

Genís

User friendly IT solutions

Population registers

Stane Štefančič

**Chairman
GENIS Ljubljana
SLOVENIA**

Ljubljana, 25.9.2013

- ✓ Central population Register
- ✓ Information system for Voting-Elections
- ✓ Project of information RCS and Renovation of RPP
- ✓ Information System for Biometric Passports & ID cards
- ✓ Q&A



Genis → your PARTNER

o **20 years** of successful IS development

o **top 20+** IT solutions:

✓ **MANAGED Public e-Procurement**

- **[e Računi]** (auctions, requirements, tenders, contracts, orders, invoices)

✓ **[e Proj]** **Project Management System**

✓ **e-Archive** **electronic ARCHIVING System**

✓ **e-Government solutions**

- **Public registers with DW:** CPR, RCS, RPP, RF, RC, Property, Asylum&Ref., Weapon&Explosives, Society&Foundations,...
- **Travel documents:** Biometric passports, personal ID cards
- **Voting:** Local-municipalities, Presidential, Parliamentary, Referendum
- **Interoperability:** e-CPR&portal, e-Births, ECRN, RISER, PanEU,...

Genis Mission

- “ Genis enables partners
Implementation of **NEW** business models
with **INTEGRATION** of **SERVICES** in
- organization,
 - processes and
 - usage of information technology.”



Genis solutions for e-Government

Public registers

- Register of Civil Status
- Register of Permanent Population
- Register of Foreigners
- Register of Citizens
- Asylum Register
- Register of Refugees

Interoperability

- IO Kindergartens
- PanEU
- e-Births
- eCRN

Central Population Register

Travel documents

- Biometric passports
- ID cards
- e-Photographer

Business intelligence

- e-Elections
- Data warehouse

Genis

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Central Population Register

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REGISTER ORGANIZATION

Orientation has already become organization!

Base registers in Slovenia (base entities):

1. Central Population Register
2. Register of Territorial Units
3. Register of Businesses
4. Property register

Role of RCS: one of the main data sources

Registers are national intellectual heritage of a nation.

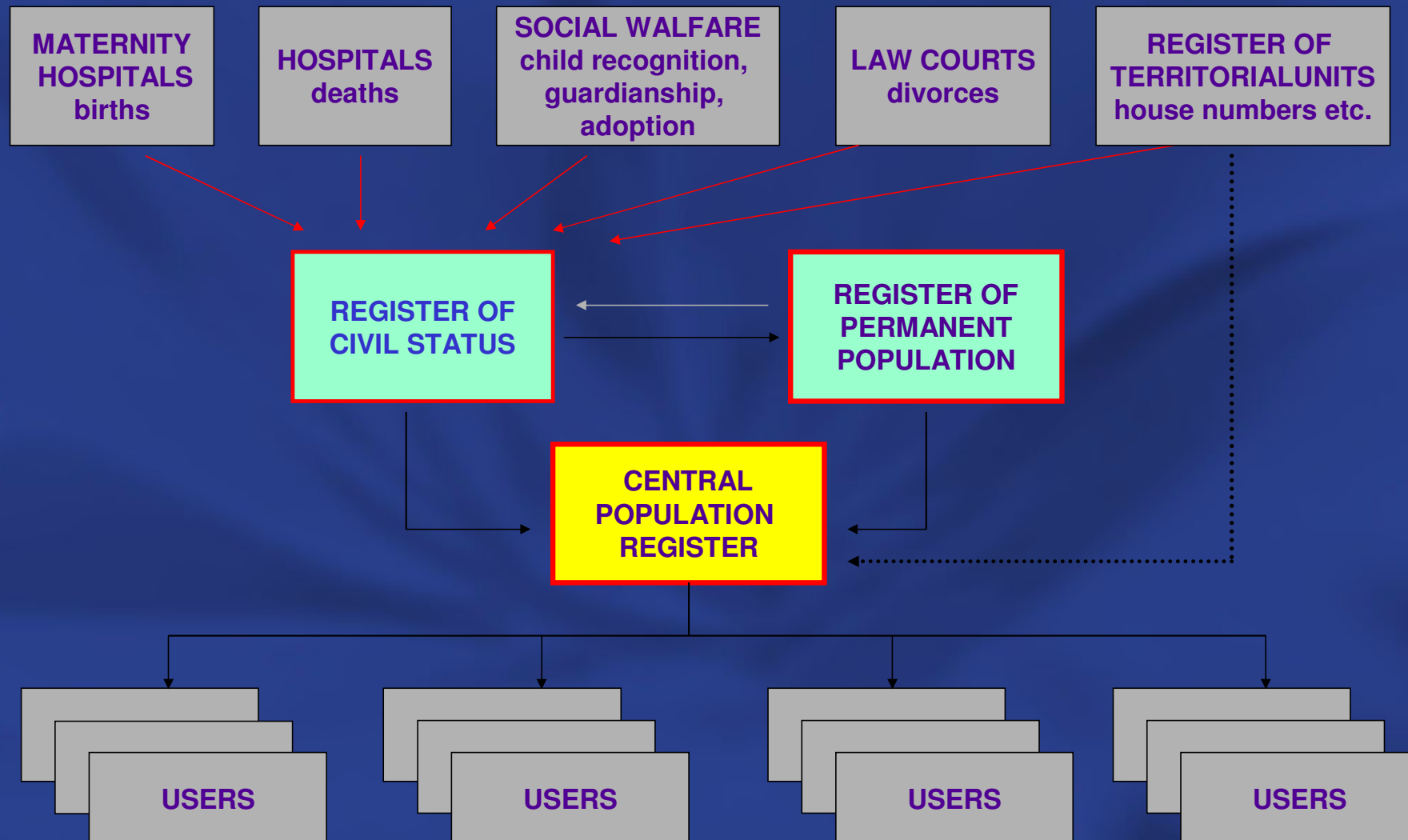
<http://www.mkm.ee/regno>

RELATIONS in e-Government

CPR is involved in all procedures of e-government, if personal data are requested:

- **G2G**: data sources, tax, land survey, health & pension & social insurance, defence, law courts, property, statistics, elections, local communities, ...
- **G2B**: insurance co., banks, private co...
- **G2C**: services for citizens: e-signature, some application forms & VLOP

G2G – RELATIONS



Genis e-Government : architecture of registers

Portals, web applications...

Generic e-government system

G2C, G2G, G2B, EUP-LS

INTEROPERABILITY

e-Payment, PKI, e.Delivery

USER access
to REGISTERS

RCS,
RPP, RF, RC

Ministry of Interior

CPR

e-CPR

Ministry of Interior

Pension

Health

Social

Garant

Criminal

Communs

Certificats

OTHER

BRS

Ministry of Finance

RTU

Ministry of Environment

Law register

Ministry of Justice

RPS

Ministry of Justice

VAT

Ministry of Finance

Land
books

Kataster

CPR - CORNERSTONES

- **1970 – Act (CRP)**
- **1980 – beginning of data base and PIN**
- **1989 – begining of mass data dissemination (classical e-media)**
- **1996 – GENIS selected as partner for develepment and support**
- **1998 – from Statistical Office to the Ministry of Internal Affairs**
- **2000 – Oracle data base**
- **2002 – E-government, e-CRP/population**
- **2005 – change of data sources (RCS)**

CPR – THE CONTENTS (1)

Basic personal data on:

- Slovenian citizens/residents in Slovenia**
- Slovenian citizens abroad (right to vote)**
- foreigners/residents in Slo. (full coverage)**
- other foreigners with rights/duties in Slo.**

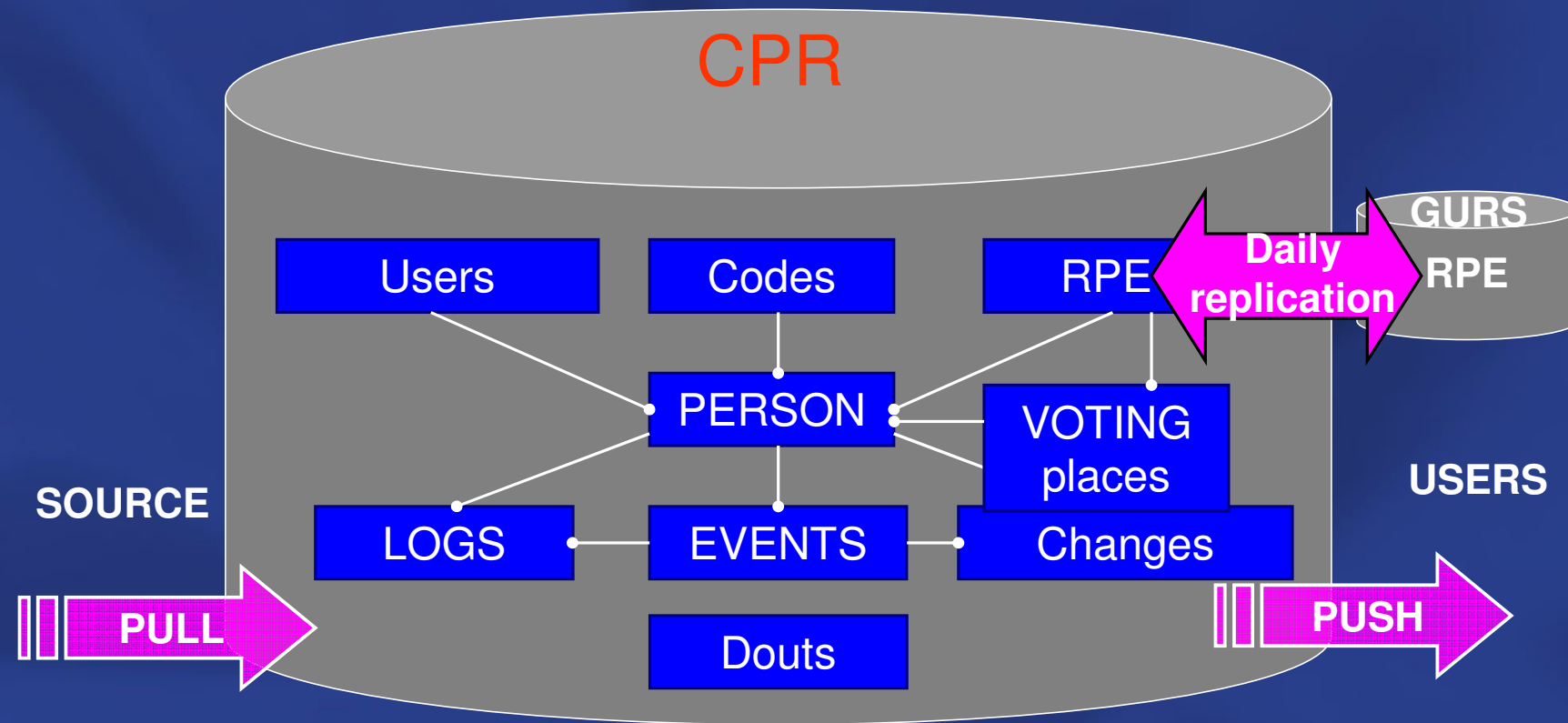
CPR – THE CONTENTS (2)

- PIN (date of birth, sex) - EMŠO
- personal name, place of birth
- permanent/temporary place of living
- address of citizens abroad (elections)
- personal right to vote
- marital status, citizenship
- tax number
- technical data (events, changes, statuses, dates, info on updating/using data)

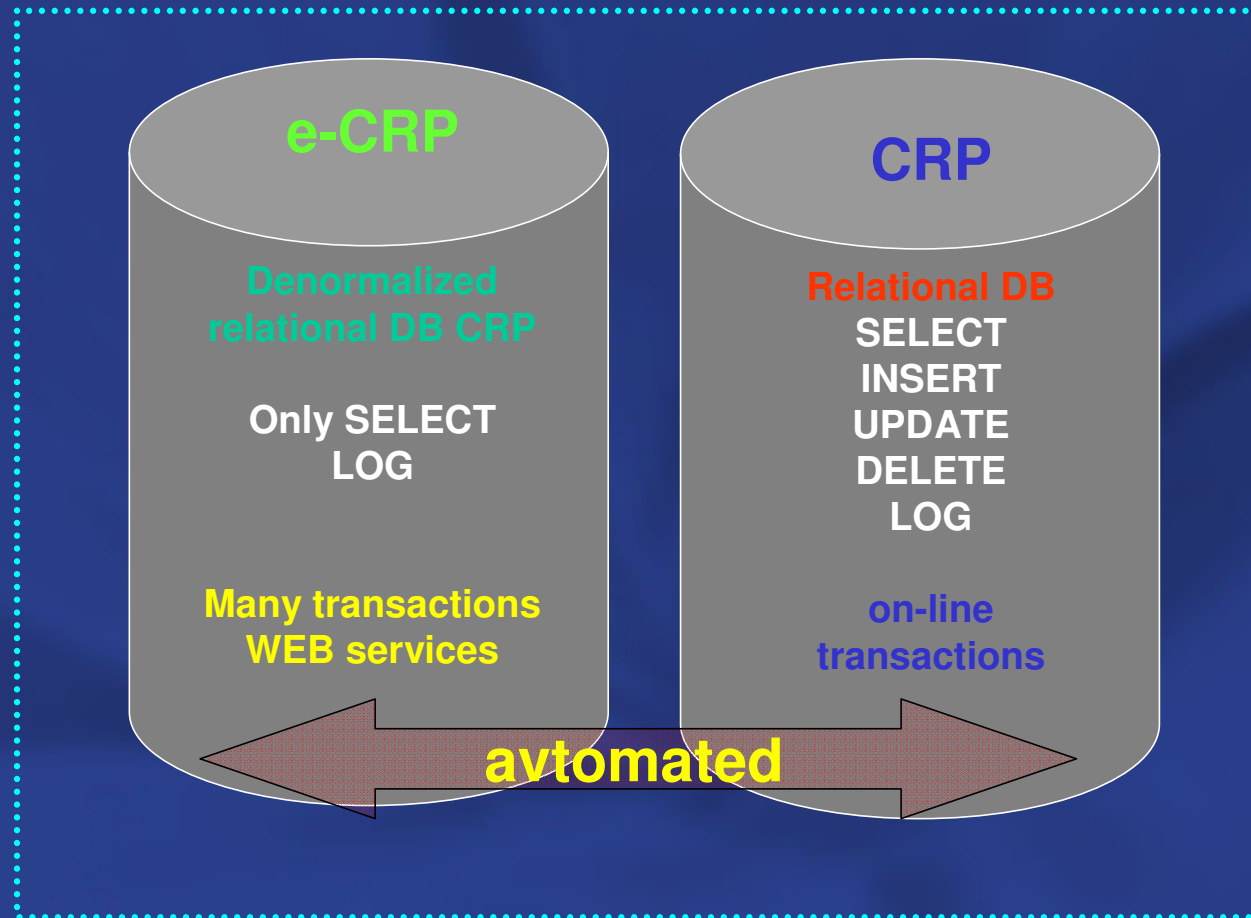
CPR – MAIN TASKS

- assignment of PIN (centrally!)
- central data base for population data
- “data junction” – we collect basic personal info. at one central place and distribute it from one place
- lists of voters at elections/referendums
- mass dissemination (40 mio in 2005)
- common dissemination data base in e-government for population data

Genís



e-CPR vs CPR



Genis

User friendly IT solutions

Information system for Voting-Elections

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SLOVENIA

ELECTIONS/VOTING

- **Printing & Distribution of voting lists from CPR**
- **Registration of candidates**
- **Registration of parties**
- **Control of quotas**
- **Evidence of voters on 11, 16 and 19 hours**
- **Data entry of results**
- **Calculations of results by dHount and Harey**
- **Very quick lists of elected candidats-mandats**

Local voting

- **45.000 candidats**
- **3500 voting places**
- **1 milion transactions per hour**
- **< 1s response time in the internet**
- **100% availability**
- **succesfull first time project**

Project Informatization of the RCS and renovation of the RPP

Stane Štefančič

**Chairman
GENIS Ljubljana
SLOVENIA**

Projects objectives

- ✓ Organizational Transformation
- ✓ Business Process Reengineering
- ✓ IT technology Renovation

Used methodologies

- The Methodology of Project Management by the Slovenia governmental standards.
- IE - James Martin – Information Engineering
 - o Phase approach
- ORACLE CDM Methodology
 - Supports Oracle Designer
- IBM Websphere Application Development
 - Supports JAVA programming

Project phases (1)

✓ **PROJECTING**

jan-may 2004

- Strategy
- Definition
- Analysis
- Design

✓ **BUILDING**

aug-dec 2004

- Specifications
- Prototypes
- Business rules
- Programming

✓ **TESTING**

jan-mar 2005

- testing scenarios
- testing protocols

✓ **MIGRATION**

mar-apr 2005

- Data migration from old to new system

Project phases (2)

✓ **INTEGRATION**

feb-apr 2005

- Old system
- CPR
- Other registers
- Programming

✓ **EDUCATION**

mar-apr 2005

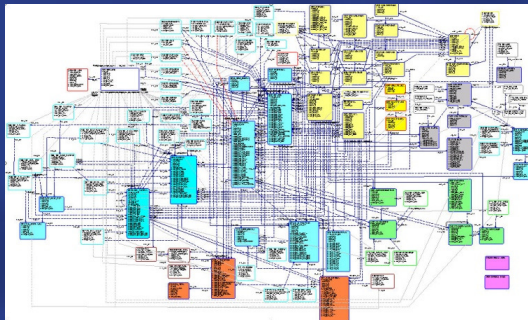
- more than 500 participants

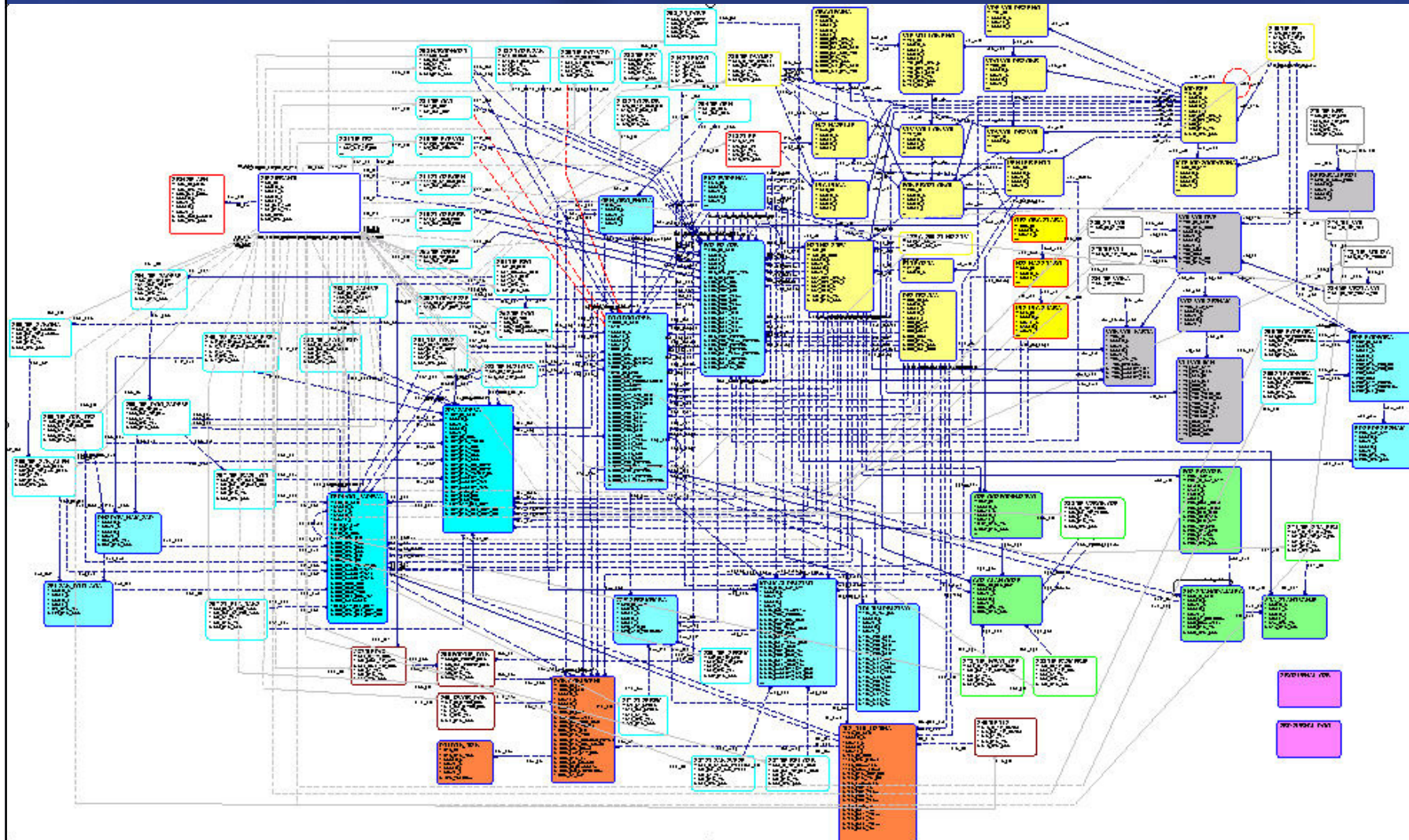
✓ **PRODUCTION**

3rd May 2005

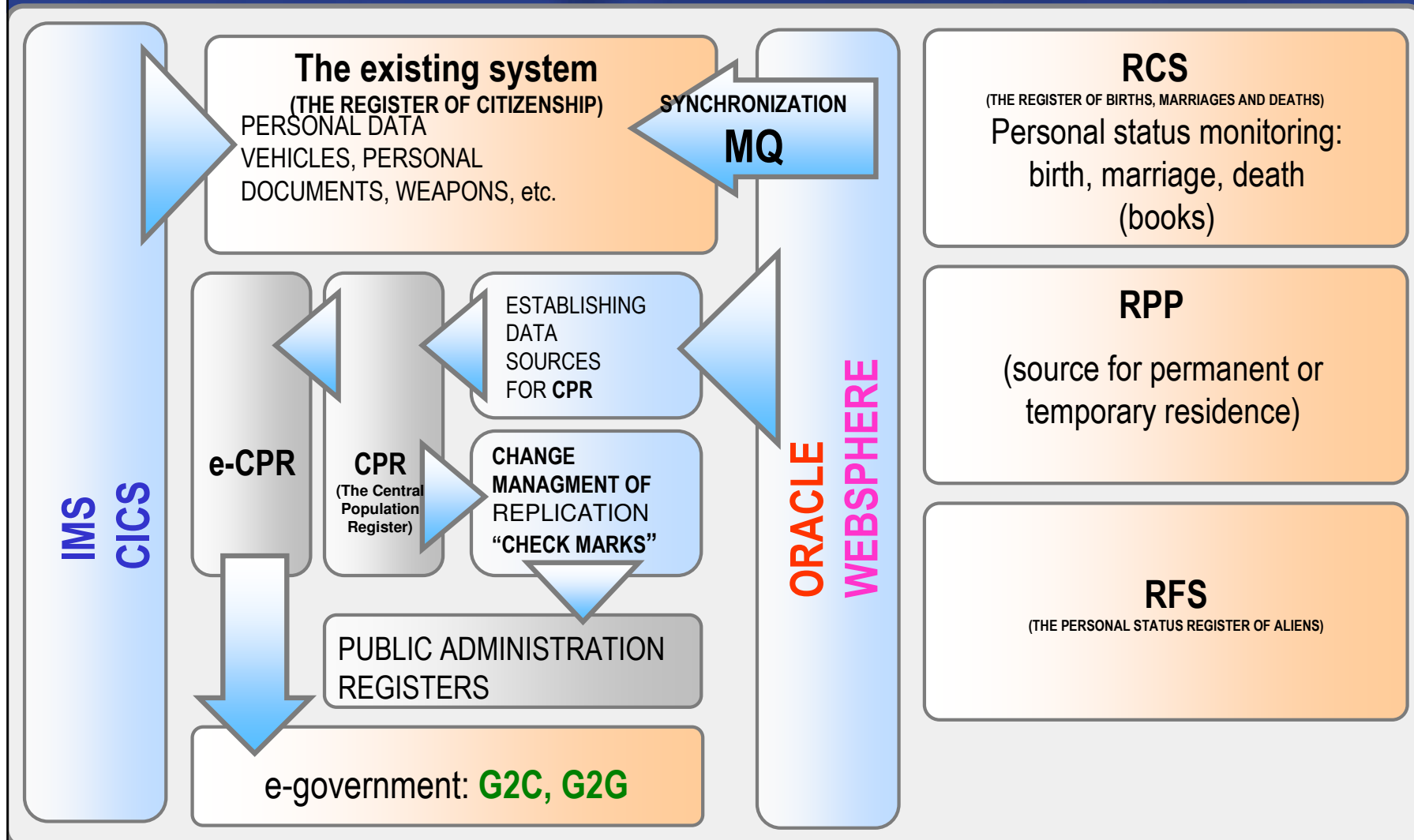
Data modeling

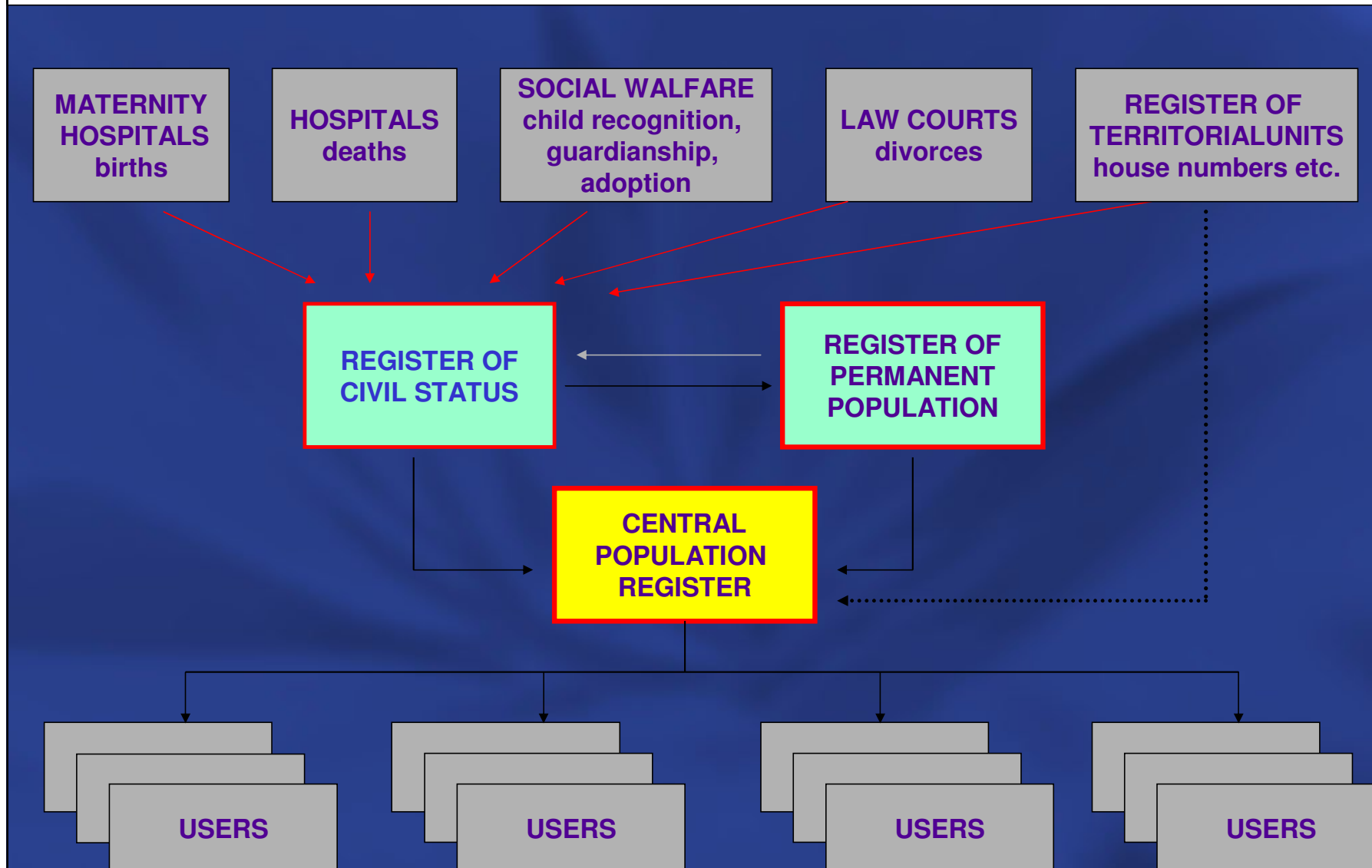
- Entities
- Relationships
- Attributes
- Sub models
- Code tables
- State tables
- Event tables
- Registries sub models
- Tables for official processes and affairs
- Documents
-





Integration of Registers





Life events of Slovenian citizens:






- birth, marriage and death – irrespective of the place of event (either in Slovenia or abroad).

Life events of foreigners:

- birth, marriage and death – only if it takes place Slovenia.

Changes of personal status of Slovenian citizens:

change of name and/or surname (=personal name),
child recognition, acquisition/loss of Slovenian
citizenship, adoption, loss/return of functional
capacity, guardianship, divorce, etc (=not for foreigners!)

-  the person not yet recorded in RCS,
-  recording in preparation (entry not yet finished),
-  the person already recorded in RCS,
-  the person is foreigner with well-managed state in RS
-  the person had died before the 3rd of May 2005



Republika Slovenija

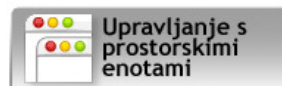
Ministrstvo za notranje zadeve

User: **Uporabnik LPRET** AU: **AJDOVŠČINA**

02. april, 2008 / 08:51:30



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Novice za:

| [Arhiv novic](#) |

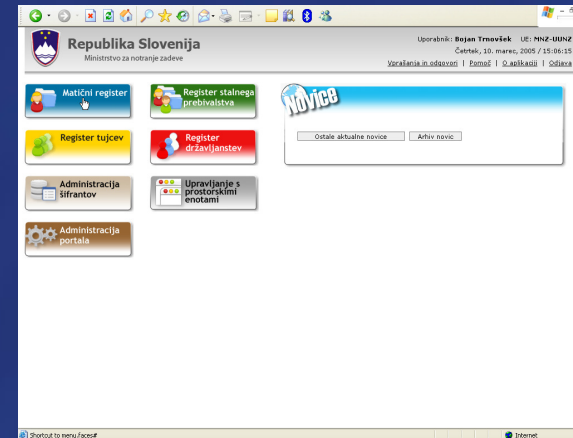
- 18.03.2008 Okrožnica **MATIČNI REGISTER â€" pojasnilo v zvezi z novo transakcijo MR57 â€" Priznanje očetovstva pred rojstvom otroka**
- 11.03.2008 Okrožnica **Novosti v buildu MR6.30 in MR6.40**
- 06.03.2008 Okrožnica **TUJCI, ki prihajajo v Republiko Slovenijo z namenom dela ali zaposlitve - problem**
- 29.02.2008 Okrožnica **Izdaja osebnih dokumentov na 29.2.2008**
- 12.02.2008 Okrožnica **Težave v delovanju registrov MRRSP**
- 11.02.2008 Okrožnica **Težave v delovanju registrov MRRSP**
- 11.02.2008 Okrožnica **RSP - Popravljanje fiktivnega datuma - 1.1.1000 in 29.4.2005**
- 05.02.2008 Okrožnica **Izdaja potnih listin in vnos oseb v matični register**
- 24.01.2008 Objava **Test novica Genis**
- 24.01.2008 Okrožnica **Potrčila iz uradno vodenih evidenc so takse prosta-novosti zakona o upravnih taksah**

Used IT Technology

- ❑ ORACLE 10g database - UNICODE
- ❑ WEBSHPERE 5.2 application server
- ❑ MQ series integration
- ❑ Internet Explorer 6
- ❑ SECURITY-PIN card, private network
- ❑ Adobe Acrobat 7.0- printout

User friendly application

- ✓ Simple
- ✓ Easy to use
- ✓ Transactional
- ✓ Intuitive
- ✓ Contextstual
- ✓ Fast response time < 0.5 s



Birth Marriage Death Change of civil status Inscription of historical records Searching Reviews Printing

▼ Birth

- ▶ Prepared for registration
- ▶ Citizen of the Republic of Slovenia
- ▶ Subsequent registration (PIN has not been assigned, yet)
- ▶ Foundling
- ▶ Stillbirth
- ▶ Foreigner
- ▶ Subsequent registration (PIN has been assigned)

Selected person: //

MR10 Birth > Citizen of the Republic of Slovenia > Stran 1 od 3

Next >

Save as draft

Refresh

e-Births

View comment

Add comment

PIN

Surname and name of child - additional characters

Surname

Volf

Name

Miha

Surname for legal operations

Volf

Name for legal operations

Miha

Date and place of birth

Date of birth

01.03.2008

Hour of birth

13:35

Municipality

061

Ljubljana

Settlement

011

Ljubljana

Street

1142

Štajmerjeva ulica

003

Sex

M

Citizenship

705

Slovenije

Legal ground

1 - By origin

Vitality

1 - Live birth

Kind of birth

1 - Single

Next >

Save as draft

Refresh

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Add comment

▼ Birth

- ▶ Prepared for registration
- ▶ Citizen of the Republic of Slovenia
- ▶ Subsequent registration (PIN has not been assigned, yet)
- ▶ Foundling
- ▶ Stillbirth
- ▶ Foreigner
- ▶ Subsequent registration (PIN has been assigned)

Selected person: //

MR10 Birth > Citizen of the Republic of Slovenia > Stran 2 od 3

Next > < Back Save as draft Refresh

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PIN / Surname/ Name / Volf / Miha

Data on mother

PIN	2309969505027	Search	Date of birth	23.09.1969	...
Surname	Volf				
Name	Inge				
Citizenship	705 Slovenije	...			
Permanent residence	1 - Slovenia	▼			
Municipality	061 Ljubljana	...	Settlement	001 Besnica	...
Street	0000 Besnica	...	12		...

Data on father

PIN	2309969500026	Search	Date of birth	23.09.1969	...
Surname	volf				
Name	Ciril				
Citizenship	Slovenije	...			
Permanent residence	1 - Slovenia	▼			
Municipality	Ljubljana	...	Settlement	Besnica	...
Street	BESNICA	...	12		...

Residence of child

At	1 - Materi	▼
----	------------	---

Next > < Back Save as draft Refresh

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Birth Marriage Death Change of civil status Inscription of historical records Searching Reviews Printing

▼ Birth

- ▶ Prepared for registration
- ▶ Citizen of the Republic of Slovenia
- ▶ Subsequent registration (PIN has not been assigned, yet)
- ▶ Foundling
- ▶ Stillbirth
- ▶ Foreigner
- ▶ Subsequent registration (PIN has been assigned)

Selected person: 0103008500014 / Volf / Miha

MR10 Birth > Citizen of the Republic of Slovenia > Stran 3 od 3

< Back Save as draft Refresh Confirm

Določitev EMŠO View comment Add comment

PIN / Surname/ Name / Volf / Miha

Person who reports/sends notification

Type of person 05 - Porodnišnica ▼

Person 006 Klinični center Ljubljana ...

Date of receiving notification 03.03.2008 ...

Legal ground of registration

Type 01 - Prijava ▼

Name 01 - Prijava rojstva ▼

Type of issuer 05 - Porodnišnica ▼

Issuer 006 Klinični center Ljubljana ...

Code 4111

Date of issue 03.03.2008 ...

Date of validity 03.03.2008 ...

Place of storage

Code of storage -

Supplements

Add Edit Delete

< Back Save as draft Refresh Confirm

View comment Add comment

Birth Marriage Death Change of civil status Inscription of historical records Searching Reviews Printing

▼ Marriage

- ▶ Prepared for registration
- ▶ Citizen of the Republic of Slovenia
- ▶ Subsequent registration
- ▶ Foreigner

Selected person: //

MR30 Marriage > Citizen of the Republic of Slovenia > Stran 1 od 3

Next > Save as draft Refresh

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Bridegroom

PIN	2312974500026	Search	✓	Date of birth	23.12.1974
Surname	Volf				
Name	Ciril				
Citizenship	705	Slovenije			...
Place of birth	1 - Slovenia ▼				
Municipality	096	Ptuj	...	Settlement	016 Ptuj
Surname after marriage	<input type="text"/> <input type="text"/> <input type="text"/>				
Surname for legal operations	<input type="text"/> <input type="text"/> <input type="text"/>				

Bride

PIN	2612955505029	Search	✓	Date of birth	26.12.1955
Surname	Novak				
Name	Anita				
Citizenship	705	Slovenije			...
Place of birth	2 - Foreign country ▼				
Country	191	Hrvaška			...
Place	Sdfsdf				
Surname after marriage	<input type="text"/> <input type="text"/> <input type="text"/>				
Surname for legal operations	<input type="text"/> <input type="text"/> <input type="text"/>				

Next > Save as draft Refresh

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Birth Marriage Death Change of civil status Inscription of historical records Searching Reviews Printing

▼ Marriage

- Prepared for registration
- Citizen of the Republic of Slovenia
- Subsequent registration
- Foreigner

Selected person: //

MR30 Marriage > Citizen of the Republic of Slovenia > Stran 2 od 3

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Witnesses to a marriage

PIN	0508965500042	Search	✓	Date of birth	05.08.1965	...
Surname	Novak					
Name	Adisir					
PIN	2003933500051	Search	✎	Date of birth	20.03.1933	...
Surname	Novak					
Name	Adolf					

Data on marriage

AdmUnit	01	Ajdovščina	...
Official site	001 - Dvorec Zemono		
Place	Ajdovščina		
Date	01.04.2008	...	
Hour	12:00	...	
Registrar	Mojca Mavec		
Authorized person	Robi Cerar		

☐ Interpreter ☐ Mandatar

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Birth Marriage Death Change of civil status Inscription of historical records Searching Reviews Printing

▼ Marriage

- ▶ Prepared for registration
- ▶ Citizen of the Republic of Slovenia
- ▶ Subsequent registration
- ▶ Foreigner

Selected person: //

MR30 Marriage > Citizen of the Republic of Slovenia > Stran 3 od 3

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Preverite datum sklenitve ZZ

Legal ground of registration

Date of receipt of notification	01.04.2008	...
Type	06 - Listina	▼
Name	01 - Listina o sklenjeni zakonski zvezi ▼	
Type of issuer	01 - Upravna enota	▼
Issuer	005	Črnomelj
Code	2342342	
Date of issue	01.04.2008	...
Date of validity	01.04.2008	...
Place of storage		
Code of storage	-	

Supplements

Add Edit Delete

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▼ Death

- ▶ Prepared for registration
- ▶ Citizen of the Republic of Slovenia
- ▶ Found corpse
- ▶ Legal procedure
- ▶ Administrative procedure
- ▶ Subsequent registration
- ▶ Foreigner
- ▶ List of found corpses

Selected person: 2309969505027 / Volf / Inge

MR20 Death > Citizen of the Republic of Slovenia > Stran 1 od 3

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PIN	2309969505027	Search	✓	Date of birth	
Surname	Volf				
Name	Inge				
Place of birth	1 - Slovenia				
Municipality	041 Jesenice			Settlement	007 Jesenice

Spouse / Partner

PIN	2312974500026	Search	✓	Date of birth	23.12.1974
Surname	Volf				
Name	Ciril				
Place of birth	1 - Slovenia				
Municipality	096 Ptuj			Settlement	016 Ptuj

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▼ Death

- ▶ Prepared for registration
- ▶ Citizen of the Republic of Slovenia
- ▶ Found corpse
- ▶ Legal procedure
- ▶ Administrative procedure
- ▶ Subsequent registration
- ▶ Foreigner
- ▶ List of found corpses

Selected person: 2309969505027 / Volf / Inge

MR20 Death > Citizen of the Republic of Slovenia > Stran 2 od 3

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Date and place of death

Date	10.03.2008	...	Interval		...	- 10.03.2008
Hour	20:20	...	Interval		...	- Jan 1, 1970
Place	1 - Slovenia					
Municipality	061	Ljubljana	...	Settlement	005	Dolgo Brdo
Street	0000	Dolgo Brdo

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Birth Marriage Death Change of civil status Inscription of historical records Searching Reviews Printing

▼ Death

- ▶ Prepared for registration
- ▶ Citizen of the Republic of Slovenia
- ▶ Found corpse
- ▶ Legal procedure
- ▶ Administrative procedure
- ▶ Subsequent registration
- ▶ Foreigner
- ▶ List of found corpses

Selected person: 2309969505027 / Volf / Inge

MR20 Death > Citizen of the Republic of Slovenia > Stran 3 od 3

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Person who reports/sends notification

Type of person 07 - Zdravstveni zavod: bolnišnice in zdravstveni domovi ▼

Person 074 Dom Medvode, d.o.o. ...

Date of receiving notification 10.03.2008 ...

Legal ground of registration

Type 01 - Prijava ▼

Name 02 - Prijava smrti ▼

Type of issuer 07 - Zdravstveni zavod: bolnišnice in zdravstveni domovi ▼

Issuer 074 Dom Medvode, d.o.o. ...

Code 65465

Date of issue 10.03.2008 ...

Date of validity 10.03.2008 ...

Place of storage

Code of storage -

Supplements

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Birth	Marriage	Death	Change of civil status	Inscription of historical records	Searching	Reviews	Printing
-------	----------	-------	------------------------	-----------------------------------	-----------	---------	----------

▼ Printing

▶ Printing

Selected person: //

MR95 Printing

Refresh

Predpriprava za tiskanje

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Applicant

Applicant 1 - Natural person ▼

PIN 2003930500026 Search

Date of birth 20.03.1930

Surname Novak

Name Martin

Person for whom the document is being issued

PIN 2003930500026 Search

Date of birth 20.03.1930

Surname Novak

Name Martin

Purpose of issuing of certification 1 - At the request of customer ▼

Kind of document

Register 1 - MR ▼

Group 101 - Birth ▼

Language 01 - Slovenian ▼

Kind of document MR1_01S_001 - Prijava rojstva ▼

Serial number of the form

Osveži dogodke

Prazen obrazec

Refresh

Predpriprava za tiskanje

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Genís

User friendly IT solutions

Information system for Biometric Passports & ID cards

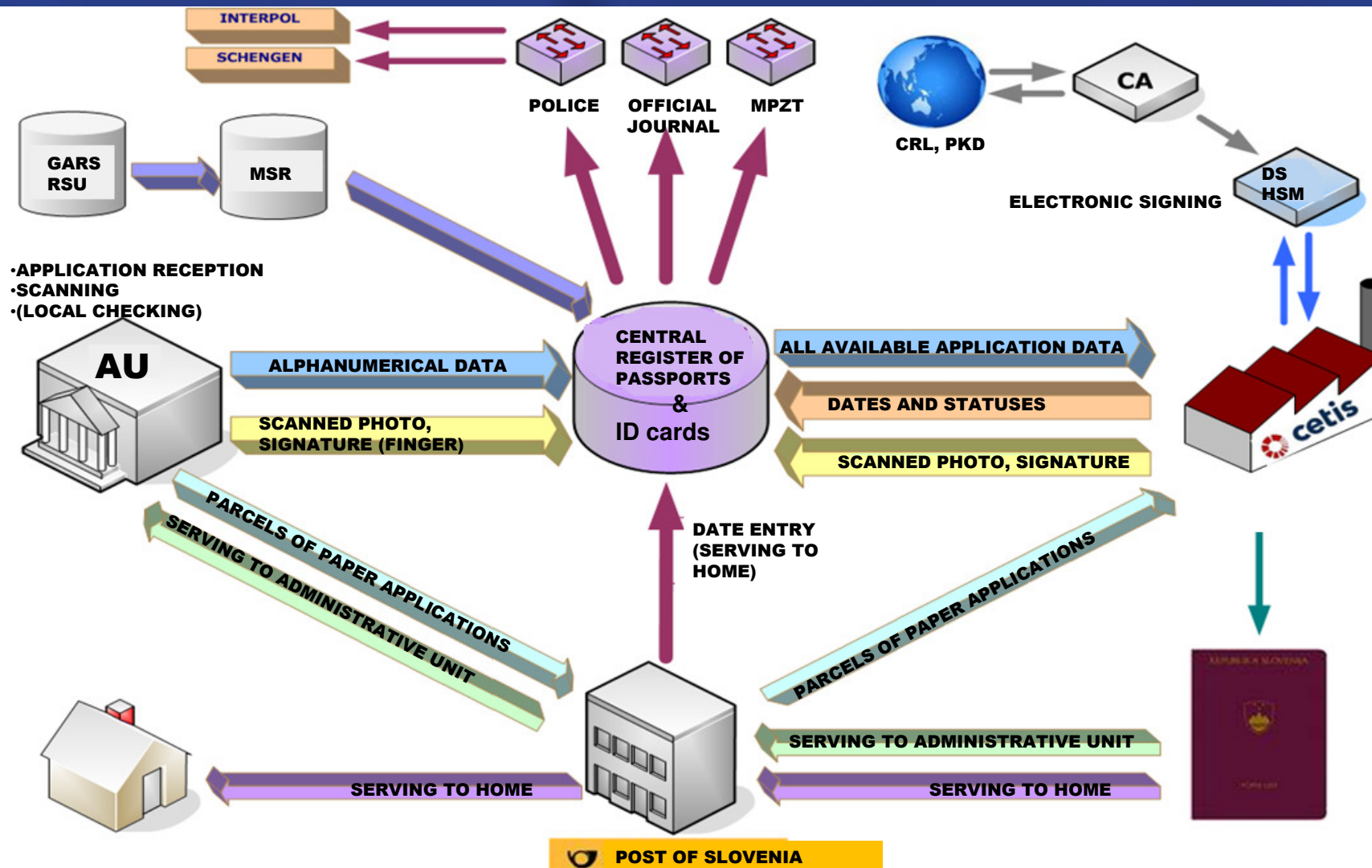
Stane Štefančič

**Chairman
GENIS Ljubljana
SLOVENIA**

Biometric Passports & ID Cards Functionality

- Passports & ID cards for citizens
- Passports for foreigners, diplomats ...
- Application and personalization flow
- Delivery and tracking flow
- Cancellation and official recall flow
- Printouts, reports, statistics, logging
- Biometric pictures support, biometric chip
- Access control, security, monitoring
- Integration with registers

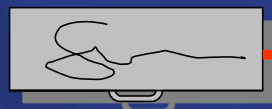
Integration and workflow



Genis

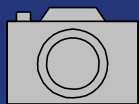
Procedures

Administrative Unit
(Modern Workplace)



12345

Photographer

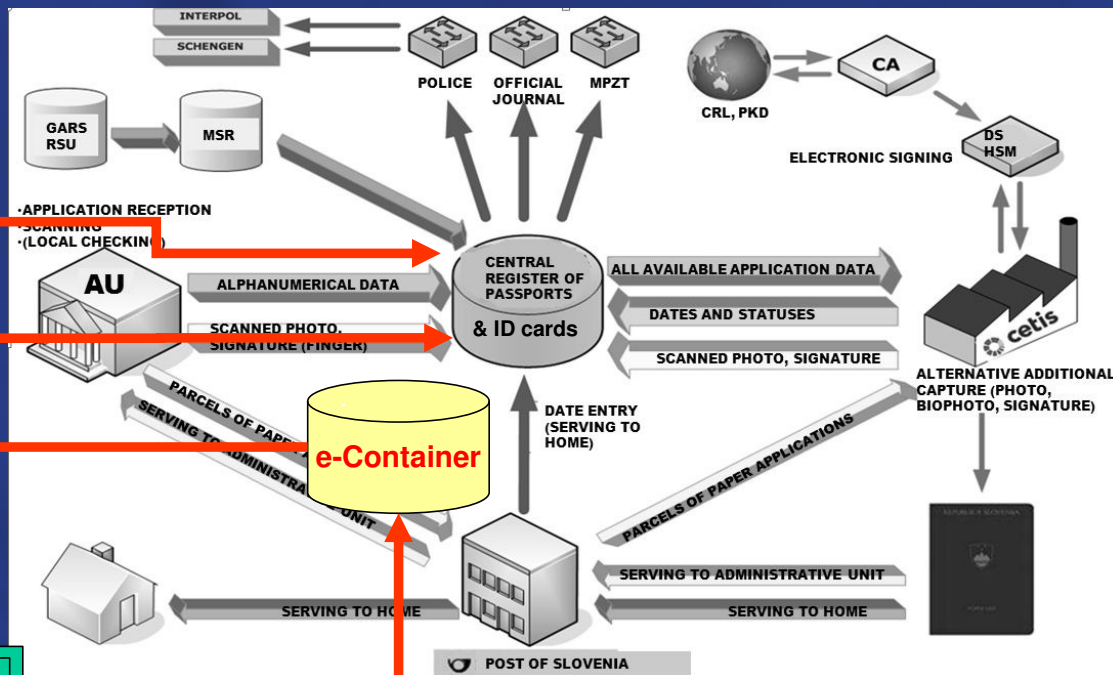


e-Photograph
client

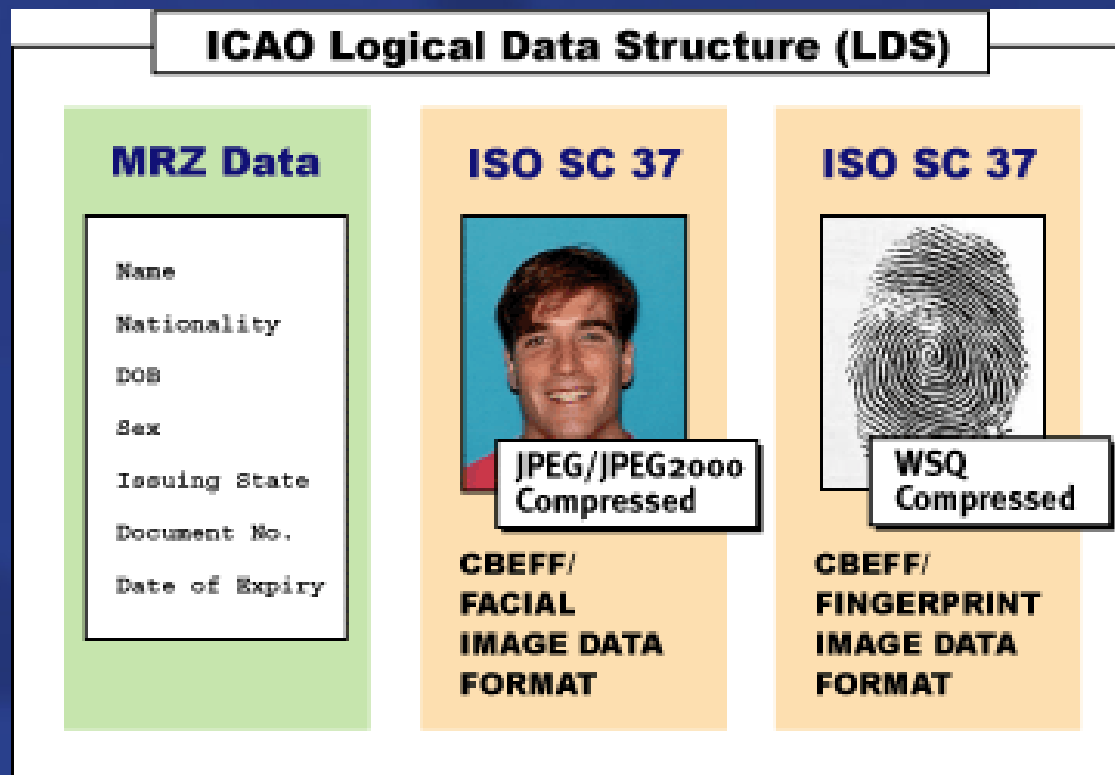
12345

e-Photograph
server

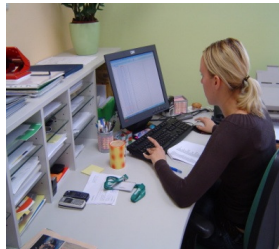
Quality of photo
by ISO/ICAO



Genís Biometric passport 2nd generation



Modern workplace at AU

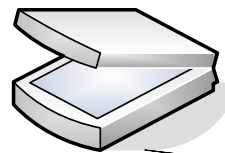


AU Officer

Izbrano mesto: 40804070625 - Riva / Alenka		OIB: Spletno vloga - Spletno	
<div> <div>Novo</div> <div>Novo</div> <div>Novo v pregled</div> <div>Novo potrdilo</div> </div> <div> <div>Novo</div> <div>Novo</div> <div>Novo</div> <div>Novo</div> </div>			
Vrednotenje vloga			
Tip vloga: 1 Vloga za izdajo OI		Enotnost: P2012007000025	
Podaja OI: 01-Ostrega OI		Enotnost: 000153963	
Vrednotenje OI: 01-Ostrega		Jazik: 01 - Slovenski	
Narava vloga: 01-PO		Datum vložitve: 04.09.2007	
Status vloga: 15.06.2006		Datum vložitve: 15.06.2006	
Datum izdaje: 03.09.2007		Priloge: 0 - Ne	
Datum prejema: 03.09.2017		Priloge: 0 - Ne	
Ref. št. vloga: a-Fotograf		Priloge: 0 - Ne	
Tip predložitve vloga: 1-a-Fotograf		Priloge: 0 - Ne	
Tip predložitve vloga: 1-a-Fotograf		Priloge: 0 - Ne	
Plačilo: 0 - Ne		Priloge: 0 - Ne	
Opomba:			

LCD MONITOR

KEYBOARD WITH
CHIPCARD READER
Cherry RS 6700 USB



SCANNER A6
Fujitsu fi-60F

**PERSONAL PHOTOS
OCR-B
BARCODE**

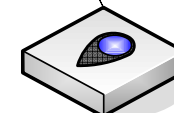


BIOMETRIC
LARGE SCREEN
SIGNATURE PAD
TOPAZ SignatureGem LCD 4 x 5

**HANDWRITTEN
SIGNATURE**



Customer



BIOMETRIC
Fingerprint scanner
CrossMatch Verifier 300 LC

FINGERPRINT

VGA

USB

USB 2.0

USB 2.0

USB 2.0

USB 2.0



Thank you for your attention!

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