ecos *systems*

digitalise your enterprise
with ecos

smart solutions

Smart Solutions
for your organisation

Centered around the efficient management of value.

ecos systems GmbH was founded 20 years ago with the aim of supporting organisations with electronic systems.

Since then, we have been constantly working on automating and simplifying business processes with our systems. Therefore, our focus lies primarily on efficiently merging the physical with the digital world.

Within the real world, physical items and objects occupy centre stage.
We utilise them every day, we avail ourselves of them in all areas of our lives.
But unfortunately, most of these objects are not connectable.

In order to integrate objects into our lives, we need to monitor them, count them, dispense them in a controlled way, and retrieve them.

This is our world, the ecos world: we use cutting-edge technologies to bridge the gap between the physical and digital world.

ecos - electronically controlled organisation systems

Evolution Tower Moskau
equipped with ecos security systems

Table of contents

SMEs in regulation mania
Cutting bureaucracy the smart way

Efficient technologies from a single source
- your mobile phone

As an entrepreneur, you have a variety of tasks. You develop strategies
and products, acquire customers and ensure quality.
Your core business generates your revenue.

The management of your buildings, your staff and your vehicles
are necessary tasks to support your core business as best as possible.
However, they consume valuable time.

These three areas, buildings, staff and vehicles, are among your largest cost pools.
This is where efficient solutions are particularly valuable to you.

With our app, specially developed for the needs of small and medium-sized
businesses you benefit from the latest technologies.

You automate and digitalise processes such as sick leave, holiday applications, travel
expense claims, driver logbooks, key and equipment management.

The reduction of your bureaucracy reduces fixed costs and supports you
with future-proof processes from a single source.

your buildings   your staff   your vehicles

Your advantages:

- Simple and efficient
- compactly combined in one app
- supports your core processes

- secured by ISO 27001
- protects your personal data
- reduces your fixed costs

# Your organisation. Your challenges. Your opportunities.

Security and data protection

With the introduction of the GDPR, SMEs are facing completely new demands on their security systems. Now not only physical security, but also information security is becoming increasingly important.

Work time and home office

The ECJ judgement on compulsory recording of work time poses new challenges for many companies, especially when it comes to the efficient integration of home office workplaces.
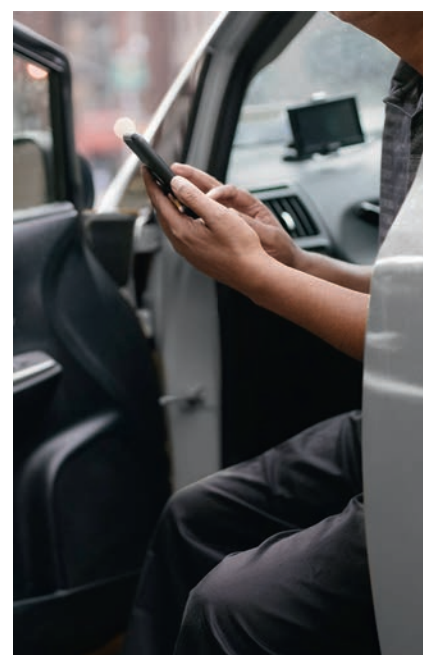
Driving licence check and Driver's logbook

Regulations on driving licence checks, regulations on company car taxation, ensure a steady increase in your administrative workload.

The Federal Association of Small and Medium-Sized Enterprises Germany:

„Efficient administration and modern laws are among the conditions under which business enjoys the best competitiveness. They enable the focus on business and the least possible time spent on bureaucratic tasks. Bureaucratic obligations, for example in recording wages, applications and contributions, block other work processes and burden the financial as well as personnel framework."
(https://www.bvmw.de/themen/buerokratieabbau/)

Smart solutions
The ecos App

Uniquely versatile.
The all-in-one solution from ecos.

Our ecos app was specially designed for the needs of small and medium-sized organisations and companies. Experience our all-in-one solution for visitor management, access control, room management and working time tracking as well as our driver's logbook in compact digital form on your smartphone.

Visitor management
Our visitor management enables you to automatically welcome guests, suppliers and service providers. Receive deliveries and dispense your visitor badges contactless via our reception column.

Access control
With our access control, you remain flexible in your working style.
Greet your visitors digitally via video communication
and open your doors and gates via app.

Room management
The ecos room management module allows you to digitally control who has access to which rooms at what time. In times of home office, our booking function facilitates the efficient use of your rooms.
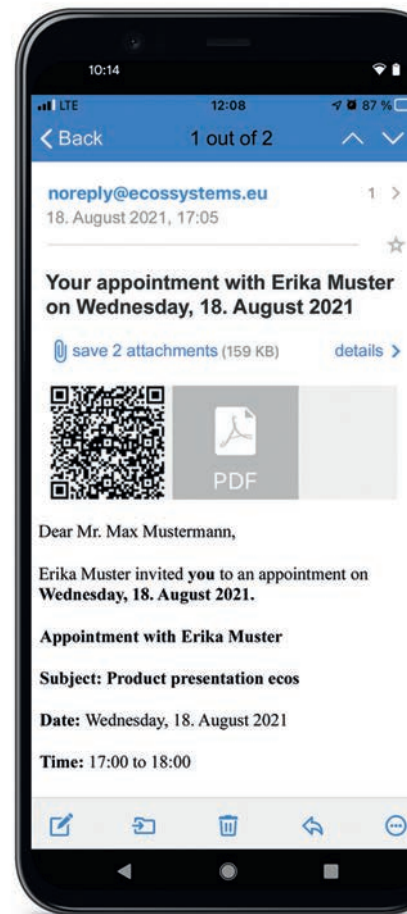
Time tracking
The work time tracking app ecos time allows your employees to submit leave and absence requests electronically, even in home office. Documents such as sickness notifications can be directly uploaded and thus relieve your organisation.
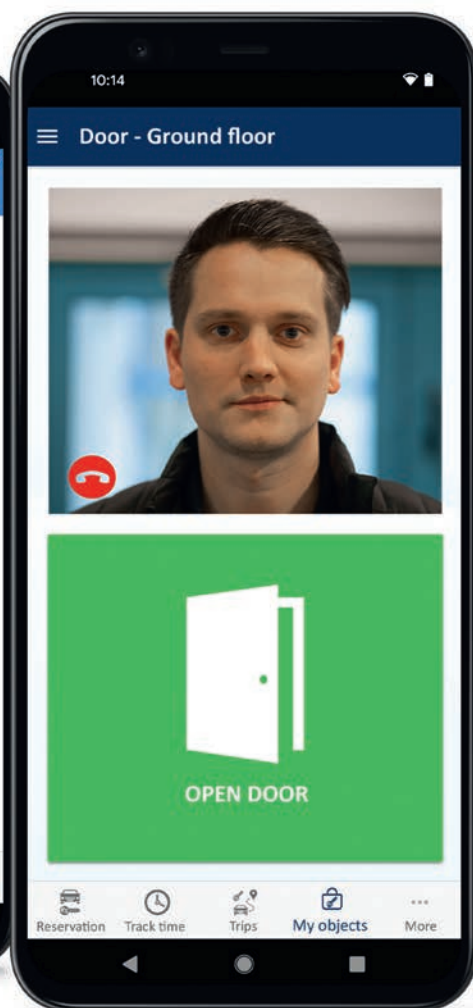
Vehicle management
The ecos fleet app for managing your vehicles makes corporate car sharing a child's play. Flexible booking systems, a smart driver's logbook and the digitisation of receipts enable seamless documentation and tax office-compliant evaluations. This is yet another way of optimising your company.
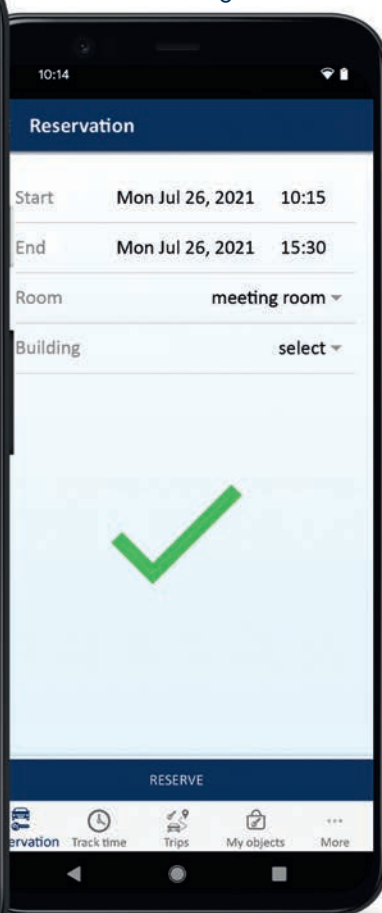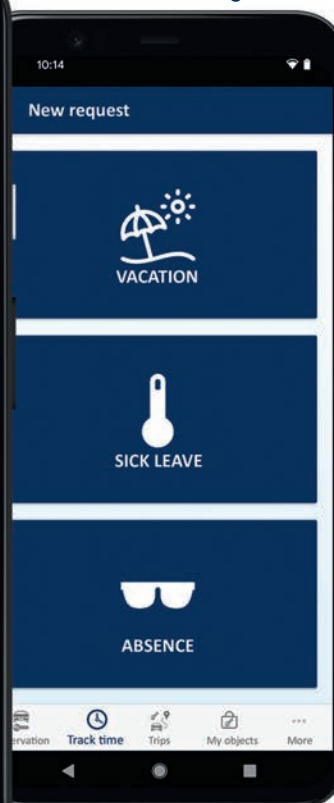
Visitor management

Access control

Room management

Time tracking

Vehicle management

Highest security for your data.
Through ISO 27001 certification.

The ecos app processes important personal data, movement profiles and security information in various areas of your company. It also has to comply with a wide range of regulatory frameworks such as data protection and the tax office. To ensure all this, not only the information technology systems used need to be strengthened, but also the processes of your service provider.

We, as ecos systems, face these challenges. For this reason, external auditors regularly inspect our organisation in order to also train the necessary awareness and vigilance of our employees.
We are going the extra mile for you to protect your important data.

Smart solutions
Our offer

Visitor management around the clock for visitors, service providers and suppliers - completely automatic, yet personal. The latest video communication enables direct contact with your visitor wherever you are. The usual reception routines, such as recording names and photographs or signing non-disclosure agreements and security instructions, are carried out electronically and no longer require paper documents. This significantly facilitates compliance with the GDPR. The visitor's data will be deleted automatically after a freely definable period of time.

Manage your vehicles simply and elegantly via our key management system and the app. All documents such as fuel receipts, repair invoices or car wash receipts are photographed by the driver and automatically booked to the vehicle used at that moment. The smart driver's logbook runs with every journey, even a change of vehicle gets recognised and booked to the real driver.

access

visitor management

ecos

vehicle management

Software as

Communication as a Service

ecos

The ecos terminal welcomes both your employees and your visitors with the most innovative information technology. It immediately puts your company into the right spotlight. Developed for outdoor use, it is versatile and can be used for our time recording, driver's licence control and as a virtual reception for visitors. Highly secure authentication methods and the corresponding authorisation concepts comply with the most modern access control systems.

control

room management

smart solutions
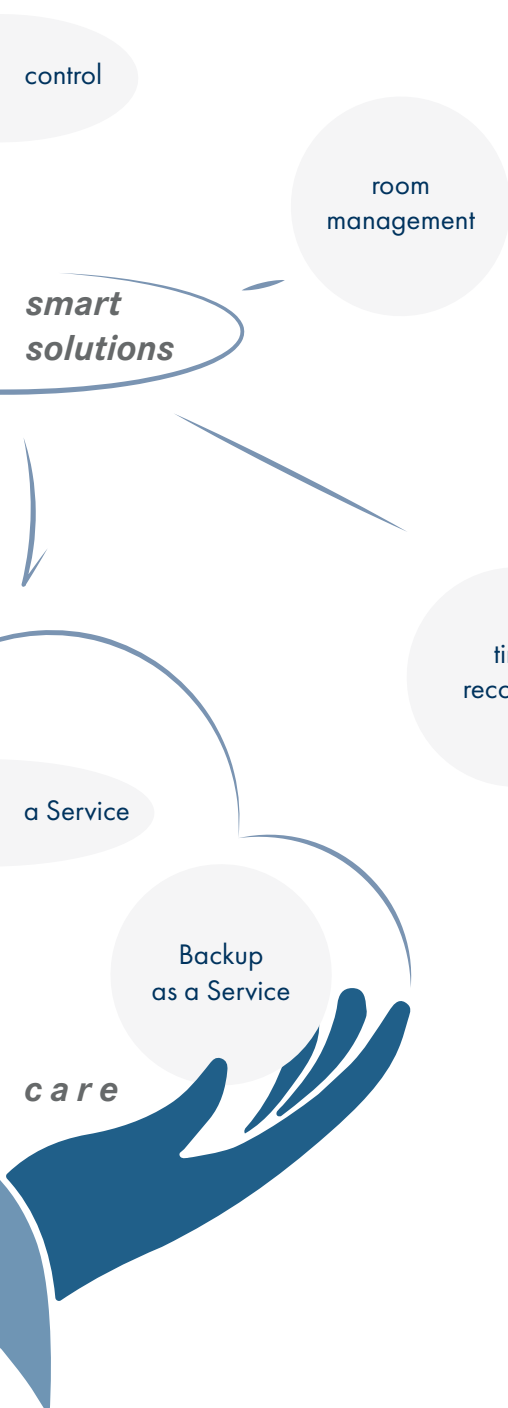
This multi-talent manages your employees, buildings and vehicles. Whether entrance key, room key, garage door, safe deposit box or vehicle key, all types of keys are securely locked and stored in our modern key management system.

time recording

With ecos time recording, your employees can document their working hours on all ecos systems and even record home office times via app. They apply for holidays and absences and inform about sick leave. All relevant documents are saved and made available to your organisation. Automated monthly reports are simply imported into payroll accounting.

a Service

Backup as a Service

care

Data transmission at ecos.
Security can be so simple.

The ecos smart solutions offer unlimited access to all ecos care services. Simplify your IT infrastructure and benefit directly from our all-round carefree service.

Access control
Smart access
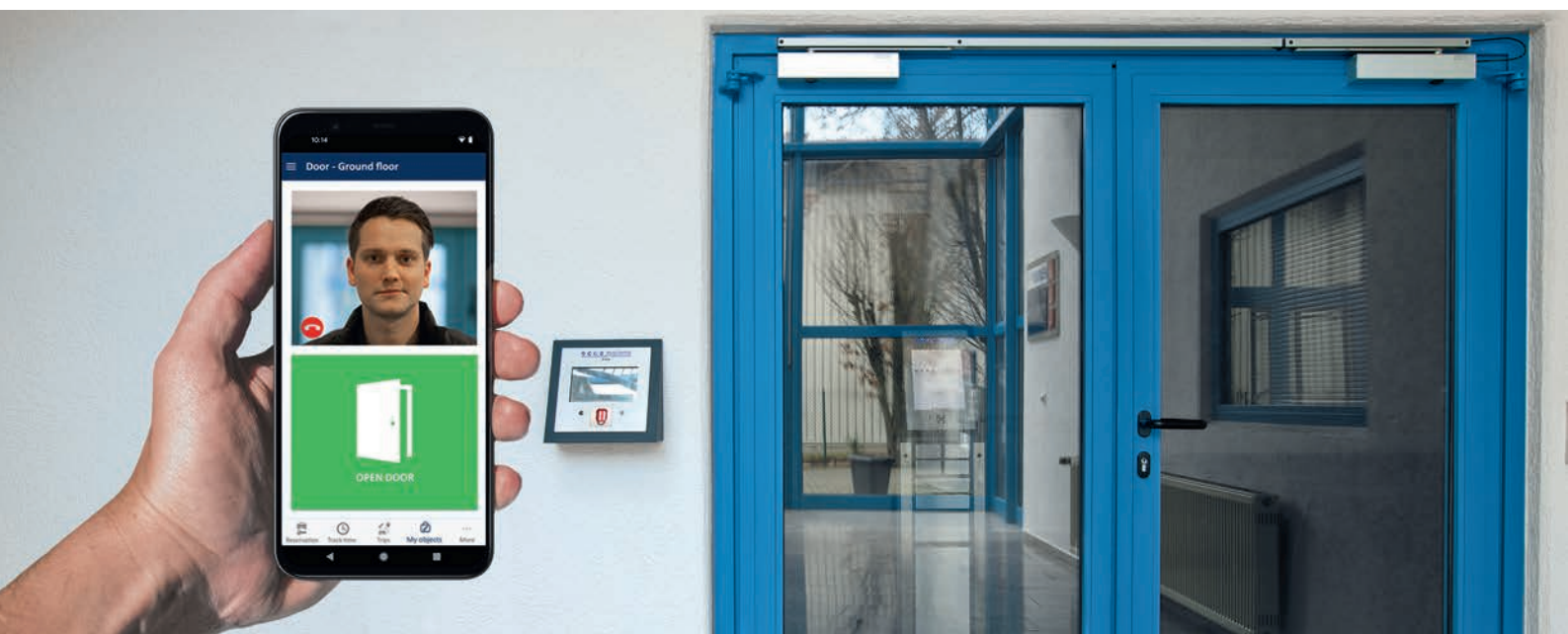
Always one step ahead.
Door opening via app with ecos smart access.

Our solution for small and medium-sized enterprises provides state-of-the-art techno-logies for the management of entrance doors. In doing so, we meet the requirements of DIN EN 60839-11-1 "Electronic access control systems - System and components requirements" for a medium level of protection.

One area of application is the smart access function, which allows you to easily control your entrance door remotely via app. Crucial for this is the ecos key cabinet mounted on the inside, which controls and monitors your door autonomously. Thanks to the wireless, highly secure data transmission between all ecos systems, the system receives your input in the app and opens the door for you.

The magnetic lock supplied is easy to install and has a holding force of 2800 N. The integrated feedback contact reports the current status of the door at all times. An alarm is automatically sent if the door is opened for too long. This alarm can be sent as a push message to your mobile phone or issued as an e-mail, but can also alert security forces via an alarm contact.

The emergency battery of the key cabinet ensures full functionality of the entrance door for many hours even in the event of a power failure. In this case, our ecos care service guarantees continued communication via the integrated SIM card.

The key cabinet controls your door autonomously.

Your security: Maglock with 2800 N holding force

Your advantages:

- mobile access control for your doors from anywhere

- certified security

- supplied Maglock with 2800 N holding force

- integrated emergency battery with up to two days runtime

- easy installation without technician intervention

Access control
Smart door intercoms

Maximum security, also for outdoor use.
State-of-the-art communication.

In addition to the internally mounted key cabinet, ecos also offers a terminal with a 10" touch display optimised for outdoor use.

In addition to the common RFID protocols, fingerprint and finger vein readers that have been tried and tested in the military sector are available as authentication methods for your employees. Our high-security reader, which has been recognised as suitable by the BSI (Federal Cyber Security Authority), allows this application even in highly critical areas.

The terminal is mounted outside your entrance door and maintains a constant data exchange with the ecos app and key cabinet.
With a three millimetre thick compact steel housing and gap dimensions of less than one millimetre, it also meets the mechanical criteria of the BSI.

Scanner audited by

Federal Cyber
Security Authority

Registered visitors authenticate themselves to the system via fingerprint...

...Or you simply open the door for them via app.

Always properly connected.
Thanks to integrated video communication.

The video communication integrated into the terminals allows your visitors to reach
you directly through the system if desired. Thanks to its connection with the ecos app,
our system adapts flexibly to your individual way of working:
Whether in the office or on the road, you can always communicate with your visitors
at any time via smartphone.

Visitor management
Elegant and modern

To make the right first impression.
Put yourself in the spotlight.

Whether invited guests or spontaneous visits - you are always prepared. Your logo appears on the reception screen and you can communicate current information directly at first glance, for example:

„Current information -
The incidence numbers have increased. You will need an FFP2
mask from today. Please retrieve one from compartment 7."

Your personal reception:

With individual company logo and integrated video communication.

Set an example of your innovative strength.
Showcase your technological expertise.

Our reception columns are equipped with state-of-the-art video communication. Via these communication platforms, any desired contact becomes available: Be it the waiting interlocutor, a department in which a service provider is needed, or even the head office to further assist your guest.

In addition to mere video communication, the integrated camera can also take photos or read QR codes. The different sizes of 7", 10" and 15" touch screens allow interactions of any kind.

All important information about your guest can be transferred automatically. Examples of this include a photo, the provision of a signature under the confidentiality agreement or the general terms and conditions in case of handing over valuable items such as vehicle keys. The issuing of a visitor's badge and the safekeeping of personal items are efficiently possible via our compartments.

The process of your visitor reception:

Invitation

Whether via web, ecos app or Outlook, just create an appointment and invite others to it. The recipients automatically receive all necessary information in advance, e.g. travel map, QR code and documents requiring signatures.

Welcome & Registration

Upon arrival, your guests present their QR code or enter their e-mail addresses. This connects them directly to their contact person on their mobile phone. After the greeting, they will inform your guests about the next steps.

Instructions & Information

Your guests then enter their personal data and, if necessary, sign important documents such as general terms and conditions or NDAs. They can also temporarily store personal items in our lockers. You make use of this time to come pick them up.

Visitor's badge

After successful registration, RFID visitor badges are provided to the visitors via an electronic drawer. These badges are allocated to them for the duration of their stay.

Check-Out

When leaving, the RFID - visitor badges open the used compartments with their personal belongings and a drawer for the return of the visitor badges. Your guests are getting logged out and ready to depart.

Visitor management.
# A welcome for every guest.

Visitors, suppliers, service providers.
The perfect reception for every guest.

The diversity of your guests is a sign of you living in the midst of life: Your company is networked and integrated. Some guests visit you infrequently, often only once. Others will come and go on a regular basis. Some don't even enter your property, but merely deliver or collect some items. With cutting-edge technologies, you can master this complexity with security.

Our reception columns can get deeply integrated into your business.
Outlook invitations are automatically registered and your visitor is known and expected. Visitor badges are anonymised, only the database knows the identity of your visitor. Any smartphone with our app installed can scan the badge number to match the corresponding data, such as time, reason and contact person of the visit, but also the visitor's photo.
Various settings allow the system to automatically delete all data
or only the data relevant to the GDPR after a certain period of time.
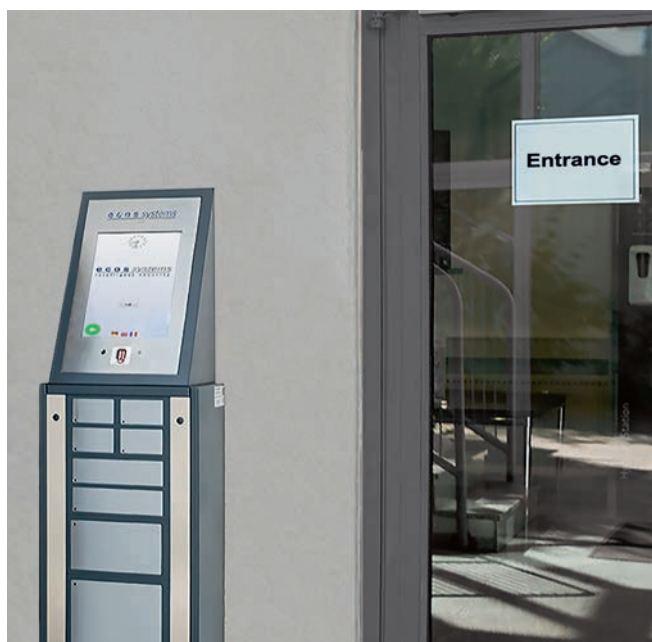
Receive your guests outdoors...
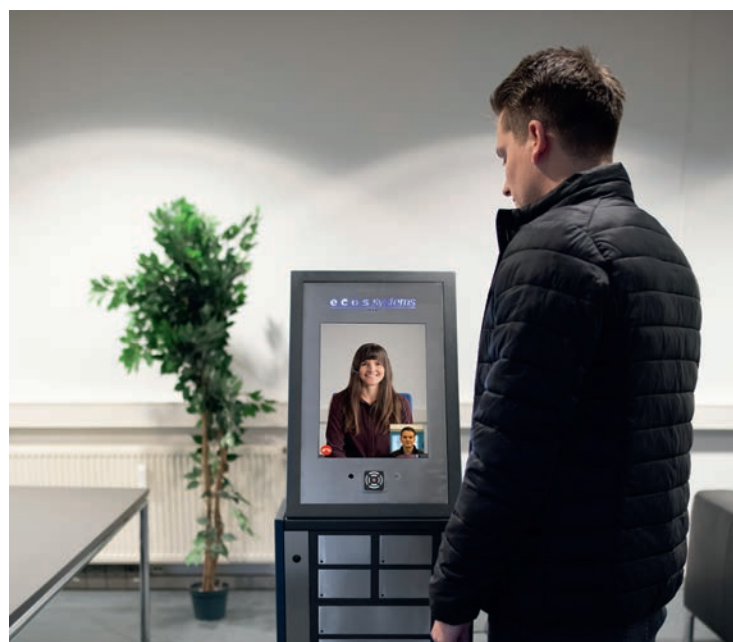
...or welcome them in the lobby.

Whether outside or inside:
Always exactly where you need it.

The reception column with terminals and drawers is versatile and can be used both indoors and outdoors. This way, you can accommodate suppliers and service providers right outside your front door.

Supplier orders can be placed via e-mails, which are then sent with QR codes. These codes then function as an authentication medium to open a compartment of the reception column for depositing the delivery. The recipient is automatically notified via the app or an email to collect their temporarily stored delivery. The supplier does not have to wait for your arrival; your personal contacts are minimised in line with the pandemic regulations. Nevertheless, you do not lose any time, as the message about the delivery being made is sent immediately.

Service providers receive a QR code with duration and order number upon placing the order. Using this QR code, they may remove their visitor badge from the compartments. This will also document the beginning of work hours and can be assigned to the respective order. When leaving the site, the badge once again opens the compartment and gets deposited. This records the end of work hours. No badge leaves your premises. This process also enables you to determine the exact number of people present at any time. This is indispensable in the case of emergency situations.

Room management
Simply every door

Security for your keys.
The all-rounder system.

To manage your rooms, the ecos key cabinet installed inside your building is being used to its full extent. Within it, all keys important for your building can be secured and centrally managed.

Our special feature: both office keys and keys to important central rooms, such as the server room or the archive, can be individually access-controlled.
However, other important keys for equipment or server racks can also be managed.

By registering them in the system once, you can freely decide which employees are granted access rights to which keys. The modern user administration with multi-factor authentication and secure RFID or fingerprint readers guarantees maximum reliability.

Your advantages:

- Monitored access to all your doors

- Meets ISO 27001 - requirements

- Simple connection of an additional terminal for your software applications

- Intercom also suitable for emergencies

Pioneering organisation.
Through app-controlled remote release.

All key cabinets are equipped with autonomous communication and emergency power supply. This renders them particularly well-suited as a fallback level in case of emergencies. Their functionality is always preserved.

All alarms are forwarded to security and emergency control centres. Moreover, direct communication is always available even in the event of an emergency.

Real-time images.
Helpers in times of distress.

Via the camera integrated in the system, you can immediately get a picture of the situation on site and initiate the corresponding measures.

Using the remote release via our app, important keys can also be distributed to helpers and emergency services in a timely and controlled manner. Thanks to photos, it is also possible to track the person receiving the key at a later date.

Room management
Digital signage

Room for the future.
Featuring electronic door signs.

Using our reservation module, room keys and thus rooms can be booked elegantly and easily for specific occasions as for example meetings or important events. This feature is also forward-looking in times of home offices, making the fixed assignment of a workspace seem increasingly outdated. Via our app, you can flexibly and easily book a workspace in your company while on the road.

In combination with our electronic door signs, your employees and guests are always kept up to date about the booked room and the planned duration of occupancy. Our signs do not require any cables and can therefore be used flexibly.
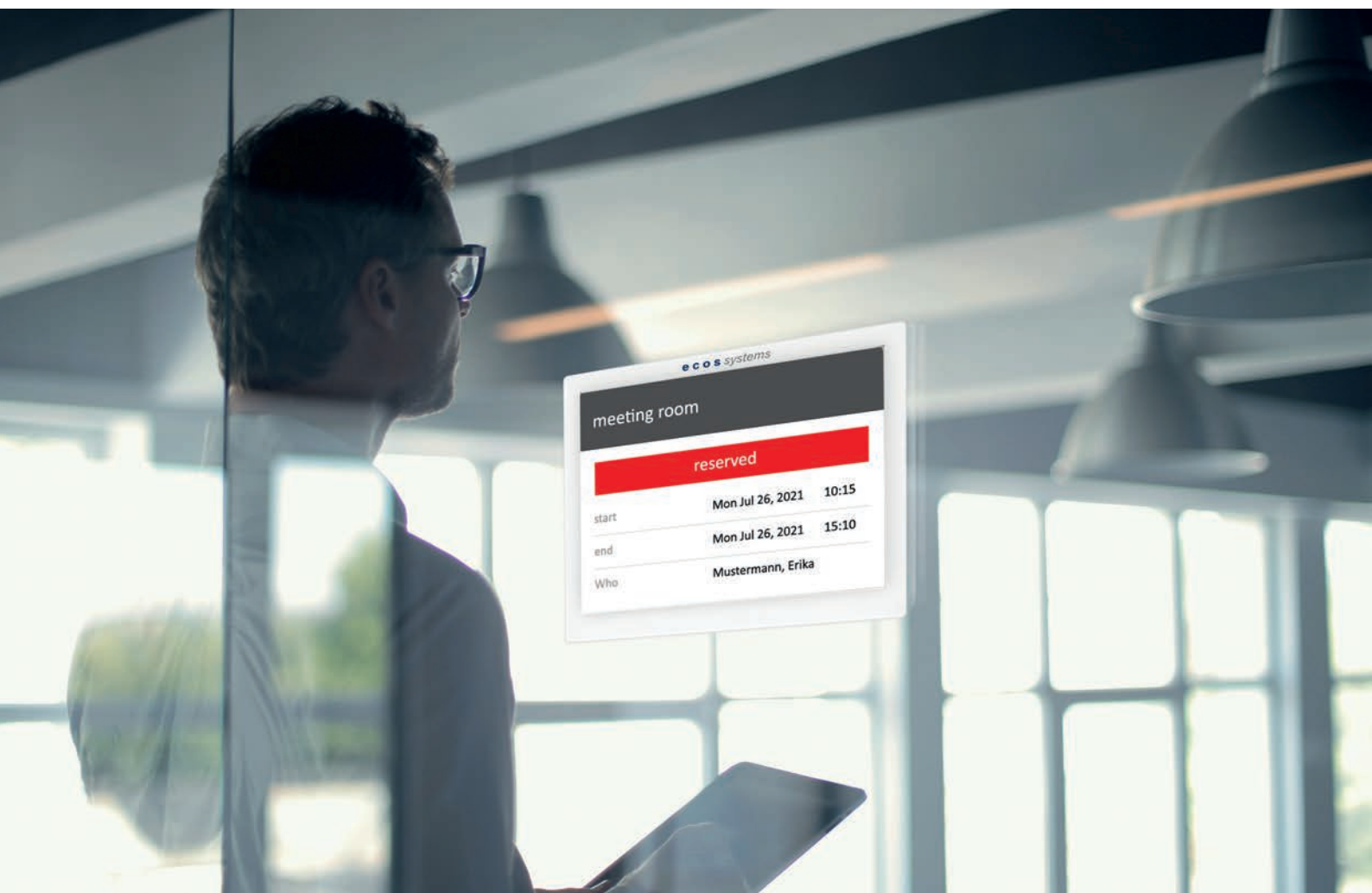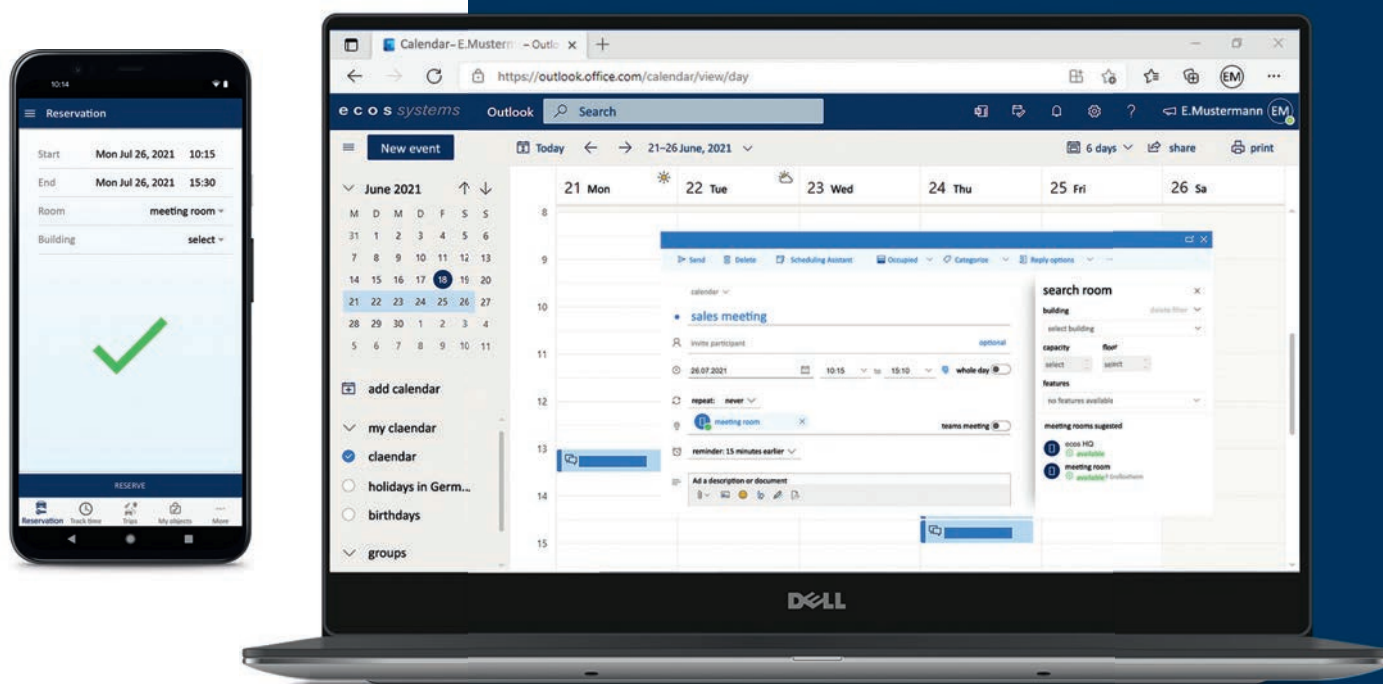
Seek and find free space.
At any time. From any place.

We have been using our web-based booking programme ecos reserve for many years. This has enabled us to develop it further and further, so that it contains many setting options and security queries to meet even very complex requirements.

Nevertheless, we also keep an eye on the security guidelines and the employees of our customers. On the one hand, in many companies the use of third-party software is only possible to a limited extent or requires a long approval process; on the other hand, the use of an already familiar programme such as Microsoft Outlook promotes acceptance among employees and shortens their training period.

Employees who are frequently deployed in the field or work from home, on the other hand, need mobile access to book a temporary company workplace. For this purpose we provide our app, which easily allows a room to be reserved from any location.

Track time
Mobile work

For you and your employees.
The mobile tracking of working time.

Since your employees are already recorded in the master data, it only seems natural to use the key cabinet as a working time terminal as well. This elegant method of only having to register your employees once prevents errors and saves valuable time.

Thanks to cloud-based synchronisation of the key cabinet with the ecos app, you also get working time recording as a feature on your smartphone. This means your employees can log in and out at any time, even while being in home office.
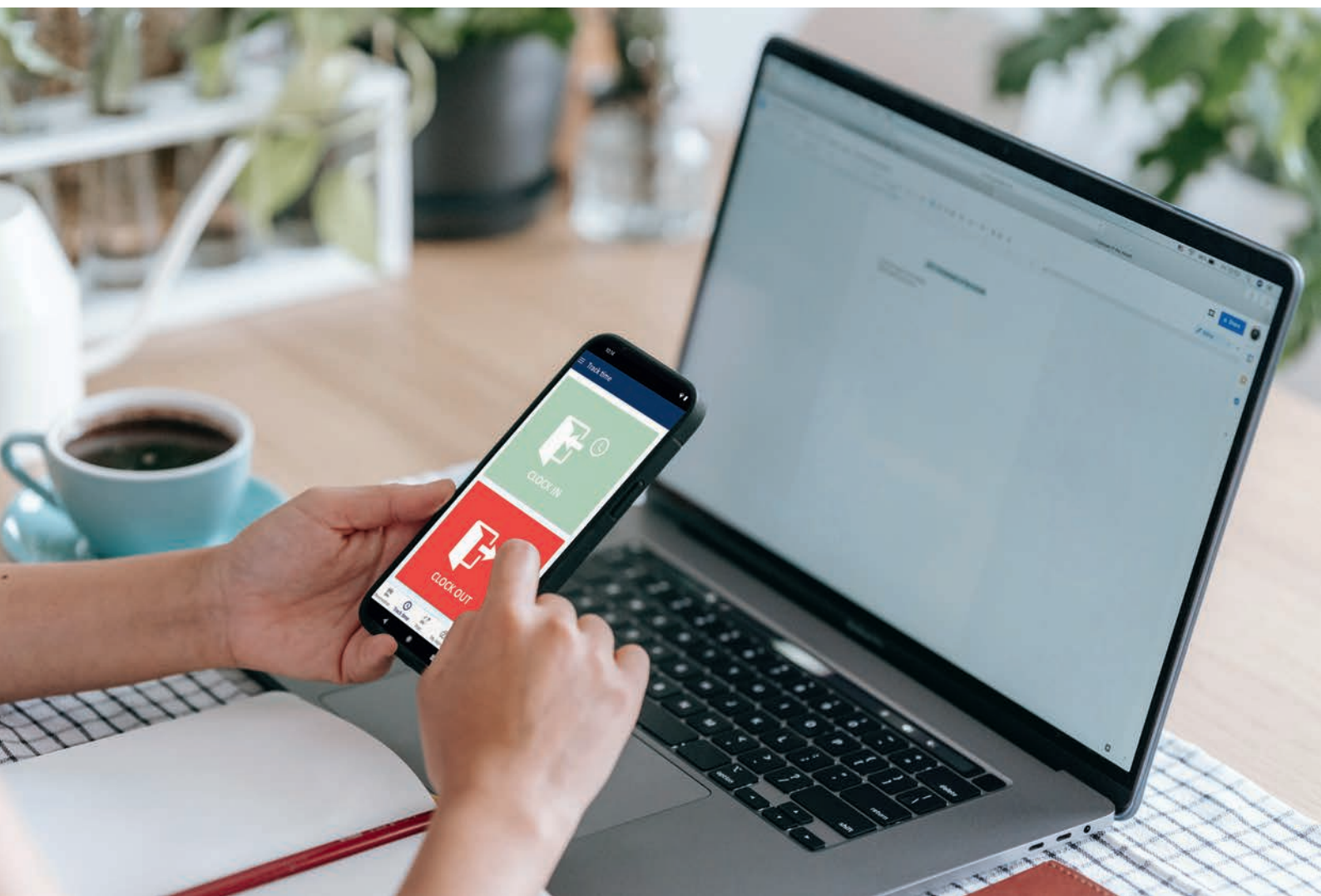
Digital & faster than ever. Request via app.

Holiday, sickness and absence requests are controlled and managed centrally via the ecos app.

Your employees simply enter their data in the app, attach an image file with proof of their absence and send the request to the system in a completely digital manner.

As an executive, you will then immediately receive a notification allowing you to directly approve the respective requests.

All changes are automatically adopted by the system and displayed in the app. Thanks to the comprehensive overview, this way both you and your employees can always keep track of times and days of leave.
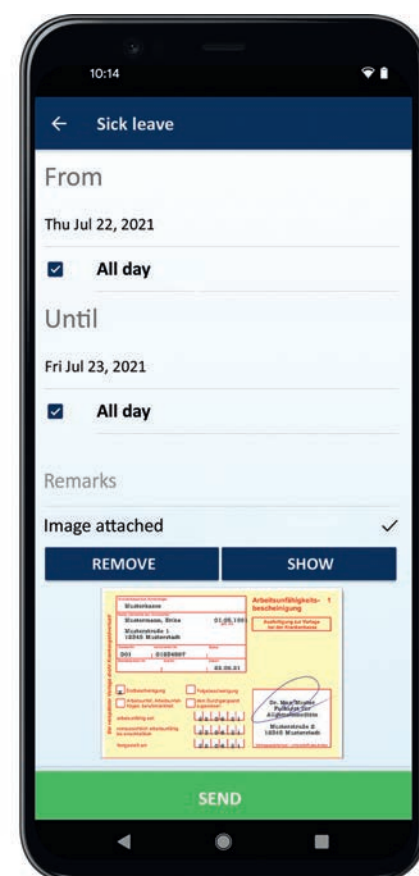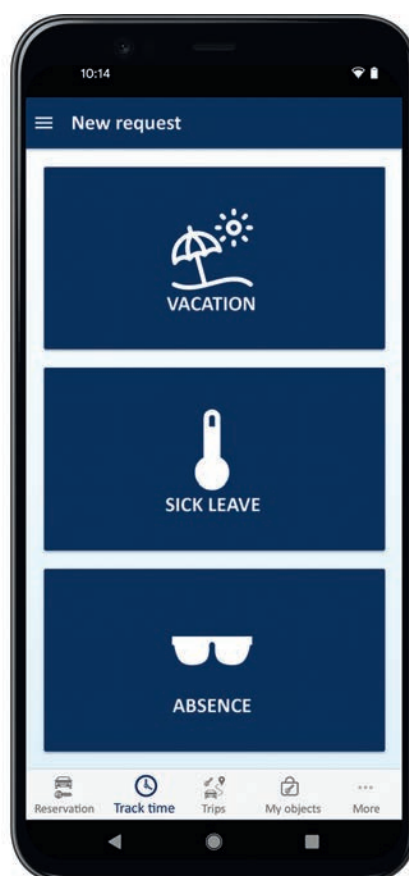
Your advantages:

• flexible tracking of working time via app - also in home office

• accurate documentation of all working and break times

• intuitive usability with simple interface

• completely digital processing of all requests from the start

Time tracking
Multiple systems

Your performance is getting seen.
Keeping the overview.

The recording of working time on-site at the system as well as mobile based via app ensures precise evaluations and smooth processes within your company. All data, both locally input at the terminal and noted via app, is compiled and evaluated together.

Each employee can view and evaluate their own times in the app.
The monthly and weekly overview ensures a transparent presentation of all overtime worked.

For you as the HR representative, an overview of all employee activities is also provided in our web system. This allows for you to manage individual working and break times for each employee.
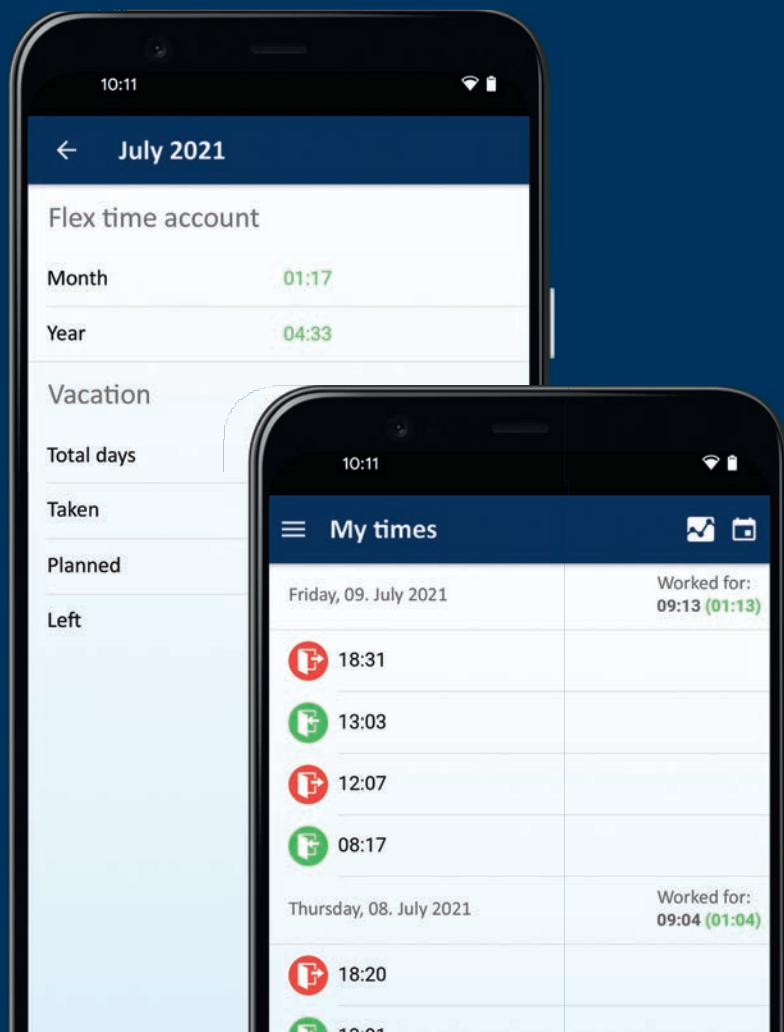
Your advantages:

- Multiple input terminals without additional costs

- Easy communication with your employees

- Ideal for home office or field service

- Simple integration through ecos webservices

- Increased security through automated transfer of information
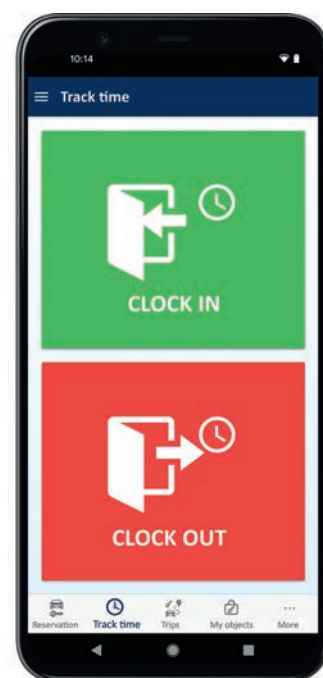
Perfect integration.
Efficient interaction.

You always know the location at which your employees are working.
Especially in case of emergencies in the company, you can see at a glance which ones of your employees are still present on site.

Through the automated transfer of holiday days, absence and sickness notifications, you immediately know which employee requires access to your company. This enables you to automatically withdraw access authorisations from employees who do not actually need to clock in for work.

Only employees who have authenticated themselves at a terminal on site have access to your company or to your keys.
This prevents misuse and secures your company as well as your assets.

Fleet management
Corporate Carsharing

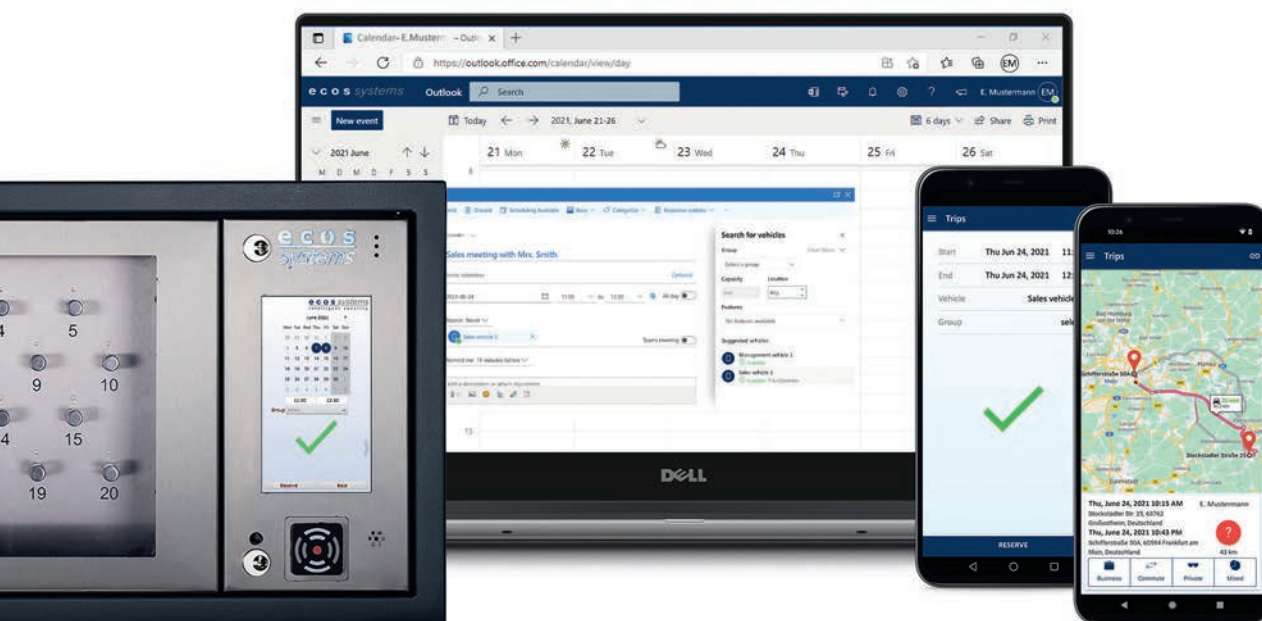## Less administration.
More savings.

Our fleet management ecos fleet enables you to save money from the very first vehicle. With the smart driver's logbook and automated pool vehicle management, you can achieve savings of up to 30% on acquisition and running costs in your fleet.
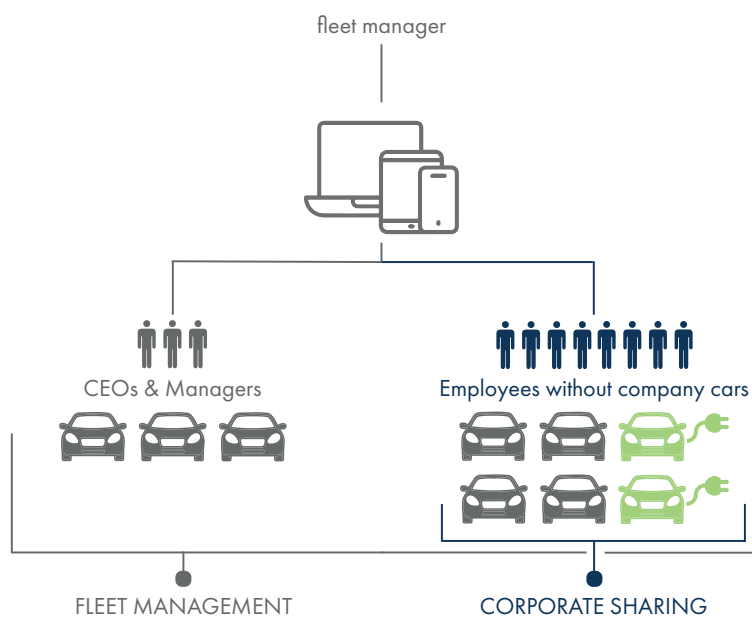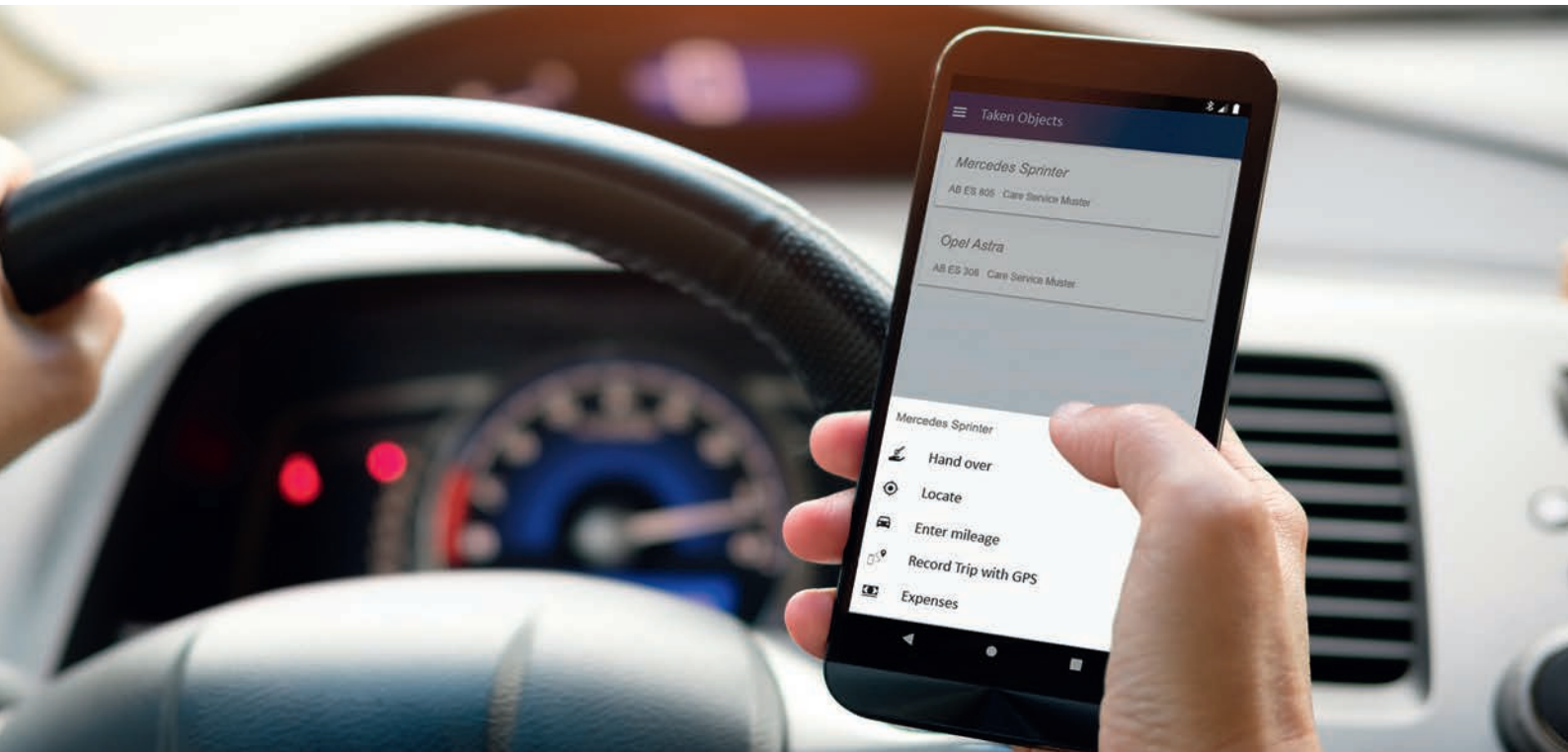
Using the ecos app, your employees can also photograph smaller receipts, such as fuel receipts or car washes, as soon as they pay. These are then assigned directly to the vehicle used and no longer cause any administrative effort.

Your pool vehicles can be booked directly at the system, mobile via the app, but also using the familiar Outlook. Our intelligent vehicle allocation automatically finds a free vehicle for you to use.

Upon returning the vehicle, you can transmit information about the vehicle used to the system. If the safety of the vehicle is endangered, this vehicle will be immediately blocked, the following reservations will be rebooked and your technician or a repair workshop will be informed electronically.

This also relieves your administration through saving valuable time.

fleet manager

CEOs & Managers

Employees without company cars

FLEET MANAGEMENT

CORPORATE SHARING

Your advantages:

- Optimised vehicle use

- Efficient integration of electric vehicles

- Automated maintenance

- Simplified administration

Fleet management
Smart technologies

Because safety comes first.
The integrated driver's license check.

Driver's license checking is a crucial part within your vehicle management.
Particularly in combination with ecos fleet's flexible reservation and booking module,
it automatically ensures the exclusive use of all vehicles by people holding a valid
driver's license.

All driving licenses are being tagged with unique RFID stickers designed for one-time
use only. Upon removal of the sticker's chip it will be irreparably destroyed, thus reliably
ruling out repeated use. The RFID sticker can be recognized and evaluated by all
readers of ecos key cabinets, locker systems, and communication terminals. This ensures
continuous verification of the driver's license prior to the issuance of a vehicle key.

Once the system is put into operation, the driver's license classes as well as the ex-
piration date are being entered into the software. The employees not authorized for
driving a specific group of vehicles can be automatically denied access to the system.
For company-specific vehicles, such as transports of hazardous goods requiring regular
inspections, separate classes may be created.
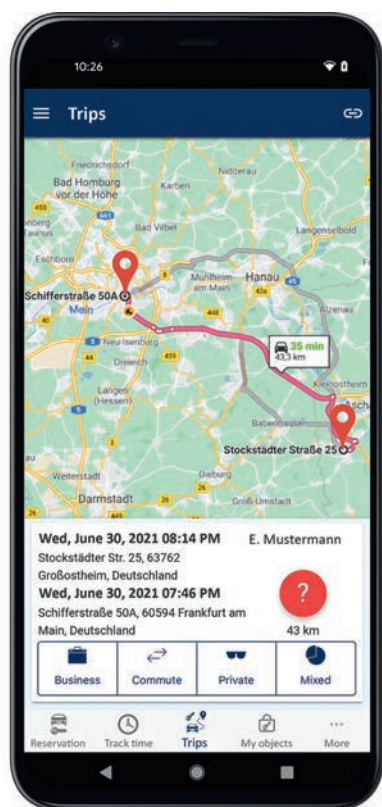
Simple and smart.
Immediately available. Your logbook.

Experience the intra-organizational use of GPS trackers taken to a new level. Instead of a physical add-on module requiring manual installation in your vehicles, your ecos smart driver's logbook will be provided to you as an app on your smartphone.. This allows you to clearly classify and document every trip completely independent of the type of vehicle, even for rental cars organized at short notice.

In order to prevent unrequested tracking aside of relevant journeys, the ecos app tracker is started only with the explicit permission of the user. This is achieved by classic „on" and „off" buttons in the app.
Your logbook always ensures the correct assignment of your vehicle:
Before initiating data recording, the Bluetooth code of the vehicle is being scanned and compared to the code registered for the respective vehicle key.

You can also configure an automated option that enables the app to independently search for and analyze the vehicle's Bluetooth code upon approaching the vehicle. When the code matches the expected sequence, data acquisition is initiated in the background. An acoustic signal is emitted so that you can turn off automated data recording if required whenever you want.

Your advantages:

- Reliable safety routines
  with verification directly on the system

- Unique identification system
  using RFID seals

- ISO 27001 certified
  Information Security

- Real-time data transmission
  without additional device

- Intelligent vehicle recognition
  via Bluetooth

- Manipulation-proof and
  tax office compliant evaluations

Success stories
Testimonials

Smart solutions
for our customers

Numerous customers already rely on ecos solutions.
From care services to public institutions and high-security service providers all the way to sports clubs, they represent a wide variety of interests and requirements. With the flexibility and modularity of our systems, we therefore enable individually tailored solutions for every area of application.

digitalise your enterprise - with ecos smart solutions

Früchte Jork / AL Logistik

Care service Klasen

Public utilities Norderstedt

„The use of the systems is very
well accepted by the staff.
Thanks to the ease of use, even by older
and/or non-tech-savvy staff."

Dietmar Kalbrecht
Managing Director
AL Logistik GmbH

„One of the biggest advantages for us is
the transparency and compatibility.
By using the systems, the issue of keys in the
daily process has been totally reduced
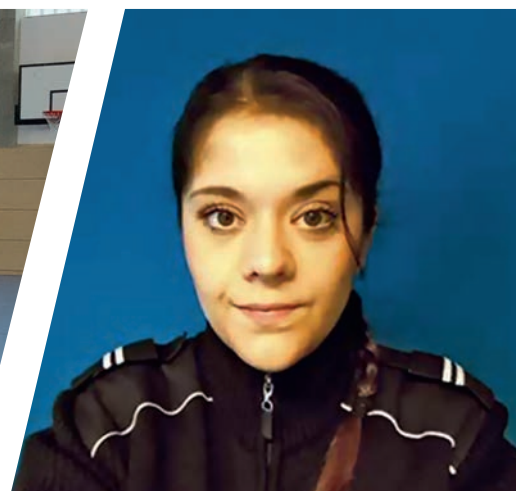in the daily process."

Ralf Ohlbrecht
Head of Data Centre Operations
Public utilities Norderstedt

Vienna University of Technology   TV Erlenbach   Securitas Offenbach

„In terms of price, it was no difference to normal locking systems.
The advantage of this specific system is that all keys stay inside the
gym [...] and so we don't have to duplicate any keys."

Jürgen Wehkamp
Vice-Chairman Youth
TV Erlenbach

City of Blaubeuren   Fire department Balzheim   Lotto Berlin

visit our website in order to watch the videos of our success stories: https://www.ecos-systems.com/en/our-customers/

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ISO 27001
Information Security

ISO 9001
Quality management