Governmental State Informatics of Slovenia

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Ministry of Public Administration
Slovenia
Websites: 256
Institutions: 56
Private state network
Local networks on 1100 locations
State Single Contact Centre
Administrative Units: 58
Data Centre: 180 applications, 88 data bases
Slovenian Landscape
DataCentre
35,000 e-mail users
233,000 electronic identities
2.5 mio per month Time stamps
State Informatcs in numbers
Vision of the Slovenian State informatics

- Cloud computing as the primary infrastructure for PA
- Single point of access to cloud services for end users
- Horizontal Data Management Services
- Comprehensive catalogue of cloud services
- Common framework for cloud services
Reorganization Action plan

- Analysis of financial, organisational, security, ICT and human resources
- Adoption of State Administration Act
- Single financial plan
- Procurement centralization
- HR consolidation
- Infrastructure consolidation

Years:
- 2014
- 2015
- 2016
- 2017
Transition to cloud computing

- Cooperation between the public administration, private sector and research sphere for innovative solutions
- Modernisation and streamlining of public administration
- Establishing a business information infrastructure
- Establishing a platform for new job openings
- Open services, which transmit data in real time, are easily accessible
- IT solutions which are based on a common data and business platform with underlying cloud infrastructure
- Protection of EU investments in ICT
Operational goals of the transition to cloud technology

- Establishing a **standardised platform** based on open specifications which will also be easily transferable to a foreign PA
- Data management for data driven and transparent PA by BI, big data open data
- Publication of content through open online services directly from the common data layer
- Providing an **innovative environment** which will enable implementation of new e-Services for the private sector
- Establishing a tripartite development model between the public administration, academia and economy
Public Cloud Computing

Slovenian Gov-Cloud

Public sector, Local self-government up to 160.000

Selected public administration up to 30.000

Hybrid Cloud Computing

DRO

HRO
IRO
Innovative-developmental cloud computing
## DRO cloud concept

<table>
<thead>
<tr>
<th>Legislation</th>
<th>„claims“ and border conditions level</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZVOP (personal data)</td>
<td>ZEPEP (eSignature)</td>
</tr>
<tr>
<td>Tax legislation</td>
<td>Customs</td>
</tr>
<tr>
<td>Legislation on spatial planning and environment</td>
<td>Legislation on education</td>
</tr>
</tbody>
</table>

### Modular eServices frameworks
 level „SaaS“

### One central data cloud centre
 level “Iaas”

- Cross-bordered connectors, standards, interoperability
- Links to common EU projects e-SENS STORK ...
- Cloud security?
- Data protection / encryption?
- Protection of personal data?
- Avoidance of vendor lock-in?
- Transferability? Ownership costs?

### Reference Architecture

- Business information architecture and management
- Standardisation of a reusable solution common patterns horizontal solutions
- HKOM network level
Unified approach to information systems development

Open data portal

Business Intelligence and Big data

Identity repository

Open communication standard

Building blocks

Reference architecture
Building Blocks for electronic data gathering

Tray
- central system for electronic data enquiries
- flexible, powerful internal BPM engine, autoresume

IO-module
- common platform for standardized data distribution
- excellent tool for the data owners, attribute control

Asynchronous module
- support for enquiries to data sources where synchronous access is not possible
- waiting room

Security Platform
- standardized management of users and their rights (authentication, authorization)
- human and system users, qualified digital certificates
Reuse of solutions

more reuse, more savings

**TRAY**

5 systems

**IO module**

10 systems

**Security Platform**

8 systems

20,000 users

* source: February 2016
Visibility

• The United Nations Public Service Award UNPSA
  — Winner 2013: Promoting Whole-of-the-government approaches in the Information Age, 1st place Europe & North America
    http://workspace.unpan.org/sites/Internet/Documents/2013 UNPSAWinners%20FINAL.pdf

• OECD Digital Government Toolkit
  — Good practice case:

• National interoperability portal NIO
  — http://nio.gov.si

• EU Joinup interoperability portal
  — https://joinup.ec.europa.eu/search/apachesolr_search/gradniki

• YouTube presentation movies
  — https://www.youtube.com/channel/UCUU5gYqheZD9ZQaQOr_nvag

• EC Study on Open eGovernment Services (SMART 2014/066)
  — one of 10 selected examples of New Generation of eGovernment Services:
Building Blocks for electronic data gathering

Video Presentation

https://www.youtube.com/watch?v=70dxReNOvT4
Trust and security!
e-Identities: citizens, companies

Qualified digital certificates
- citizens
- companies’ employees
- servers

stamps for companies (planned)

Use of mobile devices*

e-Identities: public administration

Qualified digital certificates
- civil servants
- servers

stamps for institutions (planned)

Use of mobile devices*

* Available in Q3 2017
Central building blocks for trust services: “APP store” for developers and project managers

- **Central Authentication System**
- **Cross-border Node (EU)**
- **Central Server Based System for e-Signature**
- **Central System for e-Delivery**
- **Secure Time-Stamping**

* In preparation
NEW e-Government State Portal

in production since November 2015
Key advantages of the new portal

- A good user experience
- Efficient search engine
- Usable on mobile devices
- Usable for people with disabilities
- User-friendly
- Clear content
- Notifications on the status of the resolution of the application
Horizontal building blocks:
- SI-CAS (SI-PASS)
- Signature component
- Security platform
- The tray
- IO modul
- E-payment system
- Pricing

Back-office applications:
- CMS for editors
- System for applications
- Events and gatherings
- Bullentin board
- Search engine
- Piwik

Data sources:
- CRP
- IDVDOJK
- eRISK
- GURS RPE in REN
- MRVL, dMRVL
- eDajatve
- RAZ
- RPS
- PRS
- IPP

Back-office systems for receiving applications:
- SPIS 1.45
- SPIS 4
- INSPIS
- IS-CSD
- FURS
- CKE
- Police
After 1 year....

> 30,000 registered users

> 30,000 submitted electronic applications

25,000 events and meetings

15,000 announcements on the bulletin board

> 6,000 unique daily visitors
THANK YOU!