

Management of users at UNIL

- Who we are:
 - Centre informatique (Ci)
 - A service unit, not a research institute
- What we are doing:
 - Administrative services
 - Internet services (e-mail, web, ...)
 - Academic services
 - Scientific computing
 - Bibliographic databases of scientific publications
- Services are centralized
- Every person of UNIL is using at least one of our service

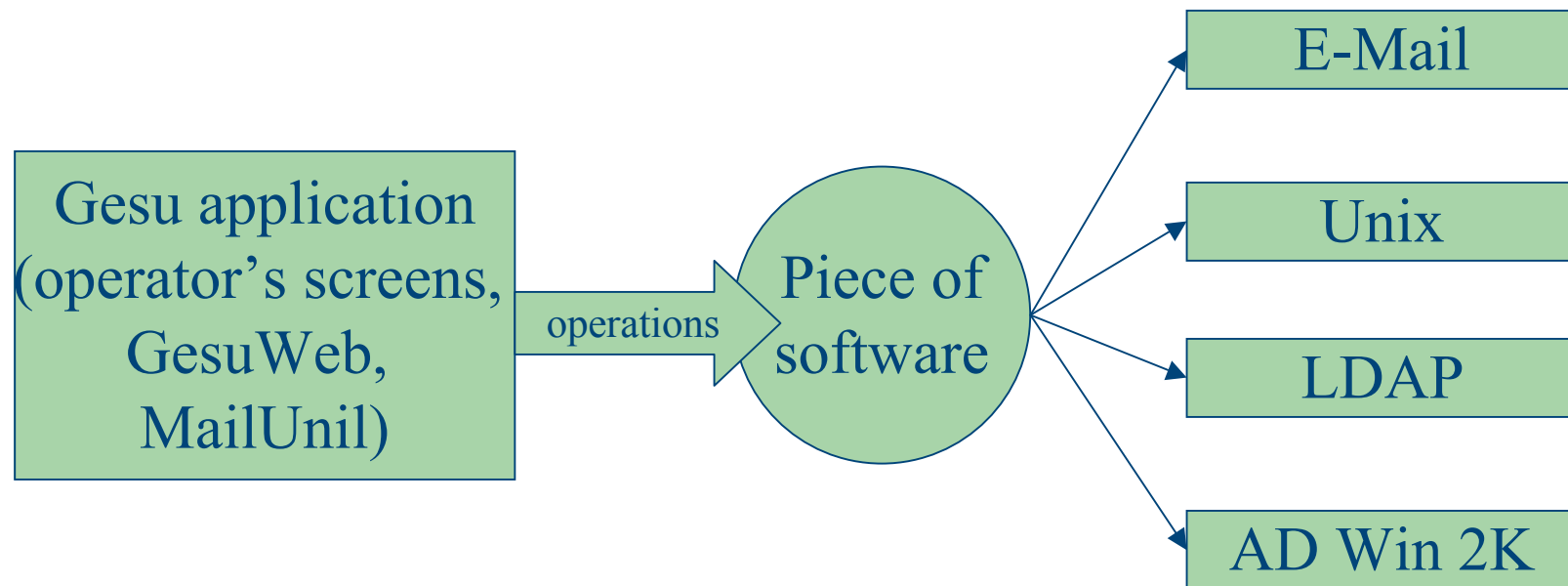
History

- Management of users: Filemaker application
 - Manually defined in VMS and Unix
 - Hundreds of users
- In 1992: GESU in production
 - Ingres application
 - Integrated with the HR and students database
 - Thousands of users

GESU Now

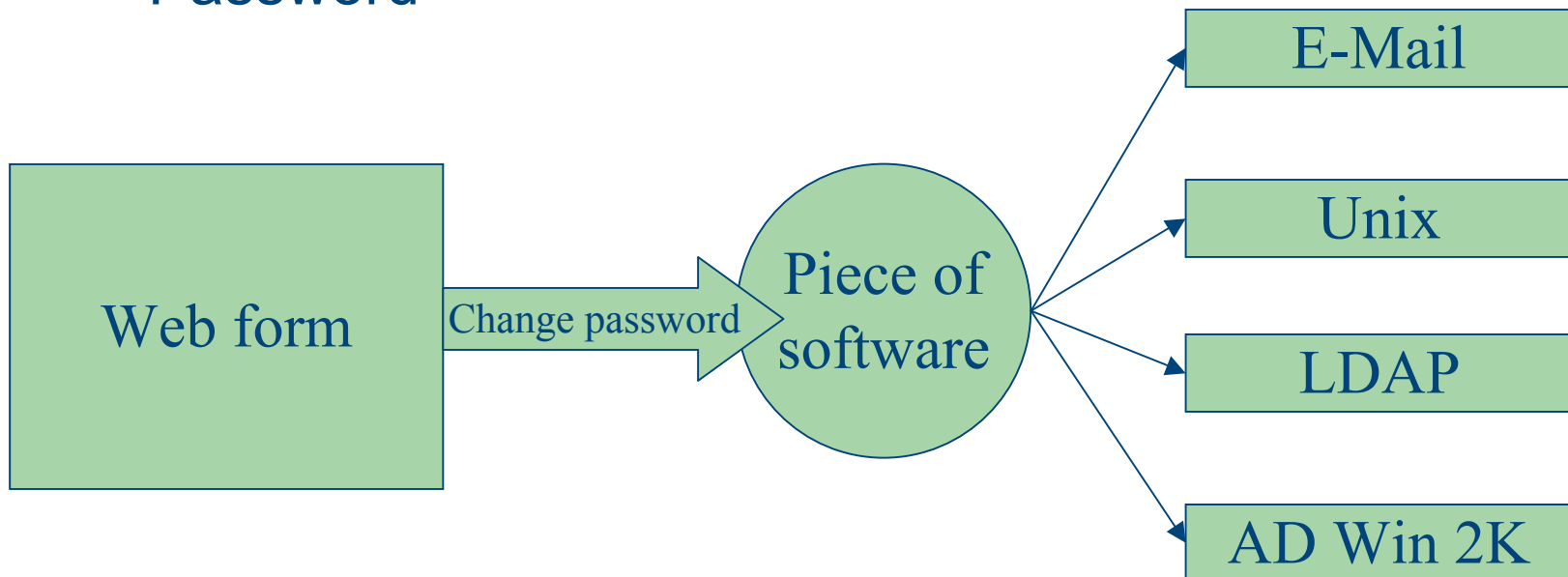
- Part of the administrative applications
 - Mixture of Ingres, Informix, (Oracle and SAP)
- Used by a non-technical operator
 - Screens to do operations
 - Create, delete, expire users
 - Give, remove access to services for users
- Automatisation of some tasks
 - GesuWeb: access to basic services for employees
 - MailUnil: access to basic services for students

Gesu



Authentication of a user

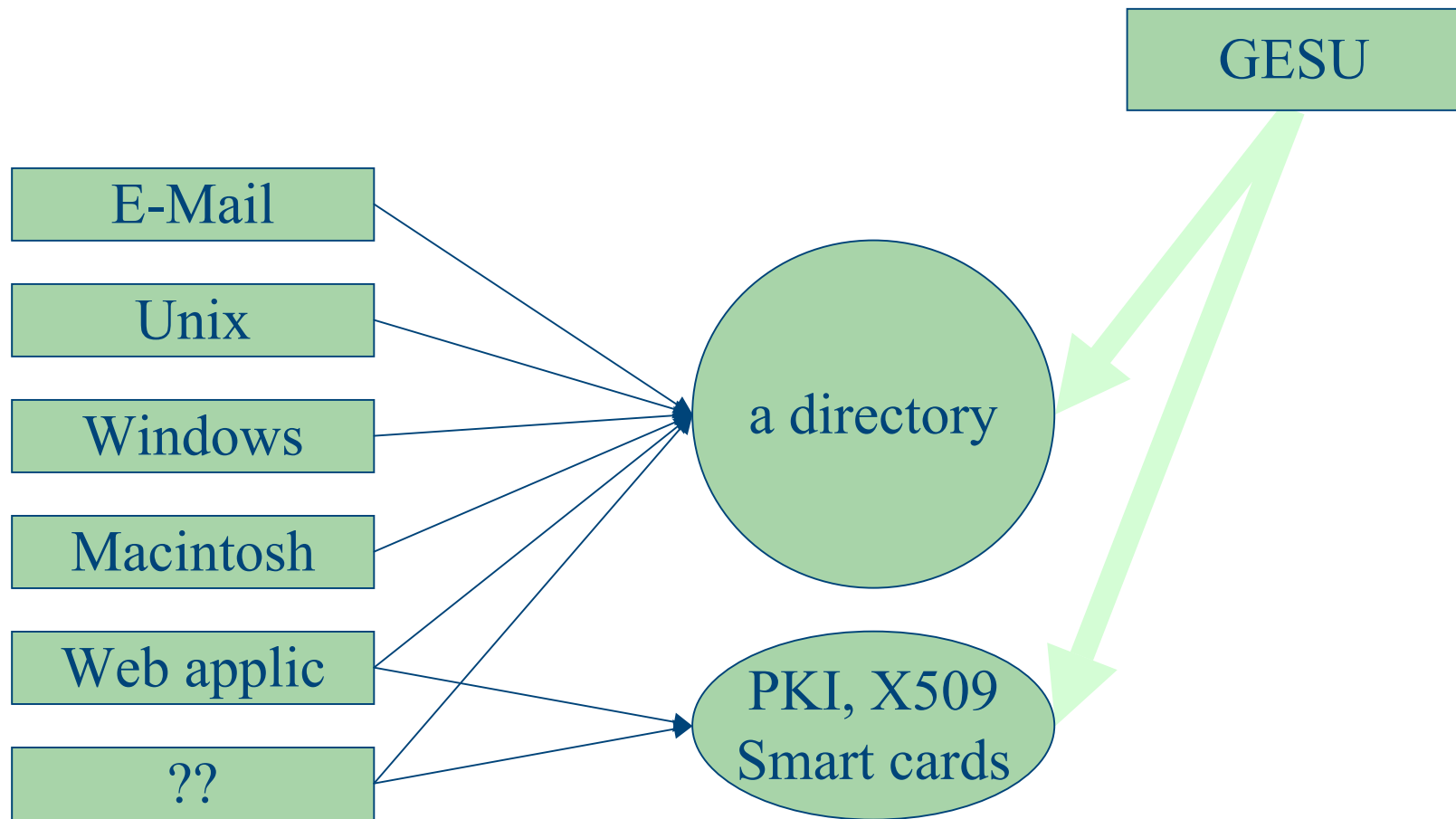
- Every person at UNIL has a
 - Username
 - Password



Authorization

- E-mail -> user database in e-mail system
- Unix -> /etc/passwd
- Web application -> LDAP
 - Authentication in LDAP
 - Authorization in Informix
- Protecting web pages
 - Authentication in LDAP
 - Authorization: groups in LDAP
- Win 2K -> Active Directory

Future of authentication



Future of authorization

- Based on groups
 - Managed in GESU
 - Exported to the directory
- Two types of groups:
 - Organisation groups: containing users
 - Role and function of users determine the membership
 - Service groups: containing organisation groups
 - Groups that are specified in ACL of objects
- Group membership could be used for
 - Attribute certificates
 - Kerberos tickets

Other things ...

- A LDAP – JDBC was developed
 - A diploma work
- Include the Macintosh platform
 - New Mac OS X ??
- Use of Swisskey Corporate ID
 - Université de Lausanne
- « Smart card » project at UNIL
 - Try to push for a crypto card
- Give a single and simple view to the user
 - Setup a portal
- Security