# European Education Connectivity Solution

## Project Overview & Update

**Tor Fridell**
*Linkoping university*
*European Campus Card Association*

**Andrzej Materka**
*Professor, Technical university of Lodz*
*President, European Campus Card Association*

**Eugene McKenna**
*Waterford Institute of Technology*
*European Campus Card Association*

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# Presentation Agenda

- ➢ Background to EECS Project

- ➢ EECS Project Requirements

- ➢ Consortium for Project

- ➢ Aim of Project

- ➢ Project Overview

- ➢ Market Research (Key Findings)

- ➢ Current Progress & Next Steps

# Background to EECS Project

➤ **European Campus Card Association (ECCA) - Established 2002**

➤ **ECCA – Main Aims & Objectives**

- Develop & Promote Standards (EECS Project)

- Mobility of Students (EECS Project)

- Establish a business case for card systems

- Forum for sharing of knowledge and information

*Bologna!*

➢ **European Campus Card Association (ECCA)**

➢Yearly conference, last week in Waterford, Ireland. Next year in Bristol, UK
➢Newsletter, forums, web resources, contacts, study visits
➢Shared purchases
➢National chapters in some countries
➢Website http://www.ecca.eu

➢**Membership welcome!     Mail to info@ecca.eu**

# EECS Project Funding

- ➢ **EU Funded Project (FP7/SME)**

- ➢ **FP7/SME Requirements**
  - *- Driven and managed by SMEs*
  - *- RTDs acts as contractor to SMEs*

- ➢ **Role of ECCA in Project**
  - *- Executive Management Committee*

# EECS Project Consortium

**Consortium = RTD's & SME's (requirement by EU)**

*RTDs x 3*
- Research Technology Dept.
- Approved Research Centre of a University/College

*SMEs x 3* (Small Medium Enterprises)
- Vendor for Final Product
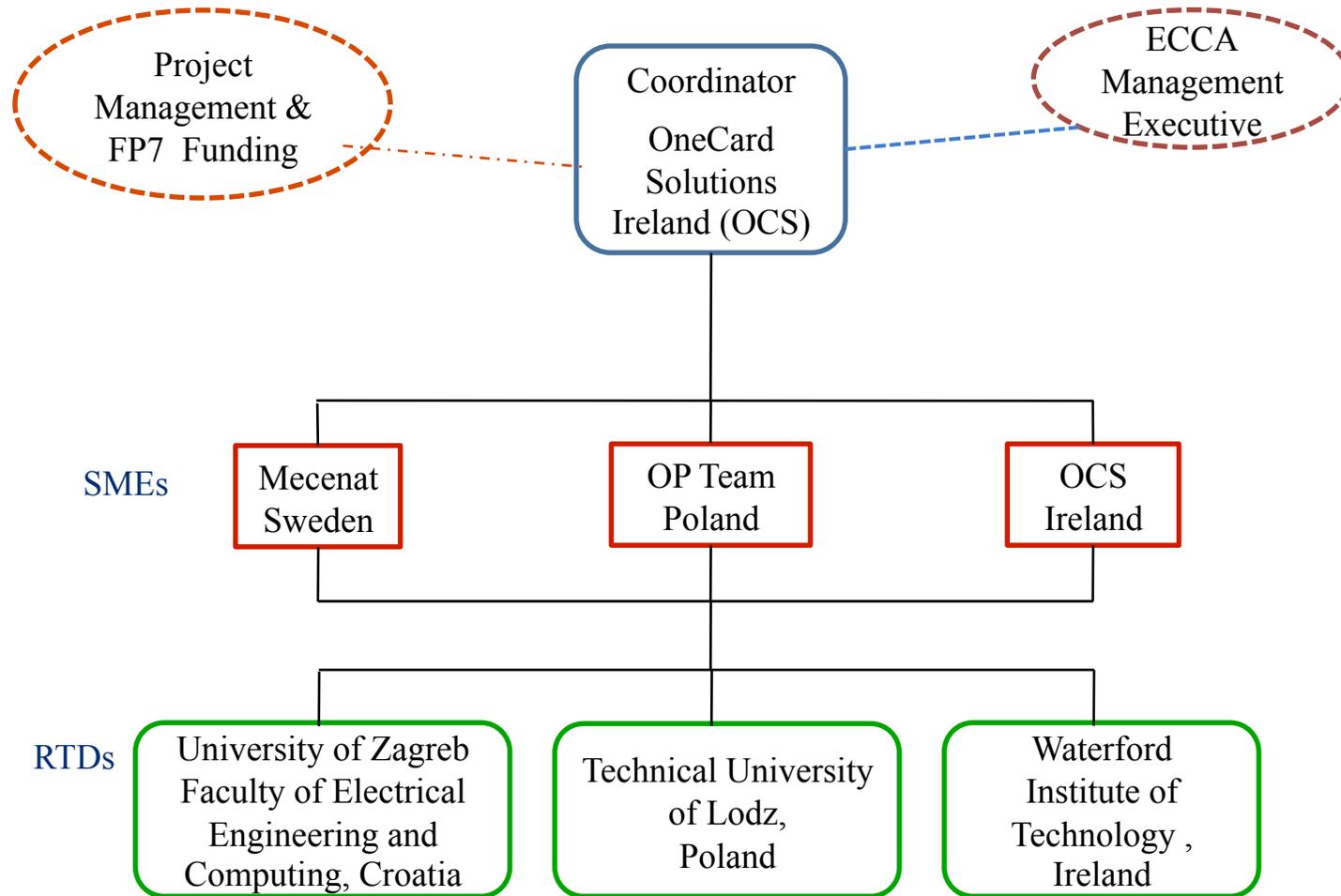- Manage assigned work packages as per agreed specification

➢ **Benefits to EU**
- Development of Mobility & Standards

➢ **Benefits to Consortium**
- Grant Aid (Project = 1.5 million, Grant = 1 million)
- SME driven project  (balance funded by SME's)
- Delivery of End Product for Vendor & User

# EECS Consortium Structure

## Develop Prototype for Card Management System

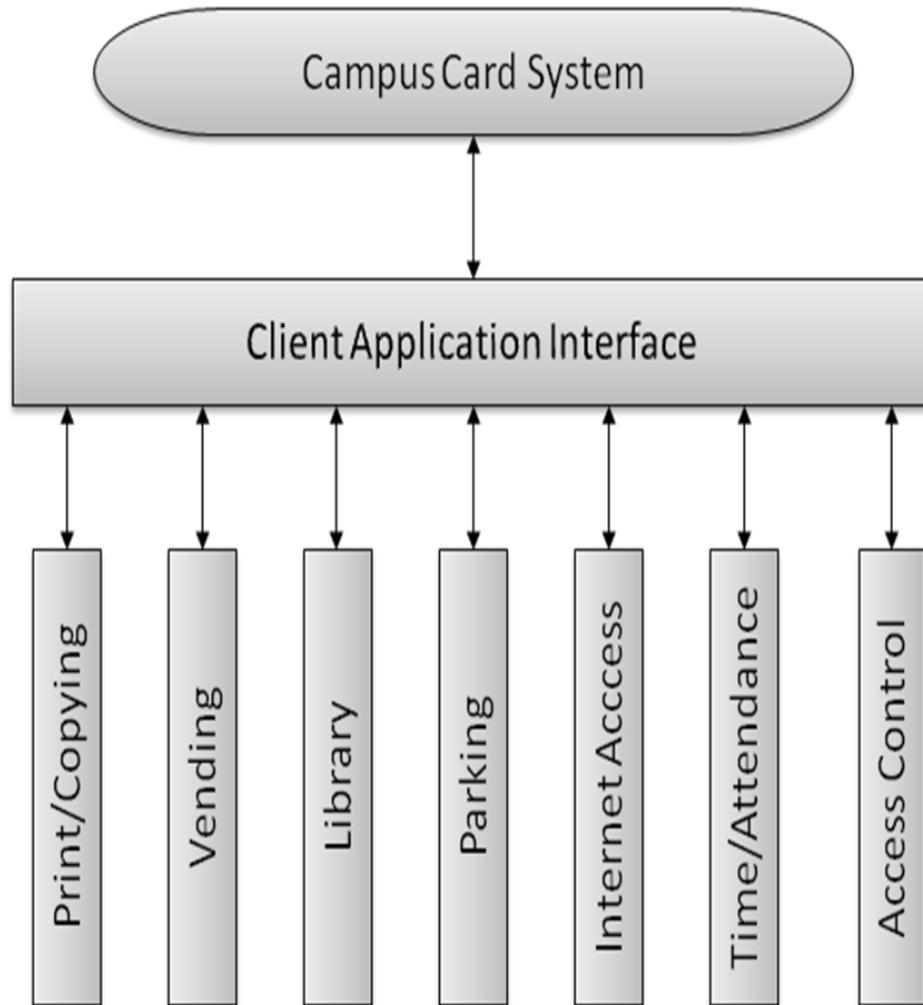**Three Core Modules**
- ❑ *Card Application Management System (CAMS)*
- ❑ *Client Application Interface (CAI)*
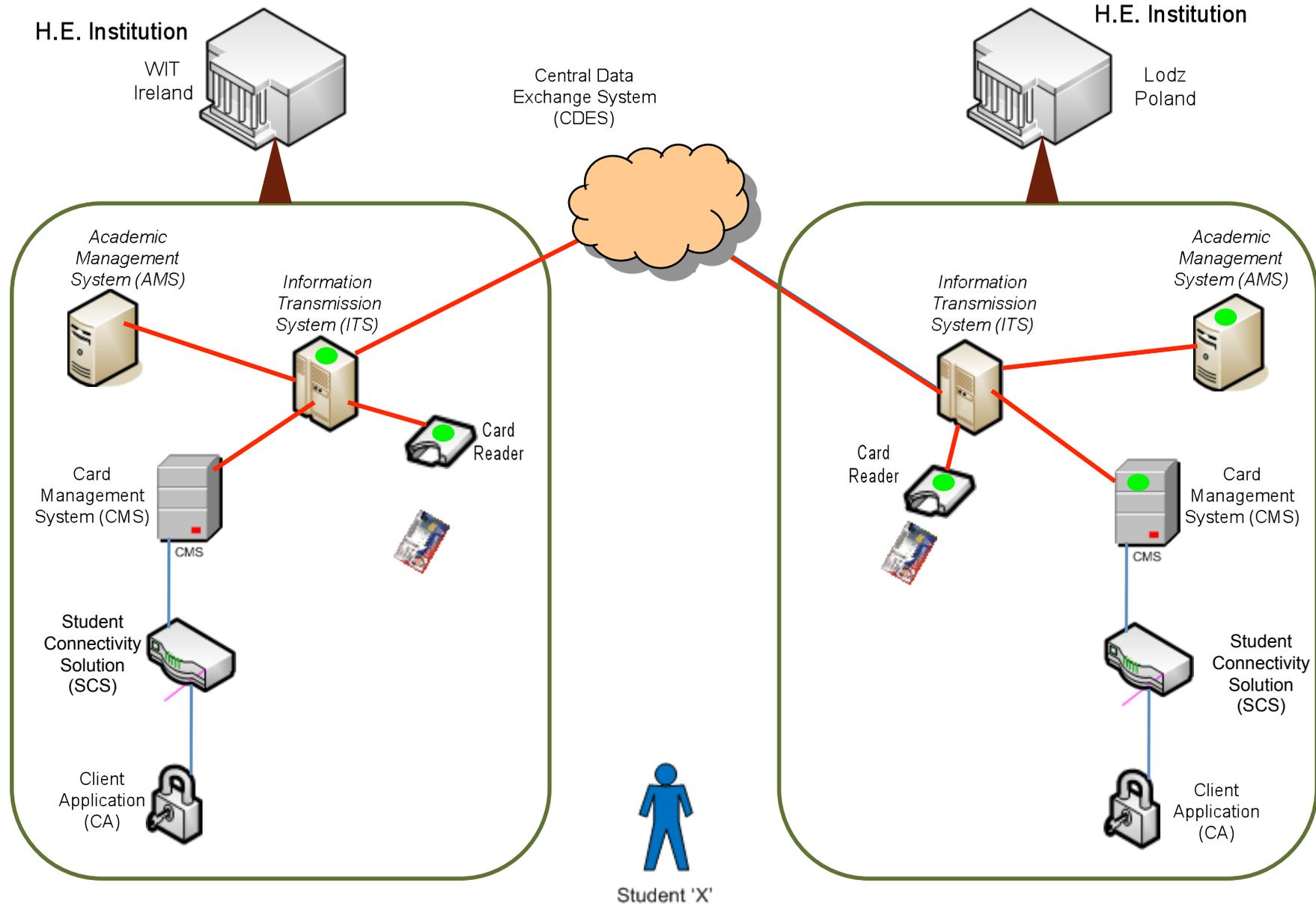- ❑ *Student Connectivity System (SCS)*

**Key Objectives**

➢ Facilitate Interoperability

➢ Develop Standards for Card Systems

➢ Mobility (key requirement of EU)

➢ Security & Access to on-campus facilities

➢ Assist with cashless campus

# EECS Client Application ptototype



- "Plug-in" client applications

- Standardized campus card system

- "Interconnectivity" across Europe

# EECS Exchange Prototype



H.E. Institution
WIT
Ireland

Central Data
Exchange System
(CDES)

H.E. Institution
Lodz
Poland

Academic
Management
System (AMS)

Information
Transmission
System (ITS)

Card
Reader

Card
Management
System (CMS)

CMS

Student
Connectivity
Solution
(SCS)

Client
Application
(CA)

Academic
Management
System (AMS)

Information
Transmission
System (ITS)

Card
Reader

Card
Management
System (CMS)

CMS

Student
Connectivity
Solution
(SCS)

Client
Application
(CA)

Student 'X'

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# Project Overview

- ➢ Project = 6 Work Packages (WP)

- ➢ Each Work Package = Deliverables

- ➢ Managed by SME, Research by RTD

- ➢ Timescales/Milestones  for each WP

- ➢ Payment Structure for each WP

- ➢ Quality Control & Audit

# Project Overview

| WP | Title | Start | End | Update | SME |
|---|---|---|---|---|---|
| WP1 | Project Management | Jun 09 | May 11 | Ongoing | OCS |
| WP2 | Current Technology & Market Analysis | Jun 09 | Oct 09 | Complete | MEC |
| WP3 | Technical Requirements Analysis & Scientific Solutions | Oct 09 | Mar 10 | Complete | OCS |
| WP4 | Applied Research & Development | Nov 09 | Feb 11 | Current | OCS |
| WP5 | Validation & Testing | Sep 10 | Apr 11 | | OP |
| WP6 | Training, Knowledge Management and Dissemination | Jul 10 | May 11 | | OCS |

# European Education Connectivity Solution

## Market Research – Key Findings

**Acknowledgement to Sinead Nealon, WIT, for compilation and graphics!**

# General Overview

➢ Random Sample

➢ 100 Universities/Colleges (Card Users & Non-Users)

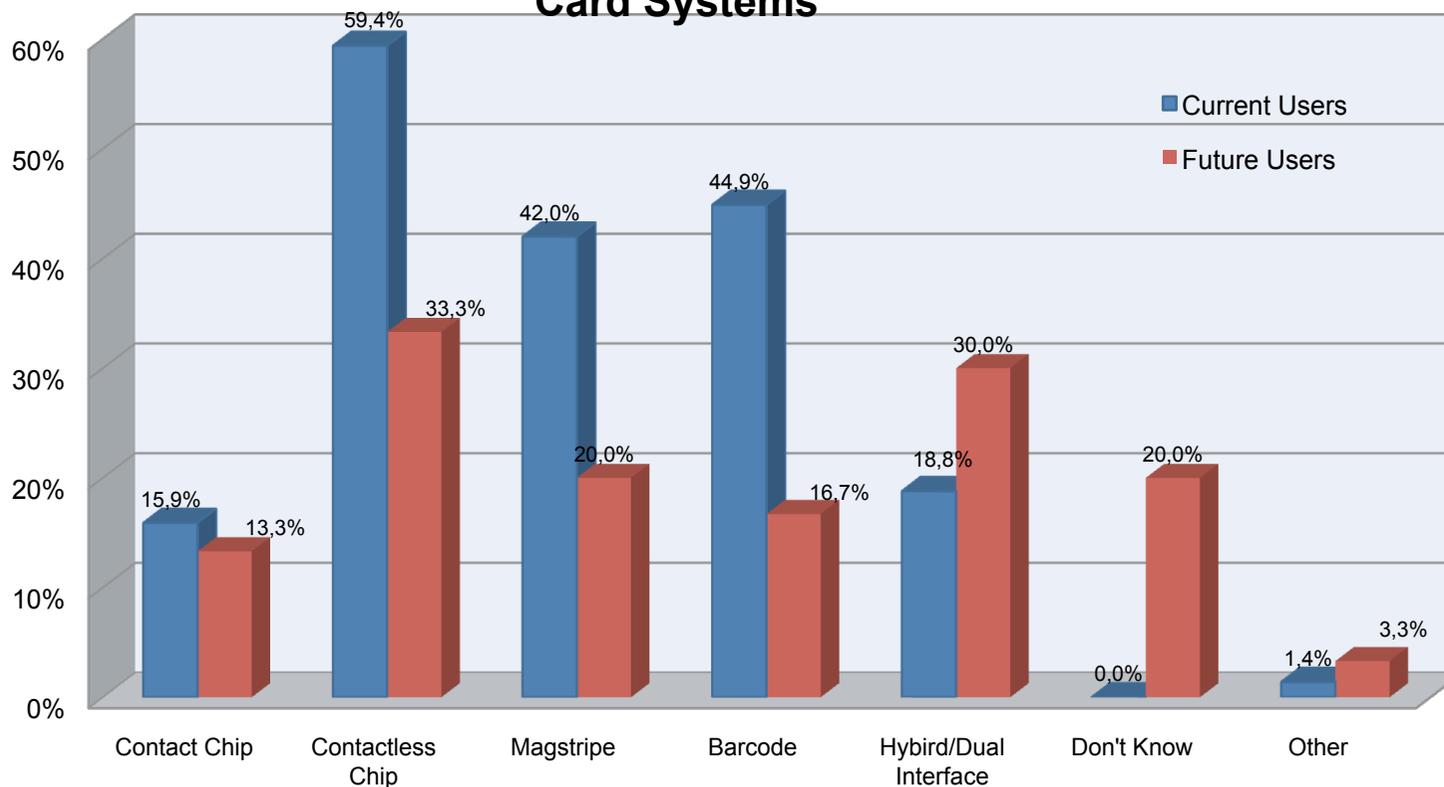➢ Current Market & Future Requirements

# Key Areas of Research

➢ Card Technology  & Applications

➢ Payment Systems

➢ Value Load Options

➢ Market Potential for SME's

➢ Interoperability & Mobility

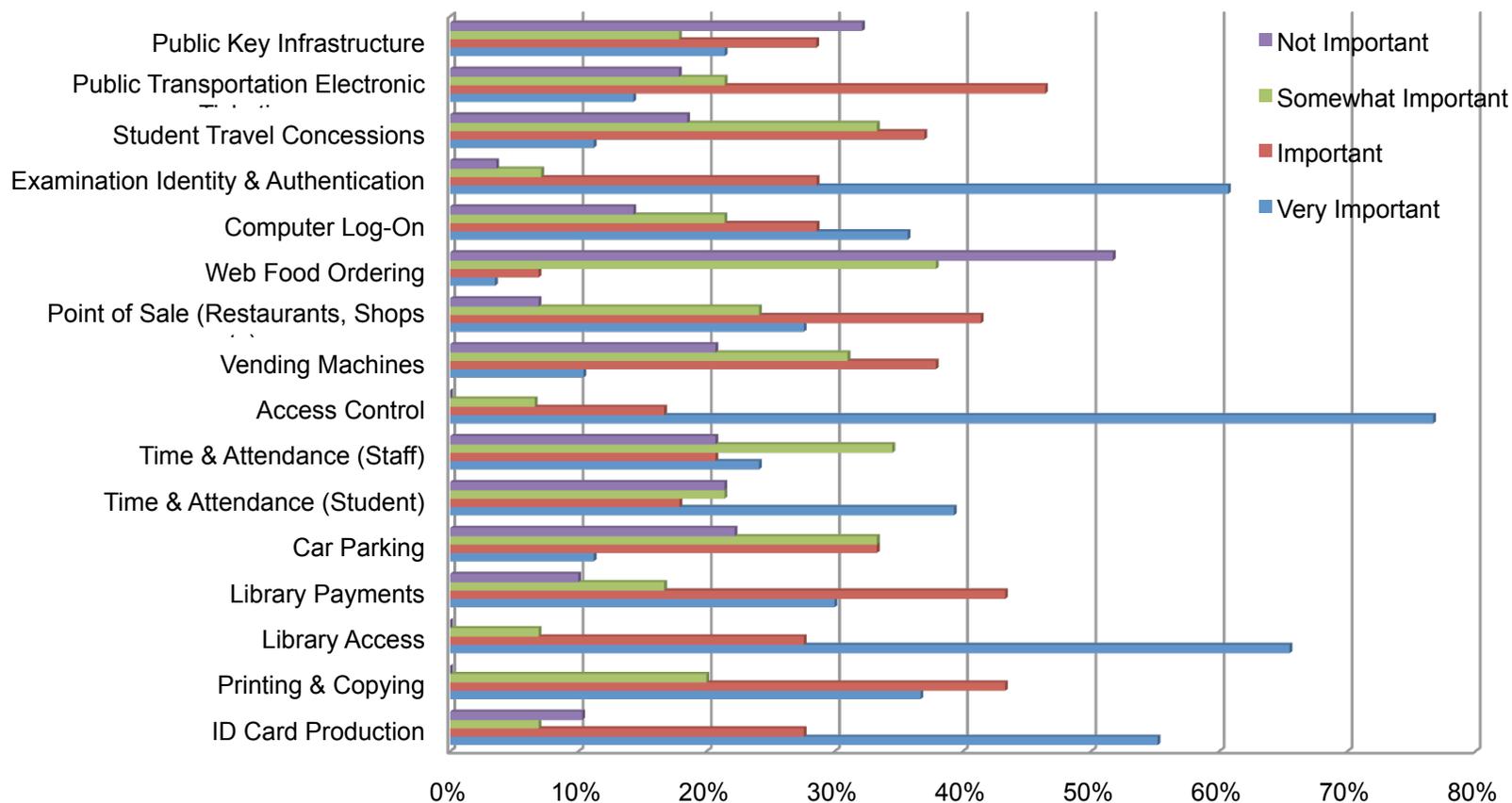➢ Off-Campus Purchases & Student Concessions/Discounts

➢ **Card Technology**

**Figure 1:  Current and Future Card Technology for Campus Card Systems**

# Market Research – Key Findings
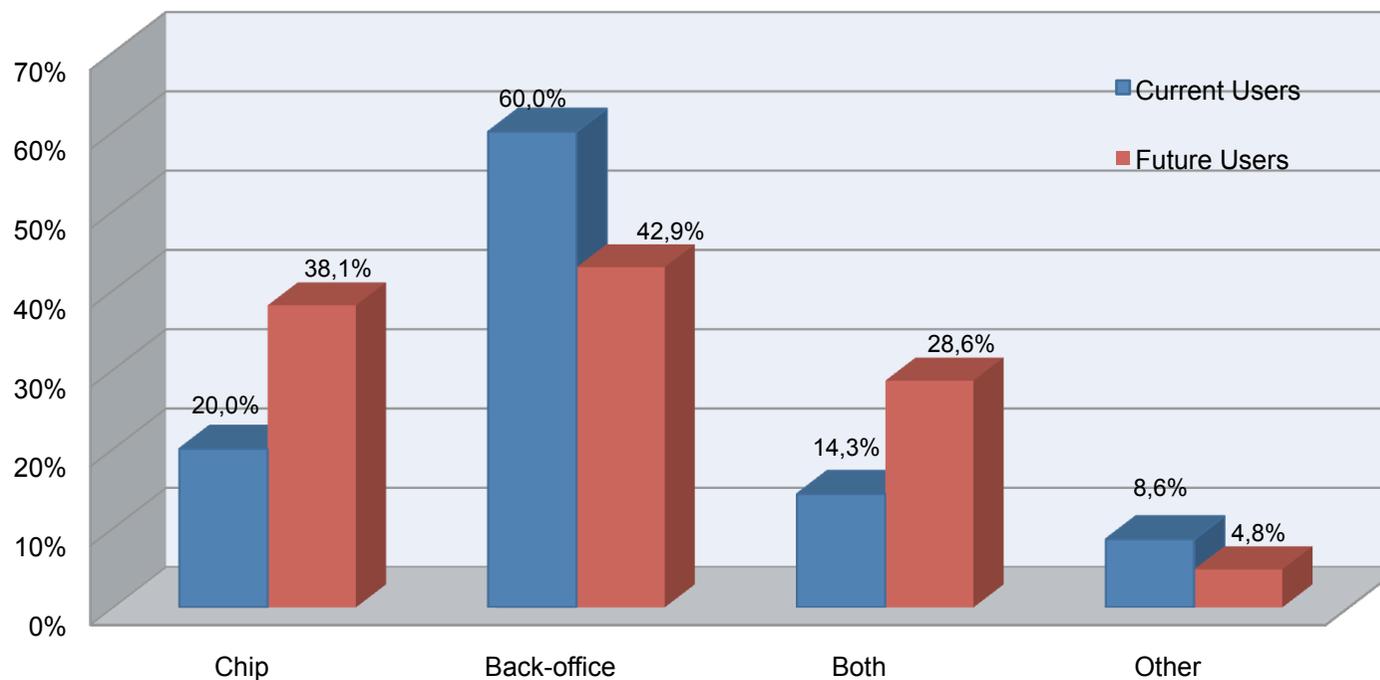
➤ **Applications**

## Figure 2: Future trends for campus Card Applications
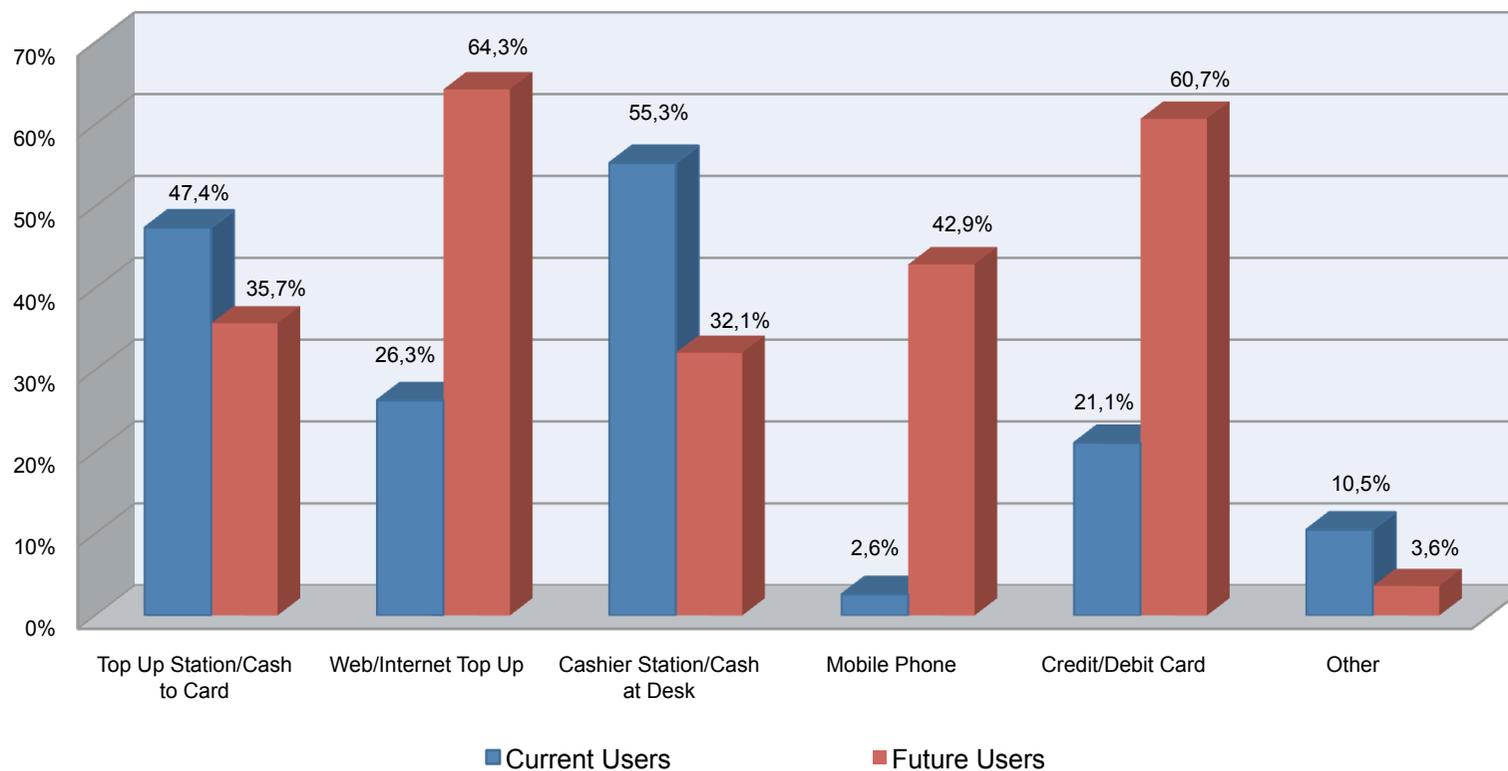
# Market Research – Key Findings

## ➢ Payment Systems

**Figure 3: Methods of Storing Value (Cash) on a Campus Card System**

## ➤ Value Load Options

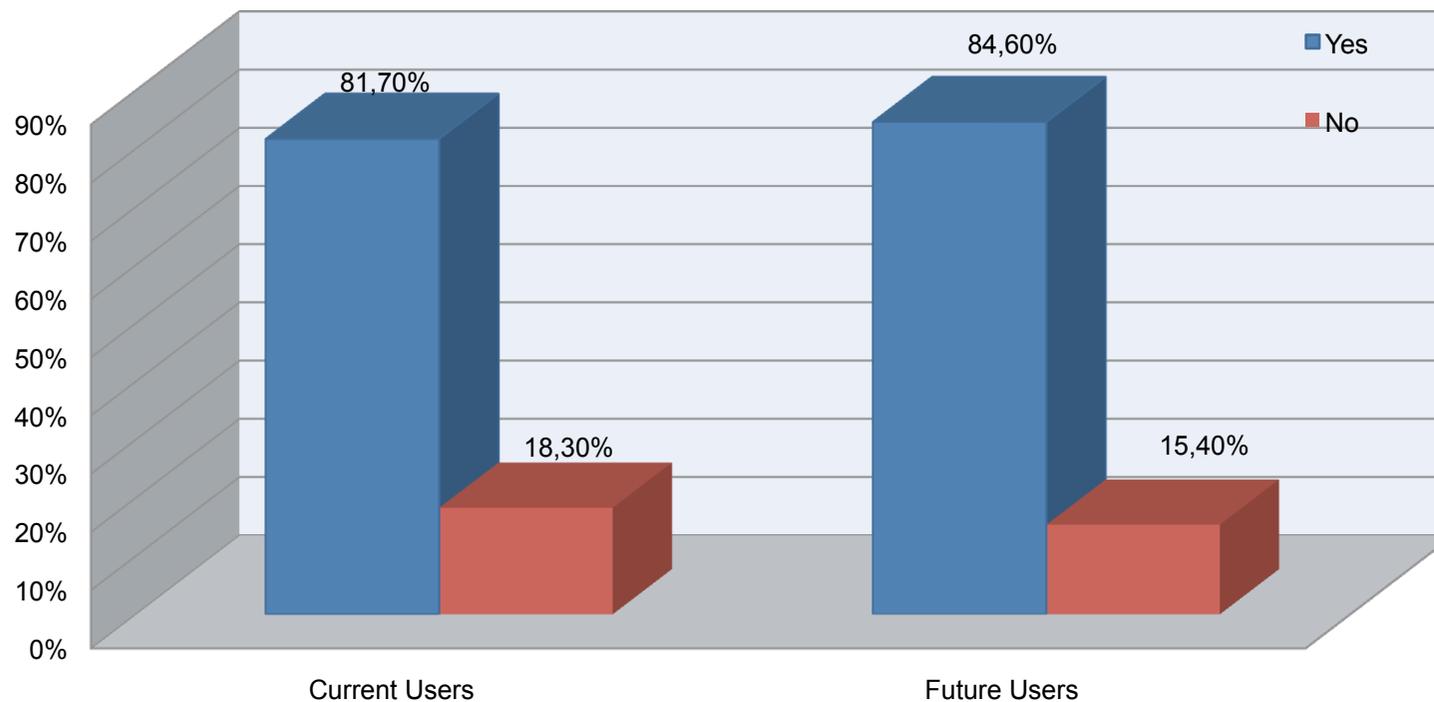**Figure 4: Methods used to add value/money to your Campus Card/Account**



Legend: Current Users (blue), Future Users (red)

| Method | Current Users | Future Users |
|---|---|---|
| Top Up Station/Cash to Card | 47,4% | 35,7% |
| Web/Internet Top Up | 26,3% | 64,3% |
| Cashier Station/Cash at Desk | 55,3% | 32,1% |
| Mobile Phone | 2,6% | 42,9% |
| Credit/Debit Card | 21,1% | 60,7% |
| Other | 10,5% | 3,6% |

# Market Research – Key Findings
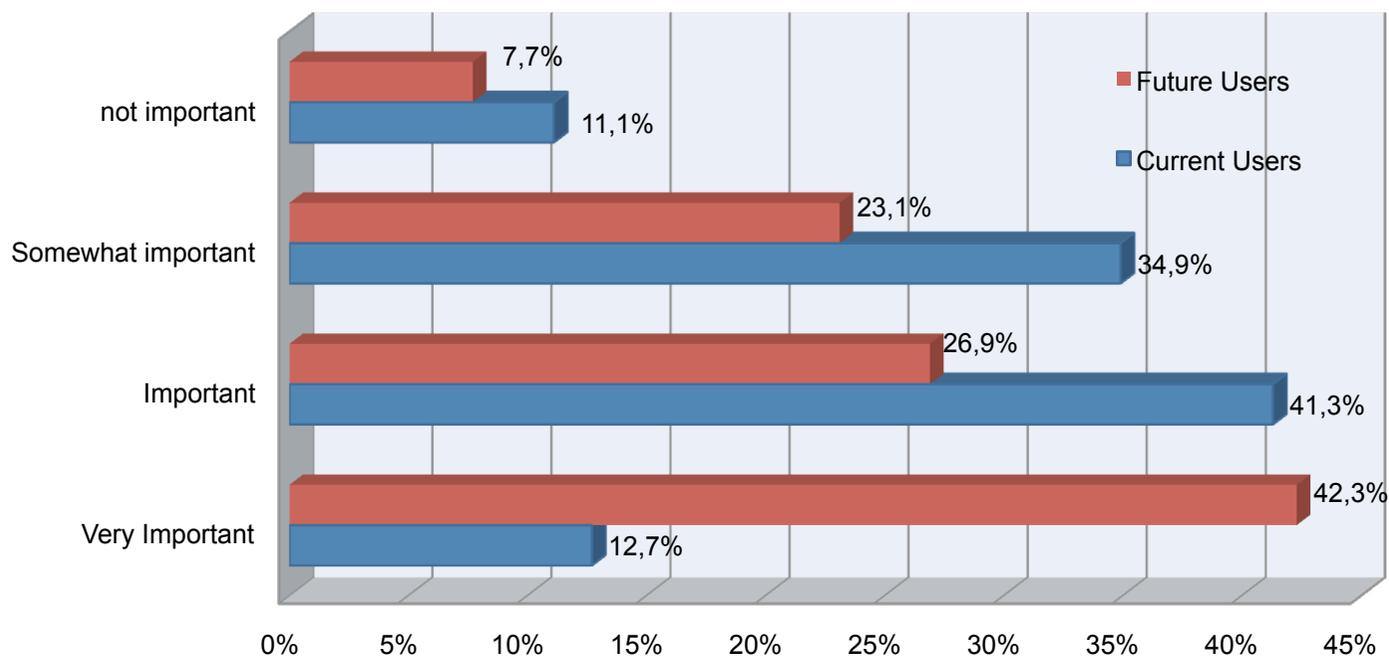
> **Market Potential for SME's**

**Figure 5: If there was a standard European Campus Card would you use it?**

# Market Research – Key Findings
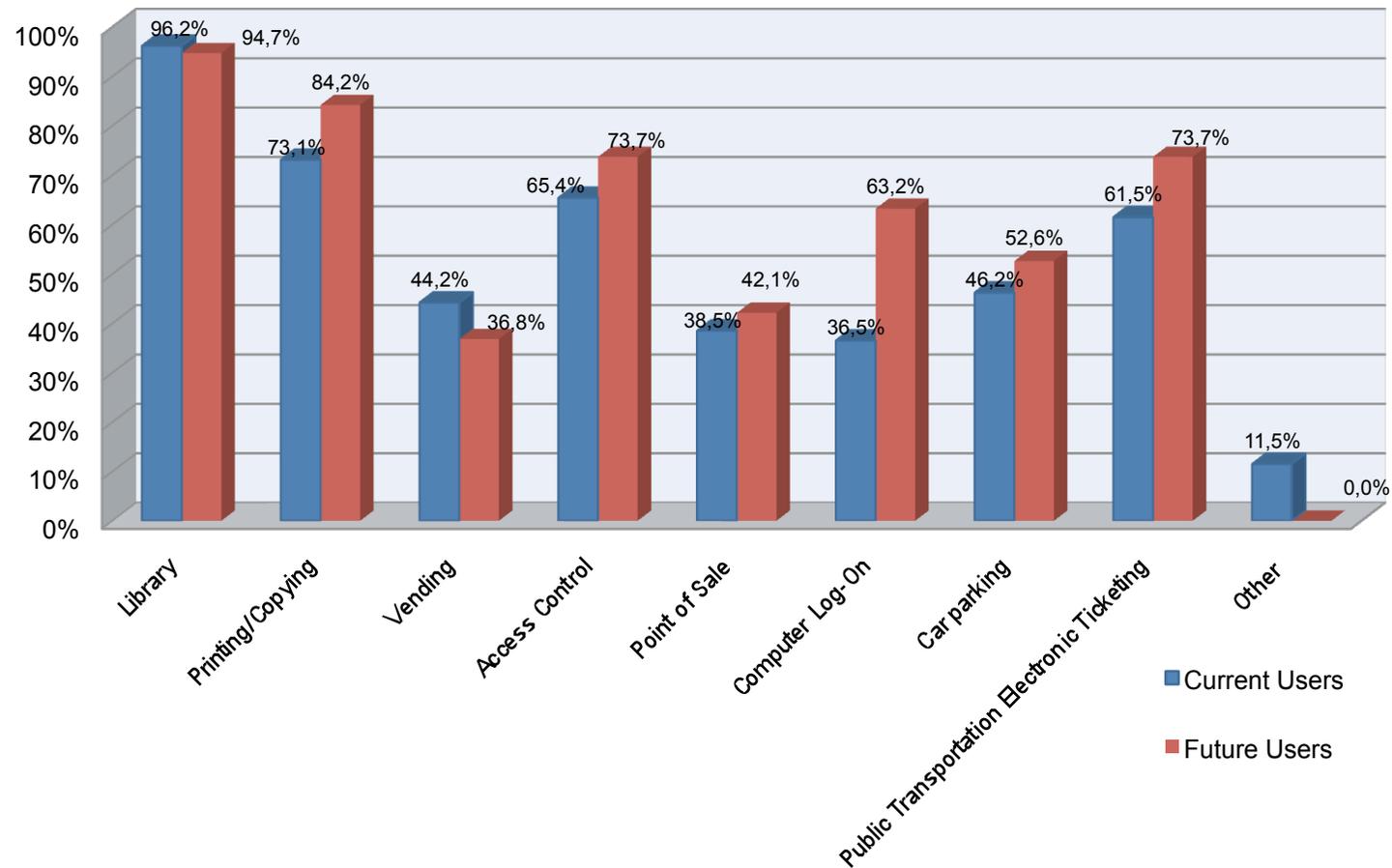
➢ **Interoperability & Mobility**

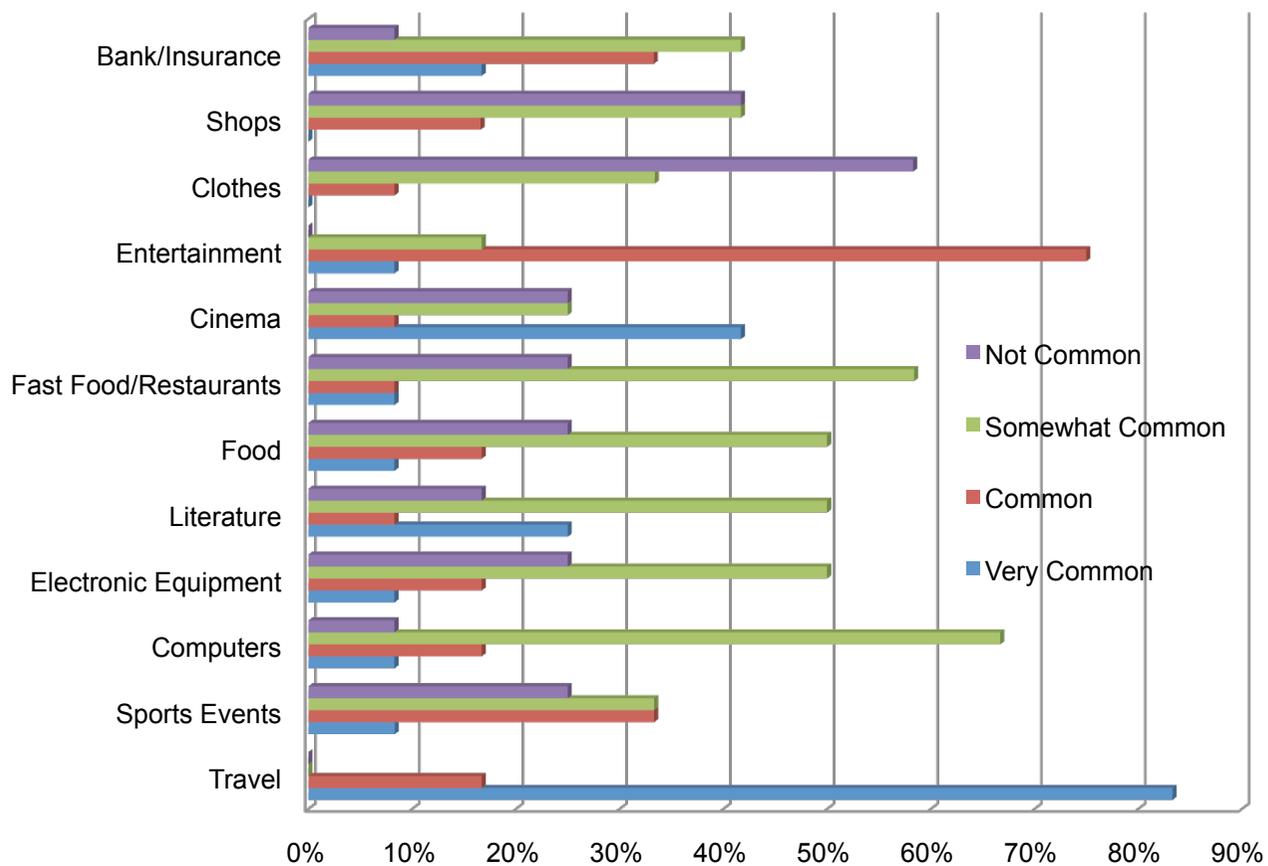**Figure 6: The Importance of Interoperability for Campus Cards**

## ➤ Interoperability & Mobility



**Figure 7: Services/facilities that should be available in other institutions**

➢ **Off-Campus Purchases & Student Concessions/Discounts**

**Figure 8: Common Student Discounts**

FP7 – European Education Connectivity Solution

# Summary of statistics

➢ 100 universities researched

➢ Contactless technology predominant. Mag stripe and bar code in decline

➢ Access control, library, ID-card and authentication killer applications

➢ Value(cash) on the card or in back office common service

➢ Off-campus purchase and student discounts important

➢ Interoperability valued by most. Library and printing/ photocopying followed by access control an d public transportation highest priority

➢ Over 80% of both current and future users would use a standard campus card system if available

➢ WP4 = Research & Development of 3 Core Modules

➢ Project Plan (Integration of RTD's work)

➢ Live Trials with Universities in Europe

➢ Delivery Date – June 2011