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European Regional Development Fund



CLASS

Conference 2014

CloudAssisted Services

Slovenian Governmental Cloud

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IT and e-Service Directorate

Ministry of the Interior, Slovenia

Ministry of the Interior
IT and e-Service Directorate
(soon to be under
Ministry of Public Administration)

Responsible for:
State informatics



Slovenian infrastructure in numbers

- Private state network – HKOM: 1995 local networks on 1100 locations
- Data Centre: more than 100 systems, 88 data bases (Ministry of Labour, Family, Social Affairs and Equal Opportunities, Ministry of the Interior, Ministry of Justice, Ministry for Agriculture and the Environment, Ministry of Education, Science and Sport, Ministry of Foreign Affairs, Ministry of Economic Development and Technology, etc., Government Communication Office, Health Inspectorate, Surveying and Mapping Authority, Statistical Office, Customs Administration, Supreme Court, ...)
- e-Government portal: 75 web applications
- 256 websites - 56 institutions
- 58 Administrative Units
- E-mail: 35.000 users
- Digital certificates for public servants, citizens and companies: 130.000 (SIGOV-CA, SIGEN-CA)
- Time stamps: 800.000 / month
- Government Single Contact Centre

Best practice examples

Some best practice examples with international awards

E-VEM (One stop shop for Businesses)

- The United Nations Public Service Award UNPSA 2009 (Improving the delivery of services, 1st place Europe & North America)
- “Good practice label” in the “European eGovernment Awards 2009”

IPP/ITDL system (E-democracy)

- The United Nations Public Service Award UNPSA 2012 (Fostering participation in public policy-making decisions through innovative mechanisms, 2nd place Europe & North America)

Electronic data gathering for e-Social Security

- The United Nations Public Service Award UNPSA 2013 (Promoting Whole-of-the-government approaches in the Information Age, 1st place Europe & North America)

BUT....

Challenges

Reduced staff



Increasing workload



More compliance



Better governance



Mobility



Pressure on budget!!



Deliver public value



Provide attractive and trendy tools



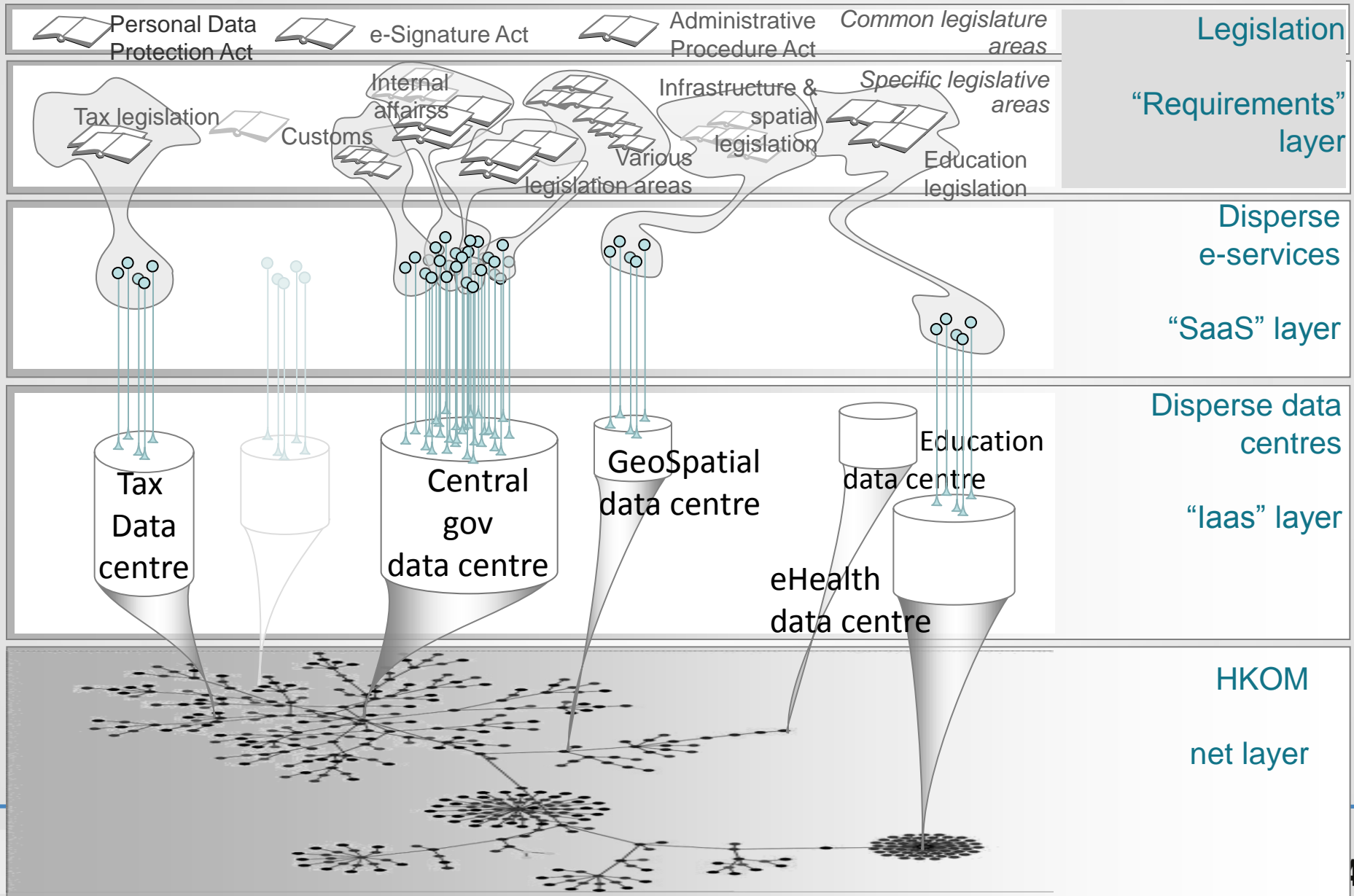
Better IT alignment with business



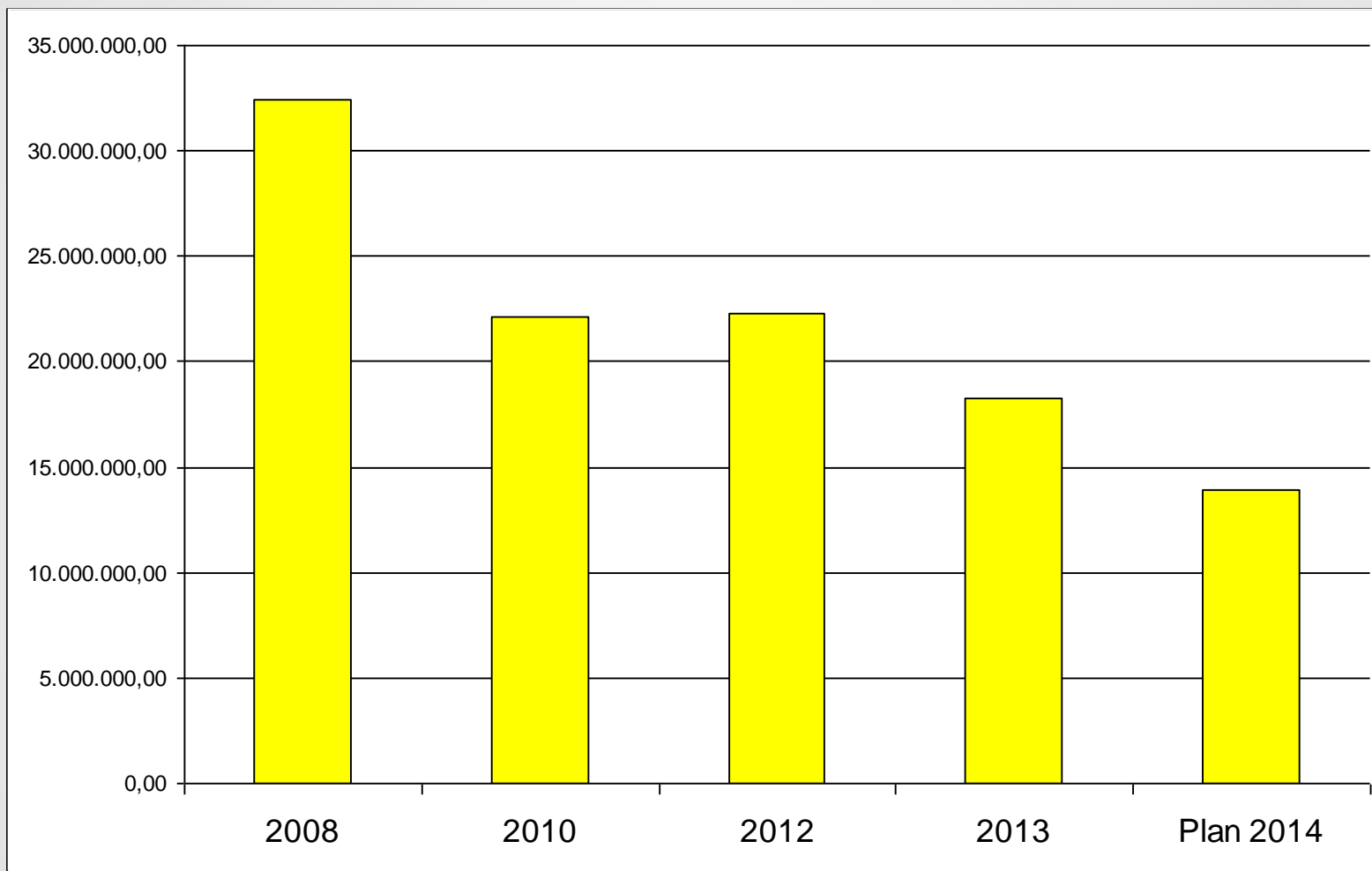
Current situation

- **Poor governance** of informatics in public administration
- Resources (applications, data, technology) are **dispersed, duplicated and non-consistent**
- A number of instances of **similar system developments**
- Solutions among different public institutions are not **interoperable**
- **Inefficient budget spending** due to lack of common strategy, objectives and unique architecture

Current situation

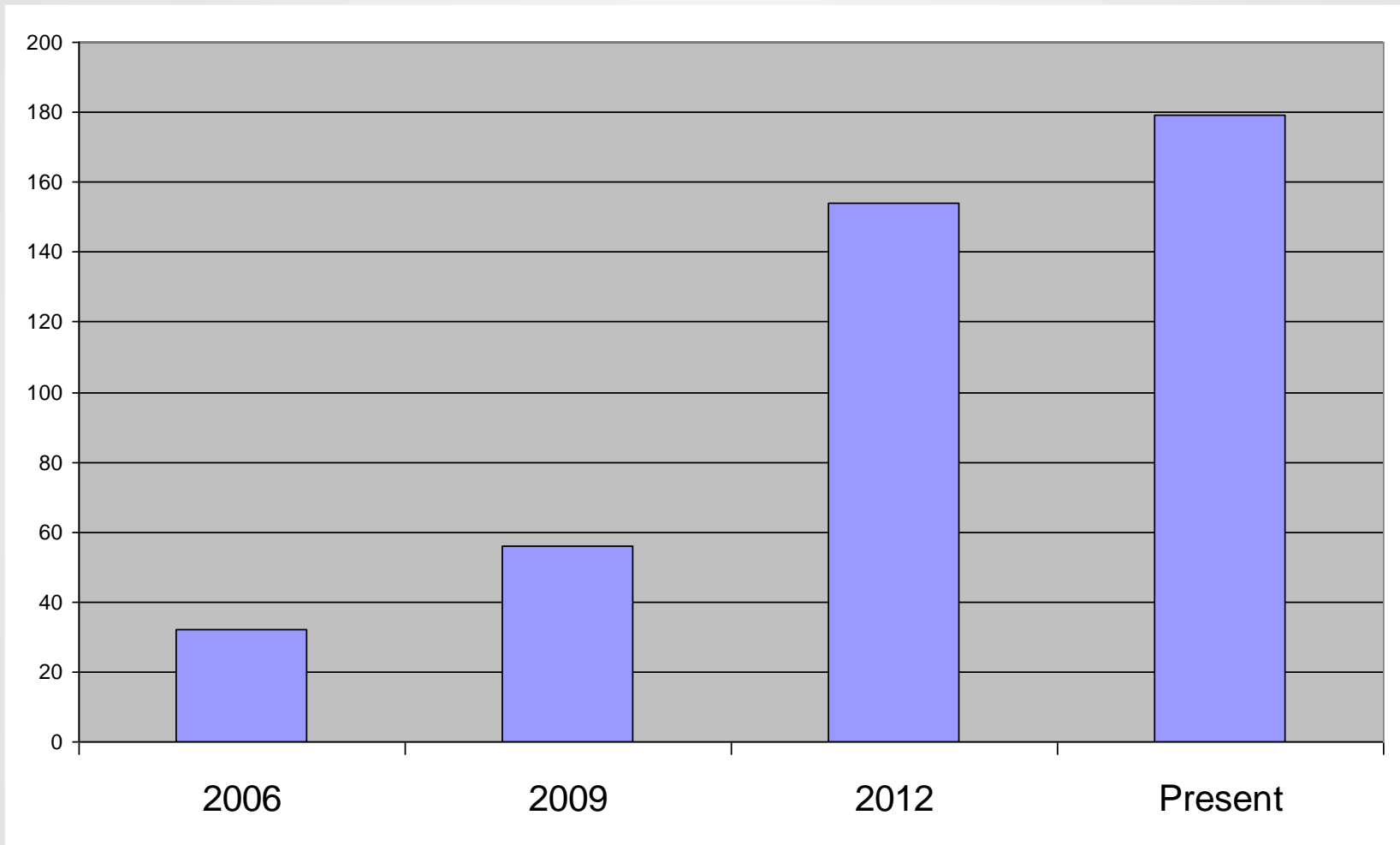


Budget cut over the years



Increasing demand for application support

No. Appl.



How to achieve modern, agile and more efficient public administration?



Action Plan from 2010

Projekti B

Strateško upravljanje e-poslovanja (AN SREP)

Skupne metode (Metodološki okvir, Metodološki okvir Nacionalnega programa, Podpora za vse-vključujočo e-upravo, Informacijska varnost (IVP), Aktivnosti glede prenosa znanja) ... faktorov e-uprave, AN SREP, Politika predpisov na IKT, Podpora za vse-vključujočo e-upravo, Informacijska varnost (IVP), Aktivnosti glede prenosa znanja

Common policies

Skupne centralne aplikativne rešitve (A.2): Interoperabilnostni portal NIO, Informacijska podpora projektom, Podpora izvajalnim, Vročanje, e-Obveščanje, e-Obveščanje z velikimi datotekami), Informacijske podpore postopkov priprave predpisov, e-Pooblaščenje, Generični sistem za izvajanje anket/vprašalnikov IPM, Enotni kontaktni center, Skupne aplikativne rešitve za notranje poslovanje državnih organov

Shared services

Skupni ponovno uporabljivi gradniki (A.3): Centralna storitev za avtentikacijo, Varnostna shema, Centralna shema, Enotno shema, Komponente, Referenčno Javansko izvajalno okolje JBOSS, Sistem za upravljanje sprememb IS (SVN) ... potrdil na MJU, strukturne

Reusable modules

Centralna infrastruktura ... Centralna infrastruktura, Centralni sistem

Shared infrastructure

An example: Authentication system



New project “QUANTUM LEAP”

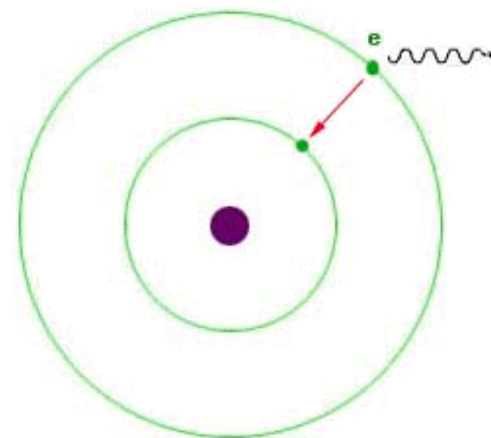
Main drivers:

- Response to the **public administration modernization** efficiency & effectiveness and good governance
- Rapid **technological development**
- Economic challenges: **do more and better with less resources**

Quantum leap

The electron “jumps” from one energy level to another.

$$-\frac{\hbar^2}{2m} \Delta \Psi(\vec{r}, t) + W_p(\vec{r}, t) \Psi(\vec{r}, t) = i\hbar \frac{\partial \Psi(\vec{r}, t)}{\partial t}$$



Ultimate goal of “QUANTUM LEAP”

- Centralization of state informatics in a way to **lower the expenditure for informatics**
- Providing the **modern services required** and enhancing development
- **Consolidate public sector informatics**

“QUANTUM LEAP”

Key improvements:

- Establishment of **private cloud of public administration**
- **Centralization of resources and development** of core unit of knowledge and expertise
- **“Quick win”** - solutions delivered quickly with visible improvements and immediate benefit
- Supporting projects with **clear ROI and rigorous supervision**

IZHODIŠČA NADALJNEGA RAZVOJA RAČUNALNIŠTVA V OBLAKU V JAVNI UPRAVI RS

Not yet adopted!

*Dolgoročni program »Računalništvo v oblaku kot gorivo za napredek«
pomeni sodelovanje javne uprave, zasebnega sektorja ter raziskovalne
sfere za inovativne rešitve s ciljem modernizacije in racionalizacije
državne uprave ter vzpostavitev platforme za nova delovna mesta in
zaščita investicij EU sredstev na področju IKT*

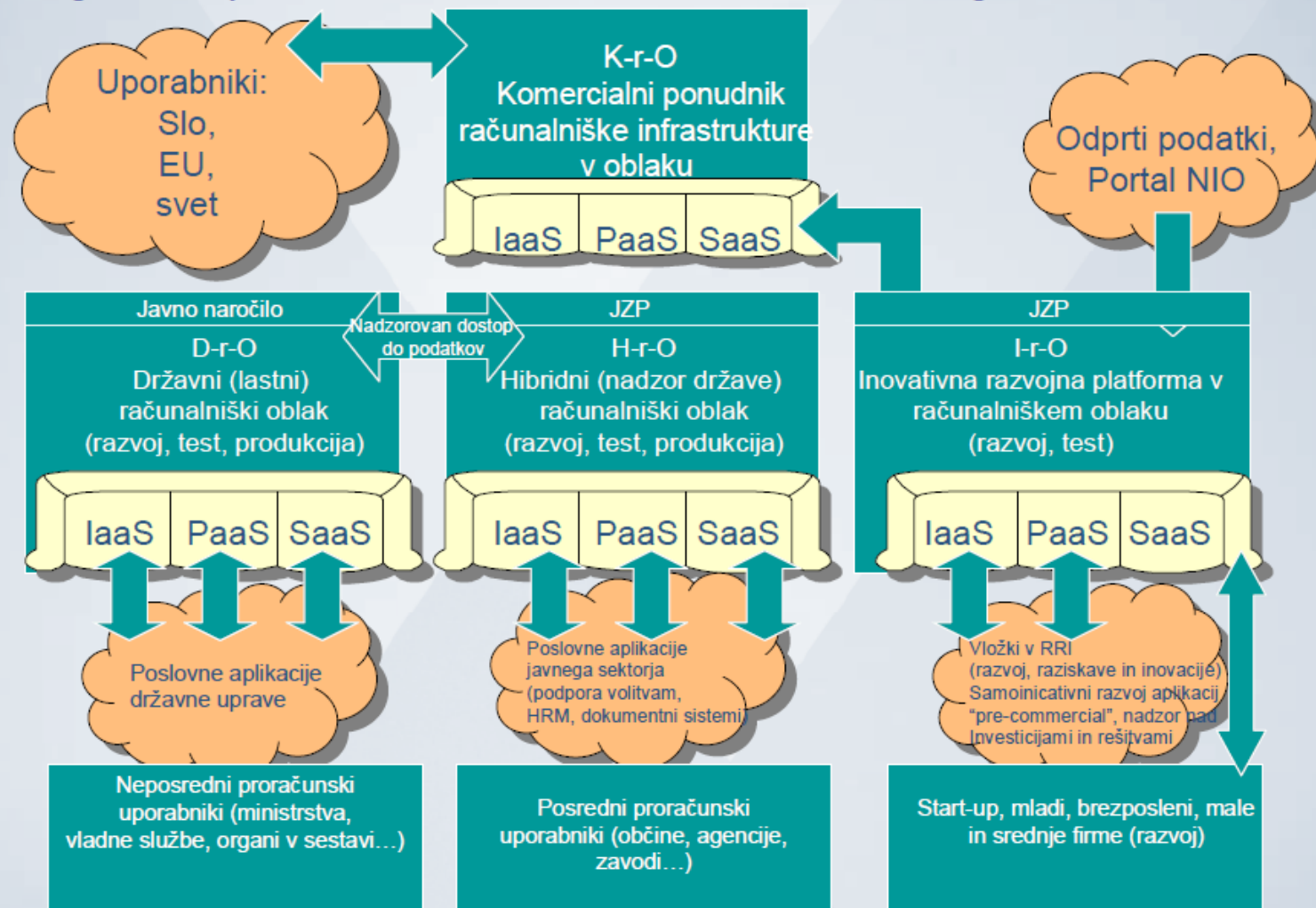
Vision and goals

Clear vision for different goals:

- Increased **innovation opportunities for service providers**, including SMEs and public administrations, evidenced through implementations of advanced cloud infrastructures and services
- **Promotion of the reuse of open data and open service solutions** in cloud environments, in particular published by public administrations.
- Reaching the **high level of standardization** by setting up secure Reference Architecture for Cloud Computing along the development the appropriate Reference Development Environment with priority on security

The Cloud Enabled Government

Logični okvir platforme računalništva v oblaku, EU sredstva za digitalna delovna mesta

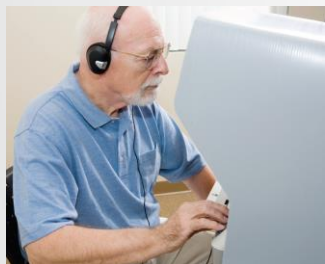
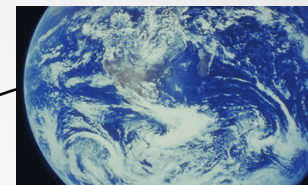


Supporting Shared Services

Common Services –
HRM, BI, Data
Storage...



Shared Processes
(Health Care, Tax
and Benefits...)



Citizen-centric
services

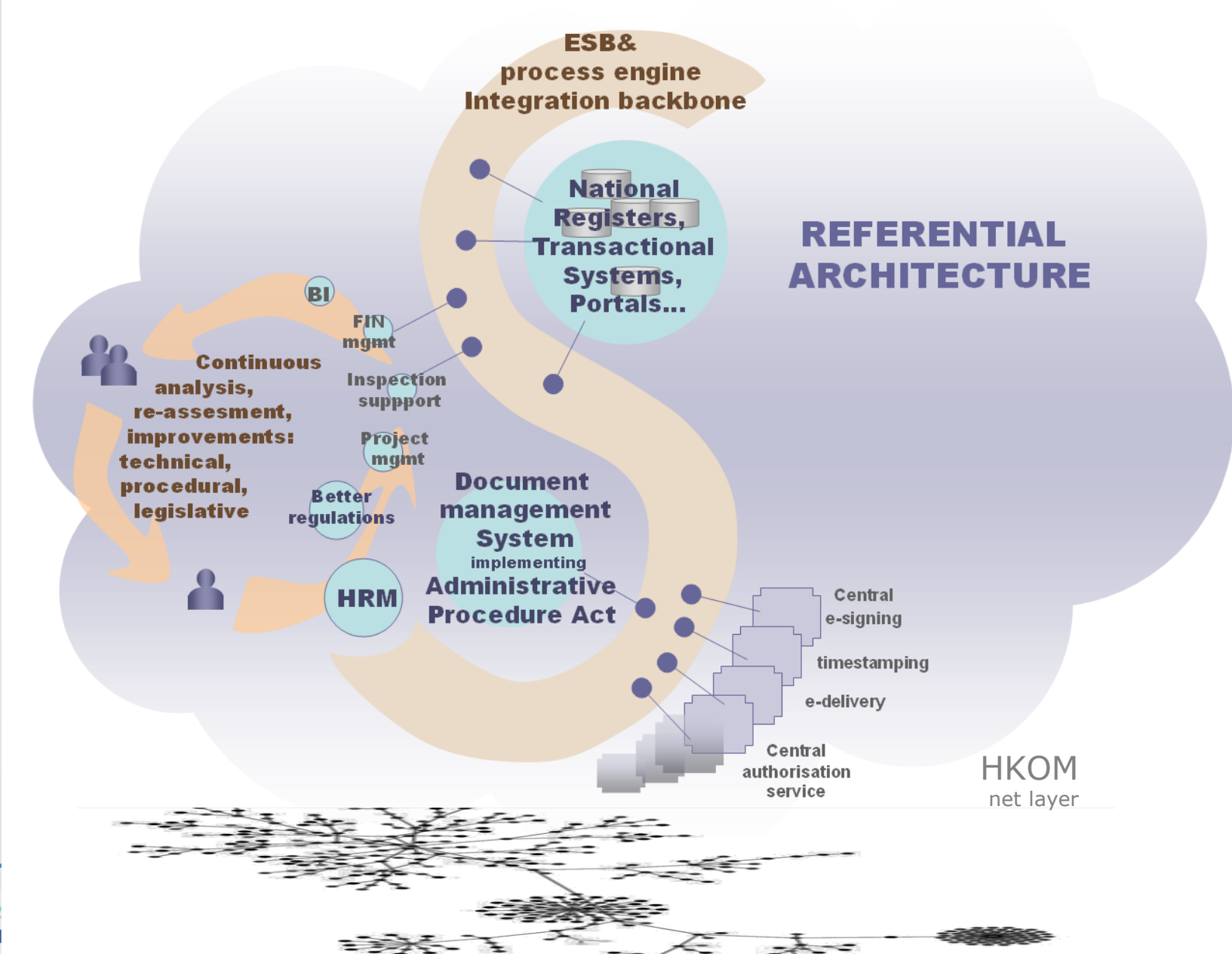


Business-centric
services

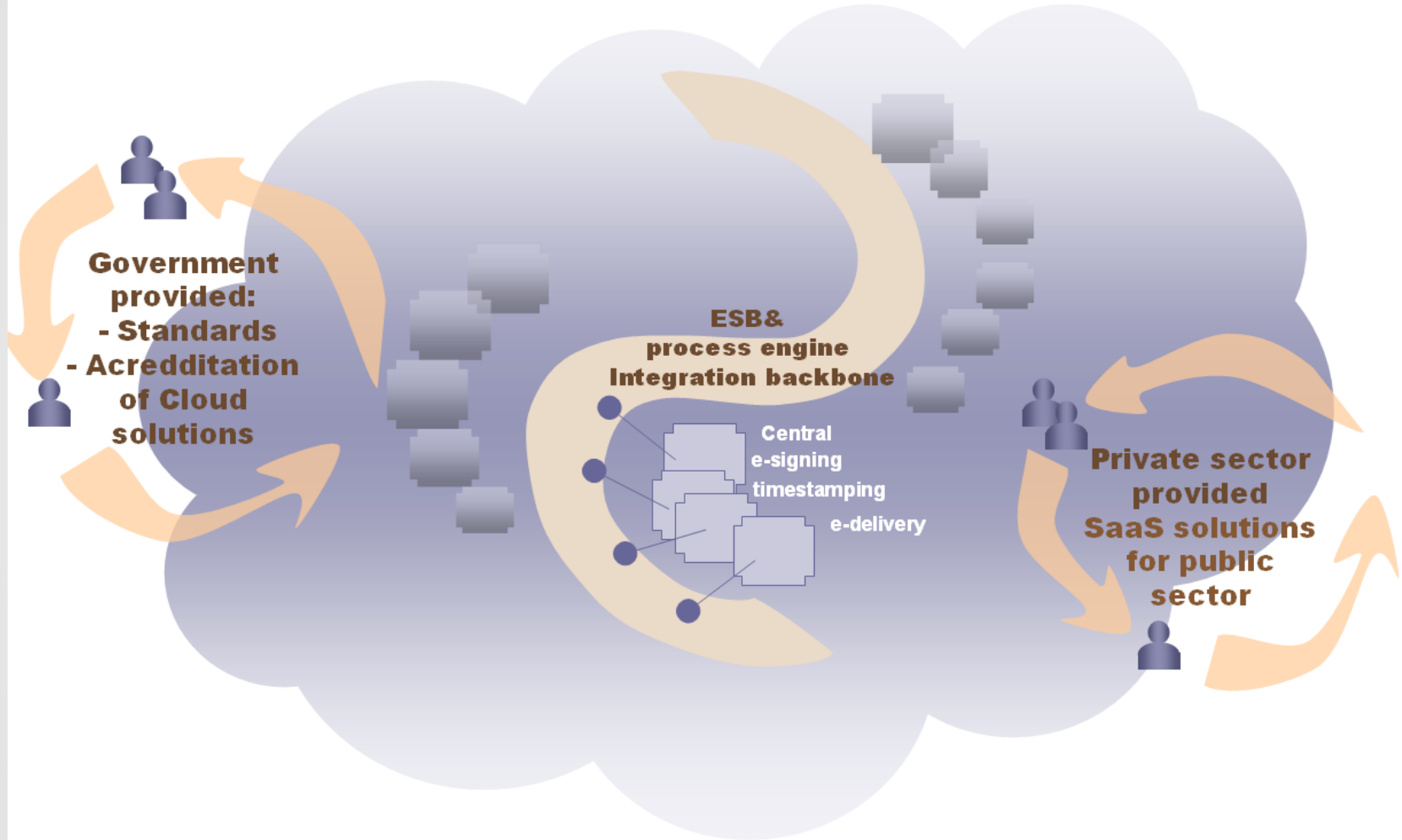


Secure Infrastructure
Services

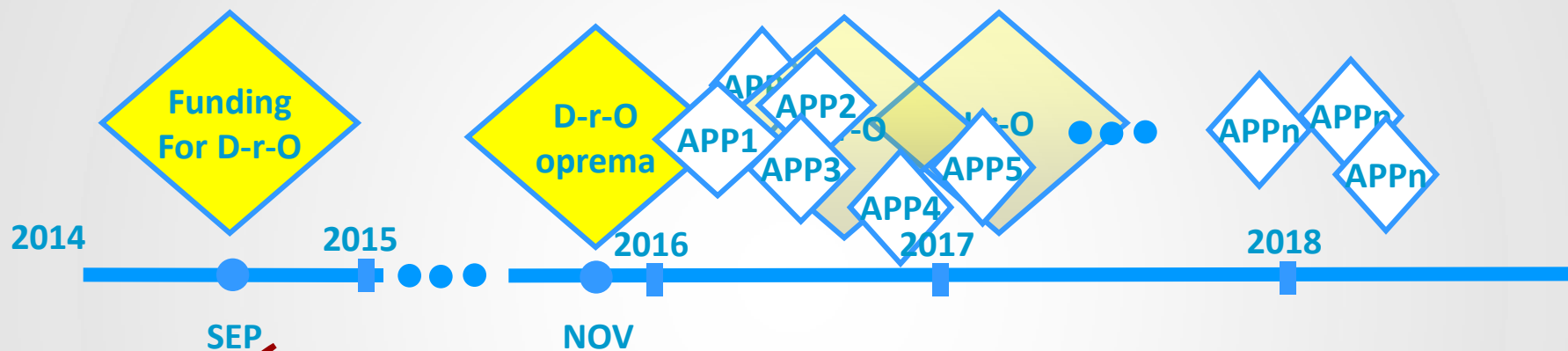
State Cloud D-r-O



Public sector Cloud – Hybrid Cloud (H-r-O)



Časovnica



Evropski sklad za regionalni razvoj:
14 mio EUR

Predvidene potrebne zmogljivosti

- 328 procesnih jeder
- 10.240 GB RAM
- 594 TB diskovnega prostora

Public
sector cloud use
as a **collaboration** between
public authorities and **industry**
through **pre-commercial**
procurement

Making it happen!



Thank You

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