



EU2015.LV

Latvian Presidency
of the Council of the
European Union



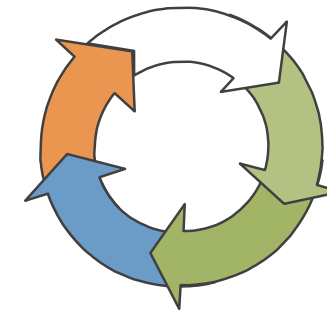
Vides aizsardzības un
reģionālās attīstības
ministrija

CORE DATA MODELS IN E- GOVERNMENT INTEROPERABILITY

ROADMAP FOR LATVIA



ROADMAP FOR LATVIA – STEPS



- Stage #1 - **Preparing for change** – covers evaluation and planning for change
- Stage #2 - **Managing change** covers implementing and rolling-out solutions, including standardization efforts
- Stage #3 - **Reinforcing change** – involves supervision, monitoring and guidance

STAGE #1 – Preparing for change

Public sector ICT landscape – main characteristics

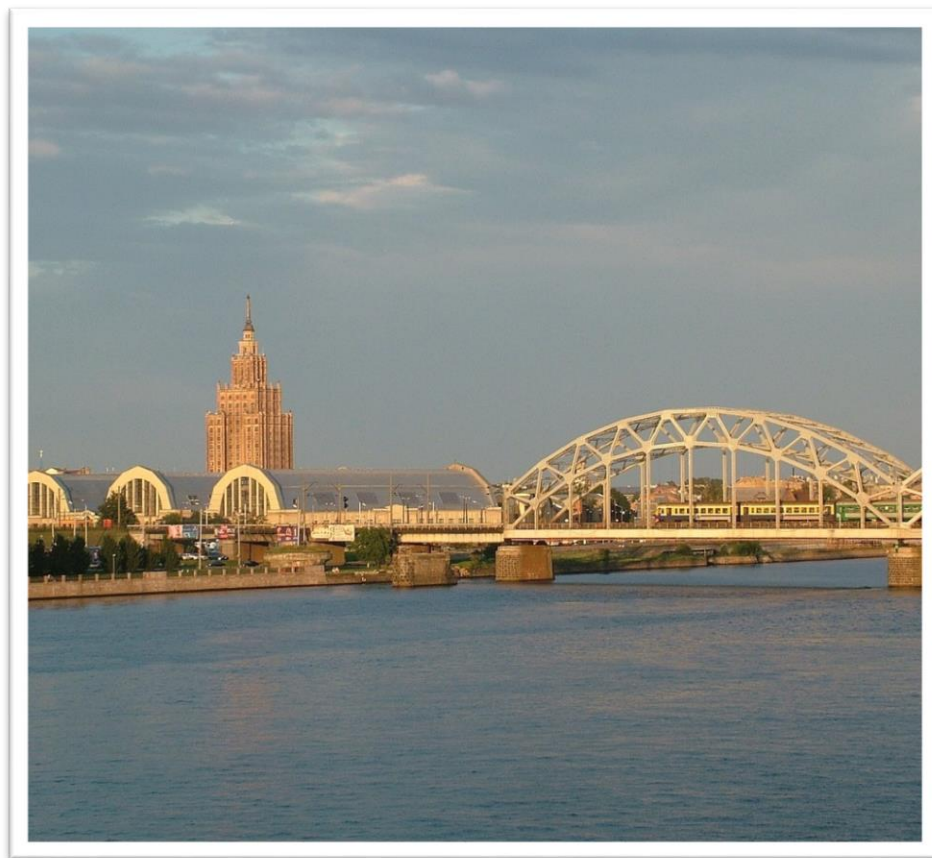


- 2.07 million people
- Gouvernement
 - Central – 13 ministries
 - Local – 119 municipalities
- We already are digital !
 - Many public services available using e-channels
 - 95 % of state revenue service declarations are submitted electronically
 - Electronic admission to universities
 - ...



STAGE #1 – Preparing for change

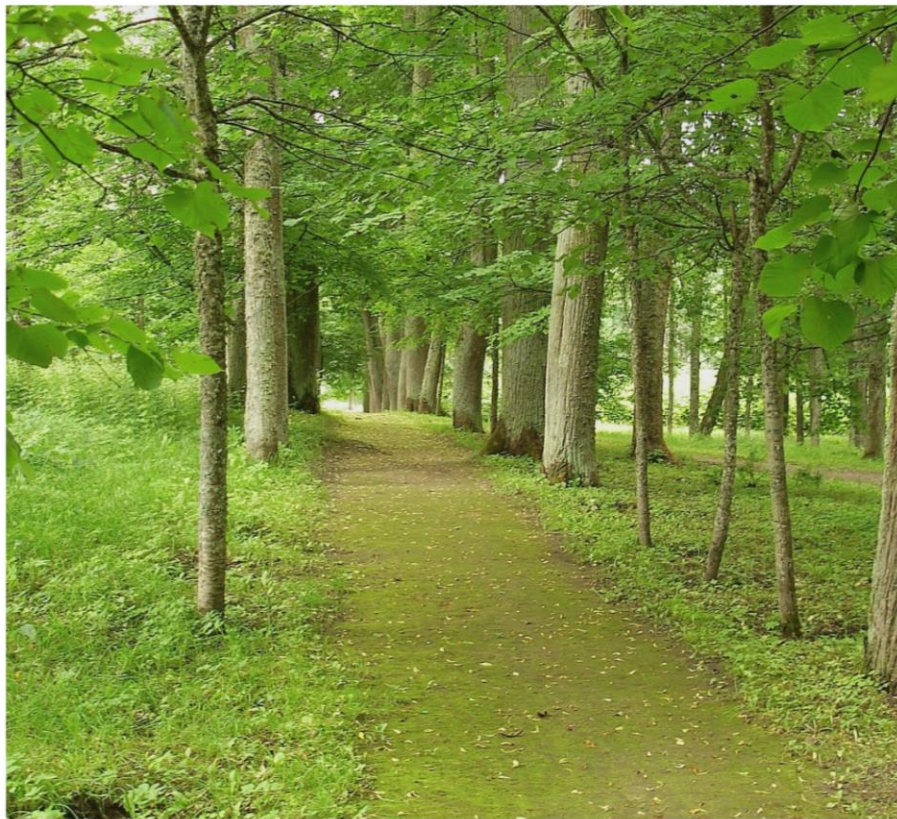
Policy planning



- **Governance** - ICT governance model approved by government in January 2013
- **Strategy** - Guidelines for the development of Information Society (2014-2020), approved by government in October 2013
- **Architecture** – developed in Year 2014
 - Development vision
 - Plan for next 5 years

STAGE #1 – Preparing for change

Key principles



Open Data for growth

- Open Data
- Open Interfaces

Rational ICT management

- Re-use
- Sharing
- Sustainability

Effective processes

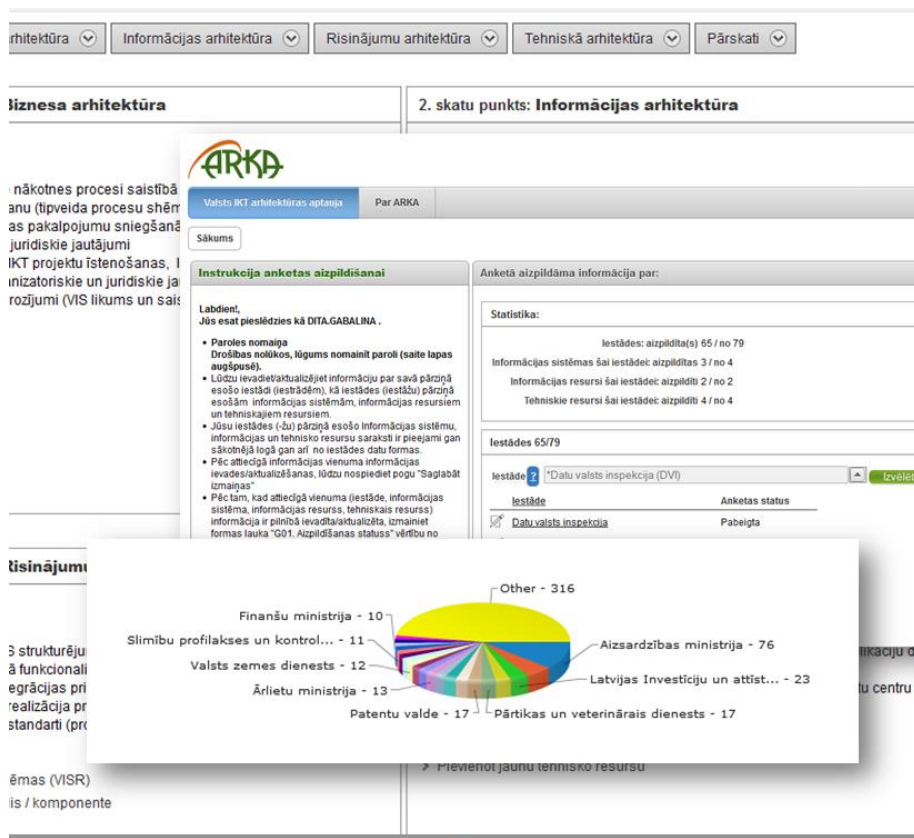
- Process analysis and improvement
- Coordination
- Data quality

E-Government Quality

- Usability
- Accessibility
- Security
- Quality control

STAGE #1 – Preparing for change

Public sector ICT landscape – data collection



Arhitektūra | Informācijas arhitektūra | Risinājumu arhitektūra | Tehniskā arhitektūra | Pārskati

2. skatu punkts: Informācijas arhitektūra

ARKA

Vēlētās IKT arhitektūras aptaujas | Par ARKA

Sākums

Instrukcija anketas aizpildīšanai

Anketā aizpildāma informācija par:

Statistika:

Iestādes: aizpildīta(s) 65 / no 79
Informācijas sistēmas šai iestādē: aizpildītas 3 / no 4
Informācijas resursi šai iestādē: aizpildīti 2 / no 2
Tehniskie resursi šai iestādē: aizpildīti 4 / no 4

Iestādes 65/79

Iestāde: Datu valsts inspekcija (DVI) Izvēlēties

| Iestāde | Anketas statuss |
|------------------------|-----------------|
| Datu valsts inspekcija | Pabeigta |

Finanšu ministrija - 10
Slimību profilakses un kontrolēšanas dienests - 11
Valsts zemes dienests - 12
Ārlietu ministrija - 13
Patentu valde - 17
Pārtikas un veterinārais dienests - 17
Other - 316
Aizsardzības ministrija - 76
Latvijas Investīciju un attīstības aģentūra - 23

- EA artifacts database covering business, information, solution and technical perspectives
- > 100 institutions
- > 600 information systems
- > 1000 public services
- > 300 contributors
- Other artifacts like Information and technical resources, data exchange links, open interfaces, opendata sets, legislation acts etc.

STAGE #1 – Preparing for change

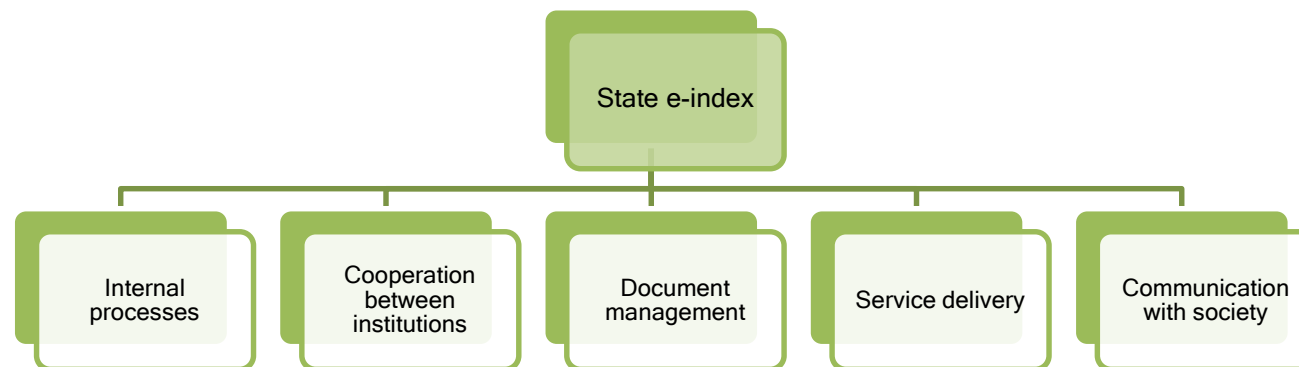
Measuring public sector digital environment – Latvia's **e-index**



- Measuring e-governement and identifying optimization opportunities
 - Municipal e-index – 113 local governments
 - National institution e-index – 102 institutions

STAGE #1 – Preparing for change

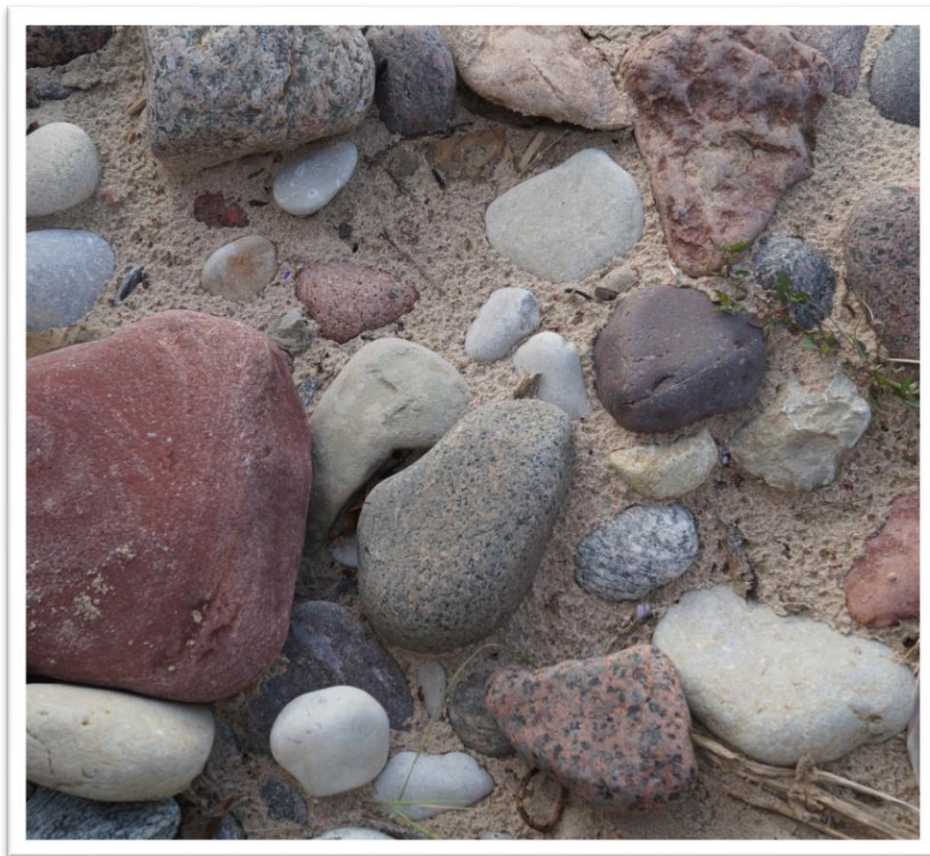
Measuring public sector digital environment – Latvia's e-index



- Covers digitization level of internal processes, document management, service delivery using e-channels, communication with society, cooperation between institutions

STAGE #1 – Preparing for change

Public sector ICT landscape – challenges



- Number of systems indicates significant resource fragmentation level
- Number of data exchange cases / agreements – hard to manage
- Limited capacity of small institutions
- Optimization efforts needs to be coordinated
- Many questions of information resource management still open
- Effort and time for e-service creation
- Emerging solutions for analytics



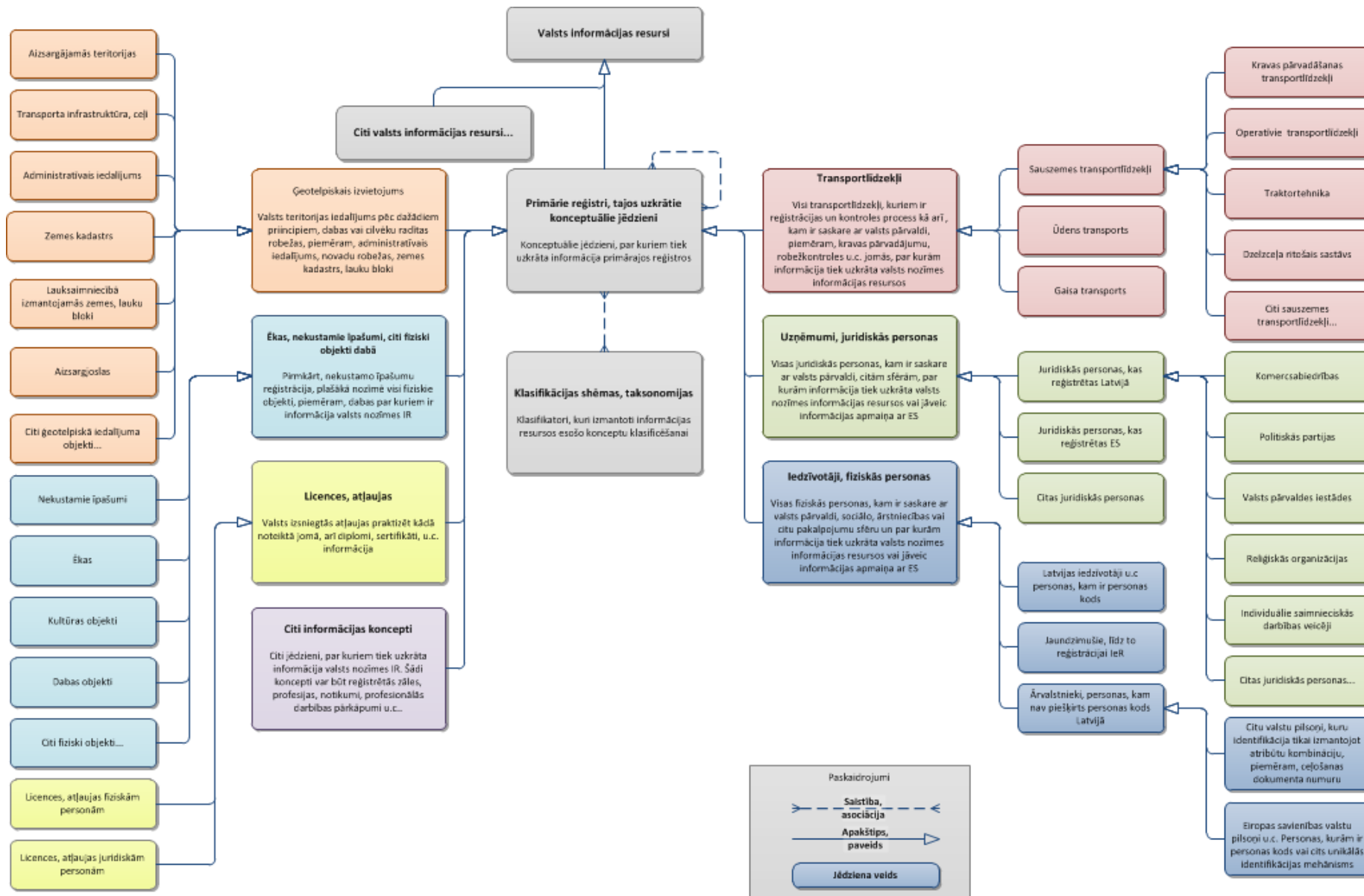
STAGE #1 – Preparing for change

Core data models

- XML Resource catalogue
- Common classifier system based on semantic web approach
- Core data model – e-health experience of RIM model



Public sector Information resources



STAGE #2 - Managing change

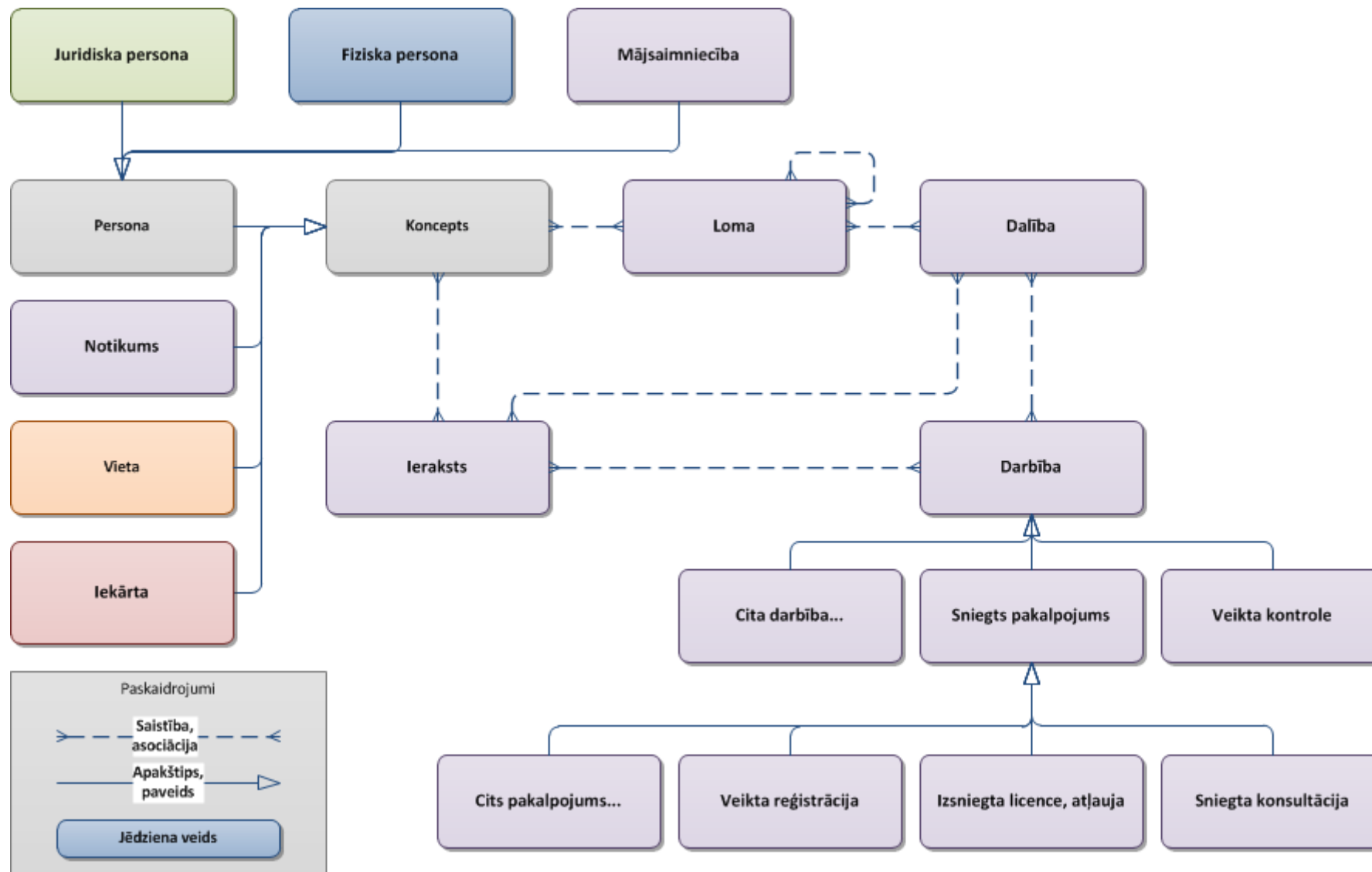
Standardization



- Identification
 - How to identify every concept, for example for physical persons – cases of Citizens, foreigners, newborns
- Common Classifiers
 - At least – for data exchange
- Unified data types
- Using information reference model
 - Every entity is either party (legal/physical), event, role, participation etc. – like HL7 RIM

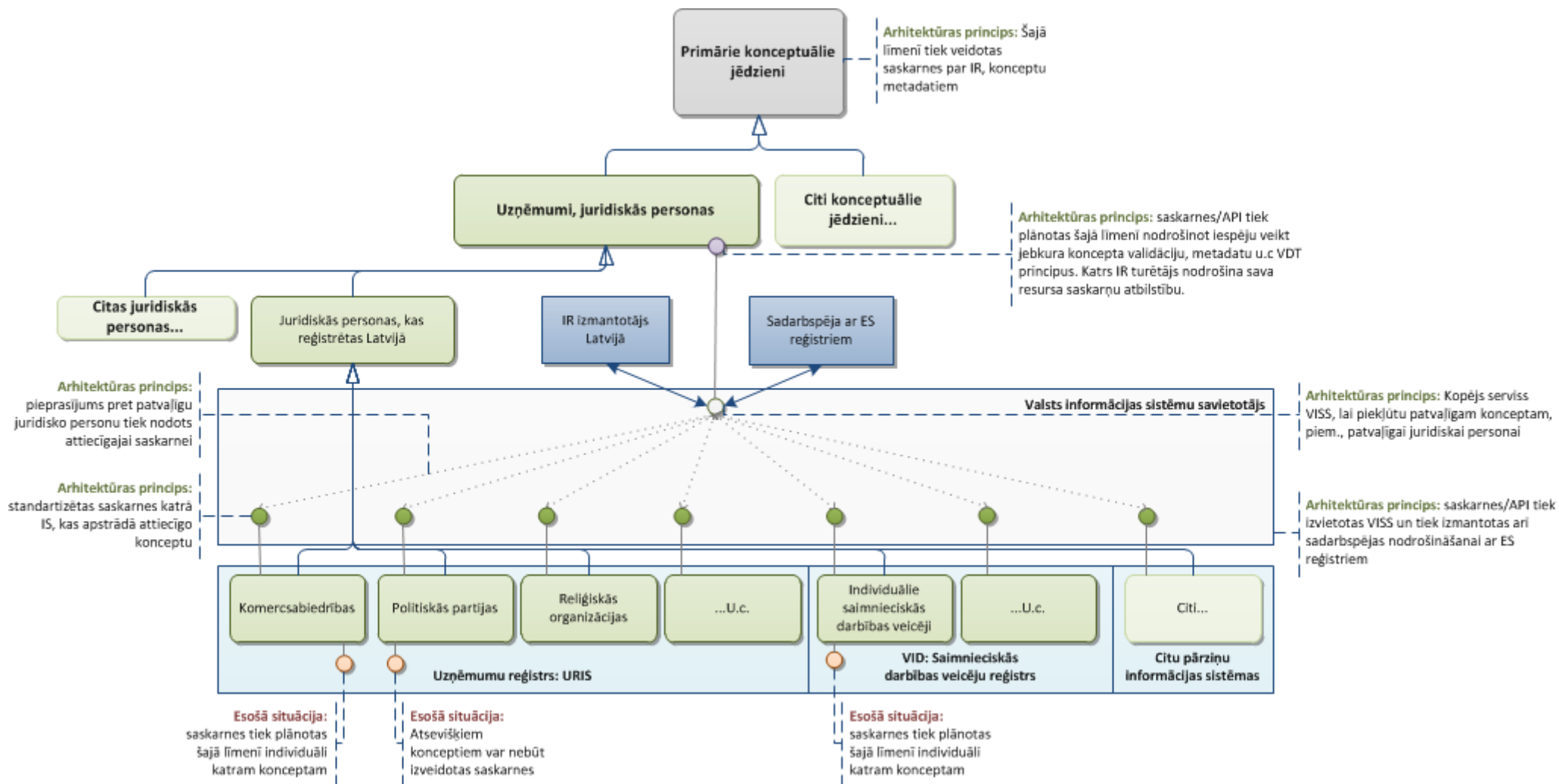
STAGE #2 - Managing change

Public sector Information resource reference model



STAGE #2 - Managing change

Public sector Information resources – legal entities example





STAGE #2 - Managing change

Unified data space programm perspectives



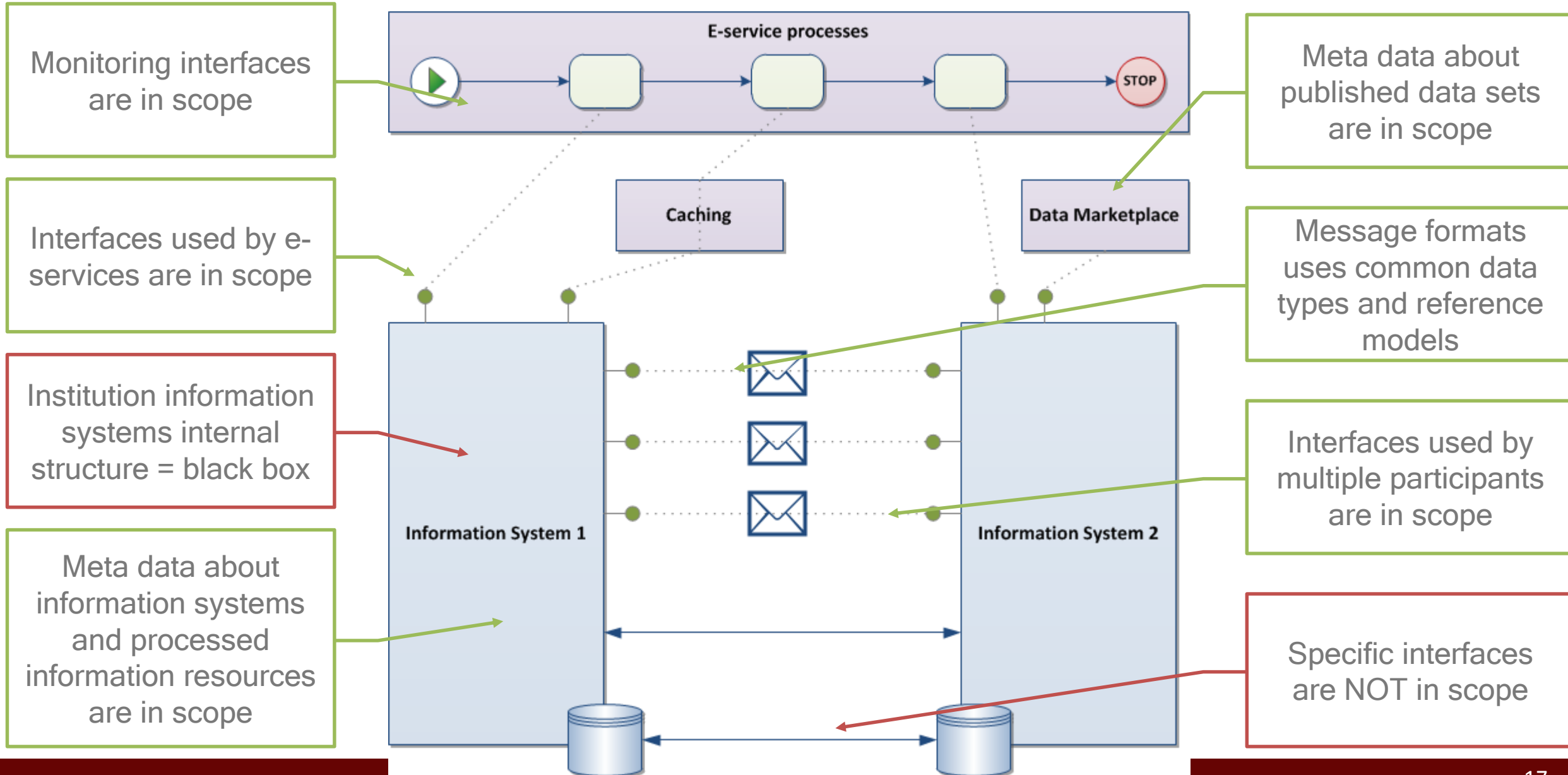
- Unified data space is project portfolio for 2014-2020.
- It plans projects and activities in
 - Legal perspective – establishing Information resource management framework
 - Organizational perspective clarifies responsibilities for involved parties
 - Semantic perspective deals with Standardization, vocabularies, business rules, metadata etc.
 - Technical perspective - Solutions – register of EA artifacts, data marketplace, caching solution

STAGE #3 - Reinforcing change – Activities



- Supervision, monitoring and guidance
 - Programm management
 - Architecture supervision
 - Support
 - Documentation
 - Developer's forums
 - Integration support

STAGE #3 - Reinforcing change – scope of supervision





ROADMAP FOR LATVIA

“The best way to predict the future is to invent it.” – Alan Kay

“Dreaming, after all, is a form of planning.” – Gloria Steinem

“It always seems impossible until it’s done.” – Nelson Mandela





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**PALDIES PAR
UZMANĪBU!**

THANK YOU!