June 6th, 2017
ESC Conference of dissemination
Münster, Germany

Dr. Tamas Molnar - Humboldt University of Berlin

The Berlin Campuscard System

Dr. Tamas Molnar

Humboldt-Universität zu Berlin

Berlin, Germany

An Alliance of Universities

Hochschule für Technik und Wirtschaft Berlin
University of Applied Sciences

BEUTH HOCHSCHULE FÜR TECHNIK BERLIN
University of Applied Sciences

CHARITÉ
UNIVERSITÄTSMEDIZIN BERLIN

MensaCard
Studentenwerk Berlin
0000000

Hochschule für Wirtschaft und Recht Berlin
Berlin School of Economics and Law

VBB

HUMBOLDT-UNIVERSITÄT ZU BERLIN

Freie Universität Berlin

The Campuscard Alliance
110 000 Students

2500 Cards

8000 Cards

Testing

11000 Cards

12000 Cards

Testing

Overview

Phase 1a 2016
- Electronic Student IDs

Phase 1b 2017
- Integrated electronic IDs for university libraries

Phase 2 2017
- Electronic employee IDs
- Electronic visitor IDs

Phase 3 2019
- Integrated electronic ticket for public transport

- Mifare DESfire EV1 cards
- 25 mm TRW strip
- Photo and barcode for library use

The Process

QR-code – received

(electronic or postal delivery)

Card - received

Through the terminal

(20 terminals in Berlin

Card - validated

Through TRW kiosk

(30 kiosks in Berlin)

System Components

Mifare DESfire EV1 4K 70pF cards

- Blank with the university layout and deployed cafeteria application

Card Print Terminals

- Self service terminals with integrated photo station and card printer

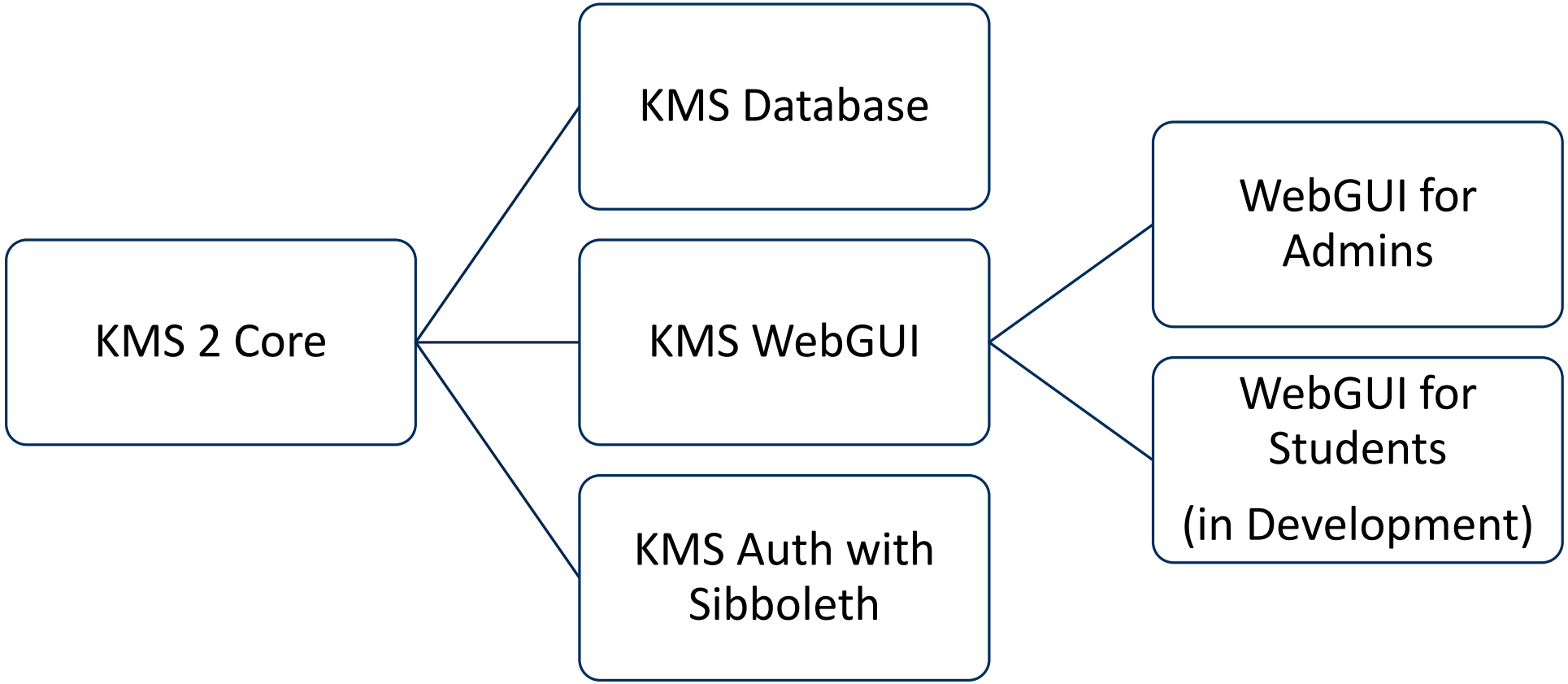
TRW-Kiosks

- Self service kiosks with integrated TRW-printer

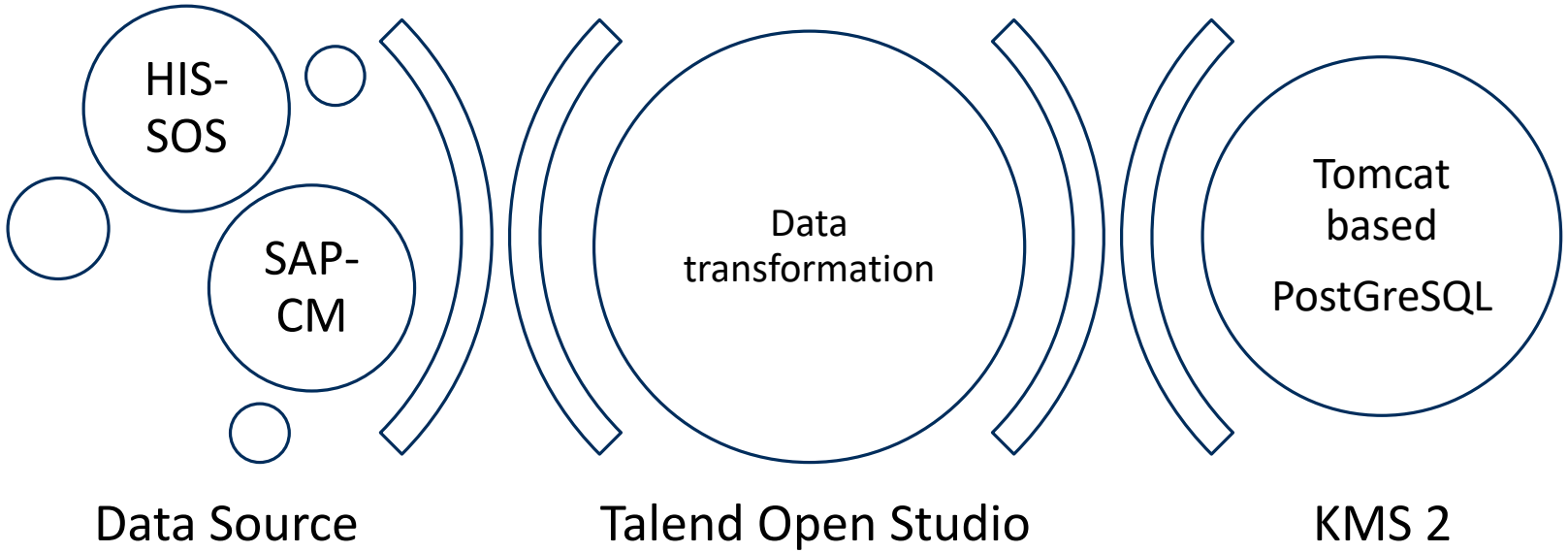
Card Management Software and WebGUI

- Universal solution for different data sources

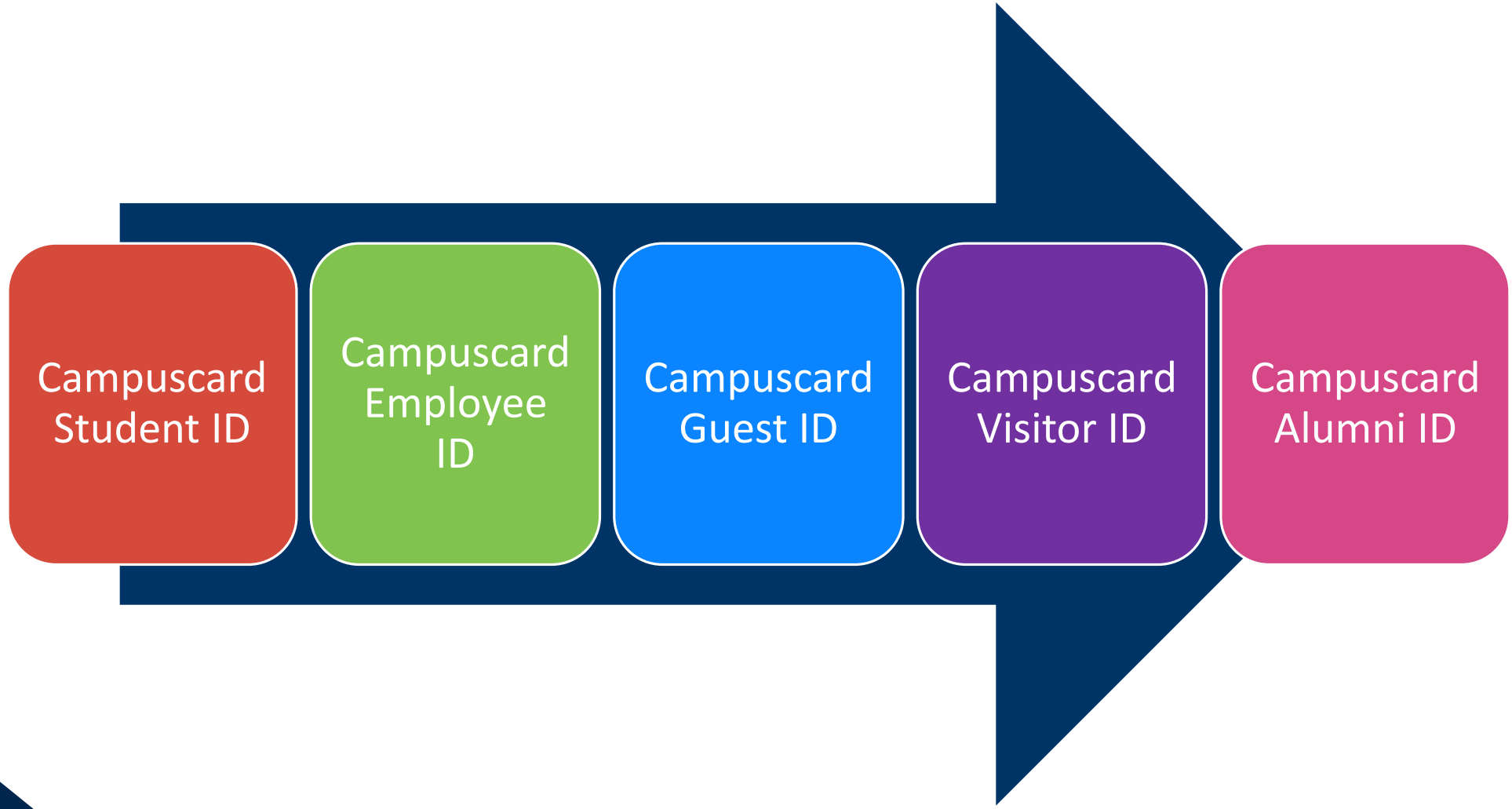
The KMS2


KMS 2 Core
KMS Database
KMS WebGUI
KMS Auth with Sibboleth
WebGUI for Admins
WebGUI for Students
(in Development)

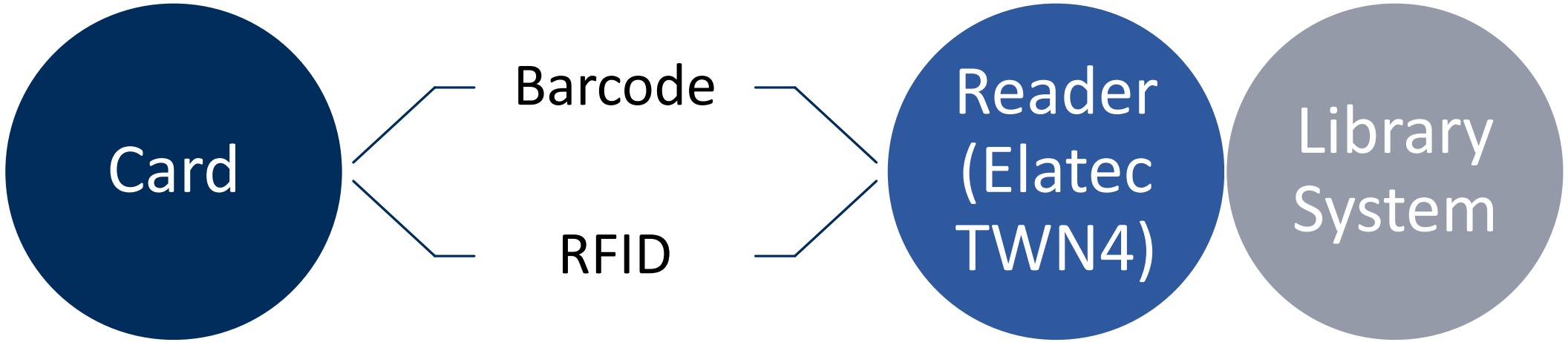
What's inside?



The Future


Campuscard Student ID
Campuscard Employee ID
Campuscard Guest ID
Campuscard Visitor ID
Campuscard Alumni ID

RFID Identification in the Libraries



The Innovation

Campuscard

- Library ID from home HEI in Chip

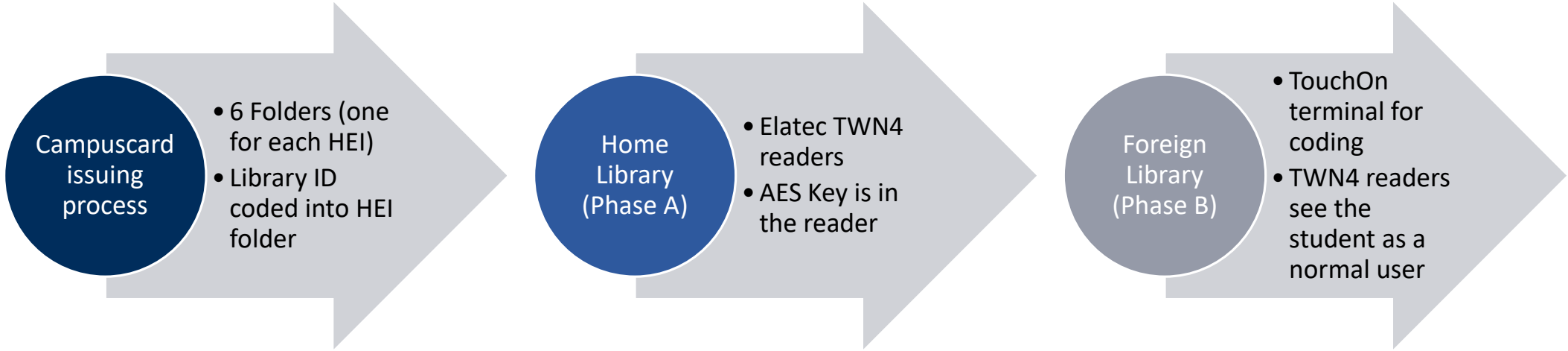
RFID Identification in the Home Library

- Intelligent RFID readers with communication through keyboard buffer
- No modification need for library systems

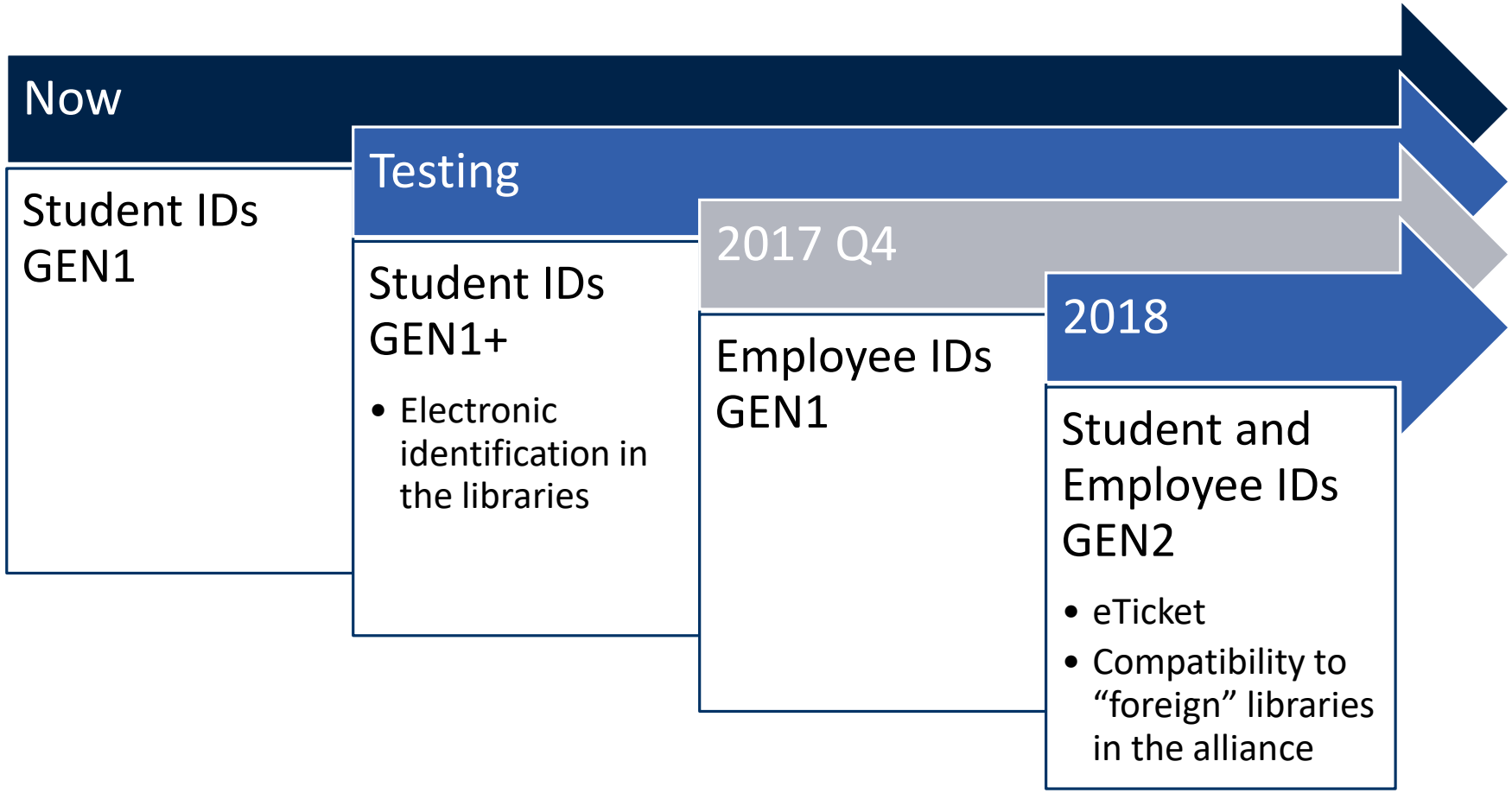
TouchON Terminal in the Foreign Library

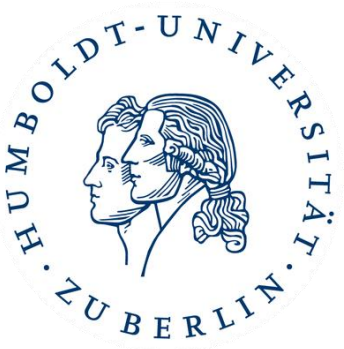
- Card is registered at foreign HEI
- Data of the student transferred from home to foreign library
- Student can use his home card at the foreign library

How does this work?



Schedule - Extensions





Thank you

Tamas Molnar

tamas.molnar@cms.hu-berlin.de