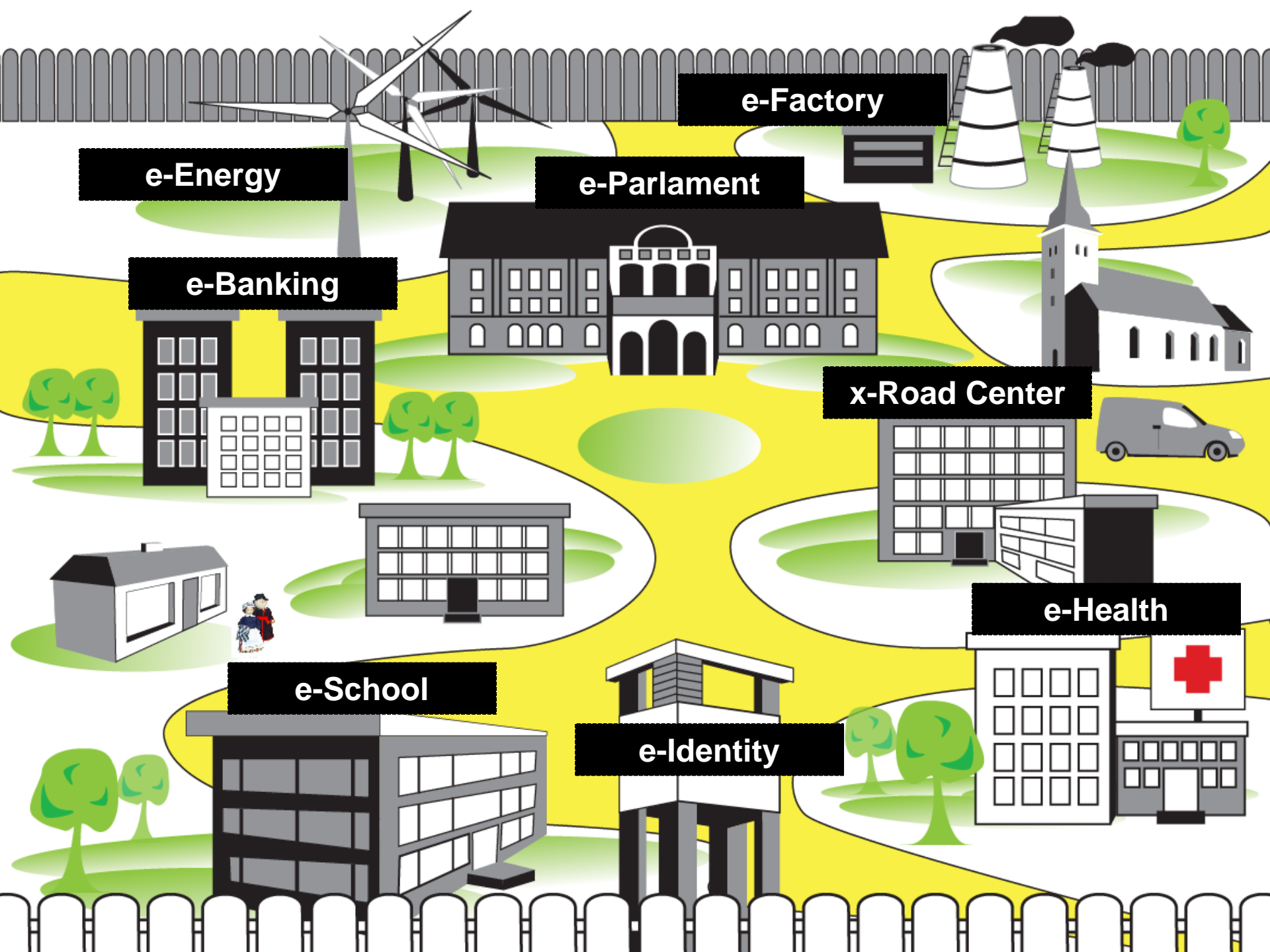




e-Estonia

**Digital identity:
necessary part of e-
gov infrastructure**

Ivar Tallo



e-Factory

e-Energy

e-Parlament

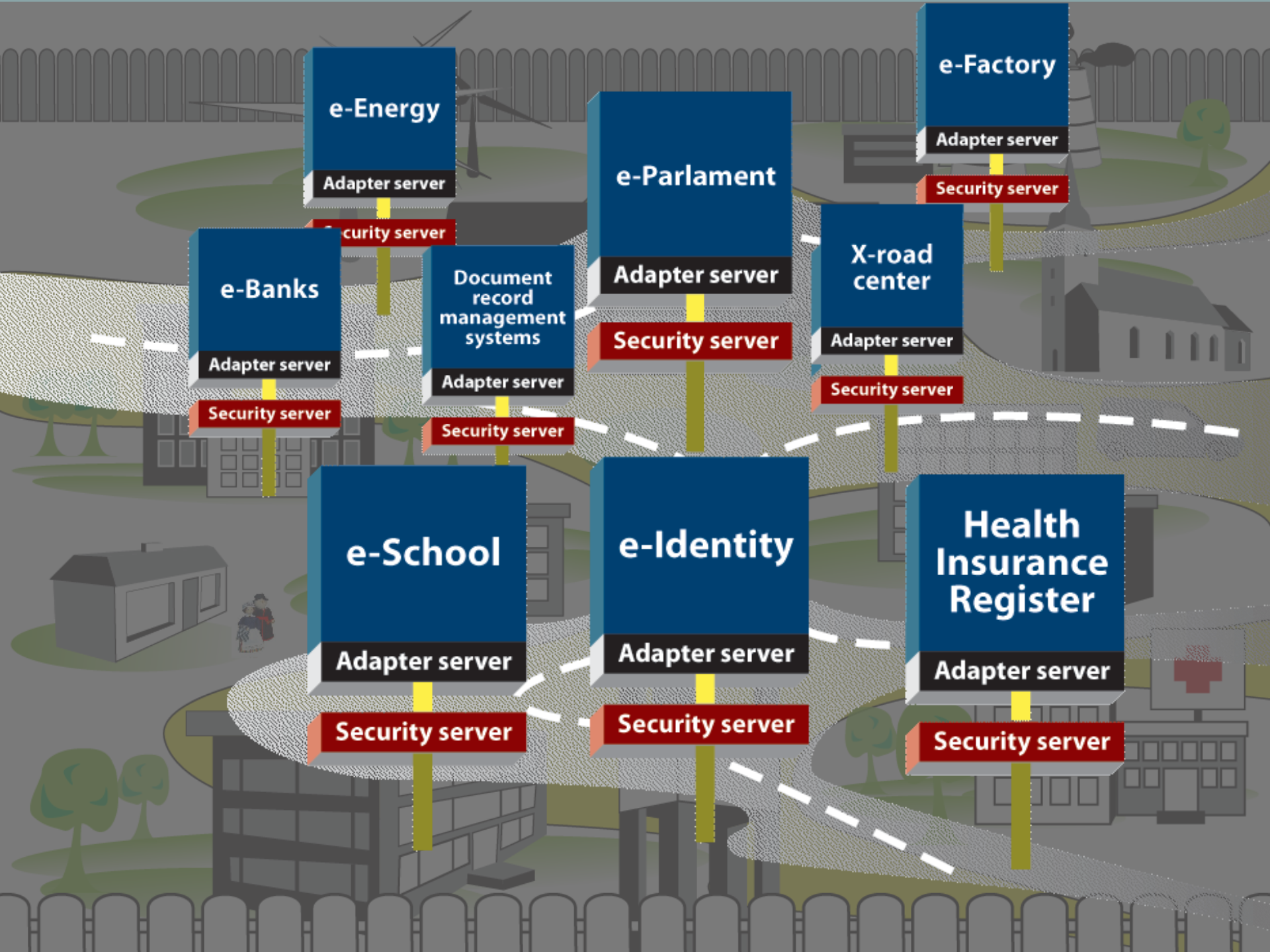
e-Banking

x-Road Center

e-Health

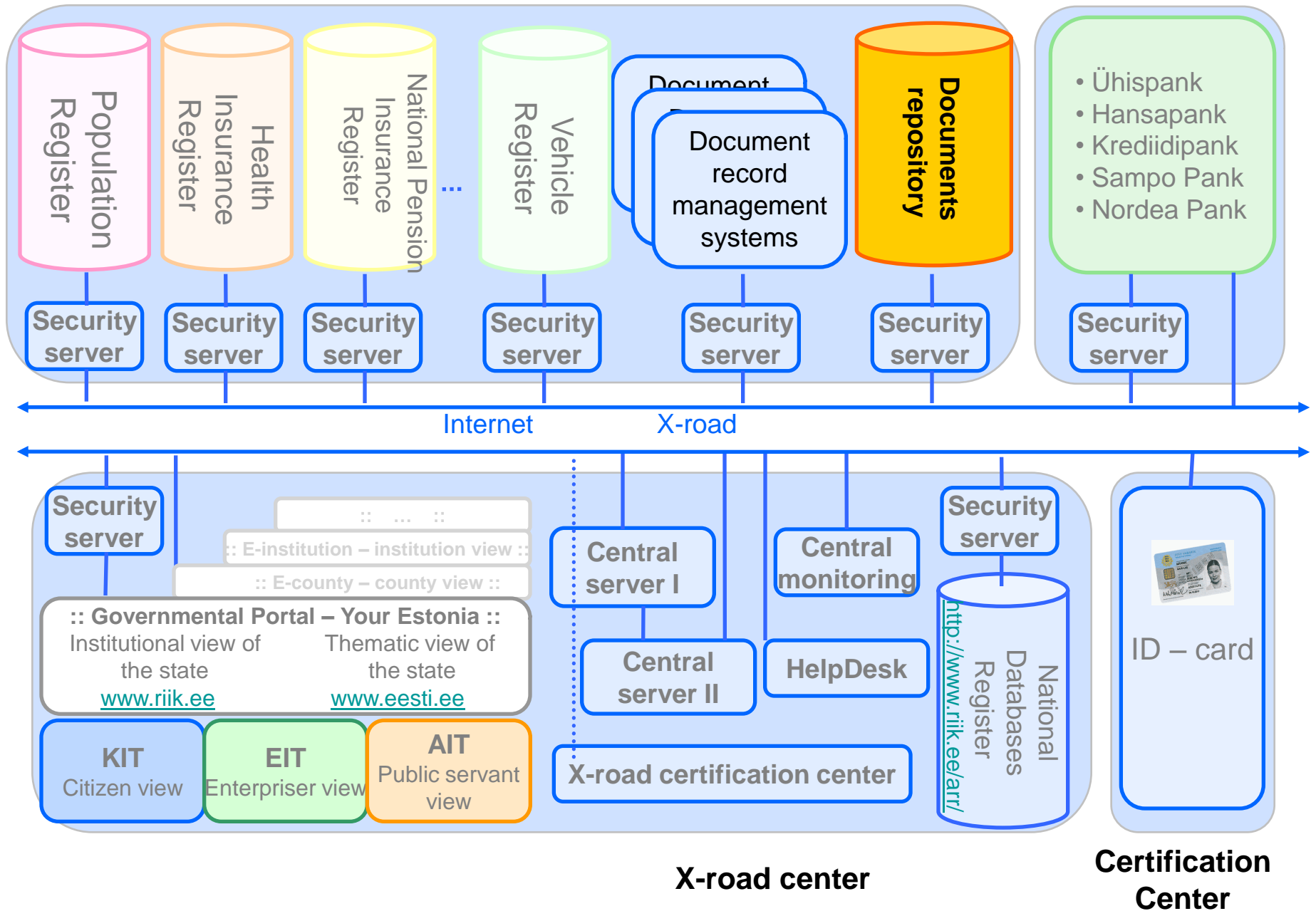
e-School

e-Identity



Databases / information systems

Banks



E-Government infrastructure

- **Digitalized information:**
 - Information systems and databases in all levels of government
- **Formalized exchange:**
 - X- road - the connection of government databases by a data exchange service layer
- **Electronic Identity:**
 - Authentication of a user by digital certificate imbedded in the ID card or SIM card

National ID card



Issued by:

Department of Citizenship and
Migration

Subcontractor:

TRÜB Switzerland

First card issued: 01.01.2002

Over 1.100.000 now

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

Satisfies the requirements of:
ICAO Doc. 9303 part 3

Some landmarks

2000: Launch of e-Tax Board

2000: Launch of m-Parking

2002: First digital signature

2003: Launch of ID bus ticket

2005: i-Voting was introduced

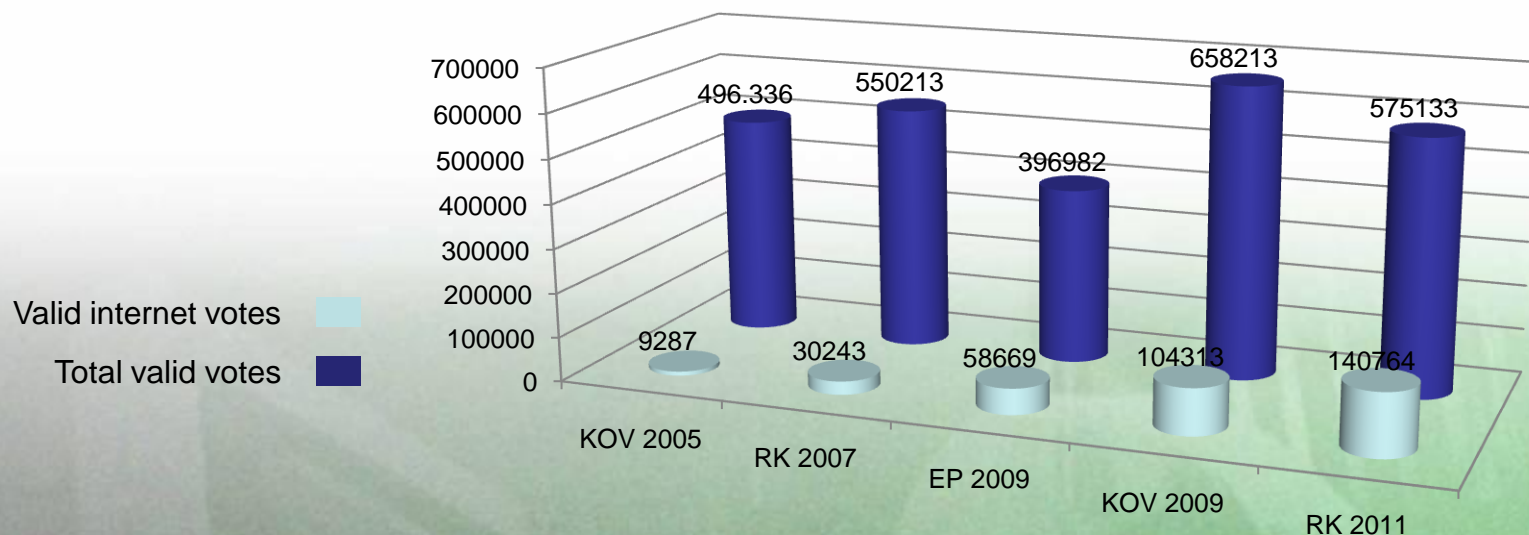
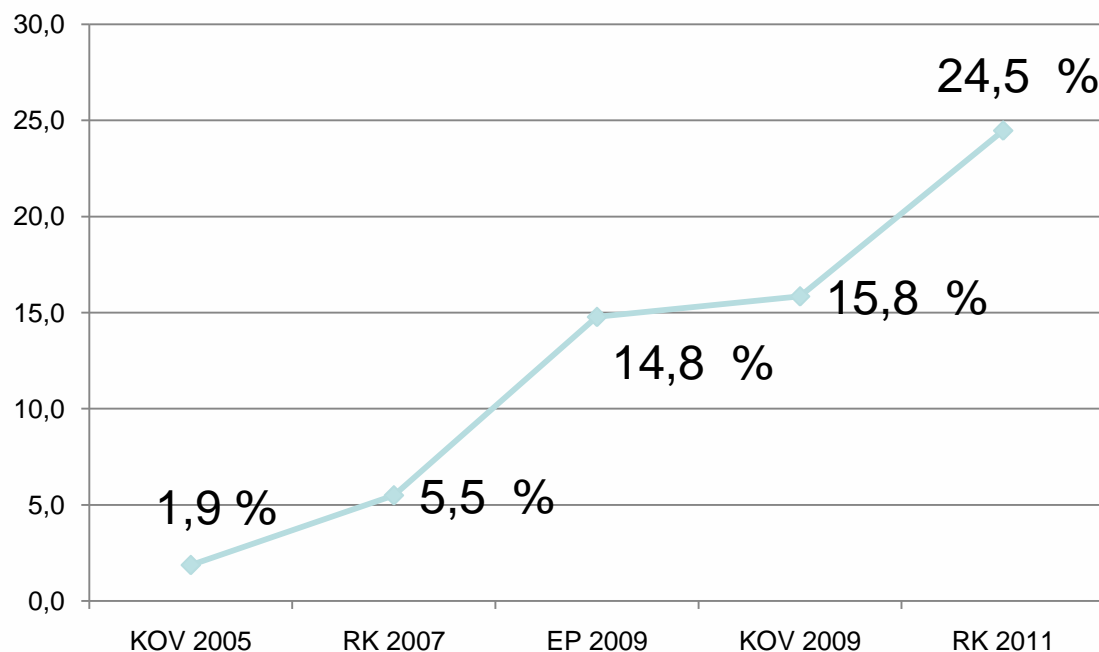
2007: Introduction of m-ID

2007: Launch of e-Police system

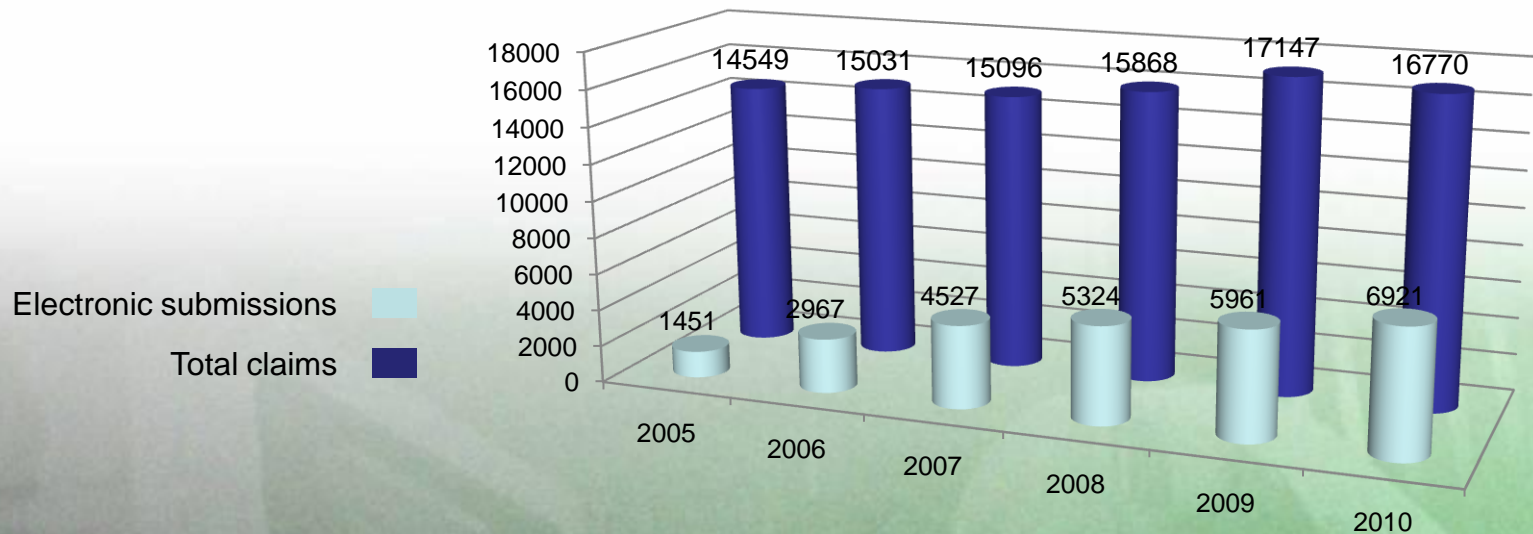
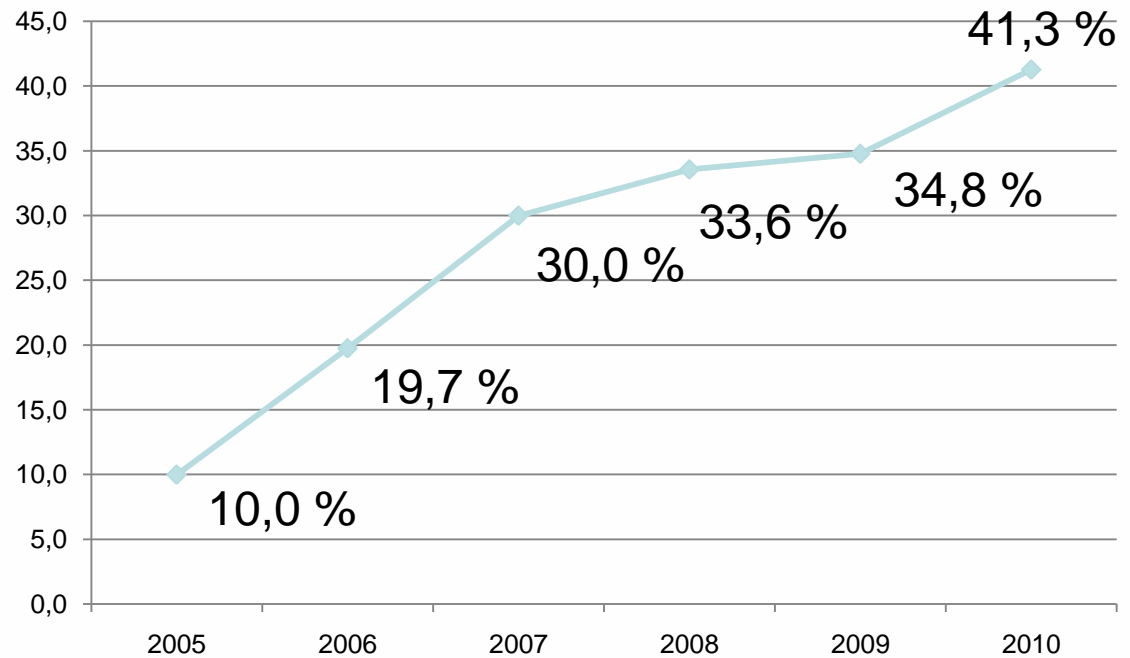
2008: Launch of e-Health system

2010: Launch of e-Prescription

Internet voting in Estonia

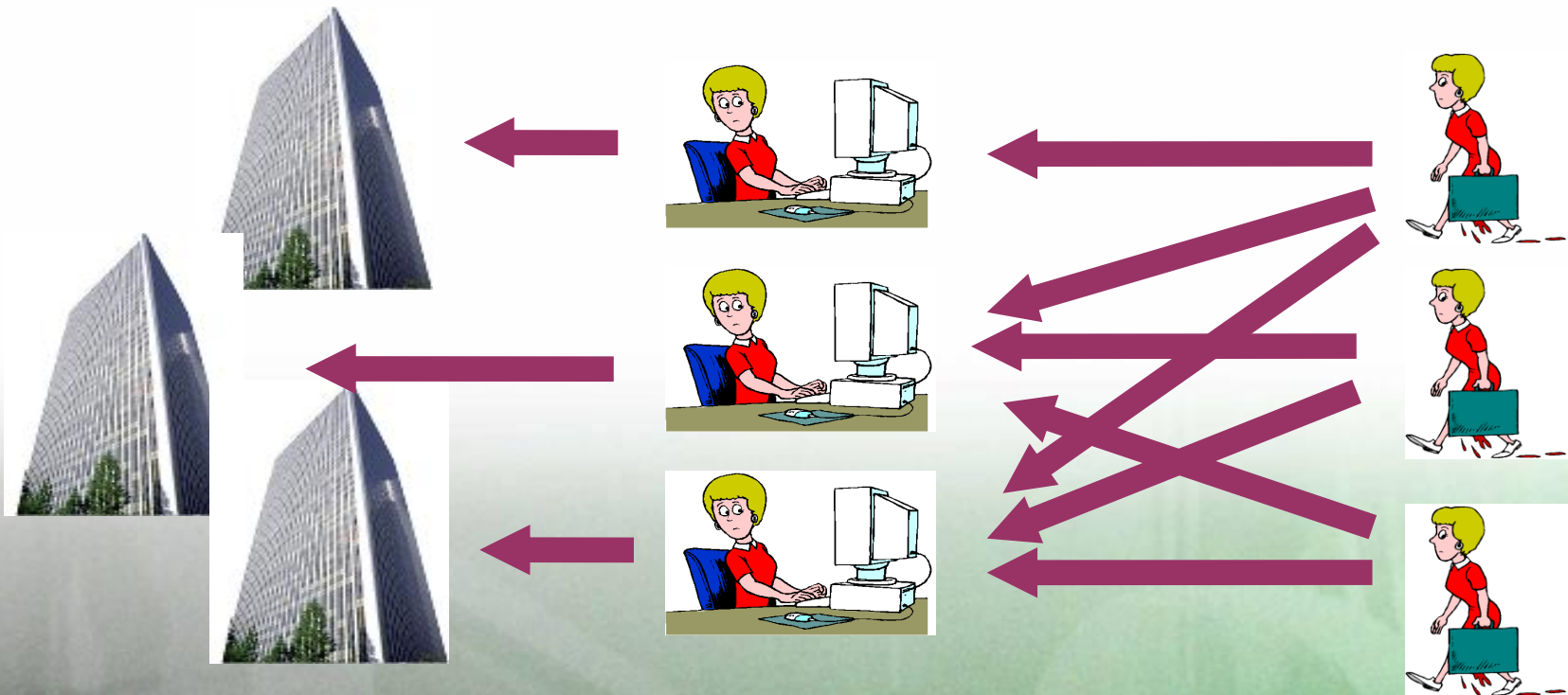


Parental leave benefit claims



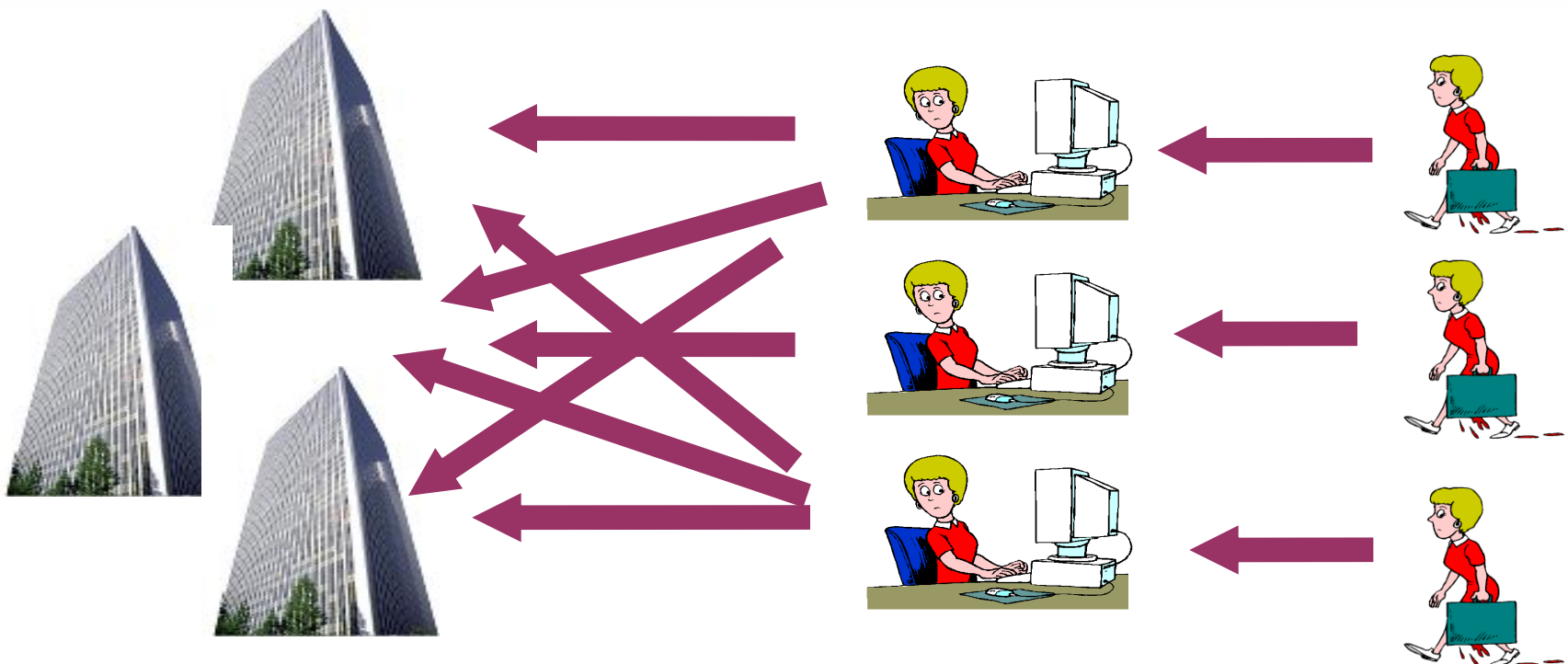
Reform of Government 1990s

Weberian Bureaucracy + Internet



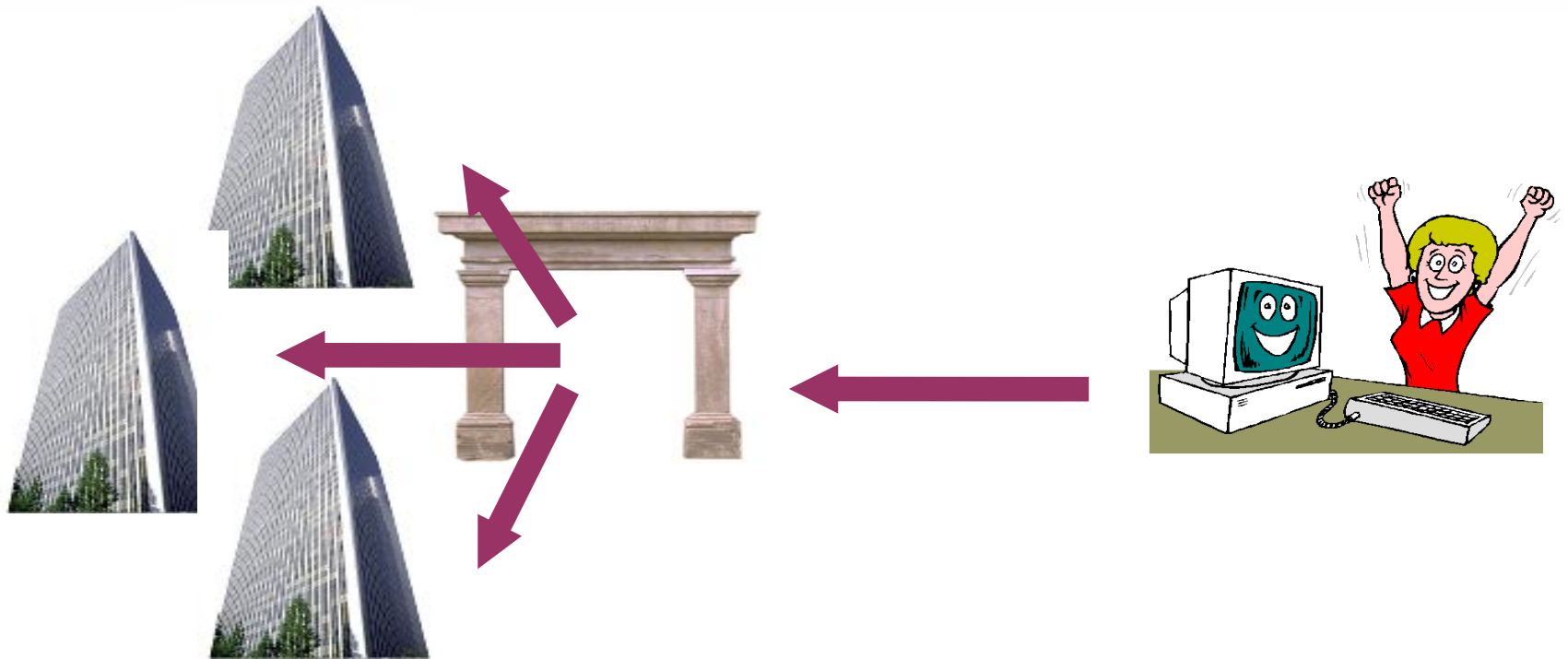
Reform of Government 2000s

One Stop Shop approach



Reform of Government 2010s

Integrated E-Government



We are in a new reality where ICT useage is not a hobby, not a tool but a major building block of that reality

The reality has already changed but our minds have not recognized it yet

We need to work on new fundamentals and not just sharpening our knives and swords

Thank you!

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