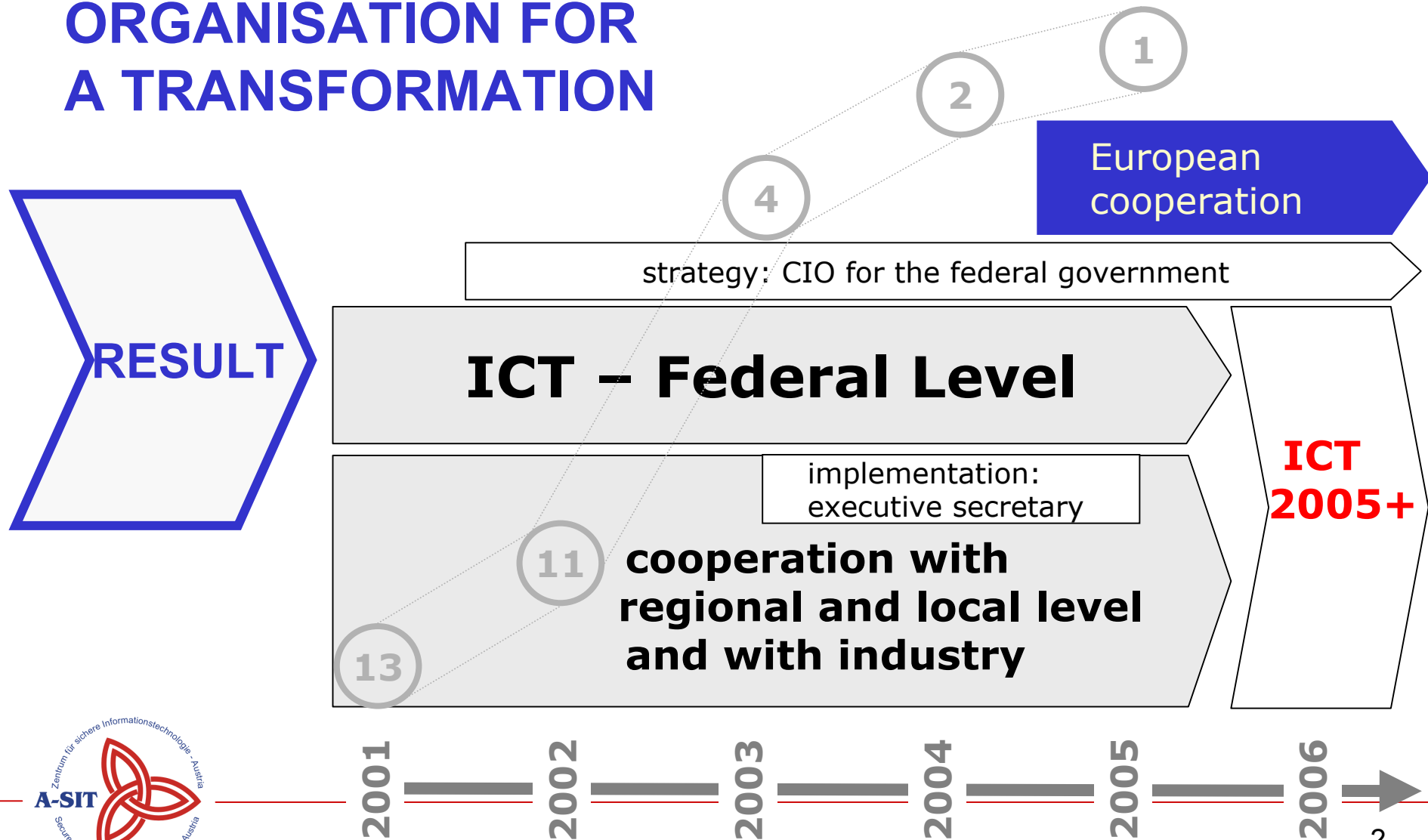


eID in Austria

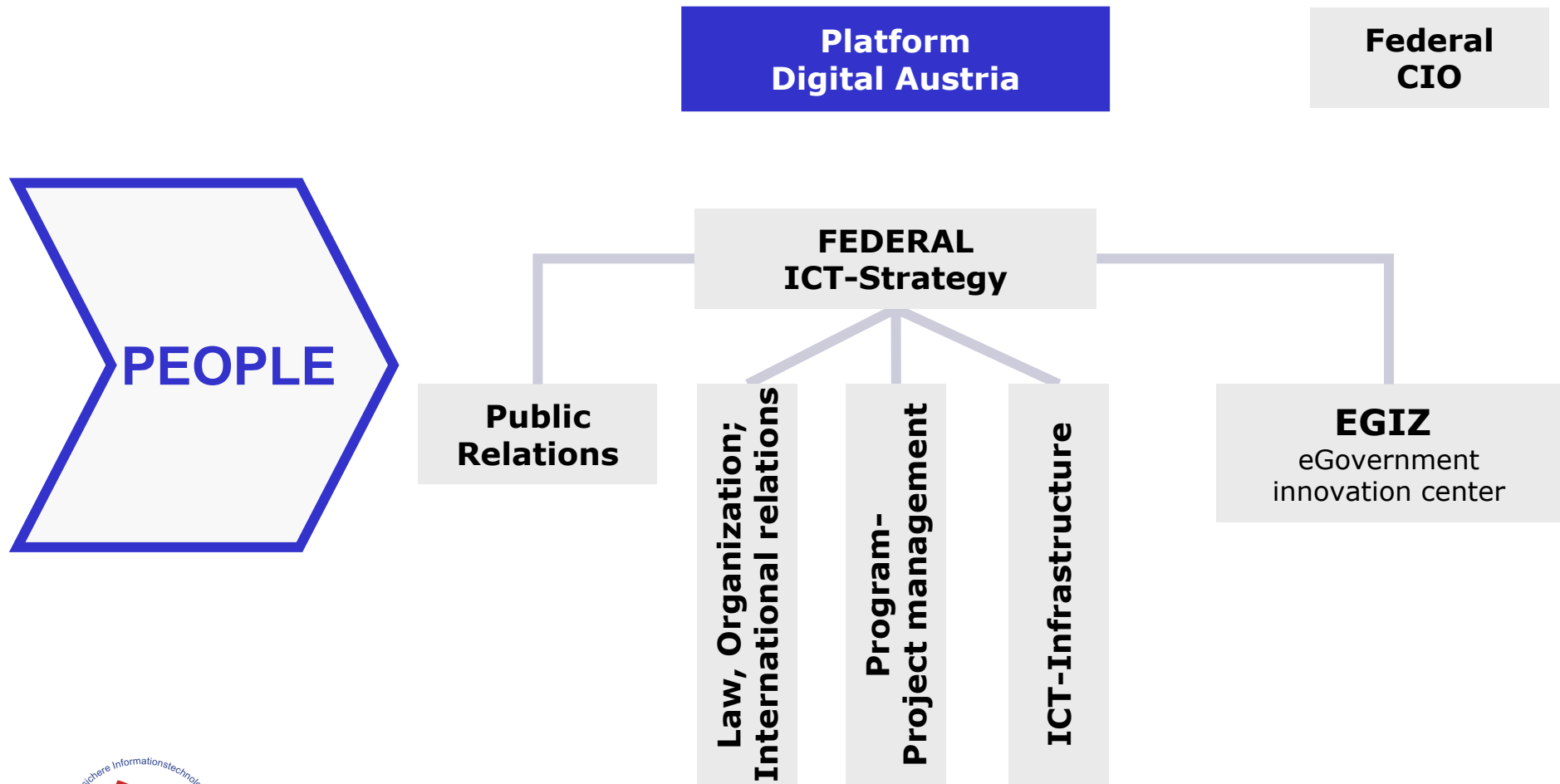
THE CITIZEN CARD

Adaptive Organization for a Change

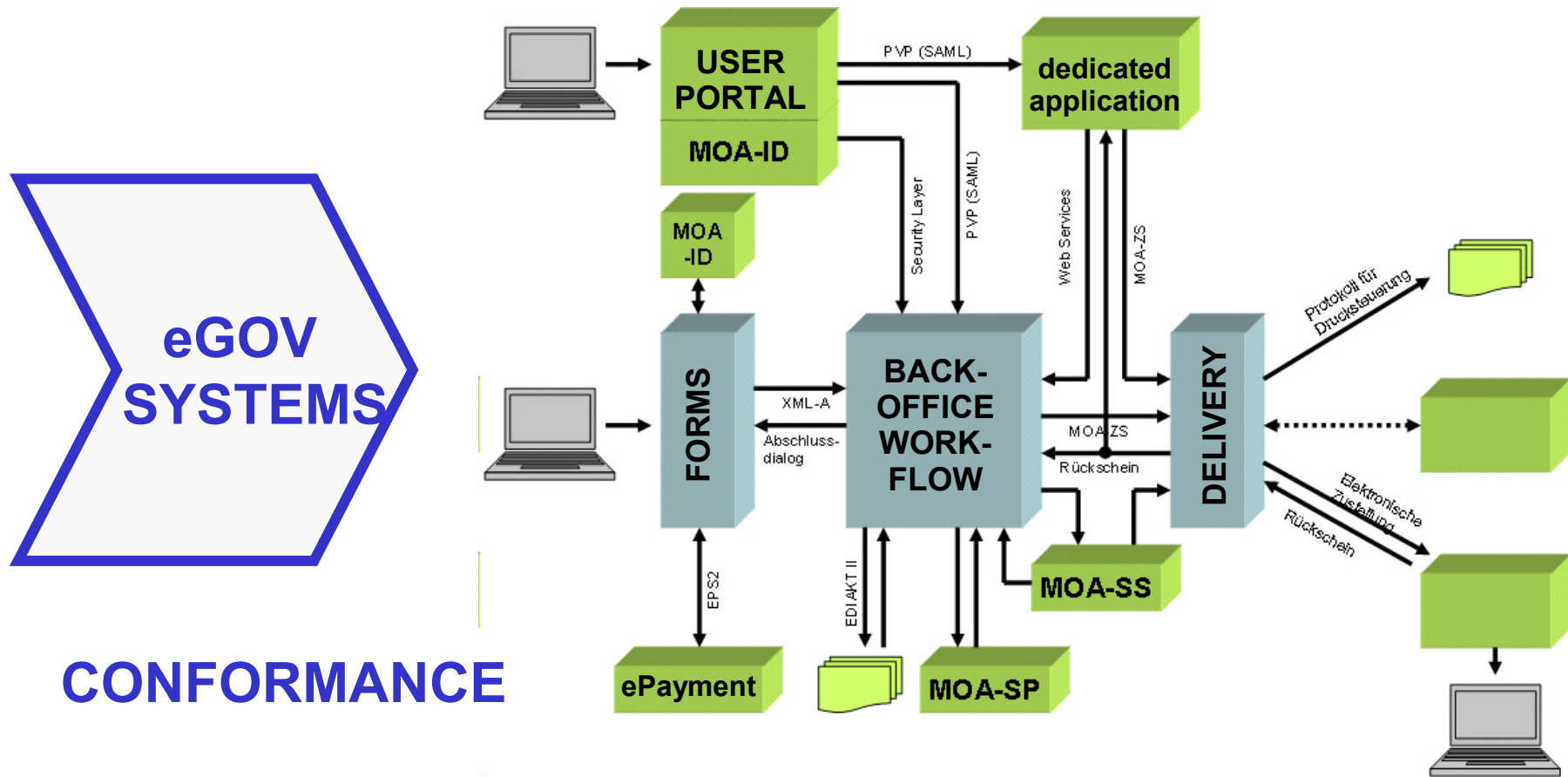
ORGANISATION FOR A TRANSFORMATION



Consolidated Result of ICT - Strategy



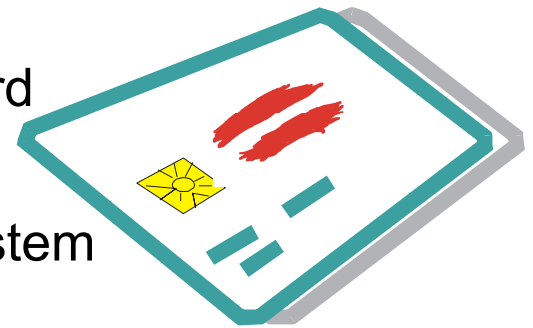
Transparent Overall Structure



CONFORMANCE

Milestones

- November 2000: Austrian Cabinet Council decision
 - ... to employ chip-card technology to improve citizen's access to public services; to supplement the planned health insurance card with electronic signatures
- February 2003: 1st Citizen Card
 - Austrian Computer Society membership card
- March 2004: E-Government Act
 - Legal basis of the Identity Management System
- 2005 - 2006
 - several private- and public-sector borne Citizen Card initiatives
 - foreign eID integration (Austrian Presidency event February 2006)

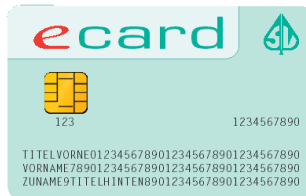


Major initiatives – Citizen Cards



Bank cards (ATM cards)

Each bank card issued since March 2005 is also an SSCD (as of 1999/93/EC)



Health insurance cards:

SSCD, Rollout Mai-Nov. 2005

100 % coverage (8 Mio.) reached end of Nov. 2005



Mobile phones:

each mobile phone (since March 2004)



Further initiatives:

- CSP signature cards
- Public servant service card
- Student service cards, etc.



ID Cards?

Status of foreign eID integration

- Integration of foreign eID
 - Belgian, Estonian, Finish, Italian cards already integrated into the IDM concept
 - service started in 02/2006



Identification

- IDM models
- eGovernment Registers in Austria
 - Central Register of Residents
 - Supplementary Register
- Sector specific PINs
- Identity Link
 - ID under citizen's control

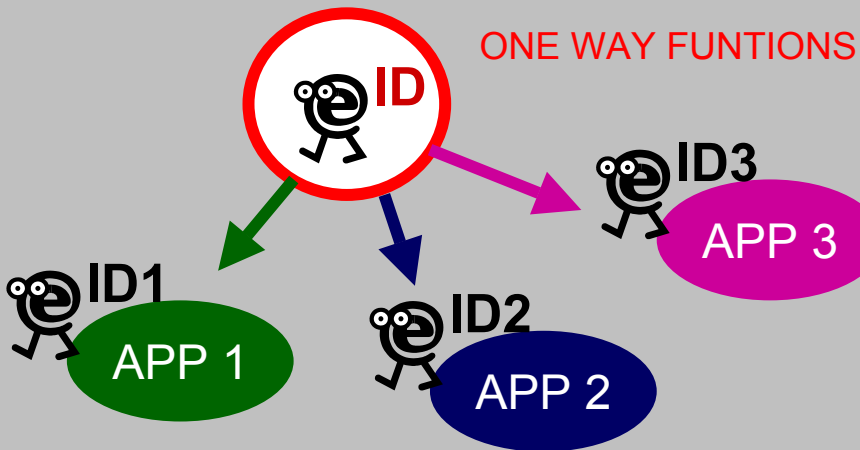


Identity Management Models

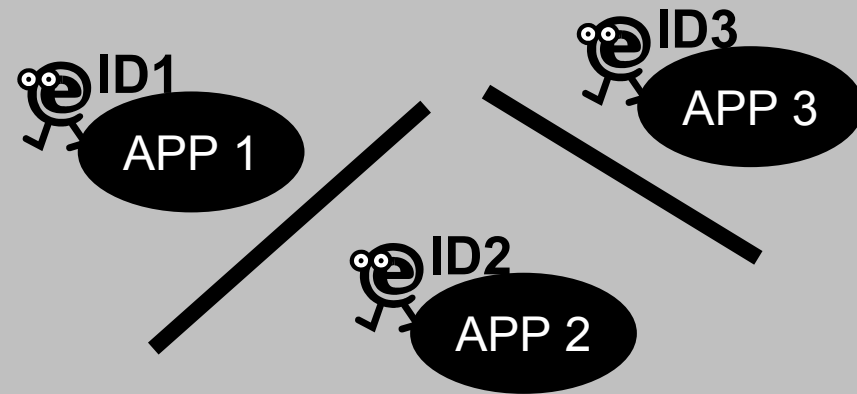
FLAT MODEL



SECTORAL MODEL



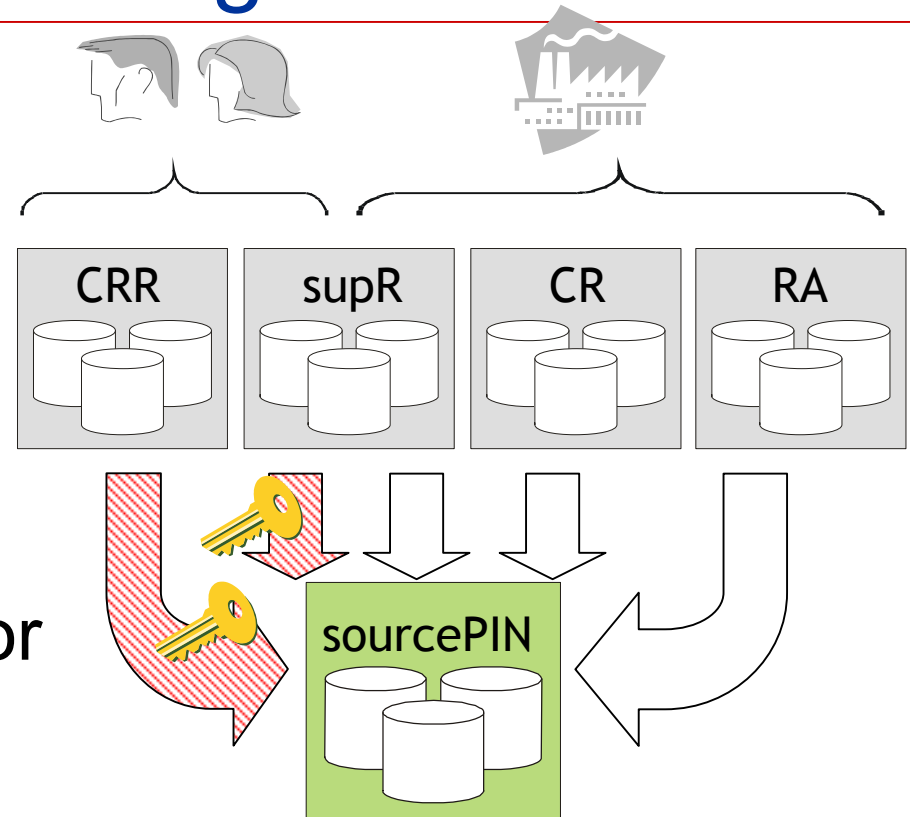
SEPARATED MODEL



Principal eGovernment registers

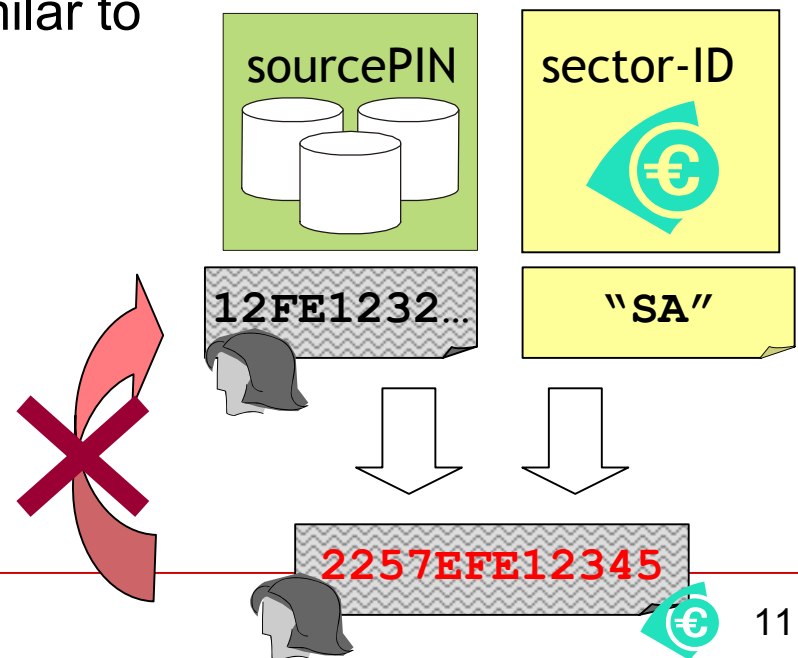
- **sourcePIN**

- derived from unique IDs
- strong encryption for physical persons
- SourcePIN Register Authority is the Data-Protection Commission



Sector-specific personal identifier

- SourcePIN combined with sector-identifier
 - Citizen uniquely defined within a sector
 - Cryptographic hash-functions
 - one-way function
 - no “back-conversion”
 - Sector-specific IDs (ssPIN) similar to
 - tax number in treasury
 - social security number in health care, etc.
- Cross-search prevented
 - lawful generation of ssPIN possible (SourcePIN Register)



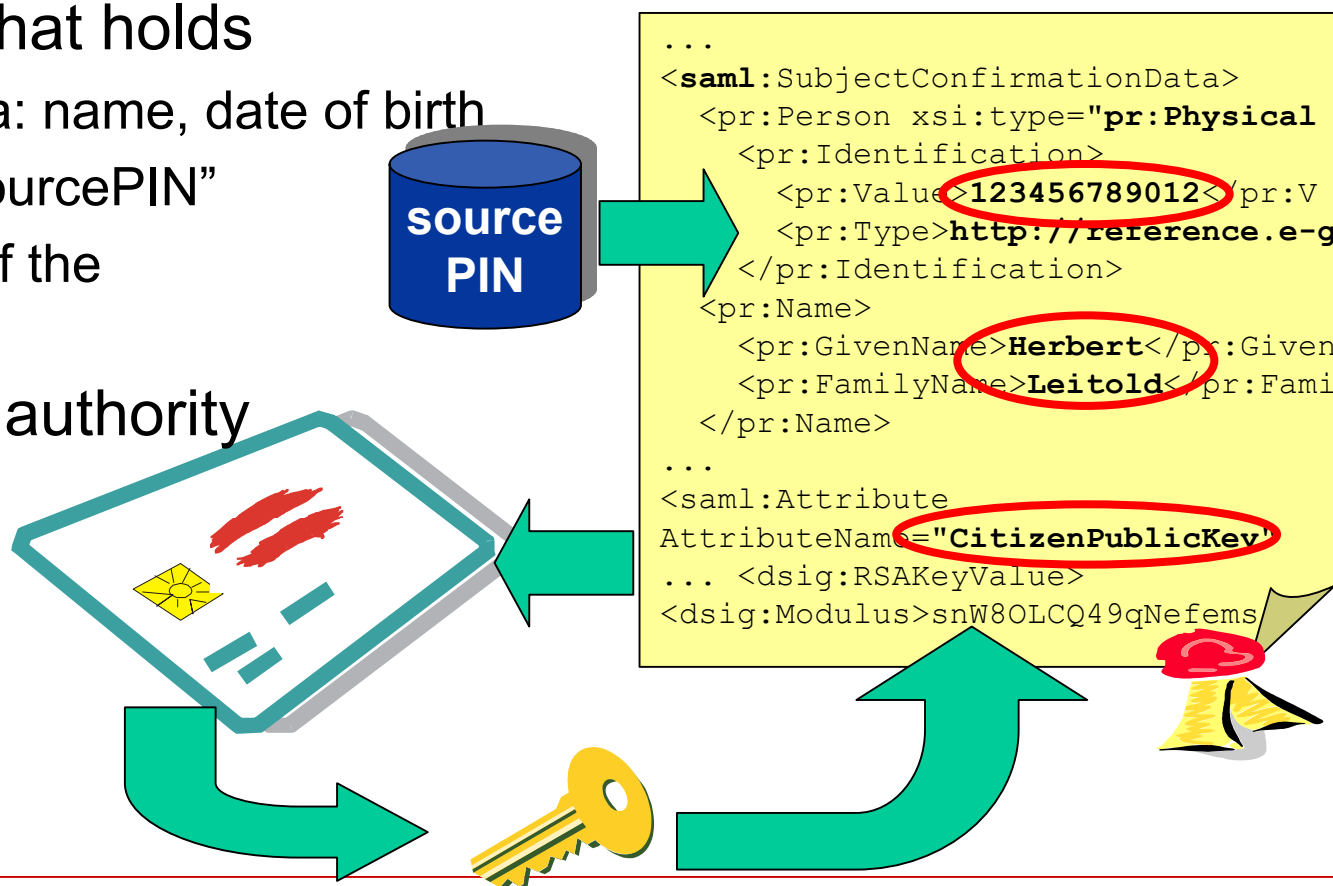
Identity Link

- XML data structure stored in the Citizen Card that holds

- personal data: name, date of birth
- unique ID “sourcePIN”
- public keys of the certificates

signed by the authority

- Based on SAML



Integration of technologies

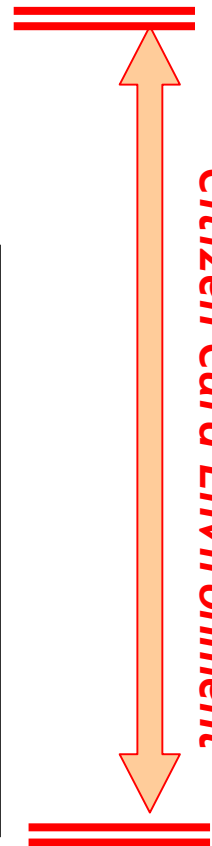
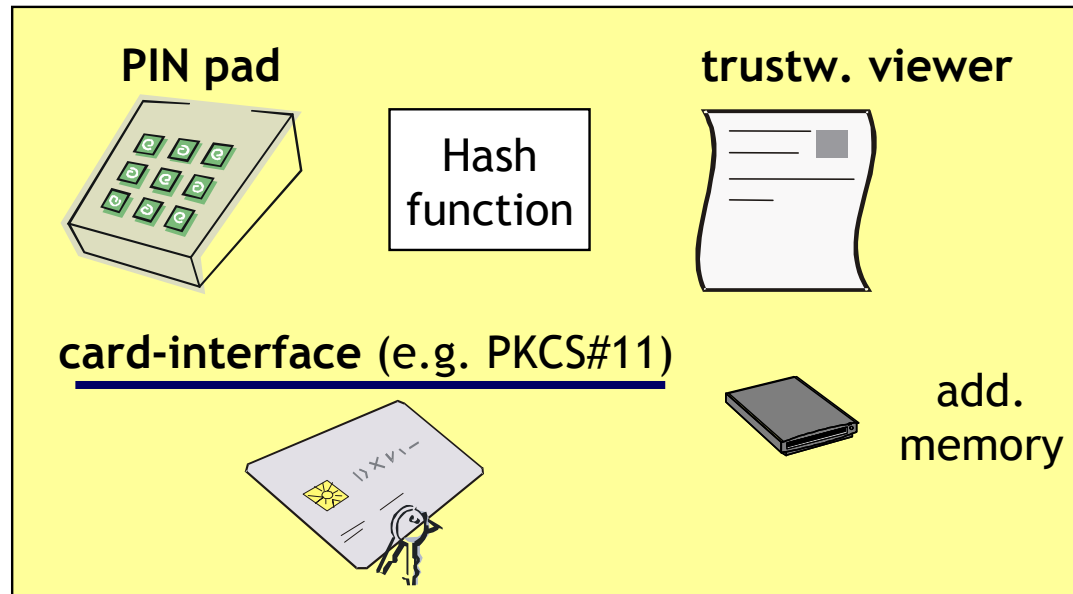


- Definitions
 - Security Layer
 - Citizen Card Environment
- Basic Functions
 - Major standards

Security layer

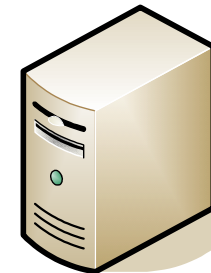
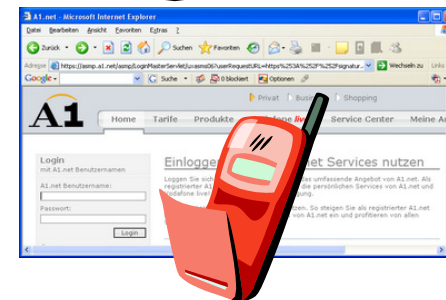


Open Interface Security Layer



Integration of Technologies

Open Interface Security Layer



Citizen Card Environment

Citizen Card functions

- Citizen Card defines general requirements
 - secure electronic signatures
 - i.e., legal equivalence to handwritten signatures
 - additional key-pairs
 - ‘general signatures’, encryption
 - info-boxes to store data
 - identity link, certificates, mandates/representation
 - access control to info-boxes

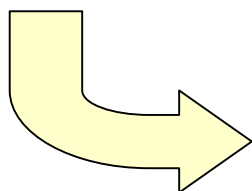
Alien eID integration



- Austrian Approach
 - Definitions
 - Recurring Identity
 - Substitute SourcePIN

Demonstrator available for ...

- Finish eID

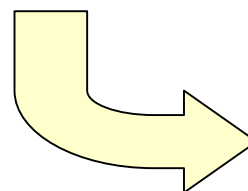


serial number +
name + DOB

SHA-1

FI:KLFGd24563...

- InfoCamere



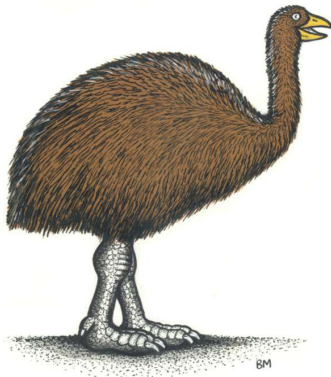
codice fiscale

SHA-1

IT:98RDsTf12h..

Modules for Online-Applications (MOA)

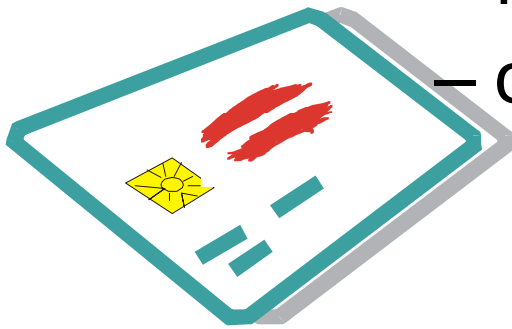
- Open Source Modules
 - MOA-ID, MOA-wID: Identification
 - MOA-SS: server-signatures
 - MOA-SP: signature-validation
 - MOA-ZS: electronic delivery
 - MOA-VV: mandates, representation



for server-side integration

Conclusions

Austrian Citizen Card



- follows technology-neutral approach
- combines basic functions
 - identification – identity link
 - authentication – electronic signature
 - mandates
- data protection maintained using sector-specific fractional PINs
- demos for alien eID integration
- **STRATEGY IS KEY**