



**European Week of Regions and Cities
Brussels**

8 – 11 October 2007

**RegioPKI[©] and Governikus[™] to turn
the Regions to the digital era**

10 B 27, 10/10/2007 at 14:30 – 16:30

JDE53, CoR

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About Tietokartano Oy and Cence Ltd, Finland

- Tietokartano Oy and its daughter company Cence Ltd, are owned by four Eastern Finnish municipalities
- The companies offer technical and operational IT services for several communities as well as enterprises
- Since 2007 the strategy is to strongly develop digital activities and services for the public sector

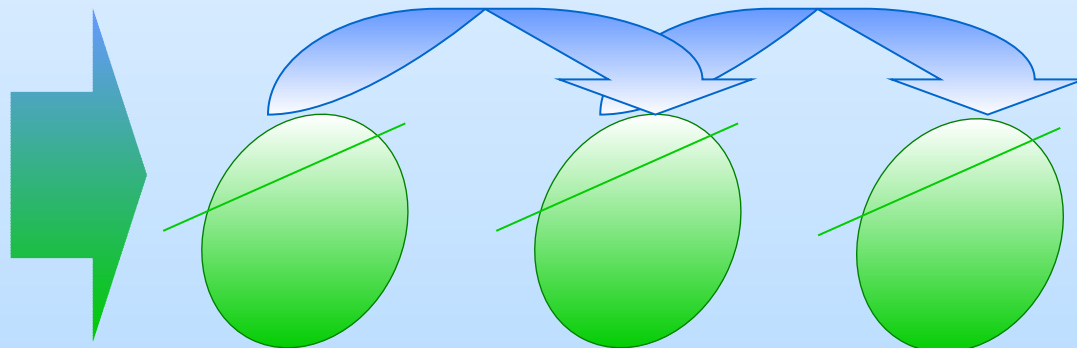
Efficiency in eGovernment Services

Conclusions of the BIT Consultants research in Germany (2007)

200 Service Products
1000 - 2000 Processes

30 Core Services
200 Core Processes

Front & Back Office Solutions Can
Produce Cost Savings of 20 % to 40 %



10-20 % Processes
Take 80-90 % of
Staff Resources

80 % of Core Processes
have Significant
eGovernment Potential

Estimated 80 %
of Core Processes
are Internal

Initially the main focus of eGovernment efficiency should be on local administrations themselves rather than on the citizens

The Vision

- The goal is to expedite eGovernment services from the users point of view
- Since there is a lack of end-user experience and evidence to prove the concept, the target is to gather data in order to analyze the efficiency , interoperability and usability of electronic regional services
- The cross-border showcase is aimed towards Eastern–Finnish regions and other European Regions. It aims to compare the existing way of workings with a new PKI based service model
- The special characteristics of the Eastern-Finnish regions demands that the equality, privacy and confidentiality issues of all citizens has to be taken under special consideration

The RegioPKI® System

The *RegioPKI*® System is a comprehensive solution & service package for setting up secure globally interoperable eServices on a regional level

"Closer to the user, closer to user needs"

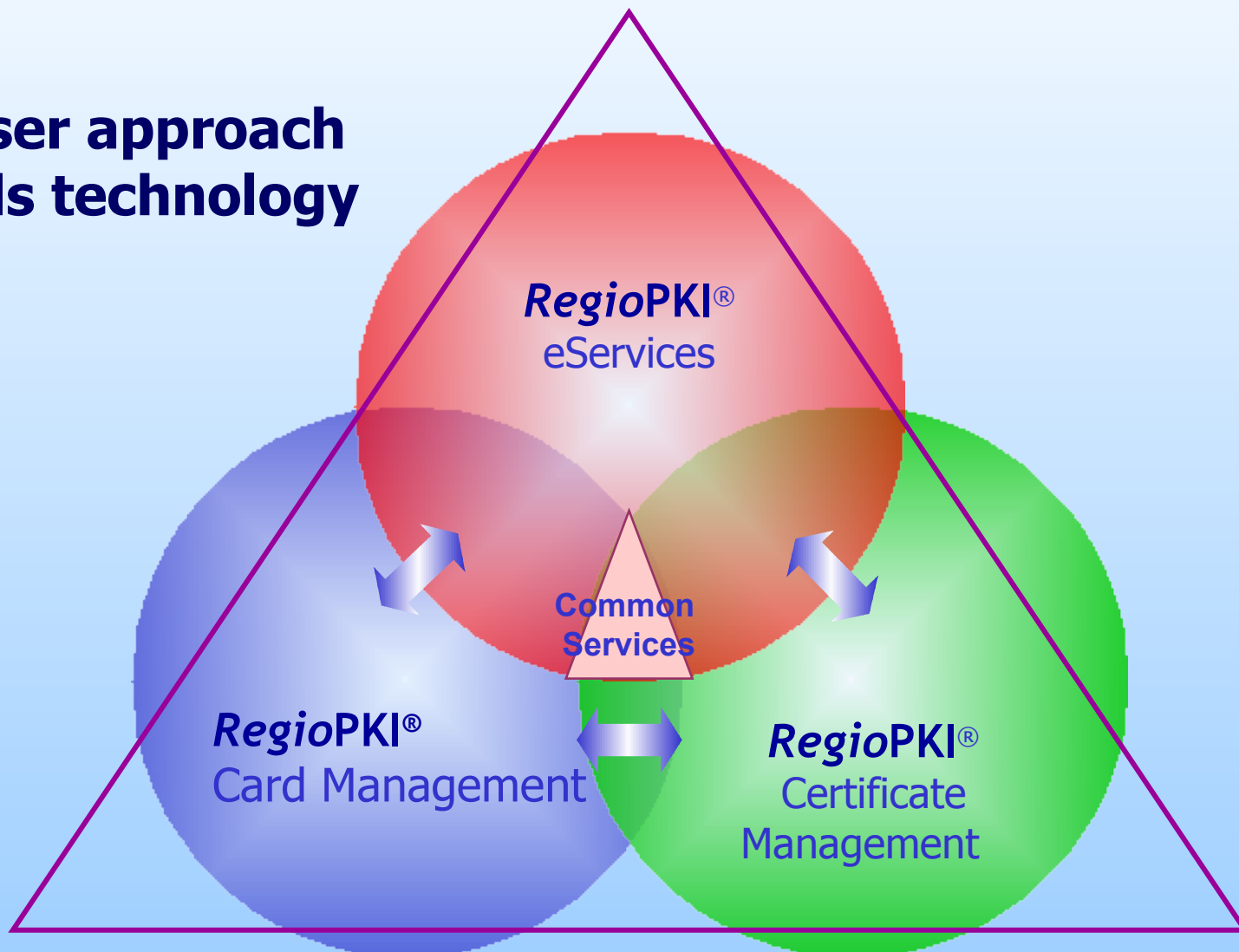
The *RegioPKI*® System consists of:

- Complete PKI, with directory services and identity management
- Client, middleware and back-office solutions enabling eServices, including smart cards, tokens, readers etc.
- Consulting, implementation and support services
- Ready interfaces to all industry leading IT-security and other client solutions

A regional approach for achieving local services with global interoperability and reach

Overview of Platforms and Modules

**End-user approach
towards technology**

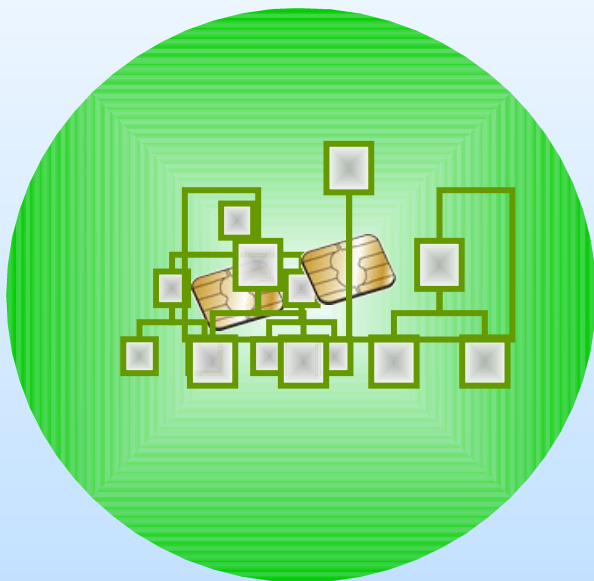


RegioPKI® Card Management System



- Support for contactless RFID, Mobile PCMCIA, Mobile/Wireless PKI, USB tokens, USB OTP, OATH, EMV OTP, Java Cards, EMV Cards, eID Cards, native cards ...

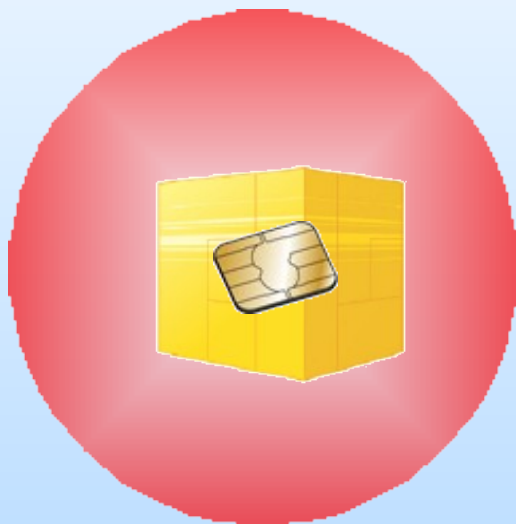
RegioPKI® Certificate Management Platform



- **Complete PKI system**
 - Open Source, Microsoft, others
- **Identity Management**
 - Strong authentication
 - Role based access rights
 - Single sign on
- **Digital signatures and certificates**
 - Token & software certificates for all purposes
 - Qualified signatures from Trust Centres for legal compliance



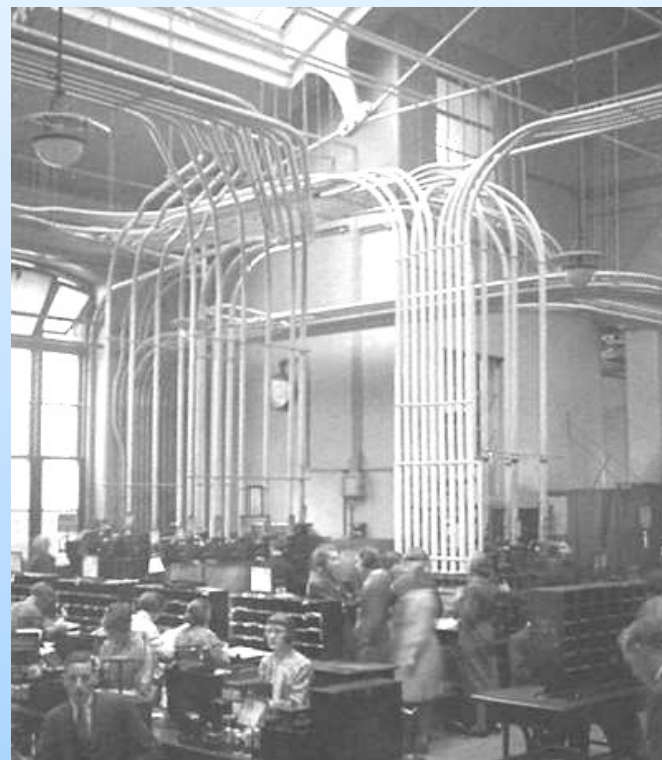
RegioPKI® eServices



- **Secure online communications (OSCI)**
 - Official German secure communications protocol,
 - Interoperability roadmap with French “Presto”
- **Governikus™ system**
 - Middleware that implements OSCI
 - Provides digital signatures and security
- **A “PKI enabler”**
 - Governikus makes any business application and process PKI-enabled
 - Low implementation cost and effort
 - Technical independence & interoperability (totally standards based)

Introduction to Governikus™ and OSCI

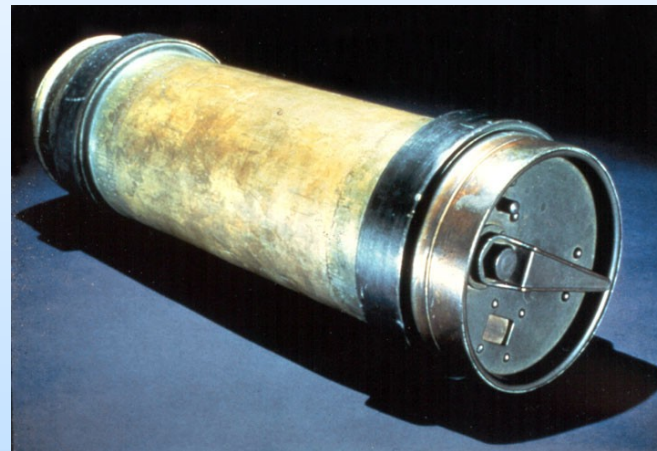
- **OSCI is to the Internet and interactive, digital paperless processes, what pneumatic post was to standard post!**
- OSCI is a secure, dedicated infrastructure to enable PKI-based communications



OSCI Components

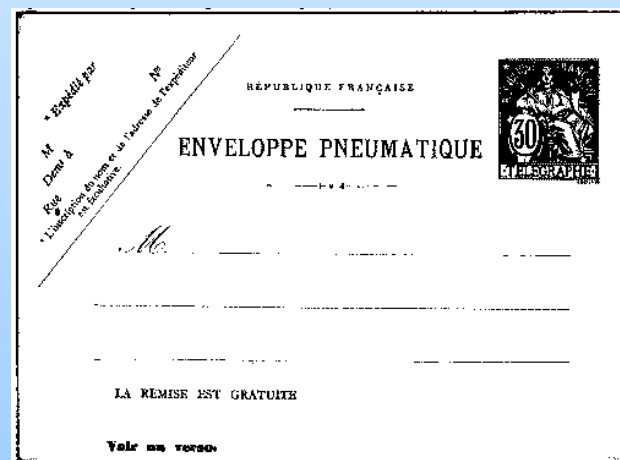
- **Part A: Secure Transport**

- Integrity & authenticity: electronic signatures
- Confidentiality: encryption
- Non-Repudiation: signed receipt



- **Part B: Message Formats**

- Domain specific, task oriented
- Specified by government users
- “Content Form”



OSCI Provides Security

- **Authenticity / Integrity of content**
 - Signatures from authors, all signature levels
- **Confidentiality of content**
 - Encryption for readers / message receivers
- **Non-Repudiation**
 - Signatures, signed acknowledgements, timestamps from intermediary
- **Authenticity of communication partners**
(sender/receiver)
 - Challenge / Response using certificates (eID)
- **Authenticity / Integrity of messages**
 - Signatures from sender, encryption for receiver

Governikus™ key points

- Governikus is a security infrastructure that enables secure communications according
- Business applications can be secured without changes to the systems
- **Security and digital signatures are provided as a service**
- Governikus does not substitute or replace existing IT-security infrastructures, it only adds an **uniformly enforced security layer to communication confidentiality, integrity and non-repudiation.**
- Integration is done through:
 - Client API (all client connections)
 - Business Connectors to ERP, CRM, Web...
- Governikus is the back-bone secure messaging system of the Award-winning German eGov eService DVDV (Lisbon, Sept. 2007)

Governikus™ key benefits

Security

- OSCI provides highest level of communications security
- It is PKI based: ends the use of PW based solutions
- Governikus unifies key-management for encryption and certificate management for system integrity signing, no need to implement various system/application specific key/certificate management schemes

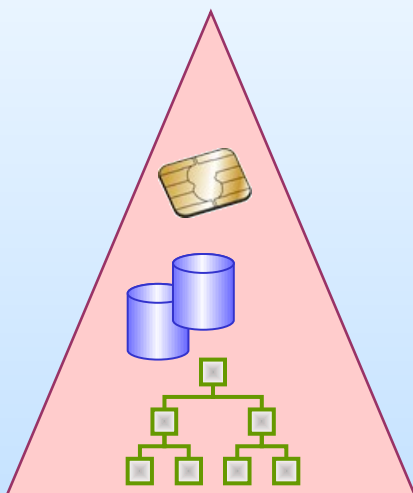
Enabling capacities

- High communications confidentiality enlarges the scope of eServices delivery: no more privacy concerns
- Powerful client tools offer easy to use interfaces to secured resources

ROI & TCO

- One system to enable PKI-services throughout the eServices domain
- No need to develop PKI-support for existing applications
- Flexible user/certificate/transaction based licensing model: very advantageous financing models for the public sector
- No need for Ad-Hoc security implementations: one platform performs all security related functions

RegioPKI® Common Services



- **Directory & Repository Services**
- **Security Services**
- **Technical services**
- **Identity Management**
- **Management Services**

- **Consulting:**

- Identity management roadmap
- Digital signature interoperability
- eGovernment service interoperability on European level

Key Points and Challenges

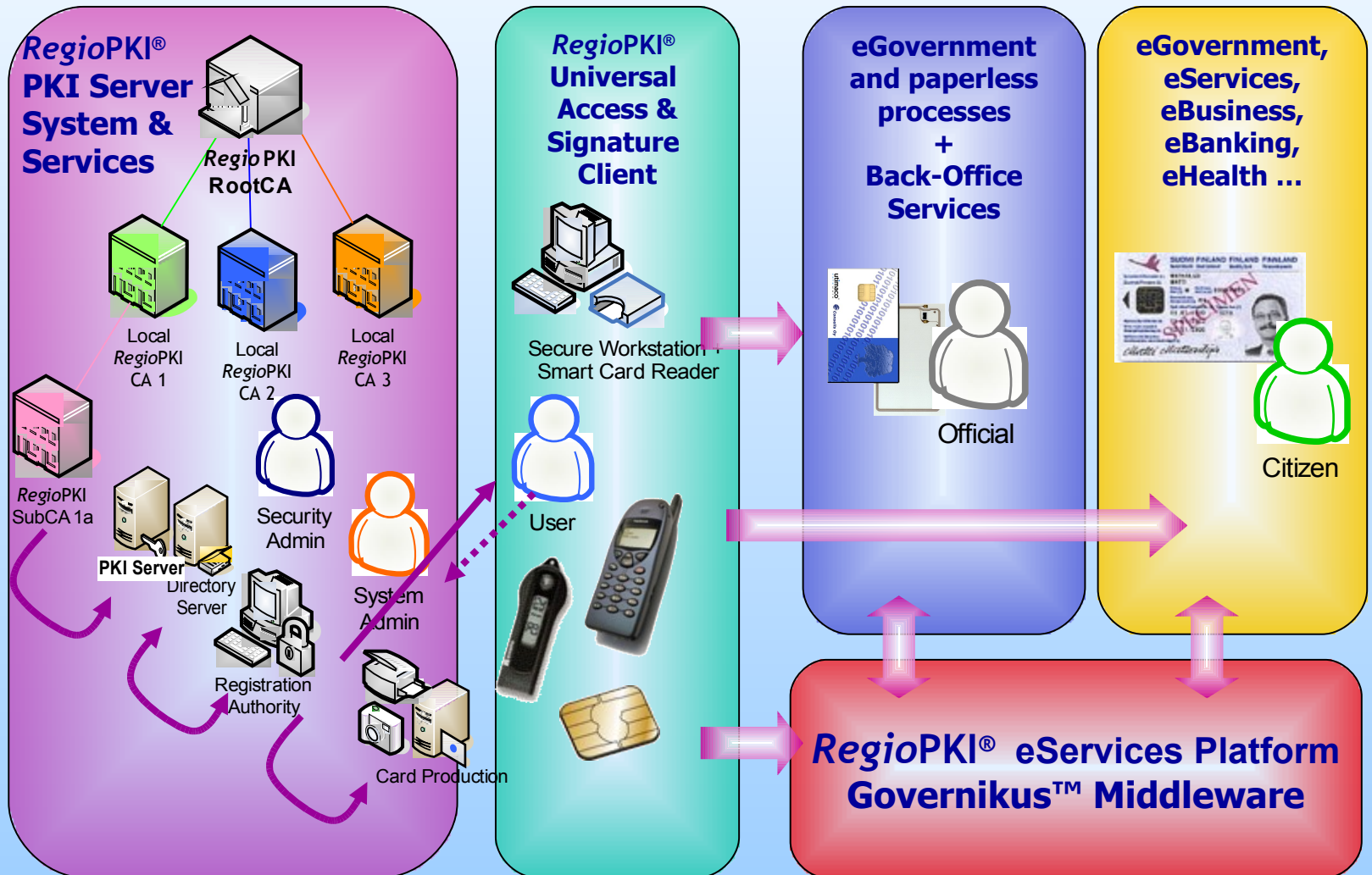
The RegioPKI system addresses several challenges:

- IT investment and ROI
- Generic IT security objectives such as Identity Management, strong user authentication, digital signatures
- Regional technological competitiveness

RegioPKI provides the key for:

- **Interoperable secure eServices provisioning** with a capability to combine bespoke and off-the-shelf solutions with high volume advantages
- **Real return on IT investment** through complete paperless workflows
- **Long term strategic eService provisioning** and development (good investment protection)
- **Knowledge transfer to local enterprises**, new business and eBusiness networking opportunities

RegioPKI® Complete Solution





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