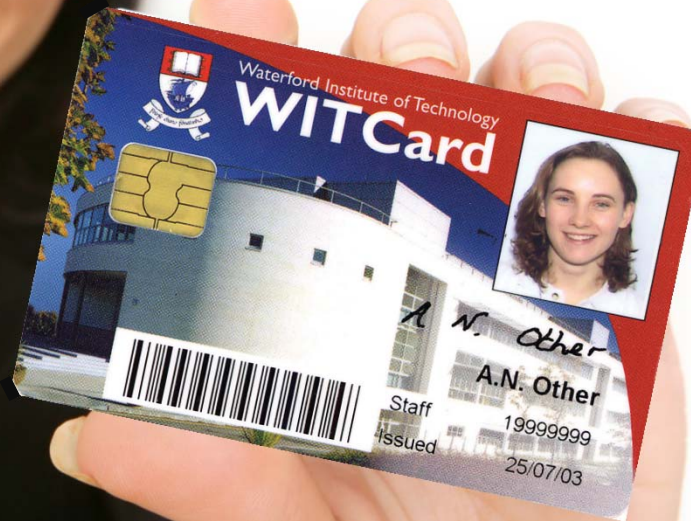


## *The European Campus eID System and the Benefits of a Campus Card System for your Campus*



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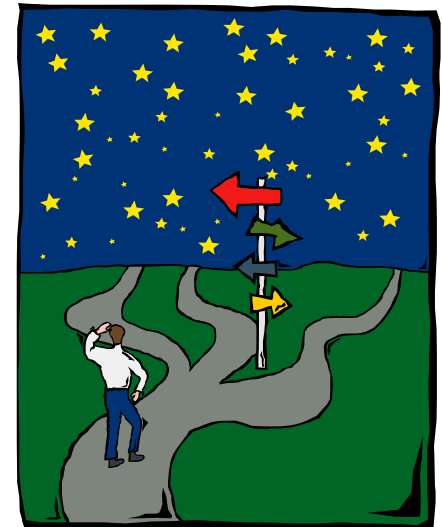
# Presentation Overview

- Review of Campus Card Systems – Current & Future
- The New WITCard System (EECS Project)
- Value Added Benefit of a Campus Card System
- Benefits of a Cashless System
- Cash Handling Health Risks
- The Future



# The Traditional Campus Card – Main Usage

- Identification – Photo ID
- Door Access
- Print & Copying Services
- Cashless Payments
- Library eligibility

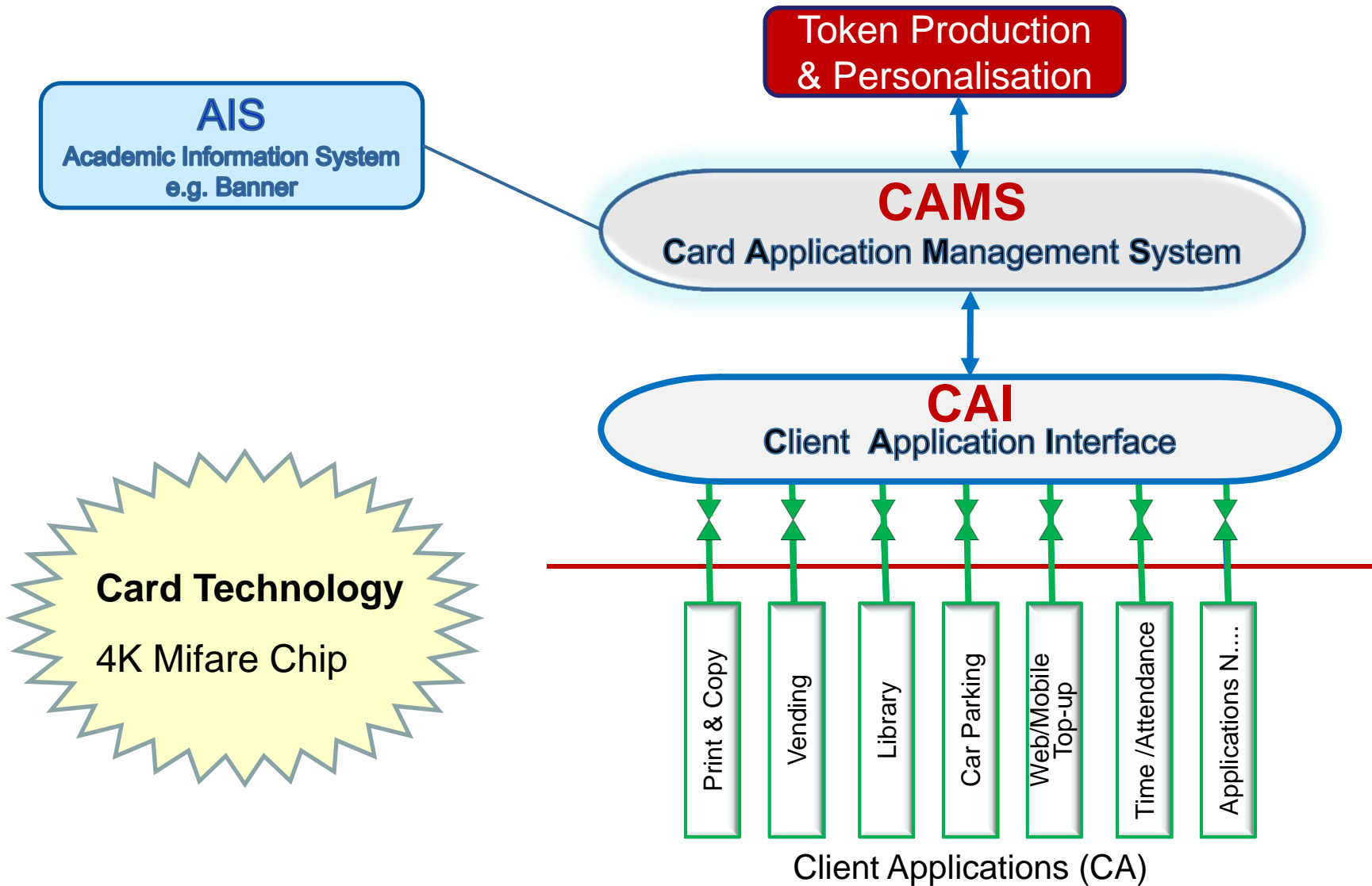


# The Current and Future Needs

- Secure ID Authentication
- Time & Attendance
- Bank Card
- Mobile Phone Top-up facility
- Cashless Payments & Self Service Vending Machines
- Access to Academic/Administration Services
- Loyalty/discounts & Sports membership schemes
- Car Parking



# The New WITCard System – 3 Core Modules



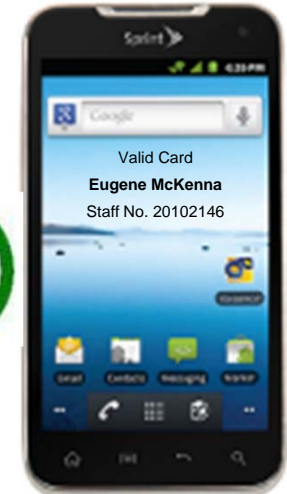
## ACCESS CONTROL

- Greater Level of Security
- Reduction in operation costs – key management.....
- High level accountability and management information
- Facility to allow or restrict access on a date or time basis
- Use of a single access management system for all campus needs



## HIGH LEVEL SECURE AUTHENTICATION

- Counterfeit issues eliminated
- Secure Authentication of the user – examinations
- Student Concessions -sporting events, travel .....
- Mobile user status confirmation



## CHANGING TRENDS IN PRINT AND COPYING REQUIREMENTS

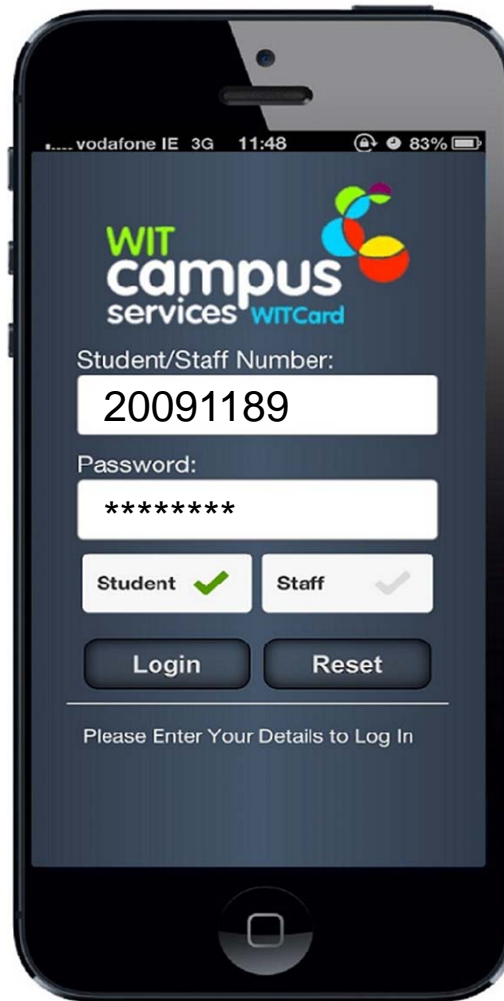
- Wireless printing access
  - now a basic requirement
- Printing (USB and Cloud Printing)
  - increasing requirement
- Traditional Printing Solutions (MF Devices)
  - increased requirements in Colour print & Scanning
- Printing Systems - valuable revenue generator





# Mobile Phone Top-Up App

- ✓ Smart Phone App
- ✓ Secure real-time access 24/7
- ✓ User Friendly
- ✓ FAST - Real-time top-up (15 to 20 Sec)
- ✓ Transparency/visibility

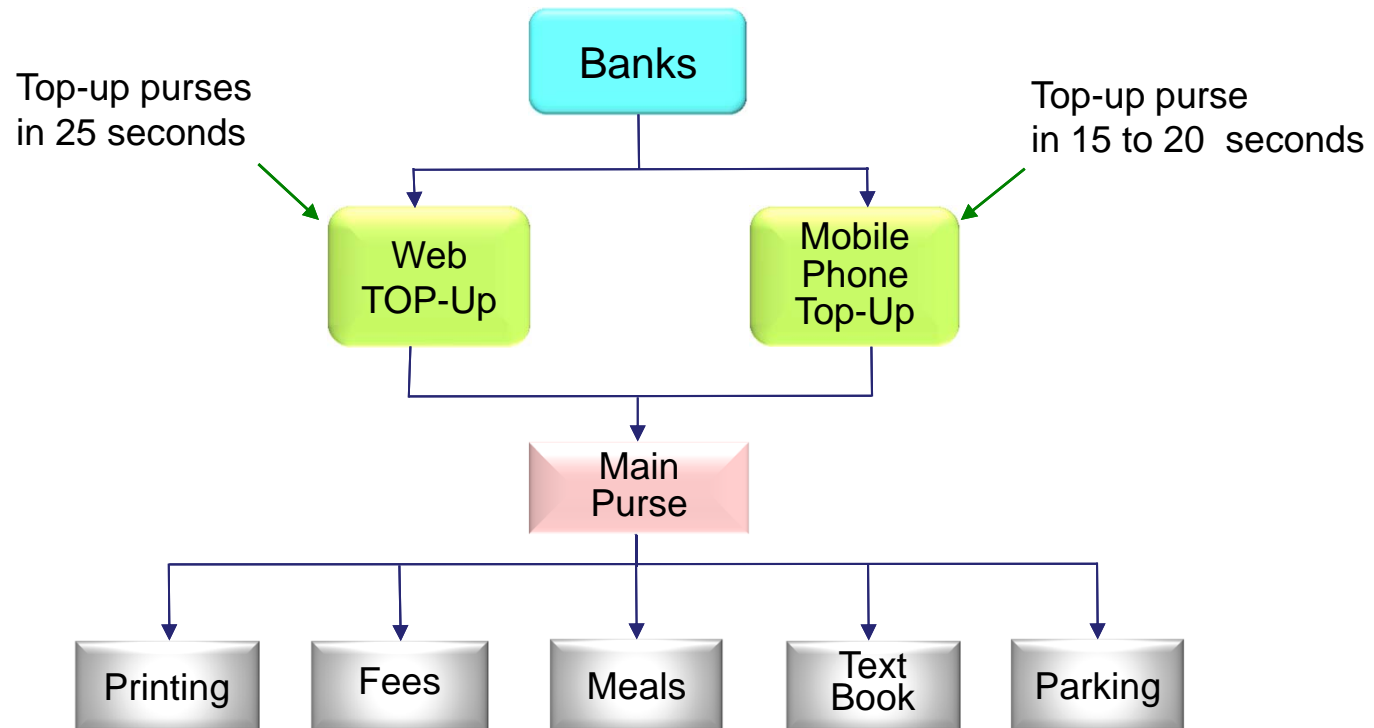


Login Screen



Home Screen

# Multiply E-Purses



# Campus Card & Debit Card Payment Combination

Campus Cards & Debit/Credit Cards are essential in a Cashless environment

## 1. Campus cards:

- most cost effective for both user and vendor
- no transaction charges for purchases
- high level of security
- use of multiple purses
- closed environment use only

## 2. Debit/Credit Cards:

- used by visitors and external persons to make purchases
- low level transaction can use the Tap & Go feature
- provides flexibility in a cashless environment
- transaction charges for purchases



# Survey/Research into Cash v Cashless

*Survey/Research was carried out at Waterford Institute of Technology in March 14*

## Findings:

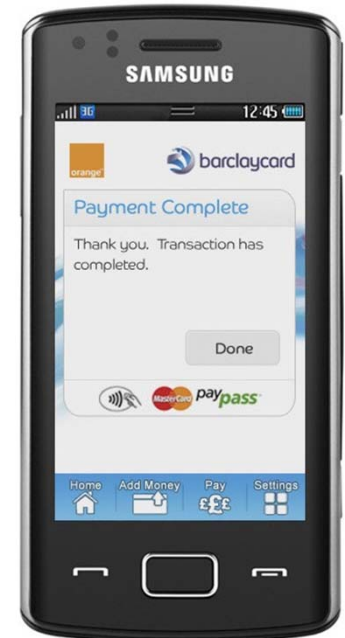
### ***Continuous queue payments at the POS***

- Cashless - the average time taken to complete the transaction = 11.01 sec.
- Cash - the average time taken to complete the transaction = 19.00 sec.
- Cashless throughput at the POS is 72.57% greater than Cash.
- 4 Cashless POS will provide a similar throughput to 7 Cash POS.

<http://youtu.be/GN5qmeObZo8>

# The Future

- Use of Multi Token – no dependence on a particular technology
- Mobile Phone E-purse top-up
- E Payments & Multiple Purses
- Debit & Credit Card Payments
- Secure ID Authentication
- Campus Card v Mobile Phone
- Future Proofing against Technology Changes



# Questions

