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# THE CHIP CARD SYSTEM FOR UNIVERSITIES

Pay for everything with your chip card – photocopies, printouts, canteen,  
library – and open doors and lockers

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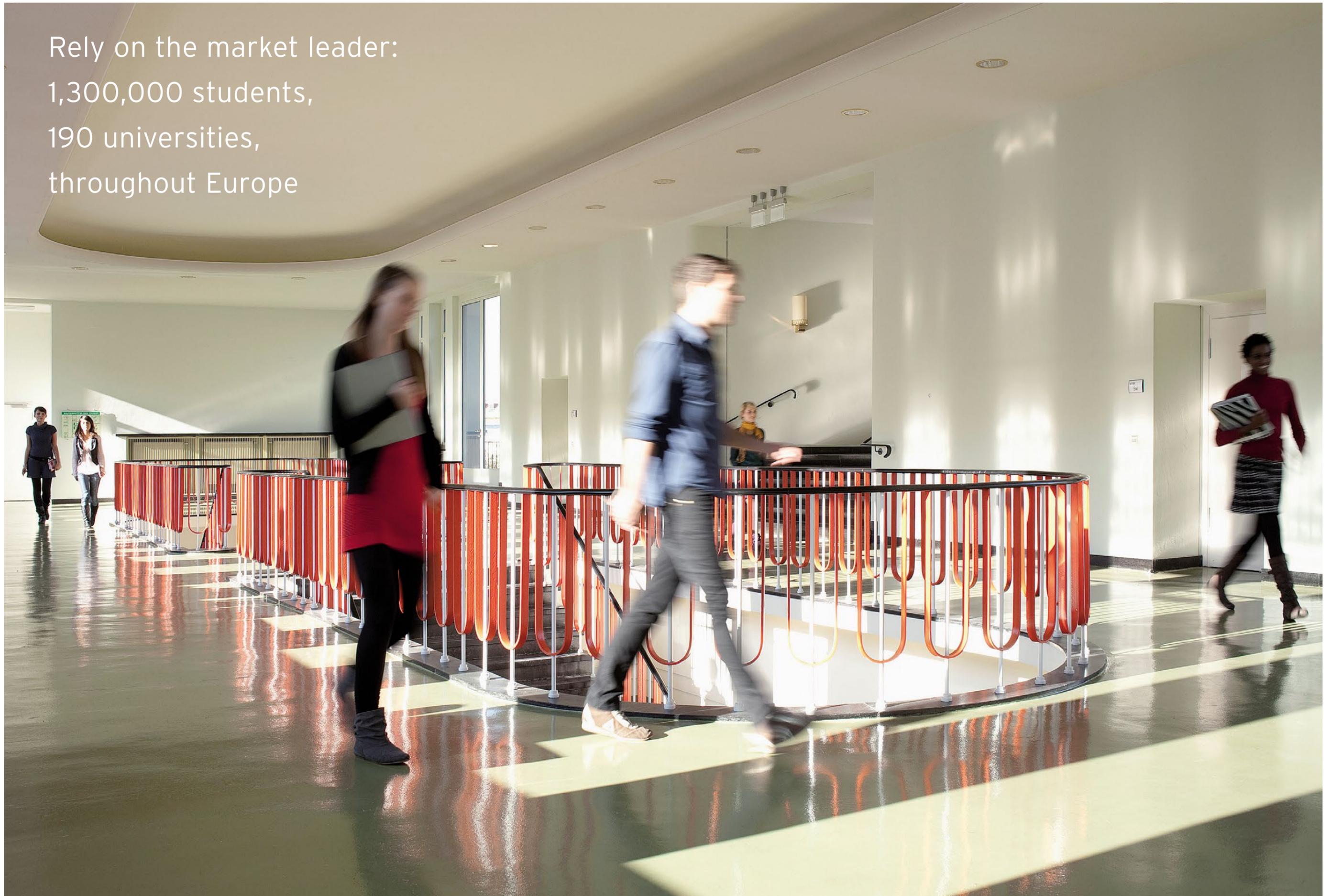
### InterCard Kartensysteme GmbH

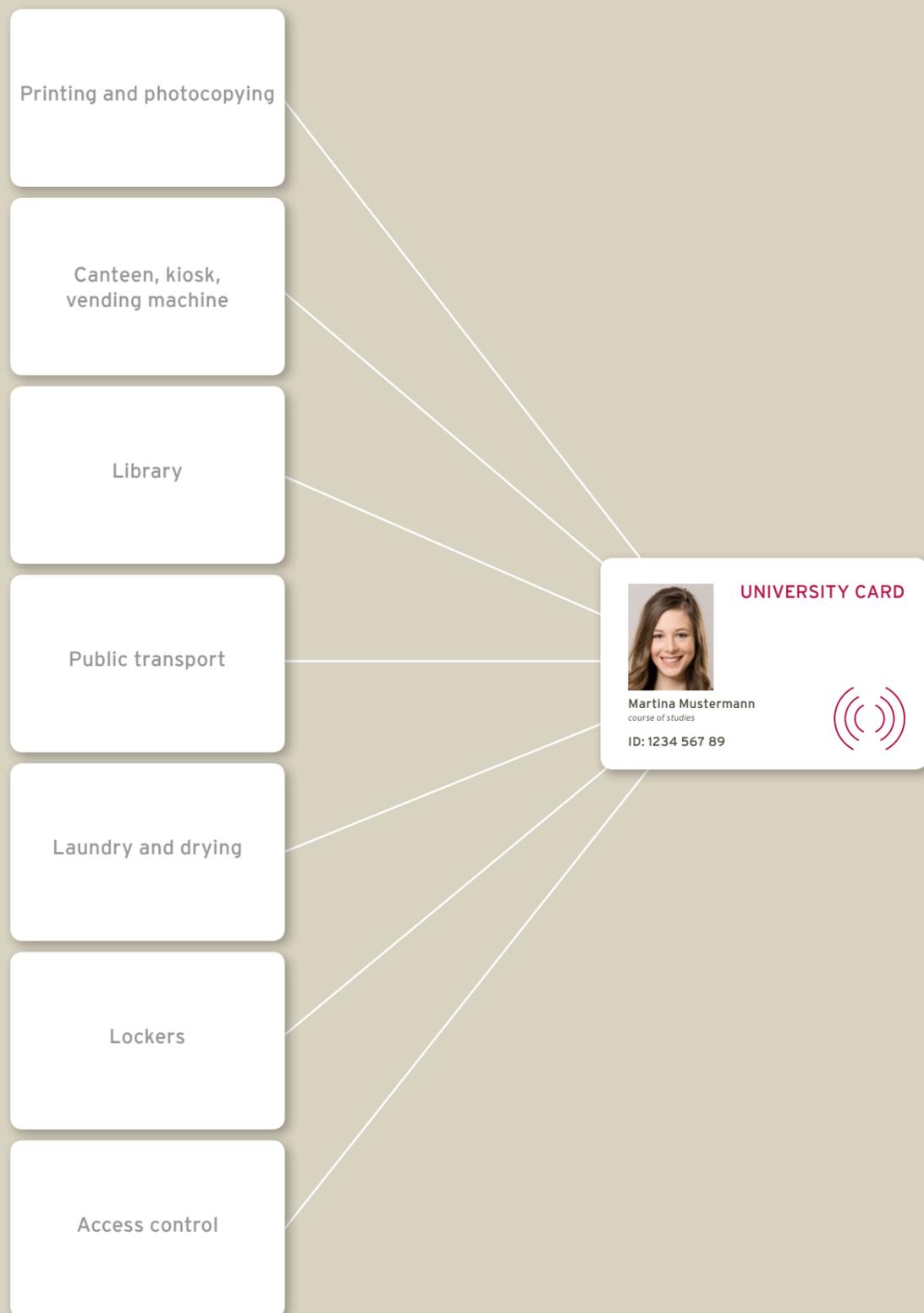
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Rely on the market leader:  
1,300,000 students,  
190 universities,  
throughout Europe





Grouping of various functions on a single chip card

## The university card: Pay everywhere on the campus with the same chip card

The university card combines all the payment functions on a single card: whether they need to pay in the canteen, at the kiosk or by the photocopier, your students and staff can always use the same chip card.

External systems can also be linked into the chip card system, such as for example e-tickets for local public transport.

Lockers can also be opened, managed and paid for using the same chip card.

### Combine all systems

In a first step we analyse together which payment systems and chip cards are already in use at your institution and how InterCard can integrate the existing functions into the new chip card system.

Thanks to the central administration based on a single system and the issuing of university cards you can save considerable costs: only one chip card has to be produced, managed, extended and if necessary deactivated.



# Pay with the chip card in the canteen, in the cafeteria and at the vending machine

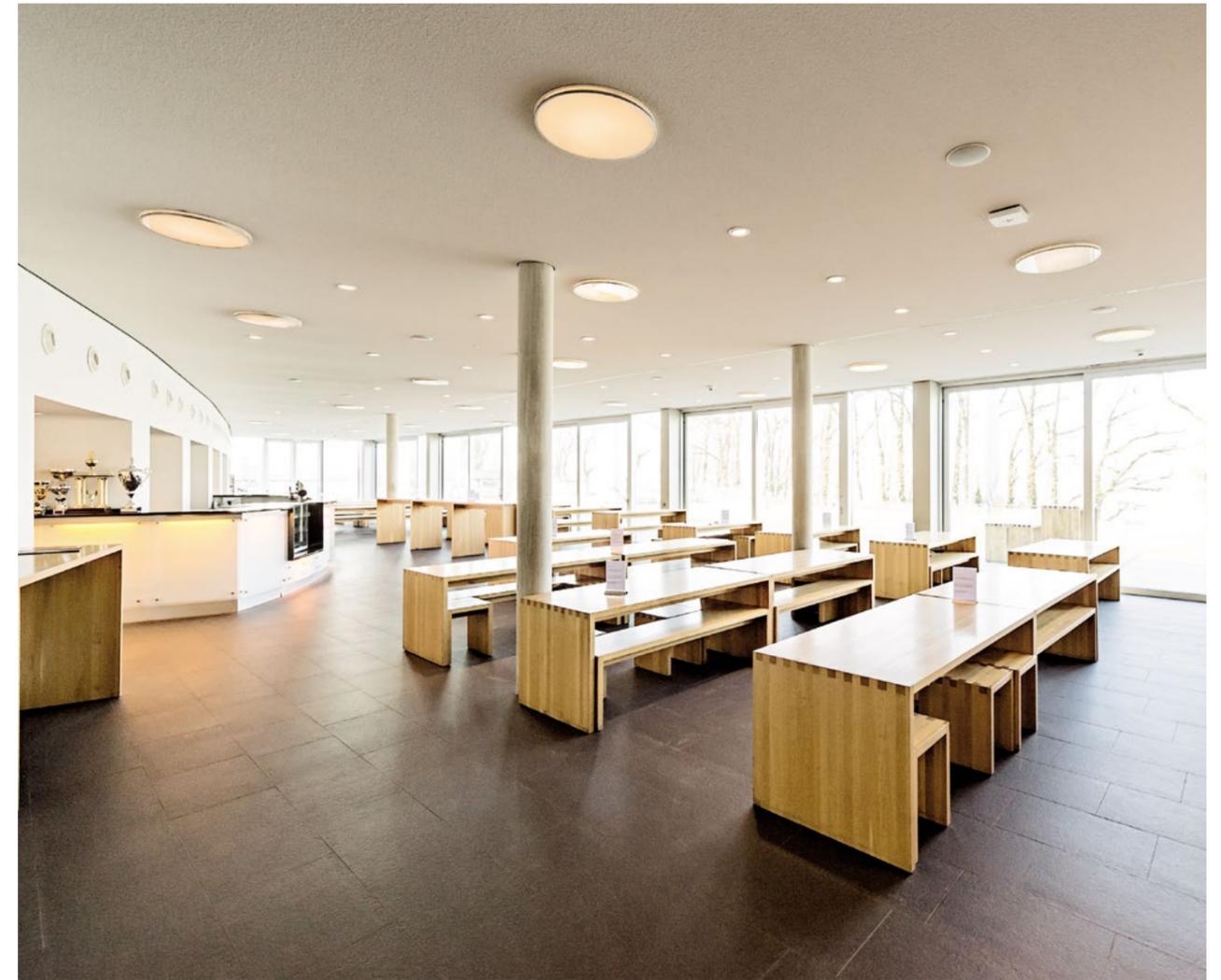
InterCard supplies the entire payment system for your communal catering. Regardless of whether your guests eat and drink in the canteen or just want to buy a coffee to go and a magazine to take with them at the kiosk: they can make a cashless payment with the credit on the chip card.

## At the counter

The selected products are typed into the checkout by the staff, read with the barcode scanner or recorded with the integrated scales. The chip card reader which is attached always debits the payment due directly from the chip card.



Yuno checkout system with chip card reader and scales



## Single tariff terminal

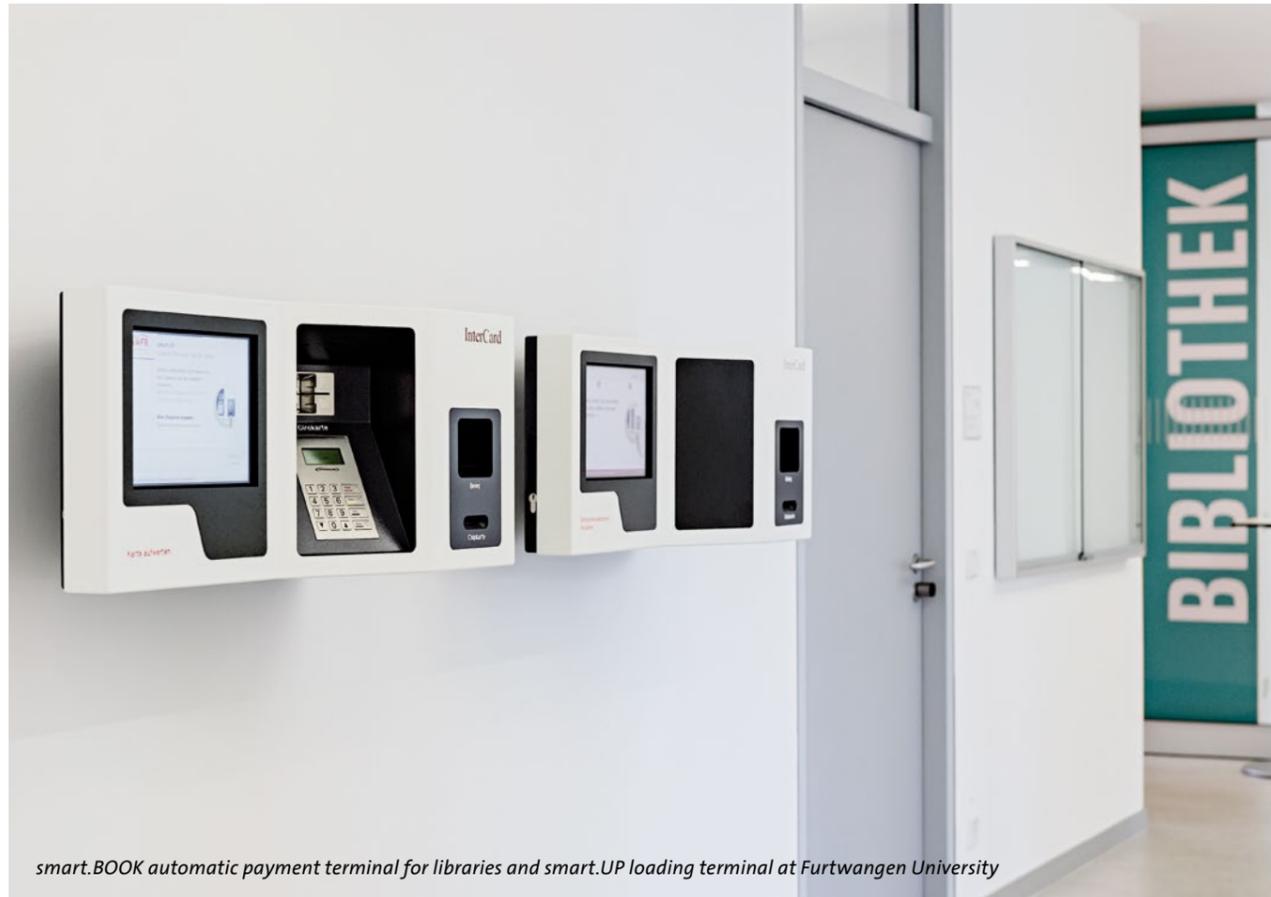
If the menu is only sold at a fixed price, the payment procedure with the chip card is even easier: The guest holds the chip card in front of the chip card terminal and the predetermined amount is debited. The traffic light turns green or the turnstile is unlocked. The guest is then authorised to carry on.



## At the vending machine

Snacks, drinks or coffee can be paid for at the vending machine. Here the insertion of cash at the vending machine is replaced by the chip card module vend.IN. The amount to be paid is debited directly from the chip card.





*smart.BOOK automatic payment terminal for libraries and smart.UP loading terminal at Furtwangen University*

## Self-service library charge system

With smart.BOOK, the payment terminal for libraries, your students can easily pay charges at the terminal.

The students identify themselves at the terminal using their chip card. Their customer account is opened and unpaid fees are shown on the display.

Your users pay the unpaid charges at the terminal with the credit on their chip card.

The payment system is directly linked to the lending system, so that after paying the charges books can immediately be borrowed again.

### Optional retail function

In addition to library charges, your visitors can optionally also pay for further products, vouchers and tickets.

We also offer payment systems with chip card readers for libraries.





## Pay for the use of laundry equipment in the hall of residence with the university card

**Laundry First Floor**

1 Wash  
2 Wash  
3 12  
4 Wash  
5 Maintenance  
6 36  
7 45  
8 Wash  
9 Wash  
10 80  
11 Wash  
12 3  
13 Maintenance  
14 10  
15 Dry

Washing machine/ dryer free  
Washing machine / Dryer occupied with remaining time shown in minutes  
Display showing number of washing machine or dryer

Interface smart.GO web portal

The same university card can also be used to pay for washing machines and dryers in halls of residence without using cash. In this case an InterCard chip card terminal is connected to the appliances in the laundry room. In this way the chip card replaces the time-consuming issuing and accounting of laundry tokens.

The performance of the washing machines and dryers can be paid for either according to the time they are used, with a fixed amount or by checking the service provided (power consumption).

### Check machine availability online

Students can check the availability of the washing machines or dryers by smartphone, tablet or PC via a web portal. The web portal collects the information from the terminal in the laundry room.

Unnecessary and time wasting trips to the laundry become a thing of the past. avoided.

Loading the chip card:  
with cash, by bank card  
or via Autoload





smart.UP loading terminal for bank card on stand, with wastepaper basket

## Loading the chip card with credit at the terminal using coins, banknotes or bank card

With the smart.UP automatic loading terminal, users of chip cards can easily add credit to their card: Insert your chip card, pay in the amount – that's all.

It is possible to credit the card by paying in cash in the form of coins or banknotes; you can also add credit to the card using your bank card or debit/credit card. When loading the chip cards with a bank card smart.UP supports both payment forms: electronic debit or ec-Cash.



smart.UP automatic loading terminal for coins and banknotes, with wall bracket

### Functional Design

The automatic terminal can be easily and intuitively used via the 12" touchscreen.

The smart.UP's clever design and tough build make it ideal for the public environment.

## New chip cards can be issued and returned at the loading terminals

The automatic loading terminal with smart.EXPERT guest card function is based on the smart.UP automatic loading terminal. It extends the range of functions to include the issuing and deactivating of new chip cards.

A stock of up to 250 neutral, not personalised chip cards is held within the appliance to be issued as new or guest cards.

### Issuing cards

The new chip cards are issued with credit already loaded. The guest can determine the amount to be credited. Optionally, the operator can charge a deposit on the chip card.

### Returning cards

The chip cards which have been issued can be returned by the automatic payment terminal. The remaining credit on the chip card, including deposit, will be paid back to the guest via the coin chute.



*smart.EXPERT automatic loading terminal with coin chute for the issuing and deactivation of guest cards*



Adding credit at every terminal via Autoload using debit or online payment services



#### The Autoload procedure

With the Autoload procedure a chip card user's credit is automatically reloaded as soon as the credit falls below a predetermined minimum amount.

The amount to be credited is either debited directly from the bank account of the chip card owner or is paid via an online payment service, for example, PayPal.

#### Registering Autoload

When the Autoload procedure is registered the chip card user enters his or her bank account details and issues a direct debit mandate if necessary.

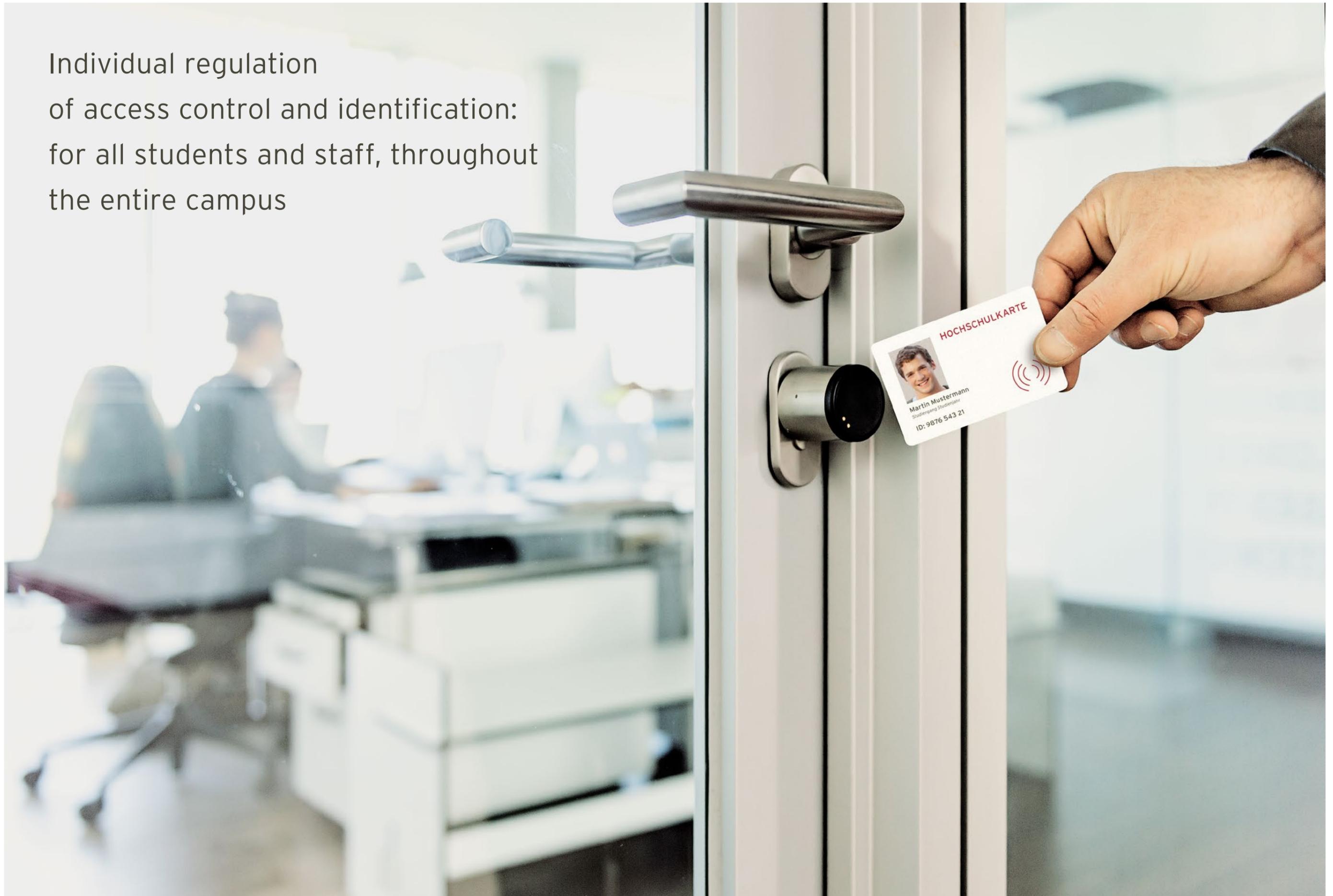
If desired the user can also determine via his or her online access the amount to be credited and the minimum amount below which this automatic topping up of the credit should take place.

#### Adding credit

If it is determined at a terminal or machine that the credit has fallen below the minimum level, the terminal will load the chip card directly with the topping-up amount, after requesting the agreement of the user (optional).

The amount to be credited is either a predetermined fixed amount or can be entered manually at the terminal.

Individual regulation  
of access control and identification:  
for all students and staff, throughout  
the entire campus





Access control at an offline terminal with the university card

## Opening doors and barriers with the university chip card



Access control at an online terminal with the university card

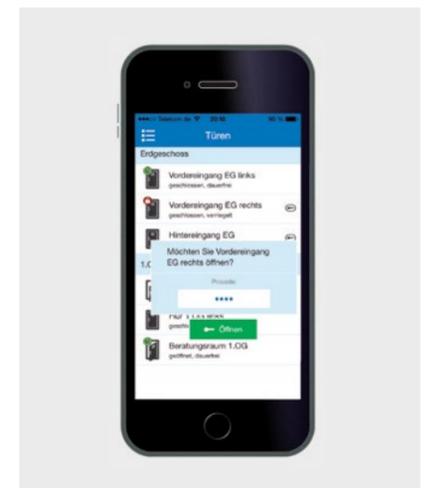
With our access control system you can grant access to buildings, car parks or your company premises to students and staff. In the building itself you can regulate access to the individual rooms, lifts or entire areas.

Access rights can be granted individually for each user. You can regulate from the control centre which user may enter at any access point.

### Individual authorisation

At the online terminals linked into the network you can quickly grant or withdraw the rights of access for your students.

If individual doors are not wired up to be equipped with offline terminals, students will have their access rights renewed every day on their chip cards.



### The system app

Via the app you can control the state of the access system, including for example the status of the doors; the state of the batteries of the offline cylinder locks; or alarm and fault reports.

You can also control individual access points directly and thus open and lock doors and barriers.

## Opening, closing and paying for lockers with the chip card



Even lockers and locks on cupboards can be integrated into the system with the university chip card system. Opening and closing is simple with the chip card.

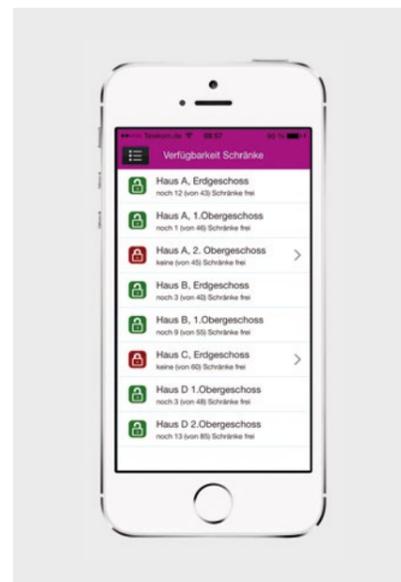
Padlocks and individual keys need no longer be issued or returned. Lost keys or permanently blocked lockers are things of the past.

Authorisation to use the cupboards can be allocated individually.

### Online and offline locks

You can manage and control online locks and lockers conveniently from the control centre. If required they can also be opened and locked from there.

If you do not wish to wire up your cupboard locks specially, you can decide on the battery-operated offline version.



### Manage via the App

Users can use the app to discover locker status and also to pay any charges that may be due.



# Identification at the mobile chip card terminal with the university card

With the portable chip card terminal you can read your students' chip-based university card in any location. This enables the card owners to be clearly identified.

The appliance can be used, for example, at compulsory events to record the presence of students with the precise times of attendance.



Mobile chip card terminal in red and blue



## Organise examinations

During examinations you can use the mobile chip card terminal to monitor access to the examination area and can compare the data of the students with the registrations for the examinations that were submitted. You can also record the time the examination paper was handed in.

## Hold university elections

During university elections you can use the university card to verify the voting rights and can ensure that each student only votes once.

## Examine tickets

You can examine the tickets and authorisations stored on the university card and can control the access to different areas.

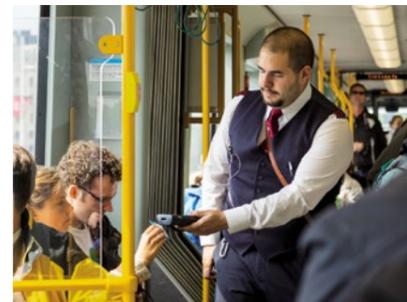
# The local public transport ticket on the chip on the university card

InterCard integrates the e-ticket for public transport into the chip of the student ID – or upon request when the university card is issued.

The e-ticket can also be recorded onto the chip at the automatic pay station at a later date. The authorisation period is then printed by the pay station directly on to the chip card and is encrypted before being recorded on the chip in code form. The validity can also be extended at the automatic pay station.

## Low additional costs

Neither new chip cards nor new automatic pay stations will be required for the e-ticket, because the existing university infrastructure can be used for the integration of the electronic ticket. All that you will require will be software updates.



## Forgery-proof

The e-ticket is safe from forgery because it is not simply printed externally on the student ID, but is also encoded and stored on the chip in code form. It can easily be read and checked by the readers carried by ticket inspectors.





Producing and managing chip cards



## Producing new university cards: encoded, printed and sent by InterCard

In order to supply students at the start of a new semester, many thousands of chip cards have to be encoded, individually printed and dispatched at once. InterCard offers all services in connection with the production of these chip cards.

As a first stage the data of your students and the individual authorisations are transmitted to InterCard. InterCard uses the data to create each individual personalised university card. It goes without saying that all data protection guidelines and ISO certifications are complied with.

### All functions at once

With the newly produced chip card the student will be able to take immediate advantage of all the possibilities by using the chip card-based system of the university.

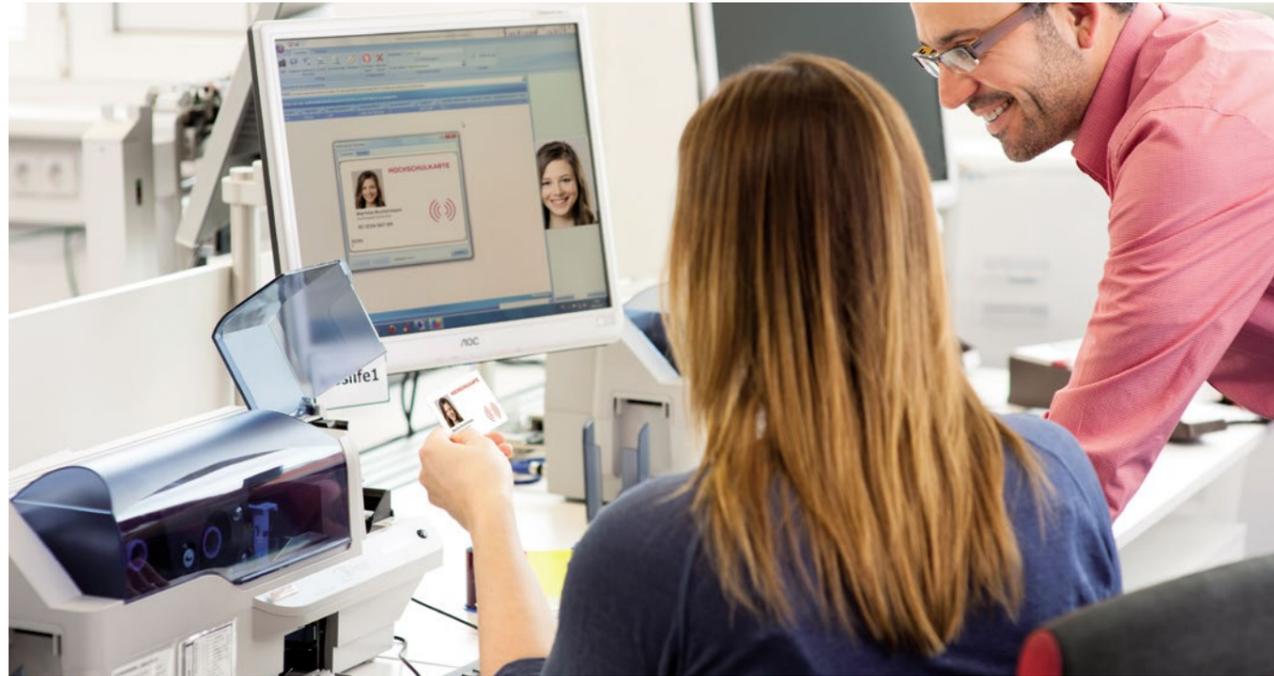
The e-ticket for public transport and the authorisation to open all doors can be used at once. In order to pay for printing or photocopies or for the food in the dining hall you will simply need to put some credit on the card at the automatic pay station.



### InterCard-Lettershop

Through the Letter Shop System InterCard sends the chip cards to the home addresses of the students which they have disclosed.

## Producing university cards individually, subsequently changing them and extending their validity



With the card management software from InterCard you can create individual chip cards yourself from scratch or process existing chip cards after production. The chip cards can be individually coded and printed.

In addition to the original coding, further functions or rights, existing data sets can be updated at any time, for example a library number can be issued or a new access code can be allocated.

### Renew validity

Each student can extend the validity of the university card at the smart. GET station. The validity for the new semester is already stored within the system. It will be automatically inscribed and printed onto the chip card.





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