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Academy

e-Estonia: the ID Card

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Estonian national ID card

First national document

Issued by:

Department of Citizenship and
Migration

Subcontractor:

TRÜB Switzerland

First card issued: 01.01.2002
1.000.000 issued as Oct 2006

Satisfies the requirements of:
ICAO Doc. 9303 part 3



Based on 16 Kb RSA crypto-chip:
2 private keys; authentication certificate;
certificate to issue digital signature;
A file with personal data

Estonian national ID card

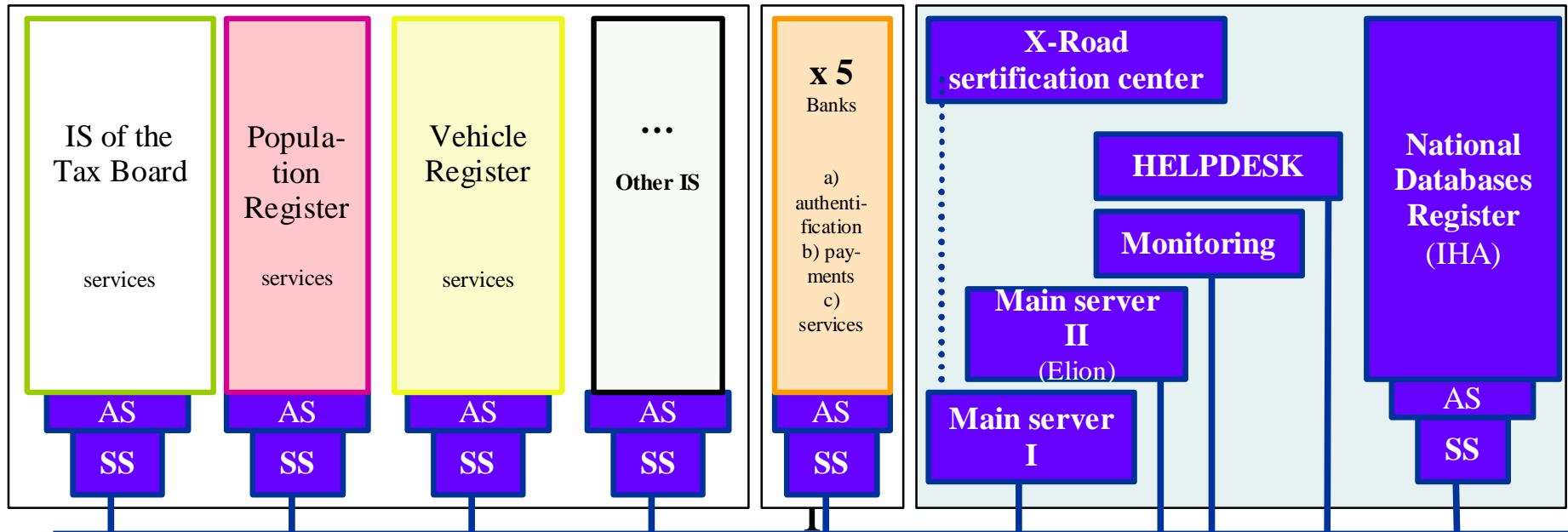
- **Compulsory for all residents as first document–distributed 1.000.000 as of October, 2006**
- **Includes digital information (ID number) about the person**
- **Includes a certificate for his/her digital signature (used together with a personal key)**
- **Includes a certificate for authentication service (used together with another personal key)**
- **In connection with this program: unified e-mail address to everybody:**
firstname.name_XXXX@eesti.ee

SS – security server AS – adapter server

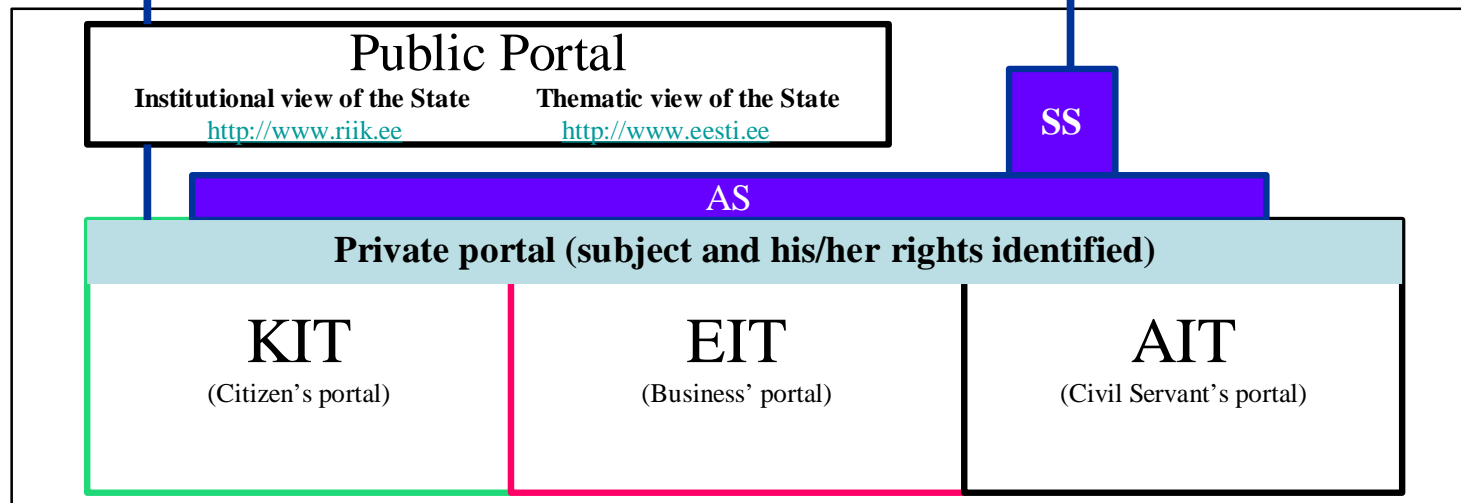
State databases/information systems

Banks

X-Road center



X-ROAD - Internet

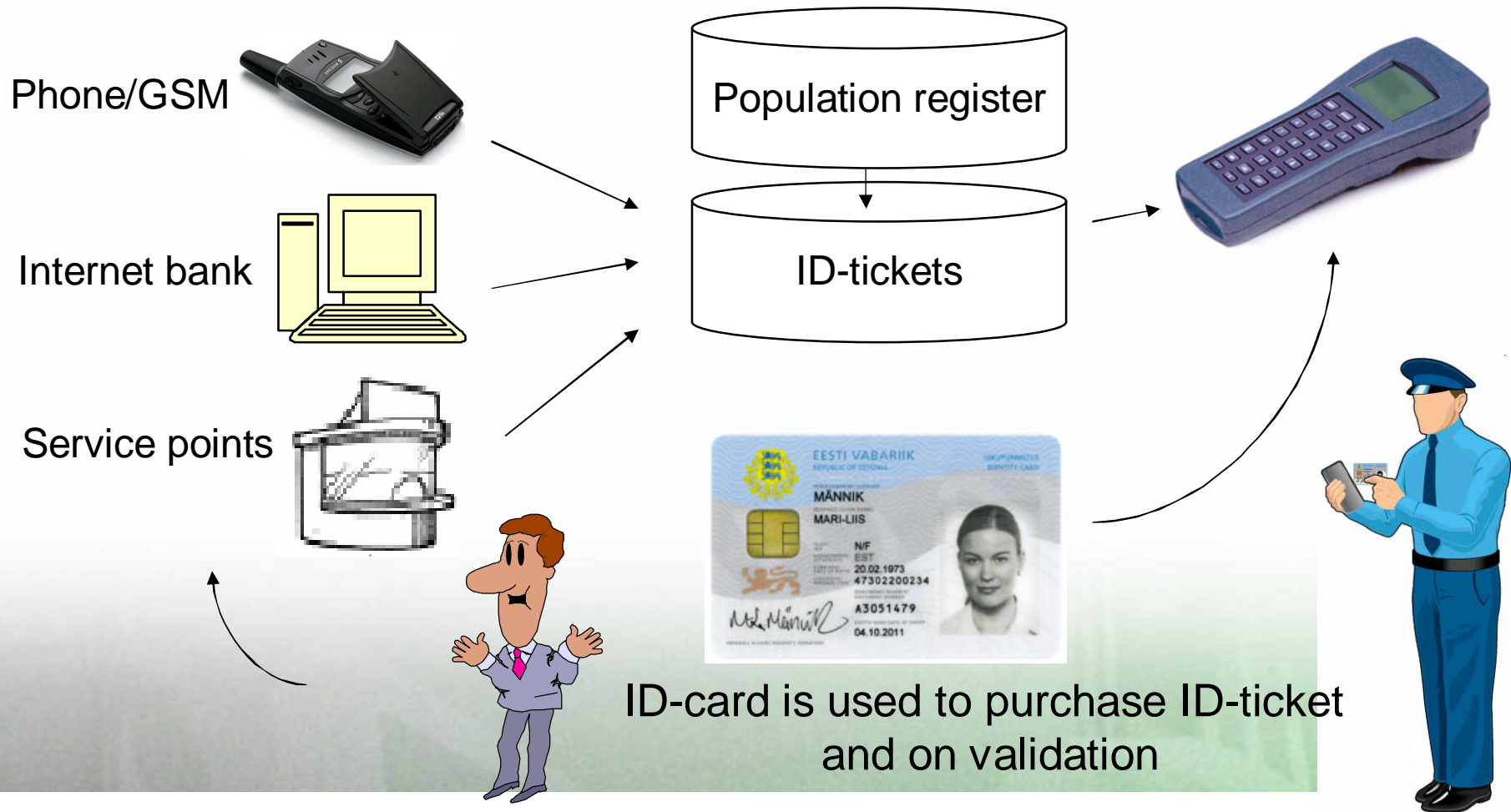


Tools centrally developed by the State, i.e. the State Portal



Certification Center

ID card based public transportation tickets



ID-card is used to purchase ID-ticket and on validation

Why ID-ticket?

- Personal
- Impossible to falsificate
- Optimal sales costs
- Wide scale of sales channels
- Real-time statistics



ID card as key

- **ID-card is key component**
 - e-police
 - e-health record
 - e-school
 - e-elections
 - ...



E-citizen (portal)

- **Personalized environment to communicate with government**
- **Authentication**
- **Services:**
 - In use: one-way information requests
 - Direct information exchange, e.g. residency registration
 - Integrated services, e.g. parental leave benefit claim

E-democracy

- **E-voting**
 - Law 2002
 - Actual e-voting 2005
- **Participation in decision-making**
 - TOM (Today I shall decide)
 - E-law (commentary center for draft laws, discussion forums)

Other developments I

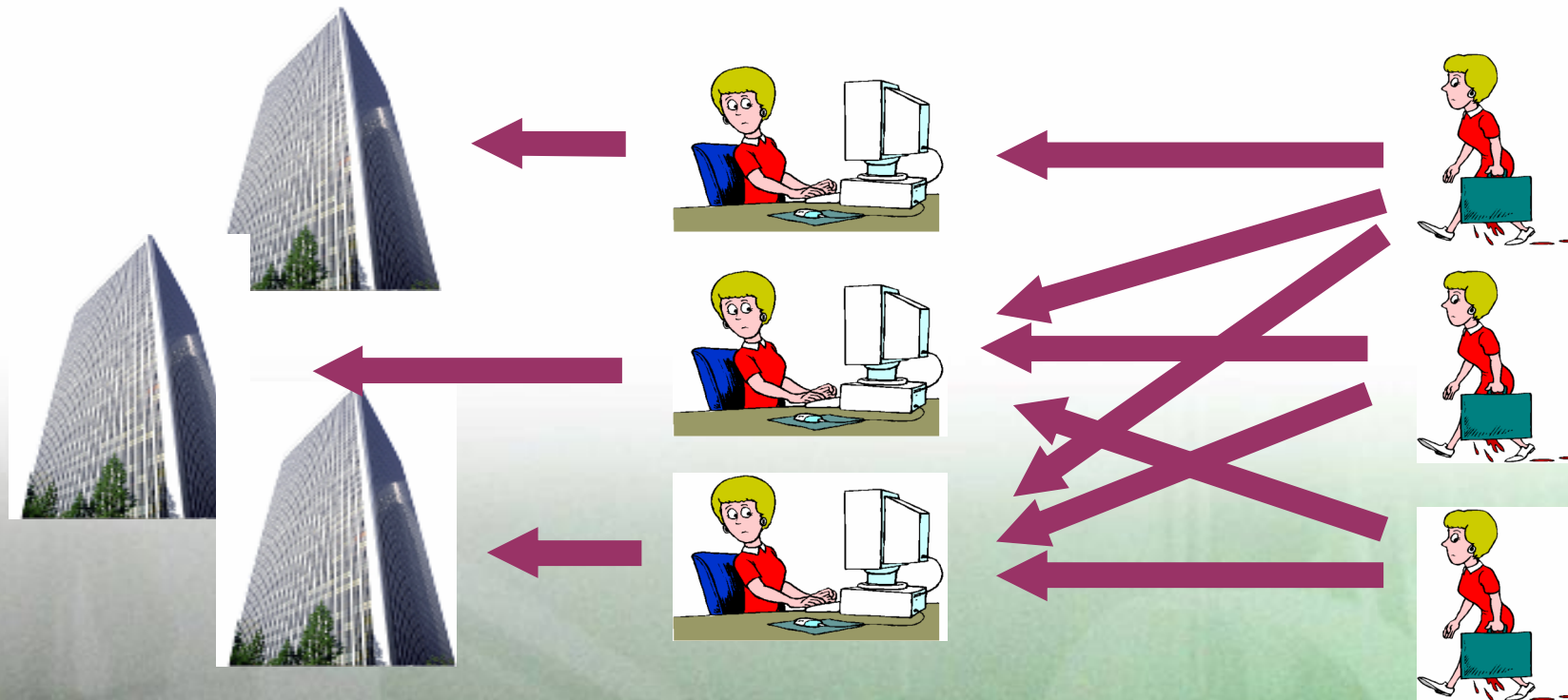
- **E-finance**
 - E-treasury
 - Book-keeping on-line
- **E-legal (approval cycle for draft bills)**
- **E-taxation:**
 - Legal persons – VAT, payroll tax, Soc.Sec.,
 - Physical person – personal income tax
- **E-customs: digital customs declarations + payment of duties**

Other developments II

- **Digital Document Management**
- **Digital Record Management and Archiving**
- **E-region**
- **E-registries (land-, building-, population-, vehicle - , etc.)**

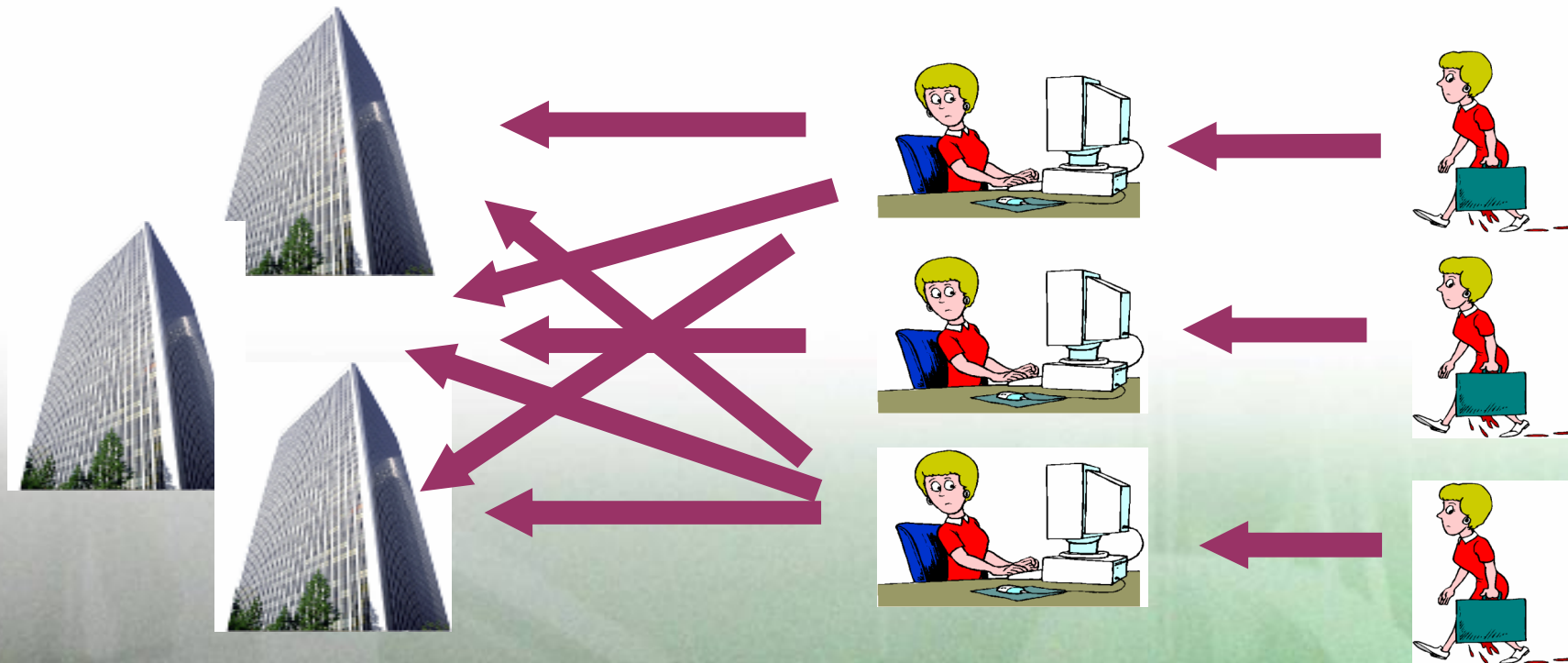
Reform of Government Registries 1

Weberian Bureaucracy + Internet



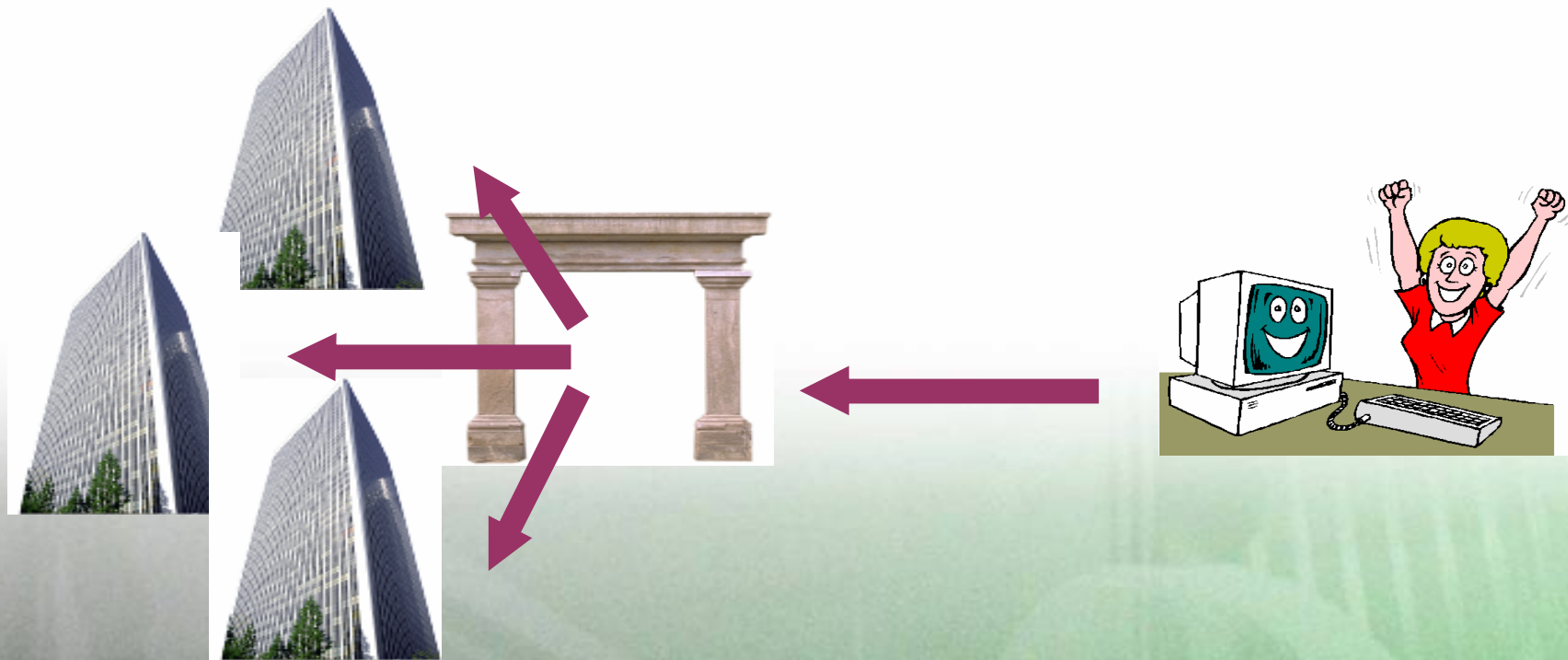
Reform of Government Registries II

One Stop Shop approach



Reform of Government Registries III

Integrated E-Government



The tomorrow of e-government

- **Integration of different levels of government in service provision**
- **24/7 government**
- **“Do it yourself” government**

Some working examples of integrated e-government:



Examples of e-services

- **Parental leave benefit claim**
 - 18 data requests between 5 information systems + calculation = 7 documents in real life = 3 minutes data input +1 mouse click
- **ID card as a bus ticket**
- **Mobile parking for municipalities**
- **Exam results with SMS**
- **Registration of an enterprise on-line**

Future – going mobile ...

- **The future of e-government is m-government**
- **An explosive growth of WIFI**
 - M-information
 - M-beer
 - M-parking (over 50% of parking income)
 - M-payments (ca 1000 vendors)
 - M-police – an integrated internal safety concept

Lessons learned from Estonia

- **As government: let the private sector take initiative**
- **As government: promote all aspects of information society**
- **As government: create and maintain the legislative framework**
- **As government: view IT developments together with public administrative reform**
- **As government: promote a project based development (more chance for self-correction, if something doesn't work)**
- **And finally, as government: take care of your culture and language (nobody else will do it for you)**

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Thank you for your attention!
Questions?

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Check for additional information
www.ega.ee