate
- Compatible
- Scalable

Security

- Redundant
- 100% uptime
- Fail-safe
- Physical isolation
- Access control

Speed & Quality

- Real-time
- 4K standard, 8K and beyond
- Lifetime guarantee
- Referenceable clients

Diversified customer base

Entertainment

NETFLIX HBO BT SPORT

Industrials



Air Traffic



Utilities





Other verticals e.g. Healthcare, Government & Defense, Transportation, Education, Automotive, Finance...



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KVM Technology

KVM technology enables the high-performance separation of workstations and their individual computers

Video and Keyboard

Video and input signals are connected to the console unit

KVM Switch

Enables direct real-time access at full bandwidth and with maximum video resolution from every workstation to every computer



CPU Unit Extender

- Encodes video, audio and data signals from the source and sends them via onsite cable to the console unit
- Decodes audio and data from the input devices at the workstation and sends them to the computer





Console Unit Extender

- Decodes video and audio data that comes from computers and delivers native signals to peripherals via onsite cable
- Encodes input signals from the peripherals and sends them to the computers

Why KVM?



Optimization

- Outsourcing of computers
- Direct access
- Latency-free extension of computer signals



Cyber Security

- Access control
- Complete isolation



Cost & Energy Savings

- Longer service life
- · Jointly used resources
- Total cost of ownership
- Green KVM: low power consumption, ergonomic workspace solutions



Selected product innovation

TREND

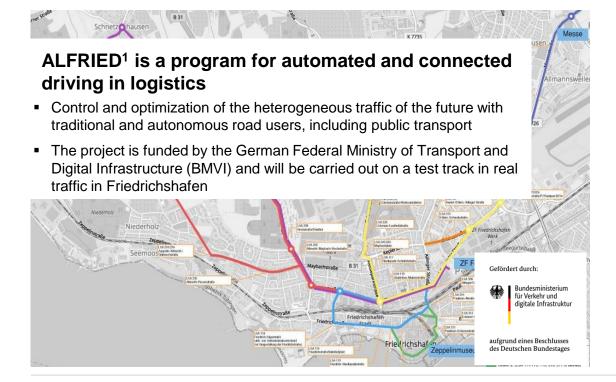
CLIENT / PROJECT

Mobility |

Project
ALFRIED
Germany

APPLICATION

Utilities and transportation





Contribution of IHSE

- As an expert for mission-critical data transmission, IHSE leads the workstream "Smart City Control Centre" within the project
- The task is to develop a concept for a control centre, which will be implemented and evaluated within the framework of the innovation lab
- A particular challenge is the integration of immense data streams from a wide variety of sources into the "mobility data room" and the development of a corresponding cyber security policy
- Special equipment is being developed specifically for the project in accordance with the so-called KRITIS criteria for critical infrastructures



Selected product innovation

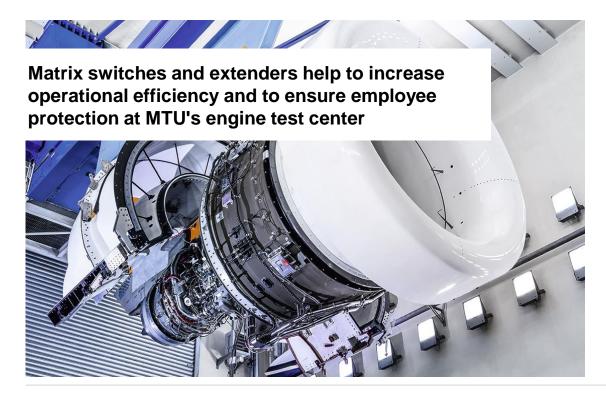
TREND

CLIENT / PROJECT

APPLICATION

Smart Factory

MTU Germany **Industrial / Corporate**





Contribution of IHSE

- The test control station and the actual test laboratory are physically separated to ensure protection from noise and potential hazards (e.g. engine damage)
- Improved operational efficiency through increased network uptime and equipment availability





Selected product innovation

TREND

CLIENT / PROJECT

APPLICATION

Mobility

ERAMUSA

Aerospace



The U.S. civil air traffic control system relies on IHSE's high-end KVM and AV solutions to increase operational efficiency and to enable fail-safe management of all flights for Project ERAM (En Route, Modernization, Automation)





Contribution of IHSE

- Track 74% more aircrafts simultaneously through higher data availability
- Three-tier redundancy concept that increases reliability and enables 24/7 operation
- Improved operational efficiency, reduced emissions and reduced workloads
- Seamless support of dedicated air traffic management equipment





Continuous internationalization

Successful expansion into South Korea



- In addition to the hub in Singapore, expansion in Asia continues with the successful opening of a sales office in Seoul
- The sales office is expected to provide improved service and support to Korean customers and strengthen the IHSE brand in the Korean market
- The new office will be headed by IHSE's current sales manager for the Korean market



Strengthened presence in China

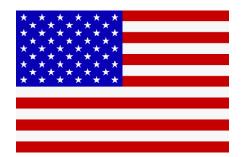


- With the opening of IHSE China in Guangzhou, IHSE takes the next step into the strategically important growth market China
- An experienced general manager was hired from one of the local distributors
- In addition, the local office should enable IHSE to be less affected by travel restrictions than it was during the COVID pandemic





ibse. Opportunities in the US









NIAP certification

- The National Information Assurance Partnership (NIAP) is responsible for the implementation of the "Common Criteria" in the US
- The certification relates to the hardware security space, which is explicitly relevant in the US
- NIAP certification primarily addresses customers in the US market and therewith further improves the competitiveness of IHSE in the US
- Currently in process of certification
- Simultaneously, the European certification according to "Common Criteria" is being carried out at FMV in Sweden



ihse. IHSE IP-Gateway



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IP MODULE FOR SECURE & POWERFUL REMOTE WORKING



IHSE Draco SIRA

- Remote gateway via IP interface
- Provides real-time remote access to a Draco tera KVM matrix via LAN, CAN or WAN
- Remote users access the matrix via HTML 5.0 browser, client software or Draco SIRA User Station
- The new IP module Draco SIRA CON (Secure IP Remote Access) increases the flexibility of the Draco tera matrix series
- Encrypted signal transmission over IP ensures intellectual property protection while still providing highly flexible access to matrix-connected target devices from remote locations over private or public networks
- Video resolutions of up to 4K
- Draco SIRA CON is compatible with Draco vario extender series and Draco vario cases



ihse. References













BIKELEASING

Your company bike provider

Bastian Krause - CEO

BIKELEASING

The leading digital B2B leasing platform

- Currently over 25,000 companies on the platform
- With an underlying workforce of around 1,2m employees
- New customers in 2021 (YTD): 7,591 with 333,338 employees
- Approx. 5,000 retailers

Awarded by

ERGO

Reference Customer



Among others, these companies also already trust Bikeleasing











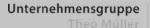














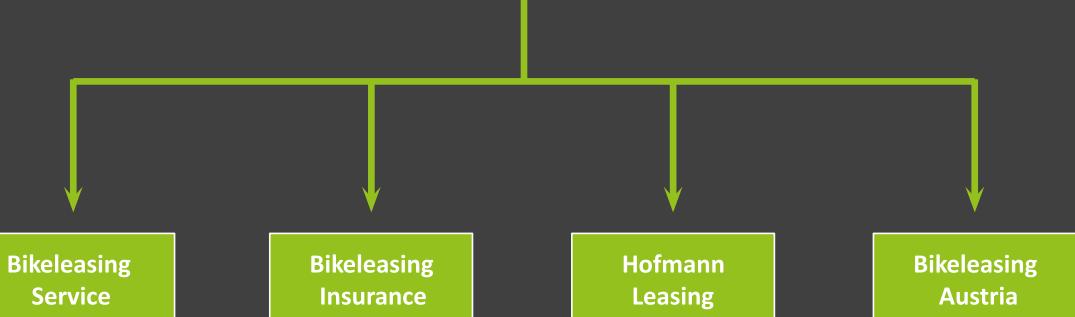


History

| Foundation 2014 | as of 2016 Paul Sinizin joins the company and the model is expanded to include retailers | | 2019 | | | 2020 | | 2021 |
|-------------------------------|---|-------|--|--------|--|------|------------------|-------------------|
| of Enerbike by Bastian Krause | | | Integration of insurance broker IRAGON | | Strategic acquisition of Hofmann Leasing | | Start Austria | |
| | 2016 | 2017 | | 2018 | 201 | 9 | 2020 | 2021 (YTD) |
| New leasing contracts | 2,400 | 8,900 | | 15,500 | 33,0 | 000 | 64,000 | 46,764 |
| Employees | 3 | 20 | | 64 | 94 | | 160 | 172 |
| Companies | 287 | 1,200 | | 4,800 | 10,3 | 300 | 20,300 | 27,200 |

Status 2021

BIKELEASING



The Bikeleasing Offer

The Bikeleasing offer is aimed at companies that want to **motivate their existing employees** and **retain** them for the **long term**, as well as attract new employees.

In doing so, any company can offer its employees **great benefits** at **no effort** or financial expense on their part!



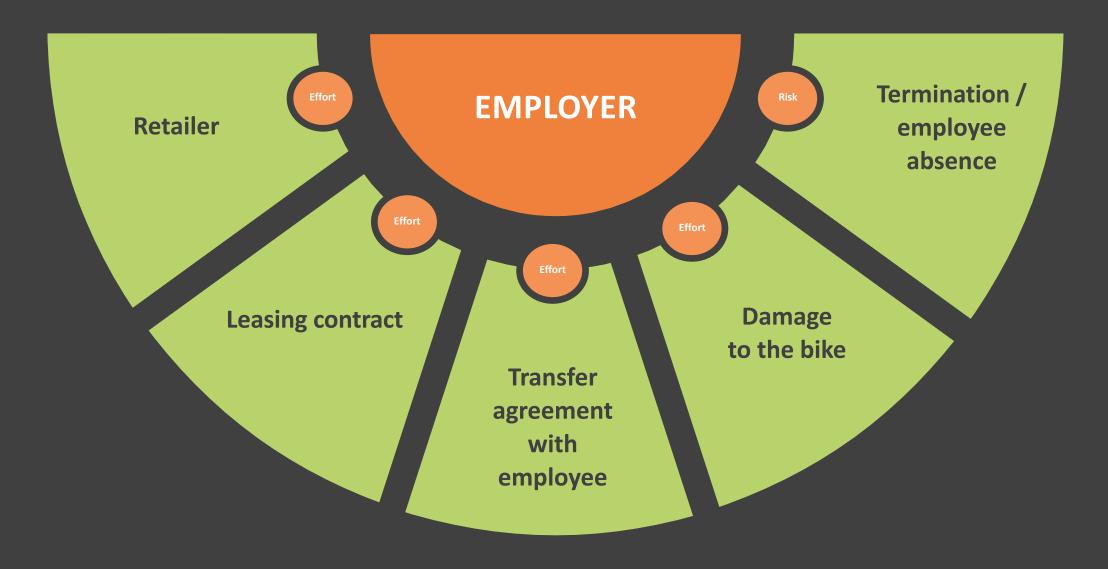
The Facts

Since 01.01.2020, company bikes are taxed according to the new 0.25% rule

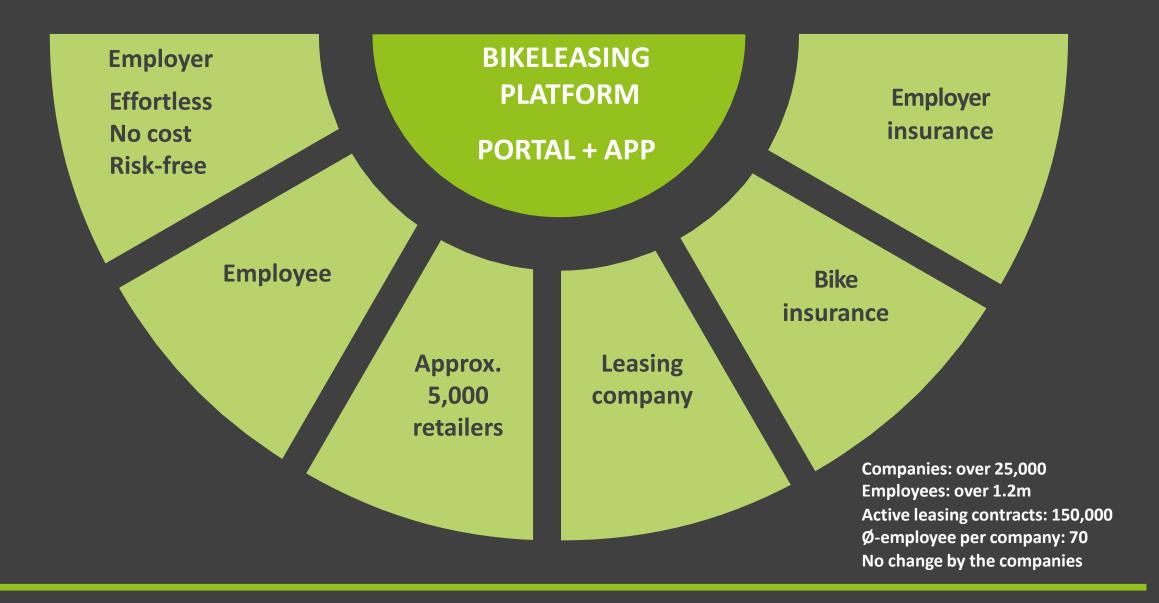
0.25% of the gross list price of the bicycle (1% of the quarter of the manufacturer's recommended retail price rounded down to a full 100 euros) is added to the employee's taxable salary (so-called non-cash benefit). By taxing the non-cash benefit, the private use of the bicycle is expressly permitted.

- ✓ If the costs are fully covered by the employer, there is no salary conversion for the employee and thus no taxation of the non-cash benefit (applies to bicycles and pedelecs up to 25 km/h).
- ✓ For s-pedelecs (up to 45 km/h), the 0.25 % rule always applies, regardless of who bears the costs of the leasing.

Why is Bikeleasing so successful?



Why is Bikeleasing so successful?



Digital B2B Platform

For the highly automated arrangement and management of leasing contracts

The complete process, from onboarding of the employer, employees ordering the bicycle from the retailer, through to the processing of damage claims is highly automated and carried out via the inhouse digital platform and mobile app.

Overview, administration & evaluation of all leasing contracts under

www.portal.bikeleasing.de



Administration, damage claims, takeover offers, service appointments

www.bikeleasing.de/app



Advantages of the Bikeleasing concept

Advantages for employers

- Employee motivation & retention
- Improvement of employee health
- Reduction of non-wage labor costs by way of salary conversion
- Positive publicity through sustainable environmental protection
- Improvement of CO2 footprint & parking space situation
- Free of charge and low effort

Advantages for employees

- High-quality company bike
- Tax advantage by way of salary conversion
- Significant savings compared to cash purchase
- ✓ 100% private use possible
- Insurance included
- Fast and uncomplicated processing at your retailer
- Leasing can be subsidized by employer

Calculation example

Unmarried employee, gross salary 3,000.00€, income tax class 1, no children, pension insurance obligation, statutory health insurance: 14,6%, 1% additional contribution, church tax: yes, employer is entitled to make input tax deductions, term: 36 months, *insurance rate class "Premium" is paid by employer, insurance rate class "inspection plus" is paid by the employer*

Bike type: bike or E-Bike

Gross purchase (MSRP): 2,399.00 €
Gross purchase price: 2,908.80 €

incl. insurance package "premium" and "inspection plus"

The actual monthly net charge for the employee is

only: 38.68 €

Total instalments: 1,392.48 €

during the 36 months

Total costs: 1,824.30 €

incl. takeover price in case of takeover



Non-binding example calculation.

In this example, the employee saves 37% by way of salary conversion compared to a cash purchase at a retailer.

The taxation of the non-cash benefit in the amount of 0.25% of the gross list price of the bike is already taken into account in the calculation example.

Enter company code in the app now and calculate your advantage!

Calculate your advantages online now!

www.bikeleasing.de/leasingrechner



The values displayed are a non-binding calculation example. The individual savings depend on the salary and the tax class. For an individual check, please contact your tax advisor!

Vision

- Strengthening of current market position
 less than 30% of all employees in Germany have the option to lease a company bike
- Increasing the employee penetration rate at companies that are already connected
- Entering new countries
- ✓ Integration of new business areas at our 25,000 connected companies → Transition towards a fully comprehensive social benefits platform

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Leasing calculator www.bikeleasing.de/leasingrechner



BIKELEASING



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