



Bringing services closer to the citizen using eID

Bart SIJNAVE

Studiedag Identity Management
Brussel, March 23, 2005

in the 'e-world' of today and tomorrow, strong authentication is the key to success

learn from others

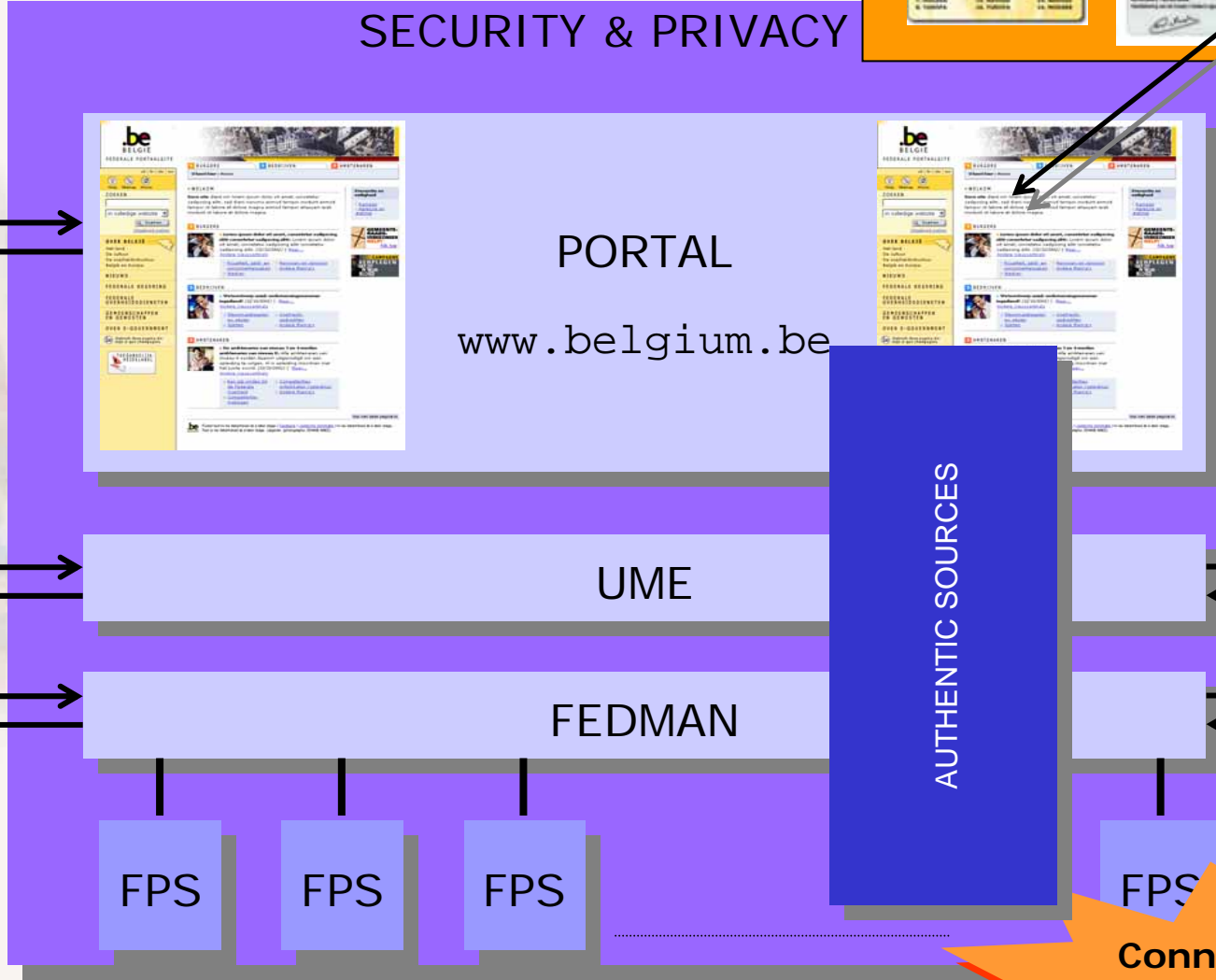
privacy

solid technology

strong basis

- e-commerce problem : lack of strong authentication : anyone can pretend being anyone
- within e-government solution for strong authentication crucial as government data is highly critical and should not fall into the wrong hands
- strongest form of identification world-wide is a smart-card based identification
- Belgium has a long history of identity cards : only the introduction of the chip was a real challenge

USER MGT



Connected government



eID - basics

A new ID-card with the format of a bank card and a powerful chip



Proof of identity

- ▶ To give Belgian citizens an electronic identity card enabling them to **authenticate** themselves towards diverse applications and to put **digital signatures**

Signature tool



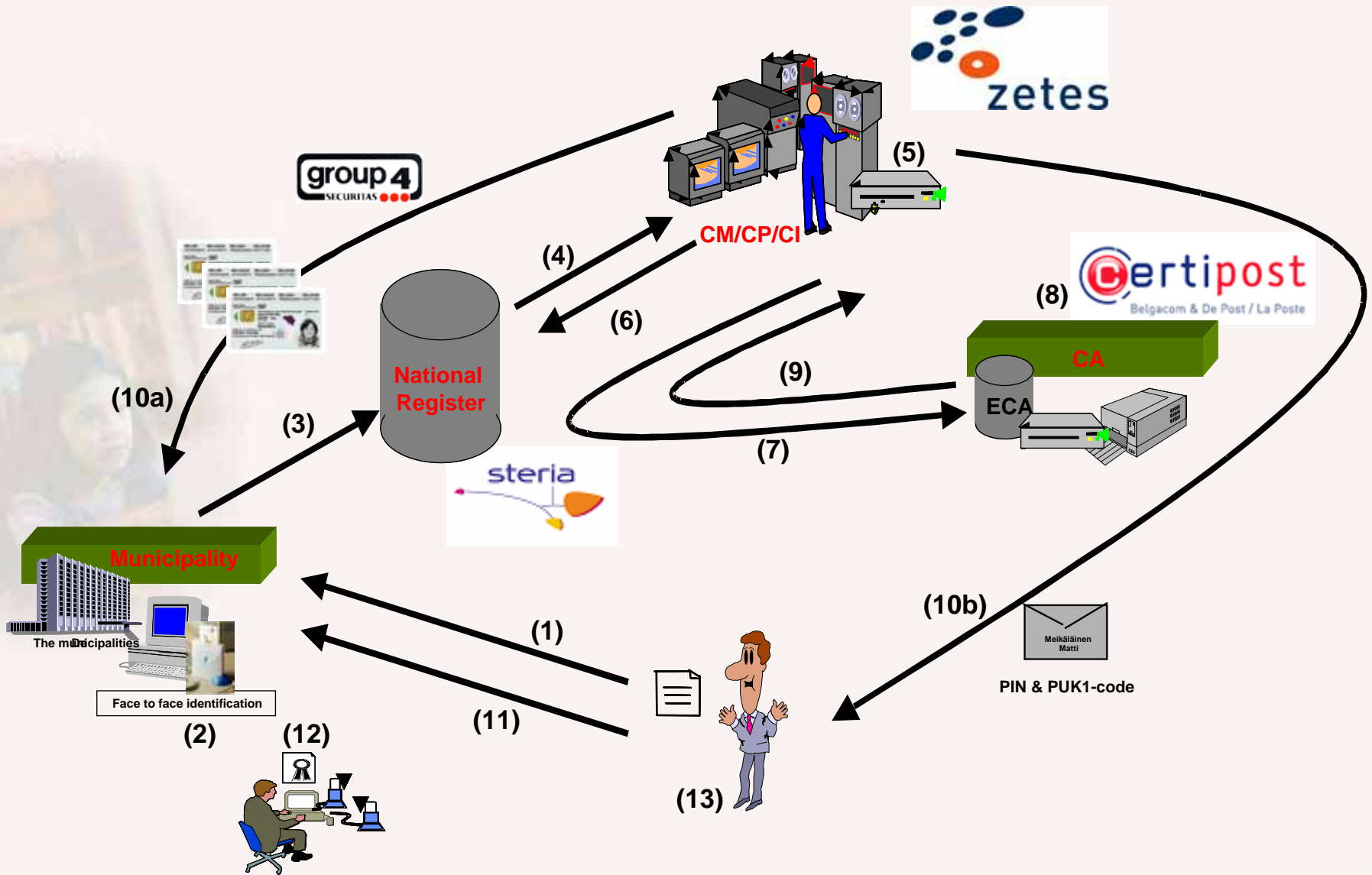
**Visual
identification**
of the holder

- ▶ From a **visual** point of view the same information will be visible as on the current identity card :
 - ◆ the name
 - ◆ the first two Christian names
 - ◆ the first letter of the third Christian name
 - ◆ the nationality
 - ◆ the birth place and date
 - ◆ the sex
 - ◆ the place of delivery of the card
 - ◆ the begin and end data of the validity of the card
 - ◆ the denomination and number of the card
 - ◆ the photo of the holder
 - ◆ the signature of the holder
 - ◆ the identification number of the National Register
- ▶ Identical functionality to current identity card



**Electronic
identification**
of the holder

- ▶ From an **electronic** point of view the chip will contain the same information as printed on the card, filled up with:
 - ◆ the identity and signature keys
 - ◆ the identity and signature certificates
 - ◆ the accredited certification service furnisher
 - ◆ information necessary for authentication of the card and securization of the electronic data
 - ◆ the main residence of the holder
- ▶ (Currently) no encryption certificates
- ▶ No biometric data (yet)
- ▶ No electronic purse
- ▶ No storage of other data



eID – chip

eID, welcome to the e-world !

PKI

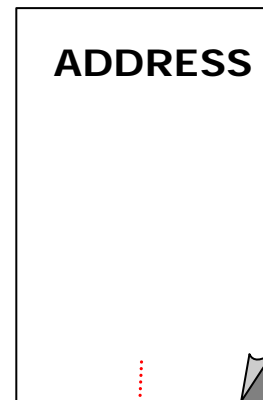
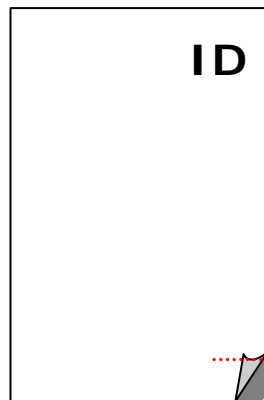


authentication



digital signature

IDENTITY





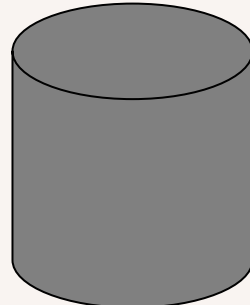
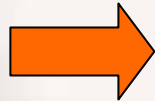
data capture

authentication

digital signature



eID as a secured means to efficiently capture error-free information



time-consuming

inefficient

error-prone

fast

efficient

error-free



data capture

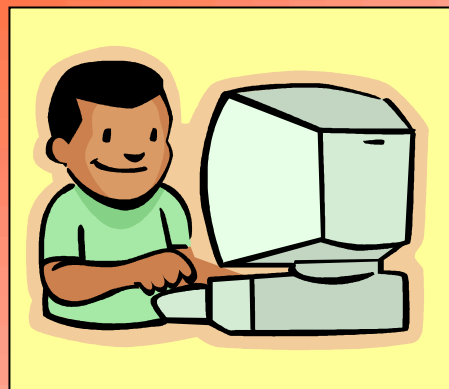
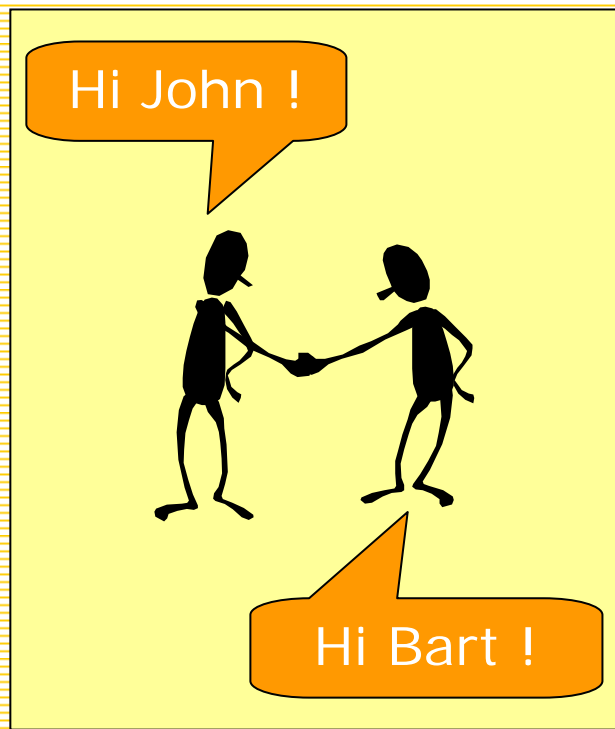
authentication

digital signature

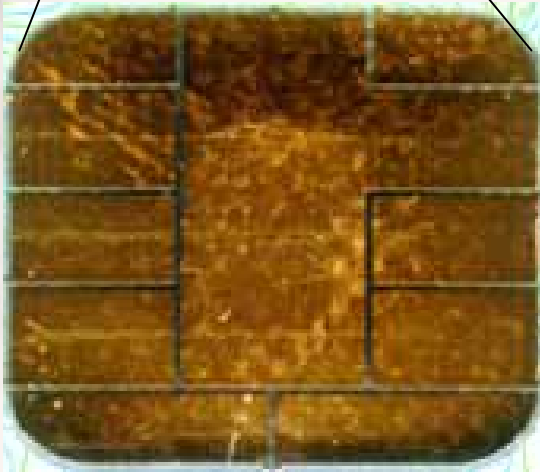
*eID as a means to safe and trustworthy
on-line authentication*

physical world

on-line world



...

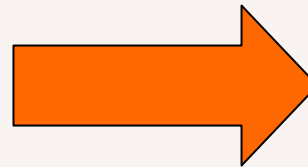


data capture

authentication

digital signature

eID as a means to also automate the last step in the chain : digitally signing of documents

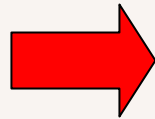


Federal government best practice :

authentication

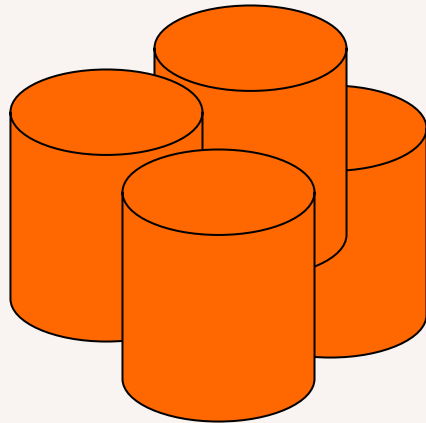


identity

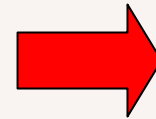


+

attribufication



attributes

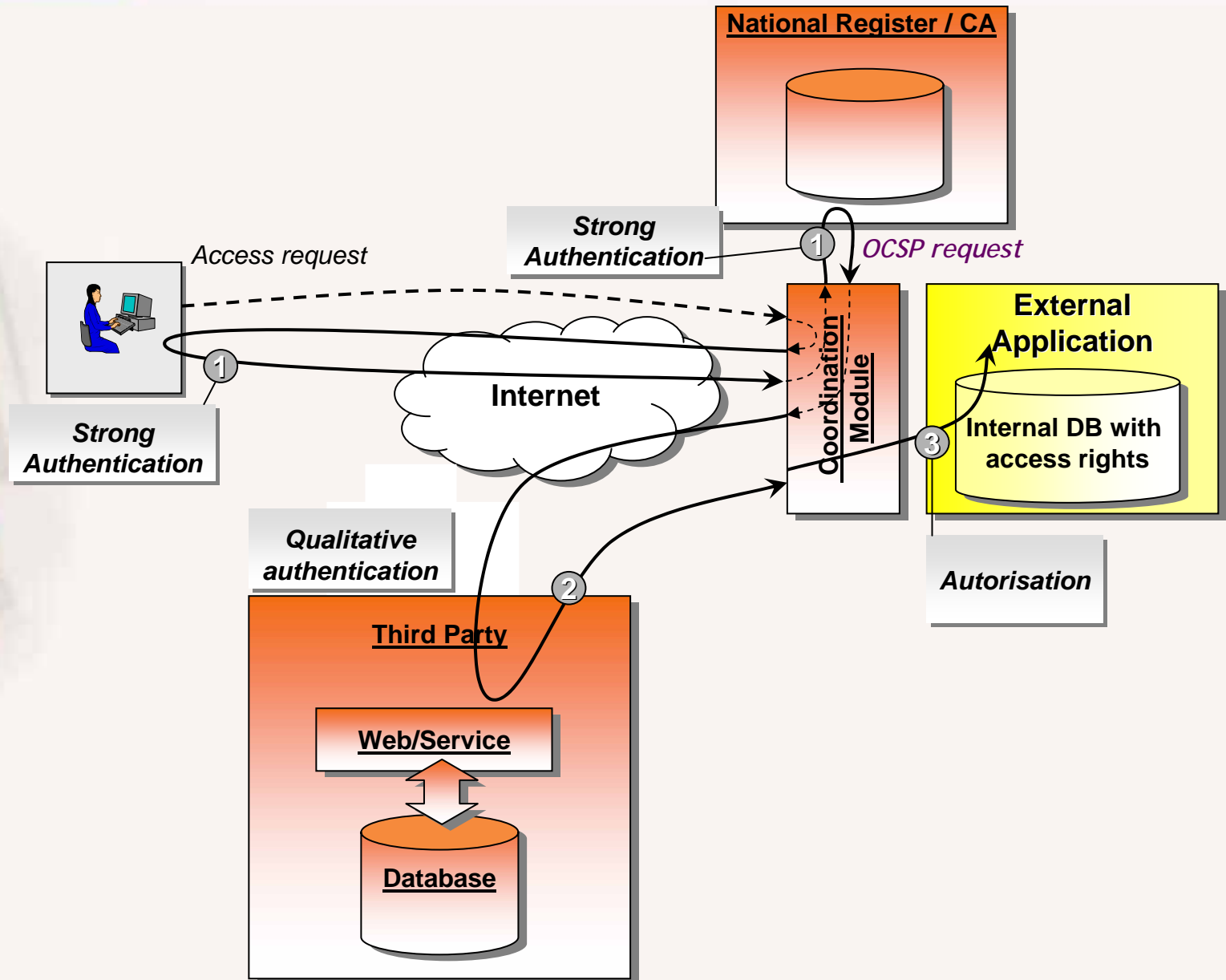


=

autorisation



profile(s)



eID - toolkits

Let's make use of the power of eID !

▶ Two toolkits are under development :

- ✓ GUI + PKCS#11 libraries : reading, printing, validating and visualising the contents of the eID chip
- ✓ authentication proxy : easy authentication on multiple platforms

RELEASED

▶ Purpose is to hide internal card changes

▶ Labeling should be straightforward if applications use toolkits

▶ Both toolkits are free of charge

▶ Distribution through federal portal

(<http://www.belgium.be/fedict> → Projecten → eID)



Identity Card
_ □ ×


Identiteit | Certificaten | Kaart & PIN | Opties



BELGIË
IDENTITEITSKAART

BELGIQUE
CARTE D'IDENTITE

BELGIEN
PERSONALAUSWEIS

BELGIUM
IDENTITY CARD



1 Identiteit

Naam

Voornamen

Geboorteplaats	Geboortedatum	Geslacht	Nationaliteit
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Title Nationaal Nummer

Kaart Info

Chip Nummer

Kaart Nummer

Geldig Van <input type="text"/>	Tot <input type="text"/>
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Uitreikingsgemeente

2 Adres

Straat



Postcode <input type="text"/>	Naam <input type="text"/>	Land <input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Speciale Status


Witte Stok

Gele Stok

Minderjarigheid


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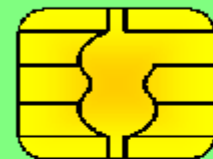


Identity Card
_ □ ×

Identiteit | Certificaten | Kaart & PIN | Opties

BELGIË IDENTITEITSKAART	BELGIQUE CARTE D'IDENTITE	BELGIEN PERSONALAUSWEIS	BELGIUM IDENTITY CARD
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Identiteit

Naam
SPECIMEN

Voornamen
Alice Geldigekaart0783 A

Geboorteplaats	Geboortedatum	Geslacht	Nationaliteit
Hamont-Achel	01/01/1970	F	be
Title		Nationaal Nummer	
		71.71.51-000.70	

Kaart Info

Chip Nummer
534C494E336600296CFF232CF6080C1

Kaart Nummer
000.0000783.07

Geldig Van	Tot
26/03/2004	26/03/2009

Uitreikingsgemeente
ZETES

Adres

Straat
Meirplaats 1 bus 1



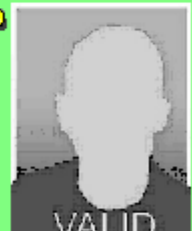
Postcode	Naam	Land
2000	Antwerpen	be

Speciale Status

Witte Stok

Gele Stok

Minderjarigheid

Gereed

```
C:\eID\Debug\toolkit.exe

WELCOME to the FEDICT eID TOOLKIT.
Your card is currently being read.
-----

=== Get Identity Data ===
Card Number      : 000000003838
Chip Number     : 534C494E336600296CFF232CF6080F28
Validity        : 20031021 - 20081021
Delivery Municipality : Certipost Specimen
National Number : 71715100070
Name            : SPECIMEN
First name 1    : Alice Geldigekaart0038
First name 2    :
First name 3    : A
Nationality     : be
Birthplace      : Hamont-Achel
Birthdate       : 1971AN1
Gender          : F
Noble Condition :
Document Type   : 1
Special Status: Whitecane: FALSE, Yellowcane: FALSE, Extendedminority: FALSE

=== Get Address ===
Street          : Meirplaats 1 bus 1
Number         :
Box            :
Zip            : 2000
Municipality    : Antwerpen
Country        :

=== Version ===
Serial Number   : 534C494E336600296CFF232CF6080F28
ComponentCode   : A5
OSNumber        : 03
OSVersion       : 01
SoftmaskNumber  : 01
SoftmaskVersion : 01
AppletVersion   : 01
GlobalOSVersion : 1
AppletInterfaceVersion : 00
PKCS1Support    : 01
KeyExchangeVersion : 01
ApplicationLifeCycle : 0F
GraphPerso      : 00
ElecPerso       : 00
ElecPersoInterface : 00
```

eID - applications

Only the developers' creativity will limit the usage of the eID card.

Federal applications :

- online tax declaration

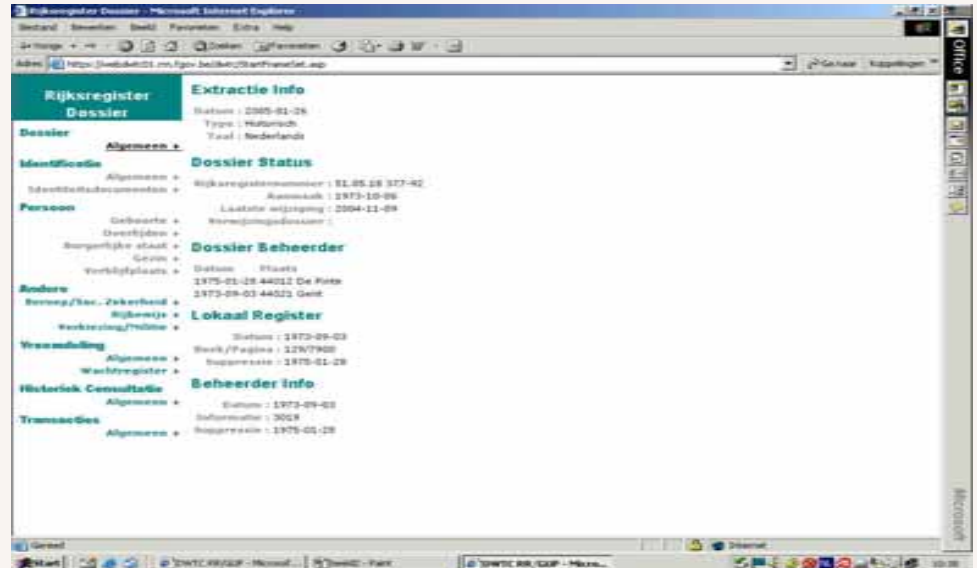
www.faxonweb.be

- online consultation of the National Registry file

www.mijndossier.rrn.fgov.be

- DIV

low
frequency
usage



Applications at municipality level:

- ✓ marriage 
- ✓ house
- ✓ kids
- ✓ school
- ✓ library
- ✓ swimming pool
- ✓ container parks
- ✓ ...



Dienst bevolking

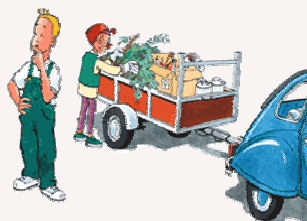
- [Aangifte beroepswijziging](#)
- [Aanvraag uittreksel op naam van de aanvrager](#)
- [Aanvraag attest laatste wilsbeschikking](#)
- [Aangifte adreswijziging](#)
- [Aanvraag uittreksel van gezinssamenstelling](#)

Burgerlijke stand

- [Aanvraag documenten ivm huwelijk](#)
- [Aanvraag documenten ivm geboorte](#)
- [Aanvraag documenten ivm nationaliteit](#)
- [Aanvraag documenten ivm echtscheiding](#)
- [Aanvraag documenten ivm erkenningen](#)
- [Aanvraag documenten ivm adopties](#)

- The ultimate goal : eID is daily used

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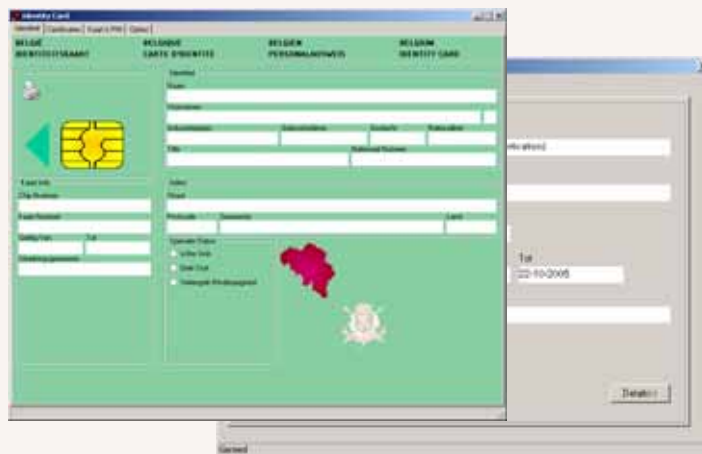
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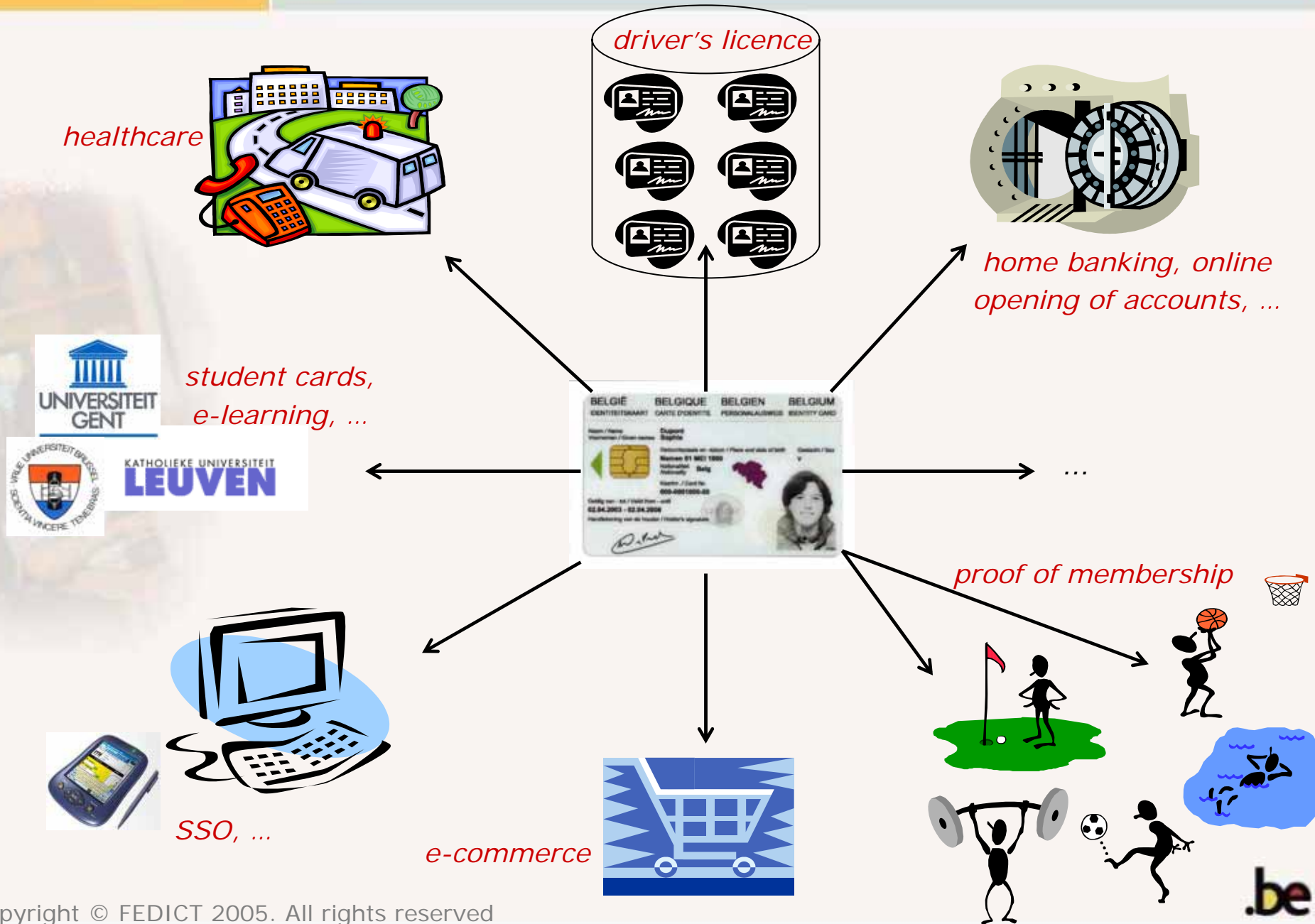
- Federal support :

labeling

toolkits

card readers





Q2 2003

Q1 2004

Q2 2004

Q3 2004

Q4 2004

Q1 2005

Q2 2005

20/03

23/03

D
E
C
I
S
I
O
N

Pilot phase
Target groups
Evaluation
pilot phase

Negotiations

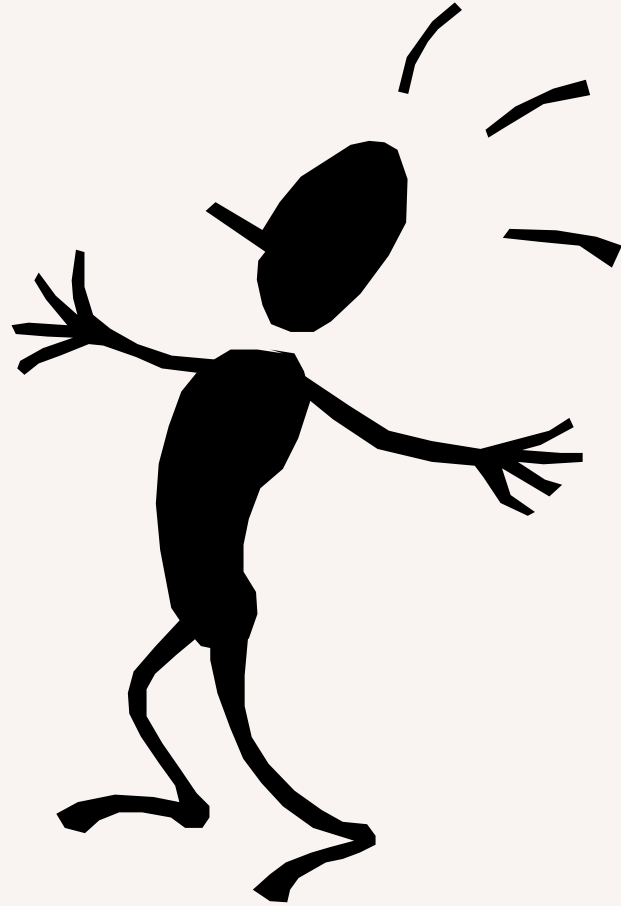
Installation in
municipalities

Gradual roll-out eID

Status d.d. 01/02/05 :

- 99% of municipalities installed
- 99% of municipalities trained
- 99% of municipalities switched

Continuous advise from and support to enterprises, citizens and authorities



Th@nk you !

For more information feel free to visit

www.belgium.be/fedict