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ZucchettiGroup Enterprise Wide Solutions

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Biometric Authentication Security and Usability

Criminal investigators have used fingerprints to identify suspects

loss of dignity and privacy.

"Big Brother" surveillance.

Many access-control systems use identification systems based on biometrics

An increasing demand for safety and security

Traditionally, based on

* something that the user knows

* something that the user has

But,traditional methods

)

do not authenticate the USER as such

are based on properties that can be forgotten, disclosed, lost or stolen.

main advantage

reduces the risk of information (passwords) or tokens (keys or chip cards) being stolen or passed on to unauthorized people...

- First measurement (acquisition)
- Creation of master characteristics
- Storage of master characteristics
 - -Card
 - Database in a server
 - -Workstation
 - -Authentication terminal

- Acquisition
- Creation of new characteristics
- Comparison
- Decision

- The primary advantage of biometric authentication methods over other methods of user authentication is that they really do what they should,
 - i.e., they authenticate the user!!!

Disadvantages of biometric authentication

- false rejection <1%
- False acceptance <1‰
- biometric sensors limited lifetime
- User afraid
- Cultural problem

Identification

"one-to-many" match

Authentication

- "one-to-one" search
- Not necessarily in a database
- Stored sample

LEADER IN ICT

An undisputed landmark in the ICT sector

The most important Italian player

over **50.000 Clients**

More than **45.000** installations

More than **1.600 employees**

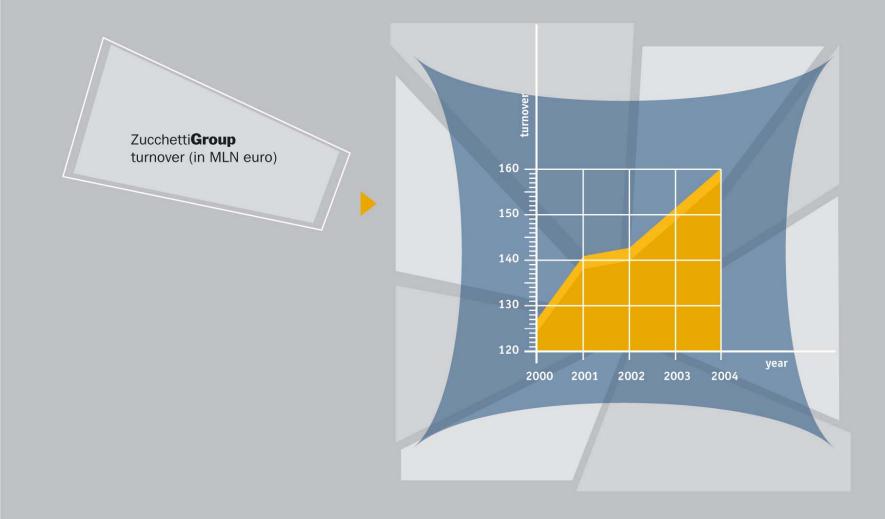
over **1.000 Partners**in Italy and abroad

over 800 engineers

daily involved in research and development

over **14.000** terminals

for Time & Attendance - Access Control delivered each year



A strong presence on foreign markets ZUCCHETTI HUNGARIA

ZUCCHETTI USA ZUCCHETTI ROMANIA

and its international network of over 100 partners worldwide



STATE- OF-THE- ART TECHNOLOGY

Biometric Technology

Web based technology

Single and integrated database

Multiplatform

Workflow



Datawarehouse

XFEL Budapest 19-dec-2006 **Innovation Technology** in Hungary www.ith.net **Thank you!**

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